ESL-TR-00/06-01

COMPILATION OF DIVERSITY FACTORS AND SCHEDULES FOR ENERGY AND COOLING LOAD CALCULATIONS

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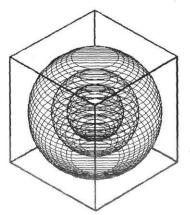
ASHRAE Research Project 1093

Phase III Draft Report

COMPILATION OF DIVERSITY FACTORS AND LOAD SHAPES

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June 2000



ENERGY SYSTEMS LABORATORY

Building Energy Analysis Division Texas A&M University System

PREFACE

This is a draft of the Final Report in the ASHRAE RP-1093 project that, first summarizes the work completed during the scheduled *Phase I* and *Phase II* (presented to the PMSC in Seattle - June 1999, and Dallas February 2000), and reports on the progress during the scheduled *Phase III* effort (Table 1, below). It should be noted that the PMSC approved a one-year extension after the May-2000-Completion-date noted in Table 1. Tables 2 and 3, below, show the buildings that were approved by the PMSC in previous meetings.

During this phase of the project, we finalized the daytyping method to be followed, and started processing the data sets previously approved by the PMSC. So far, we processed a total of 23 buildings (ESL). The final product will include typical load shapes and diversity factors from:

- 27 Office Buildings monitored by ESL
- 9 Office Buildings provided by LBNL (Energy-Edge Buildings).

If time allows we will process 28 additional buildings provided to us by PNNL. These additional buildings were monitored under the ELCAP project.

We prepared typical templates (with Microsoft Word) to describe each building along with the corresponding results of the analysis.

Mr. Micheal Witte, from Gard Analytics, helped us in writing the BLAST input files, and he also automated the procedure of copying the results from EXCEL to the WORD templates.

Table 4, below, shows the final set of building that are currently analysed.

Daytyping Method

We developed a daytyping method based on the percentile analysis. The 50th percentile was adopted to be used for the diversity factors and the typical load shapes. While other statistics were also calculated, such as the:

- Mean
- Mean + 1 Standard Deviation
- Mean 1 Standard Deviation
- 10th Percentile
- 25th Percentile
- 75th Percentile
- 90th Percentile.

These additional statistics provides a clearer representation of the variation in the derived typical load shape. A clear codification of the method will be provided in the Final Report.

Generally one yearlong clean data set was identified and the data was daytyped into Weekends and Weekdays. Holidays were removed from the Weekdays from each data set. Holidays schedules will be treated like Weekends by the user of these diversity factor. This decision is reflected in the way we developed the sample DOE-2 and BLAST input files. We also calculated the EUI's of each building within the buildings descriptions. This will allow the user to clearly identify a building from the whole library we will provide in this project, according to his specific needs.

			1999											2000)			
Phase	Task	Activity / Deliverable	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4*	5
1	1	Literature Review and Database search			Sec. Se			1				1	1	1	1	1	1	<u> </u>
	2	Preliminary Report												1				
2	3.a	Identification of relevant existing Data sets (energy consumption and Demand)																
ĺ	3.b	Identification of methods for the Classification of buildings							•									
Ī	3.c	Identification and use of relevant Statistical procedures for daytyping																
Ī	4	Identification of robust uncertainty Analysis methodologies																
	5	Report on list of derived diversity Factors and schedules based on 3.a, 3.b,and 3.c.									0.70 5515							
3	6.a	Compilation of the diversity Factors and load shapes																
	6.b	Development of a Tool-Kit for deriving New diversity factors, and General Guidelines for their use											identifi Directo (S Directo (S Directo (S)					
	6.c	Development of illustrative examples of the use of the diversity factors in the DOE-2 and BLAST simulation Programs																
F	7.a	Draft Final Report											Same.	(16.4			
F	7.b	Final Project Report														diffi	in the second	
ľ	7.c	Quarterly Reports							in lite stars						Stops (
F	7.d	Technical Research Papers															M. Cal	dal.

* Completion date of the project

Table 1. Phases and Tasks of ASHRAE RP-1093 project.

No.	Category	Bidg ID#	Building	Location	Start Date	End Date	Retrofit Date	Building Area (sqft)	WBE	L&R	Data Format	Cost	Data Quality
1	Large	904	Federal Office 904	Washington D.C	1/1/94	12/31/94	N/A	1,200,000	NWD		Hourly	Free	Good
2	Large	209	State Office 209	AUSTIN	1/1/97	12/31/97	6/1/92 - 8/1/93	491,000	NWD	LITEQ	Hourly	Free	Good
3	Large	146	State Office 146	Dallas, TX	1/1/95	12/31/95	6/30/92 - N/A	473,800	WD	MCC	Hourly	Free	Good
4	Large	708	State Office 708	Capitol Complex	-	•	6/13/94 - 12/28/94	378,100	NWD		15min	Free	Bad
5	Large	710	State Office 710	Capitol Complex	1/1/98	12/31/98	7/1/94 - 12/28/94	366,805	NWD		15min	Free	Good
6	Large	952	County Office 952	Dallas County	1/1/98	12/31/98	N/A	323,232	1		Hourly	Free	OK
7	Large	711	State Office 711	Capitol Complex	1/1/98	12/31/98	5/6/94 - 9/9/94	317,286	NWD		15min	Free	Good
8	Large	210	State Office 210	AUSTIN	1/1/97	12/31/97	1/1/94 - 5/1/94	308,080	NWD	LIGHT, LITEQ	Hourly	Free	Good
9	Large	200	State Office 200	AUSTIN	7/1/97	7/1/98	N/A	282,499	NWD		Hourly	Free	OK
10	Large	707	State Office 707	Capitol Complex	1/1/98	12/31/98	6/13/94 - 12/28/94	281,850	NWD		15min	Free	Good
11	Large	704	State Office 704	Capitol Complex	1/1/98	12/31/98	7/22/94 - 6/23/95	200,829	NWD		15min	Free	Good
12	Large	201	State Office 201	AUSTIN	1/1/93	1/1/94	2/1/94 - N/A	182,961	NWD		Hourly	Free	OK
13	Large	203	State Office 203	AUSTIN	1/1/97	12/31/97	4/1/92 - 8/1/92	169,746	WD	LIGHT	Hourly	Free	Good
14	Large	228	State Office 208	AUSTIN	1/1/98	12/31/98	2/1/94 - N/A	151,620	NWD		Hourly	Free	Good
15	Large	229	State Office 229	AUSTIN	1/1/98	12/31/98	2/1/94 - N/A	121,654	NWD		Hourly	Free	Good
16	Large	208	State Office 208	AUSTIN	1/1/97	12/31/97	4/1/92 - 8/1/92	120,000	NWD	LITEQ	Hourly	Free	Good
17	Large	206	State Office 206	AUSTIN	1/1/96	12/31/96	4/1/92 - 9/1/92	102,000	NWD	LITEQ	Hourly	Free	Good
18	Large	963	Court 963	Butte, MT	7/1/98	7/1/99	N/A	100,000			Hourly	Free	OK
19	Large	975	Court 975	Bryan, TX	7/1/98	7/1/99	N/A	100,000	WD	MCC	Hourly	Free	Good
20	Large	984	Private Office 984	Dallas, TX	1/1/98	12/31/98	N/A	100,000		MCC	Hourly	Free	Bad (MCC)
21	Large	985	Private Office 985	Dallas, TX	10/1/98	10/1/99	N/A	100,000	WD	MCC	Hourly	Free	OK
22	Medium	226	State Office 226	AUSTIN	1/1/96	12/31/96	2/1/94 - N/A	97,030	NWD		Hourly	Free	Good
23	Medium	709	State Office 709	Capitol Complex	3/1/96	3/1/97	9/24/94 - 4/5/95	87,664	NWD		15min	Free	Good
24	Medium	205	State Office 205	AUSTIN	1/1/94	12/31/94	4/1/92 - 8/1/92	80,000	WD	LITEQ	Hourly	Free	OK
25	Medium	712	State Office 712	Capitol Complex	1/1/98	12/31/98	7/11/94 - 6/23/95	77,630	NWD		15min	Free	Good
26	Medium	227	Stata Court 227	AUSTIN	1/1/98	12/31/98	2/1/94 - N/A	72,737	DWN		Hourly	Free	Good
27	Medium	207	State Office 207	AUSTIN	1/1/93	12/31/93	4/1/94 - N/A	62,000	WD	MCC	Hourly	Free	Good
28	Medium	706	State Office 706	Capitol Complex	1/1/98	12/31/98	9/2/94 - 4/5/95	57,047	NWD		15min	Free	Good
29	Medium	951	County Office 591	Dallas County	1/1/98	12/31/98	N/A	42,385			Hourly	Free	OK

Table 2 All Office Buildings monitored at ESL and relevant to the ASHRAE RP-1093 project.

No.	Category	Building Name	Location	Start Date	End Date	Retrofit Date	Building	L&R	Source	Data	Cost	Data Quality
							Area (ft2)			Format		
1	Large Office		Bellevue, WA	Oct-90	Sep-91		389,000	Light, Recep	Energy Edge, LBNL	Hourly	Free	OK
2	Large Office	160 Sansome	San Francisco, CA	May-98	Jun-99		100,000	Light, Recep	LBNL	Hourly	Free	OK
3	Medium Office	Director	Portland, OR	Jan-91	Aug-92		79,700	Light, Recep	Energy Edge, LBNL	Hourly	Free	OK
4	Medium Office	EPUD	Eugene, OR	Nov-88	Sep-92			Light, Recep	Energy Edge, LBNL	Hourly	Free	OK
5	Medium Office	East Gate	Bellevue, WA	Aug-90	Jun-92		23,728	Light, Recep	Energy Edge, LBNL	Hourly	Free	OK
6	Medium Office	West Yakima	Yakima, WA	Nov-88	Apr-90		16,221	Light, Recep	Energy Edge, LBNL	Hourly	Free	OK
7	Small Office	Dubal	Portland, OR	Dec-87	Aug-89		8,512	Light, Recep	Energy Edge, LBNL	Hourly	Free	OK
8	Small Office	East Idaho	Idaho Falls, ID	Jun-88	Mar-90		5,300	Light, Recep	Energy Edge, LBNL	Hourly	Free	OK
9	Small Office	STS	Ellensburgh, WA	Jan-89	Apr-92		4,266	Light, Recep	Energy Edge, LBNL	Hourly	Free	OK

Table 3 Energy-Edge Office Buildings provided by LBNL for the ASHRAE RP-1093 project.

Category	NO.	Bidg I.D		Building	Location	Building Area (sqit)	Data Type	Max Load (W/sqft)	Source	EUI (kWh/sqft. year)	Start Date	End Date	Retrofit Date	WBE	Data Format	Cost	Data Quality
L	1		CAL001	160 Sansome	San Francisco, CA	100,000			LBNL		5/1/98	6/1/99					
			1	1	washington D.C		RECEP				5/1/98	6/1/99					
L	2	904	DCL001	USDOE Forrestal Building		1,200,000	WBE	3,93	ESL,	19.99	1/1/94	12/31/94	N/A	NWD			Good
S	3		ID\$001	East Idaho	Idaho Falls, ID	6,300	LIGHT		LBNL	13.00	12/1/87	8/1/89					Good
				The Address of the Ad		000 000									1	1	Good
L	4	704	MNL001	Judicial Building	Minneapolis, MN Minneapolis, MN	200,829	WBE	1.11	ESL	4.59	1/1/98	12/31/98	7/22/94 - 6/23/95	NWD			Good
L	5	707	MNL002	State Office Bldg.	Minneepolis, MN	366,805	WBE	0.92	ESL	4.04	1/1/98	12/31/98	7/1/94 - 12/28/94	NWD	15min	\square	Good
L	8	710	MNL003 MNL004	Capitol Building	Minneapolis, MN	317,288	WBE	1.09	ESL	7.40	1/1/98	12/31/98	5/6/94 - 9/9/94	NWD	15min	\square	Good
M	7 8	708	MINLOO4	Ford Building	Minneepolis, MN	57,047	TIDE		ESL	entitienteritete	1/1/98	12/31/98	9/2/94 - 4/5/95	NWD	15min	\square	Good
M	9	709	MNM002	Veterans Building	Minneapolis, MN	87,004	WBE	0.69	ESL	2.89	3/1/98	3/1/97	9/24/94 - 4/5/95	NWD	15min 15min	\square	Good
M	10	712		Criminal Apprehension Bldg.	Minneapons, MN	77,630	TIDE	10000	ESL	2.05	1/1/98	12/31/96	7/11/94 - 6/23/95	NWD	15min	\square	Good
-	11 1	963		Buite Courthouse	Dutte, WI	100,000	WBE	1.13	ESL	4.19	7/1/98	7/1/99	N/A	NWD	101111		Good
M	12		ORM001	And the second s	Portland, OR	79,700	LIGHT	1.15	LBNL	5.58	1/1/91	8/1/92			-		Good
			01411001				RECEP				1/1/91	8/1/92				\vdash	Good
M	13		ORM002	EPUD	Eugene, OR	24,800	LIGHT		LBNL		11/1/88	9/1/92				\vdash	Good
	-						RECEP				11/1/88	9/1/92					Good
S	14		OR\$001	Dubel	Portland, OR	8,500	LIGHT		LBNL		12/1/87	8/1/89		_		\vdash	Good
	-						RECEP				12/1/67	6/1/69					Good
LI	15	146	TXL001	Government Center	Dallas, TX	473,800	WBE-MCC	2.61	ESL,	10.61	1/1/95	12/31/95	6/30/92 - N/A	WD			Good
L	16	203	TX1.002	John H. Reagan	Austin, TX	169,746	WBE-MCC	4.36	ESL	24.73	1/1/97	12/31/97	4/1/92 - 8/1/92	WD			Good
L	17	208	TX1.003	Insurance Building	Austin, TX	102,000	WBE-MCC	3,54	ESL	19.73	1/1/96	12/31/98	4/1/92 - 9/1/92	NWD			Good
L	18	208	TXL004	Archives Building	Austin, TX	120,000	WBE-MCC	1.83	ESL	7.59	1/1/97	12/31/97	4/1/92 - 8/1/92	NWD			Good
L	19	209	TXL005	W.B. Travis	Austin, TX	491,000	WBE-MCC	3.13	ESL	16.46	1/1/97	12/31/97	6/1/92 - 8/1/93	NWD		\square	Good
L	20	210	TXL006	L.B. Johnson	Austin, TX		WBE-MCC-AHU	5.17	ESL	33.79	1/1/97	12/31/97	1/1/94 - 5/1/94	NWD			Good
L	21	228	TXL007	Price Daniels Building	Austin, TX	151,620	WBE	2.78	ESL	15.95	1/1/98	12/31/98	2/1/94 - N/A	NWD			Good
L	22	229	TXL008	Tom C. Clark Building	Austin, TX	121,654	WBE	1.75	ESL	12.32	1/1/98	12/31/98	2/1/94 - N/A	NWD			Good
11 A.	23	985	TXL009		Dallas, TX	100,000	WBE-MCC	State of the second	ESL		10/1/98	10/1/99	N/A	WD			OK
L	24	975	TXL010	cheater crowing continuence	Bryan, TX	100,000	WBE-MCC	all the second	ESL	STREET,	7/1/98	7/1/99	N/A	WD			Good
	25	200	TXL011	Capitol Building	Austin, TX	282,499	WBE	3.39	ESL	21.17	7/1/97	7/1/98	N/A	NWD			OK
	28	201			Austin, TX	182,961	WBE	5.39	ESL	30,18	1/1/93	12/31/94	N/A	NWD			OK
	27	952	TXL013	recorde complet	Dallas, TX	323,232	WBE	and a but to be a feat	ESL		1/1/98	12/31/98	N/A				OK
	28	205			Austin, TX Austin, TX	80,000	WBE-MCC WBE-MCC-Chill	5.22	ESL	34.42	1/1/93	12/31/94	4/1/92 - 8/1/92 4/1/94 - N/A	WD		-+	OK
	29	207	TXM002		Austin, TX	62,000 97,030	WBE-MCC-Chill	2.21	ESL	11.63	1/1/95	12/31/95	2/1/94 - N/A	WD		-	Good
	30	226			Austin, TX	72,737	WBE	2.22	ESL	11.64	1/1/98	12/31/98	2/1/94 - N/A	NWD		-+	Good
	31	227 951		ouplaine everteeneng	Dallas, TA	42,385	WBE	4.87	ESL	20.82	1/1/90	12/31/96	2/1/94 - N/A	DWN		-	Good OK
Concession in the local division in the loca				Additionate a control of the	Bellevue, WA	389,000	LIGHT	4,01	LBNL	22.00	10/1/90	9/1/91				-	
-	33		WALOUT	Bellevue	Denorady Triv	303,000	RECEP		LOIAL	22.00	10/1/90	9/1/91		-+		-+	Good
	34		WAM001	East Gate	Bellevue, WA	25,100	LIGHT		LBNL	21.00	8/1/90	6/1/92				-+	Good
M	34		TAMOUT	Lest Gdia			RECEP			21.00	8/1/90	6/1/92				-+	6000
M	35		WAM002	West Yakima	Yakima, WA	16,200	LIGHT		LBNL	11.00	11/1/88	4/1/90				\rightarrow	Good
M			11/41002	Trust tenine			RECEP				11/1/88	4/1/90		-+		-+	
s	36		WAS001	STS	Elensburg, WA	4,300	LIGHT		LBNL	10,00	1/1/89	4/1/92				+	Good
3	30		175001				RECEP				1/1/98	4/1/92				-+-	0000

Table 4 The Final set of the RP-1093 buildings.

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Further Data from PNNL

Mr. Todd Taylor, from PNNL, provided us with 28 ELCAP office buildings data. These ELCAP buildings are in Seattle (WA), Oregon, and Idaho, and were monitored by the Bonneville Power Administration, and the Pacific Northwest National Laboratory. We will process these buildings in addition to the ESL and LBNL buildings (agreed upon in previous PMSC meetings) as time allows. Table 5, below, shows a description of these 28 sites.

Category	No.	Bidg. I.D.	Location	floor.area	Data Type
M	1	2	Seattle, WA	15,732	LIGHT
	-	1	1		RECEP
	2	273	Olympia, WA	NA	LIGHT
		1	1	11	RECEP
S	3	283	Seattle, WA	3,425	LIGHT
		1			RECEP
S	4	286	Eugene, OR	6,883	LIGHT
	-	1			RECEP
M	5	290	Eugene, OR	56,200	LIGHT
	7				RECEP
S	6	298	Seattle, WA	9,959	LIGHT
		1			RECEP
S	- 7	299	Seattle, WA	5,128	LIGHT
					RECEP
S	8	444	Seattle, WA	3,157	LIGHT
					RECEP
м	9	451	Everett, WA	15,781	LIGHT
					RECEP
S	10	453	Idaho Falls, ID	4,845	LIGHT
	10	400	Idano Fails, it	4,045	RECEP
M		150	10 m 144		LIGHT
M	11	456	Seattle, WA	11,318	
					RECEP
S	12	458	Seattle, WA	7,911	LIGHT
					RECEP
M	13	538	Seattle, WA	12,130	LIGHT
					RECEP
S	14	547	Seattle, WA	3,015	LIGHT
					RECEP
M	15	548	Seattle, WA	16,372	LIGHT
					RECEP
S	16	565	Seattle, WA	2,921	LIGHT
					RECEP
	17	583	Seattle, WA	NA	LIGHT
					RECEP
S	18	595	Seattle, WA	4,800	LIGHT
					RECEP
S	19	600	Seattle, WA	6,423	UGHT
					RECEP
S	20	601	Seattle, WA	2,506	UGHT
					RECEP
M	21	602	Seattle, WA	28,649	LIGHT
					RECEP
M	22	607	Richland, WA	51,022	UGHT
					RECEP
	23	697	Seattle, WA	127,590	LIGHT
			Common tits	14.1,000	RECEP
M	24	714	Richland, WA	25,678	LIGHT
			Savenne Ma 1113	20,010	RECEP
м	25	717	Seattle, WA	31,691	LIGHT
M			Sealue, TTA	31,091	RECEP
M	26	731	C	90 700	
M	20	/31	Seattle, WA	38,766	RECEP
м			Contra Mar	10 001	
M	27	738	Seattle, WA	59,831	RECEP
		-			
	28	747	Everett, WA	NA	
					RECEP

 Table 5 The ELCAP Commercial Buildings provided by PNNL for the ASHRAE 1093-RP project.

Final Templates of the Processed Buildings

We present, below, the final templates of the RP-1093 project. Templates are for individual buildings, and include all the descriptions available for the building considered, together with the derived diversity factors in a table format, and the typical load shapes. Also, a sample input file for the DOE-2 and BLAST simulation programs are included. These input files are ready to be "cut and pasted" by the user when he/she is writing a DOE-2 or BLAST input code. The final templates shown in the Appendix, below, consist of the following:

- Page 1 Building Description, includes:
 - The Site I.D.
 - Building Name
 - Source of Data
 - Building Location
 - Building Category
 - Square Footage
 - Lighting / Receptacles EUI's
 - Lighting Type
 - Length of the Processed Data Set (Dates)
 - Data Type (Lighting, Receptacles, Lighting+Receptacles, etc...)
 - Maximum kW
- Page 2 Typical Load Shapes of the Daytypes, includes:
 - The Typical Load Shapes for the Weekdays daytype
 - The Typical Load Shapes for the Weekends daytype
 - The days excluded from the Weekdays daytype for having extreme values usually lying within the 10th and the 90th percentiles. These days are mostly Holidays.
- Page 3 Diversity Factors and Statistics, includes:
 - For the Weekdays daytype, the Diversity Factors (Hourly) of the building considered. The 50th percentile values are the values to be used by the analysts, while the rest of the statistics (Mean, Mean+1 Standard Deviation, etc..) are useful in shedding more light into the derived diversity factors. Two "Daily" values are also included for each statistic. *Daily Values* is the statistic applied on the daily total values of the monitored data set, while the *Daily Sum from Hourly* is the daily aggregated value as the statistic is applied on the hourly (hour-of-day) data. A comparison between these two daily values provides an idea of how much the derived typical load shapes (hourly diversity factors) deviate from a typical day.
 - Similar analysis is provided for the Weekends daytype.
- Page 4 DOE-2 Input Sample, includes:
 - A ready-to-use example of the Lighting/Receptacle schedule within the DOE-2 simulation program. The example includes also the Heat Gain from light to space (equipment to space) and the Names (can be changed by the user) of: (1) Building Zone(s) where this schedule is to be applied, (2) Lighting/Receptacle schedule. These commends will be included by the user in the LOADS part of the DOE-2 input file.

- Page 5 BLAST Input Sample, inlcudes:
 - A ready-to-use example of the Lighting/Receptacle schedule within the BLAST simulation program. The example includes also the Heat Gain from light to space (equipment to space) and the Names (can be changed by the user) of Lighting/Receptacle schedule.

APPENDIX

Site

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TXL001	
TXL002	
TXL003	
TXL004	
TXL005	
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TXL010	60
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MNL001	
MNL002	
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MNL004	
MNM002	

TXL001

(Page 1) Building Descriptions: (TXL001)

(This section depends on the extent of information available on each building).

Building 16:

Building Name: Government Center Building.

Source of Data: The Energy Systems Laboratory, Texas A&M University.

Location: Dallas, Texas.

Category: Large Office Building, based on the CBECS classification.

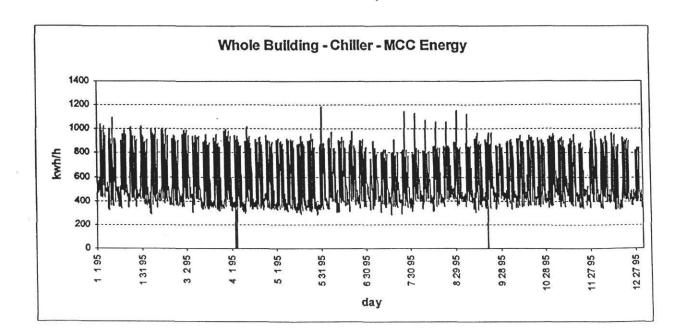
Square footage: Fourteen story, 473,800 ft².

Lighting EUI: $[(12.93 \times 5) + (8.34 \times 2)] \times 52 \times 2.51 = 10.61 \text{ kWh/ft}^2$.year

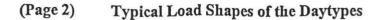
Lighting Type: mixture of 34-W fluorescent (5,422 lamps) and incandescent lamps.

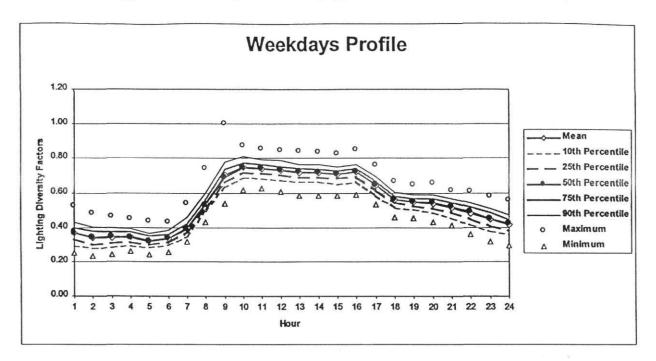
Dates: 1/1/95 - 12/31/95

Data Type: Lighting + Receptacles = WBE - MCC - Chillers = ch1016 - (ch1010 + ch1011 + ch1012 + ch1013 + ch1526) - (ch1000 + ch1001 + ch1002 + ch1004 + ch1005 + ch1006 + ch1007 + ch1008 + ch1009 + ch1014 + ch1015 + ch1022)

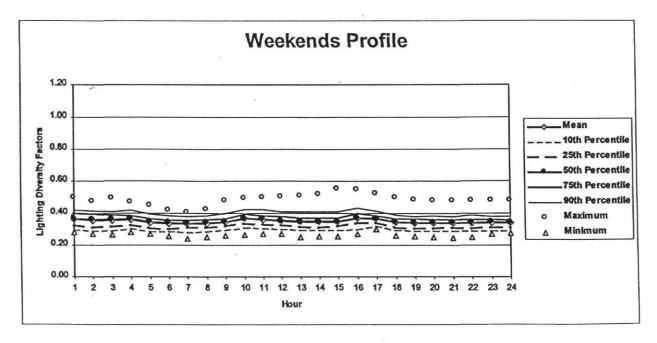


Maximum kW: 1,189 kW





*The dates that are excluded from the weekday profile are as follow: 01/02/95, 01/16/95, 05/29/95, 07/04/95, 09/04/95, 11/23/95, 11/24/95, 12/25/95, and 12/26/95.



(Page 3) WEEKDAYS **Diversity Factors and Statistics**

	Hour	Mean	Mean+1St D	Mean-1StD	10th Perctl	25th Perctl	50th Perctl	75th Perctl	90th Perctl	Maximum	Minimum
Г	1.00	0.37	0.42	0.32	0.30	0.33	0.37	0.40	0.43	0.52	0.25
	2.00	0.34	0.39	0.29	0.28	0.30	0.34	0.38	0.40	0.48	0.24
	3.00	0.34	0.39	0.30	0.29	0.31	0.35	0.38	0.40	0.46	0.24
F	4.00	0.35	0.39	0.31	0.30	0.32	0.34	0.38	0.40	0.45	0.26
Г	5.00	0.32	0.36	0.29	0.28	0.30	0.32	0.35	0.37	0.44	0.24
	6.00	0.34	0.37	0.31	0.30	0.31	0.34	0.36	0.38	0.43	0.26
	7.00	0.40	0.43	0.36	0.35	0.37	0.39	0.42	0.46	0.54	0.32
	8.00	0.54	0.58	0.49	0.49	0.51	0.53	0.56	0.60	0.74	0.43
	9.00	0.70	0.77	0.63	0.63	0.66	0.69	0.73	0.78	1.00	0.54
	10.00	0.75	0.80	0.70	0.69	0.72	0.75	0.77	0.81	0.87	0.62
F	11.00	0.74	0.78	0.70	0.68	0.71	0.74	0.76	0.79	0.85	0.63
	12.00	0.73	0.77	0.69	0.68	0.70	0.73	0.75	0.79	0.84	0.61
	13.00	0.72	0.76	0.68	0.66	0.69	0.72	0.74	0.77	0.84	0.58
	14.00	0.72	0.76	0.67	0.66	0.69	0.72	0.74	0.76	0.84	0.59
	15.00	0.71	0.75	0.67	0.65	0.68	0.71	0.73	0.75	0.82	0.59
F	16.00	0.72	0.76	0.68	0.66	0.69	0.72	0.74	0.77	0.85	0.59
F	17.00	0.65	0.69	0.60	0.59	0.62	0.64	0.67	0.69	0.76	0.53
L L	18.00	0.56	0.60	0.53	0.51	0.54	0.56	0.58	0.60	0.67	0.46
L L	19.00	0.55	0.58	0.51	0.50	0.53	0.55	0.57	0.59	0.64	0.45
	20.00	0.54	0.58	0.50	0.49	0.51	0.54	0.57	0.59	0.66	0.43
Г	21.00	0.52	0.56	0.48	0.45	0.49	0.52	0.55	0.57	0.62	0.41
L L	22.00	0.48	0.53	0.44	0.42	0.45	0.49	0.52	0.54	0.61	0.36
L L	23.00	0.45	0.50	0.40	0.38	0.41	0.45	0.49	0.51	0.58	0.32
	24.00	0.42	0.46	0.37	0.36	0.38	0.42	0.45	0.47	0.56	0.30
Daily Values		12.93	13.54	12.32	12.20	12.56	12.93	13.27	13.68	14.83	11.34
aily Sum fro	m Hourty	12.94	13.98	11.90	11.62	12.23	12.92	13.59	14.22	16.08	10.26
Daily Values:	The Daily res	ults as the	statistics are a	applied on da	ily data.		1	I	l		

WEEKENDS/HOLIDAYS

	Hour	Mean	Mean+1StD	Mean-1StD	10th Perctl	25th Perctl	50th Percti	75th Perctl	90th Perctl	Maximum	Minimun
	1.00	0.36	0.41	0.31	0.30	0.32	0.36	0.40	0.42	0.50	0.28
	2.00	0.35	0.40	0.31	0.29	0.31	0.36	0.39	0.41	0.47	0.27
	3.00	0.35	0.40	0.31	0.29	0.31	0.36	0.39	0.41	0.49	0.26
	4.00	0.36	0.40	0.32	0.30	0.33	0.37	0.38	0.42	0.47	0.28
	5.00	0.34	0.38	0.30	0.29	0.31	0.34	0.36	0.39	0.45	0.27
	6.00	0.33	0.37	0.30	0.28	0.30	0.34	0.36	0.38	0.42	0.26
F	7.00	0.33	0.37	0.30	0.28	0.31	0.33	0.35	0.38	0.40	0.24
	8.00	0.33	0.37	0.30	0.28	0.31	0.34	0.36	0.38	0.42	0.25
	9.00	0.34	0.38	0.30	0.29	0.32	0.34	0.37	0.40	0.48	0.26
F	10.00	0.37	0.41	0.32	0.31	0.33	0.36	0.39	0.42	0.49	0.27
	11.00	0.36	0.41	0.31	0.30	0.33	0.36	0.38	0.42	0.50	0.27
F	12.00	0.35	0.40	0.31	0.30	0.32	0.35	0.38	0.41	0.50	0.27
F	13.00	0.35	0.39	0.30	0.29	0.31	0.34	0.37	0.41	0.51	0.25
	14.00	0.35	0.39	0.30	0.29	0.31	0.34	0.37	0.41	0.52	0.25
	15.00	0.35	0.40	0.30	0.30	0.32	0.34	0.37	0.41	0.55	0.25
F	16.00	0.37	0.42	0.32	0.30	0.34	0.37	0.40	0.43	0.55	0.27
	17.00	0.37	0.41	0.32	0.32	0.34	0.36	0.39	0.41	0.52	0.30
F	18.00	0.35	0.39	0.30	0.30	0.31	0.35	0.37	0.39	0.50	0.26
	19.00	0.34	0.38	0.30	0.29	0.30	0.34	0.36	0.38	0.48	0.25
	20.00	0.34	0.38	0.30	0.29	0.30	0.34	0.36	0.38	0.48	0.25
	21.00	0.34	0.38	0.30	0.29	0.31	0.34	0.36	0.38	0.48	0.25
	22.00	0.34	0.38	0.30	0.29	0.31	0.34	0.36	0.39	0.48	0.25
Γ	23.0	0.34	0.38	0.30	0.29	0.31	0.34	0.36	0.38	0.48	0.27
Γ	24.0	0.34	0.38	0.30	0.29	0.31	0.34	0.36	0.38	0.48	0.27
aily Values		8.34	9.24	7.43	7.18	7.75	8.34	8.86	9.47	11.22	6.71
aily Sum fro	m Hourly	8.34	9.37	7.31	7.03	7.56	8.36	8.92	9.59	11.62	6.30

Daily Sum from Hourly: The aggregated Daily results as the statistics are applied on Hour-of-Day data.

(Page 4)

1. DOE-2 Input Sample

This is an example of how to input <u>Lighting diversity factors</u> for a Large Office Building (Dallas Government Center Bldg., Dallas, TX) into the DOE-2 program. The calculated 50th Percentile values are used in these schedules.

\$ WEEKDAY SCHEDULE \$
WKDAY = DAY-SCHEDULE
(1) (0.37) (2) (0.34) (3) (0.35) (4) (0.34) (5) (0.32) (6) (0.34)
(7) (0.39) (8) (0.53) (9) (0.69) (10) (0.75) (11) (0.74) (12) (0.73)
(13) (0.72) (14) (0.72) (15) (0.71) (16) (0.72) (17) (0.64) (18) (0.56)
(19) (0.55) (20) (0.54) (21) (0.52) (22) (0.49) (23) (0.45) (24) (0.42) ...

\$ WEEKEND SCHEDULE \$
WKEND = DAY-SCHEDULE
(1) (0.36) (2) (0.36) (3) (0.36) (4) (0.37) (5) (0.34) (6) (0.34)
(7) (0.33) (8) (0.34) (9) (0.34) (10) (0.36) (11) (0.36) (12) (0.35)
(13) (0.34) (14) (0.34) (15) (0.34) (16) (0.37) (17) (0.36) (18) (0.35)
(19) (0.34) (20) (0.34) (21) (0.34) (22) (0.34) (23) (0.34) (24) (0.34) ...

WORK = WEEK-SCHEDULE	· · · · · · · · · · · · · · · · · · ·	(WE) WKEND	(HOL) WKEND
VAC = WEEK-SCHEDULE		(WE) WKEND	(HOL) WKEND
ELE-SCH = SCHEDULE	THRU JAN 1 VAC THRU JUL 4 VAC THRU NOV 24 VA THRU DEC 25 VA THRU DEC 31 VA	THRU AC THRU AC THRU	JUL 3 WORK NOV 22 WORK DEC 24 WORK DEC 30 WORK

G-ZONE = SPACE-CONDITIONS LIGHTING-SCHEDULE = ELE-SCH LIGHTING-TYPE = REC-FLUOR-RV LIGHT-TO-SPACE = 0.8 LIGHTING-W/SQFT = 2.51 ..

The "LIGHT-TO-SPACE" and "LIGHTING-TYPE" values shown above are for illustrative purpose. Normally, the user would select these values based on the observed characteristics (or design) for the building considered.

The "LIGHTING-W/SQFT" value shown scales, the diversity factor to maximum observed value (W/ft^2) in the building for the period of Jan. 1 - Dec. 31 1995.

The input file shown uses Weekends schedules for Holidays.

The Holidays shown in the input file are: New Year's Day, U.S. Independence Day, Thanksgiving, and Christmas. This assumes the user has selected the sub-commend "HOLIDAY = NO" in the "BUILDING LOCATION" commend of the "LOADS" input file. (Page 5)

2. BLAST Input Sample

TXL002

(Page 1) Building Descriptions: (TXL002)

(This section depends on the extent of information available on each building).

Building 17:

Building Name: John H. Reagan Building.

Source of Data: The Energy Systems Laboratory, Texas A&M University.

Location: Austin, Texas.

Category: Large Office Building, based on the CBECS classification.

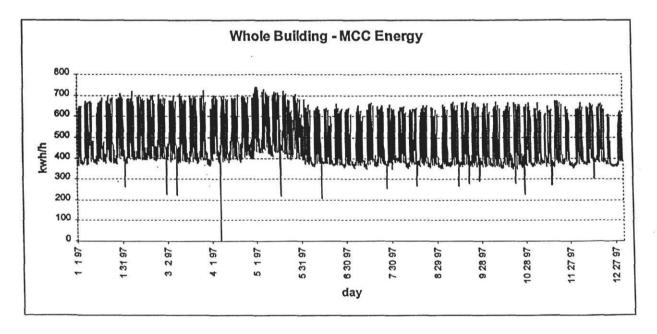
Square footage: Five story, 169,746 ft².

Lighting EUI: $[(16.68 \times 5) + (12.79 \times 3)] \times 52 \times 4.36 = 24.73 \text{ kWh/ft}^2$.year

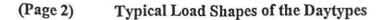
Lighting Type: 100 % Fluorescent (34-W)

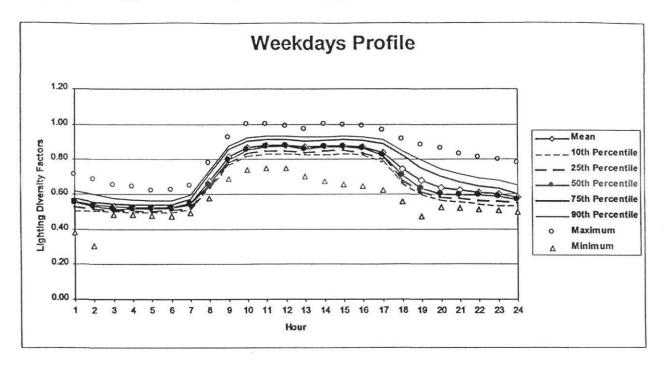
Dates: 1/1/97 - 12/31/97

Data Type: Lighting + Receptacles = WBE - MCC = ch0211 - (ch0199 + ch0200 + ch0201 + ch0202)

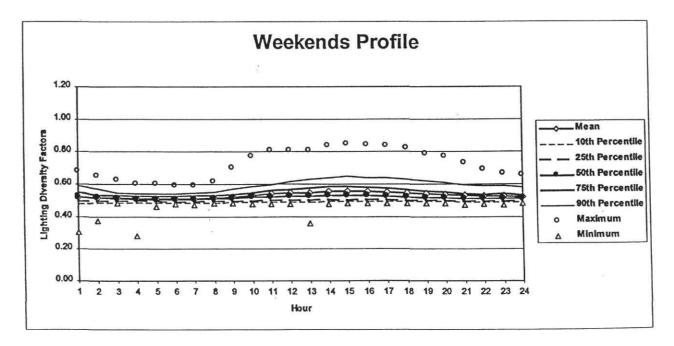


Maximum kW: 741 kW





*The dates that are excluded from the weekday profile are as follow: 01/01/97, 01/13/97, 03/28/97, 07/04/97, 09/01/97, 11/11/97, 11/27/97, 11/28/97, and 12/24 - 26/97.



(Page 3) WEEKDAYS **Diversity Factors and Statistics**

	Hour	Mean	Mean+1Std	Mean-1Std	10th Perctl	25th Perctl	50th Perctl	75th Perctl	90th Perctl	Maximum	Minimur
	1.00	0.56	0.60	0.51	0.51	0.53	0.55	0.58	0.62	0.71	0.38
	2.00	0.54	0.58	0.50	0.50	0.52	0.53	0.55	0.60	0.68	0.31
	3.00	0.53	0.56	0.50	0.50	0.51	0.52	0.54	0.58	0.65	0.48
	4.00	0.53	0.56	0.50	0.50	0.50	0.52	0.54	0.57	0.64	0.48
	5.00	0.52	0.55	0.50	0.50	0.50	0.52	0.54	0.56	0.62	0.48
	6.00	0.53	0.55	0.50	0.50	0.51	0.52	0.54	0.56	0.63	0.47
Γ	7.00	0.55	0.58	0.52	0.52	0.53	0.54	0.57	0.59	0.65	0.49
	8.00	0.68	0.72	0.63	0.63	0.64	0.66	0.72	0.74	0.78	0.58
Γ	9.00	0.81	0.86	0.77	0.77	0.78	0.80	0.86	0.88	0.92	0.69
Γ	10.00	0.87	0.91	0.82	0.82	0.83	0.85	0.91	0.92	1.00	0.74
	11.00	0.88	0.92	0.84	0.83	0.85	0.87	0.91	0.93	1.00	0.75
Γ	12.00	0.88	0.92	0.84	0.84	0.85	0.88	0.91	0.93	0.99	0.75
	13.00	0.87	0.91	0.83	0.83	0.84	0.86	0.91	0.93	0.97	0.70
	14.00	0.88	0.92	0.83	0.83	0.85	0.87	0.91	0.93	1.00	0.67
	15.00	0.88	0.92	0.83	0.83	0.85	0.87	0.91	0.93	0.99	0.66
	16.00	0.87	0.92	0.82	0.83	0.84	0.86	0.91	0.93	0.99	0.65
	17.00	0.84	0.90	0.78	0.79	0.80	0.82	0.89	0.91	0.97	0.62
Γ	18.00	0.75	0.82	0.67	0.67	0.68	0.71	0.82	0.85	0.91	0.56
	19.00	0.68	0.76	0.60	0.60	0.62	0.63	0.75	0.80	0.88	0.47
	20.00	0.64	0.72	0.56	0.57	0.58	0.60	0.70	0.75	0.86	0.52
	21.00	0.62	0.69	0.56	0.56	0.57	0.59	0.67	0.72	0.83	0.52
	22.00	0.61	0.67	0.55	0.54	0.56	0.59	0.65	0.69	0.81	0.51
	23.00	0.60	0.65	0.54	0.54	0.56	0.59	0.63	0.68	0.80	0.50
	24.00	0.58	0.63	0.53	0.53	0.55	0.57	0.60	0.65	0.78	0.50
ily Values		16.68	17.75	15.62	15.65	15.89	16.17	17.54	18.13	19.45	14.5
ily Sum fro		16.68	17.84	15.53	15.52	15.85	16.33	17.53	18.26	20.06	13.4
ily Values	The Daily res	ults as the a	statistics are a	pplied on da	ily data.						

WEEKENDS/HOLIDAYS

Г	Hour	Mean	Mean+1Std	Mean-1Std	10th Perctl	25th Perctl	50th Perctl	75th Perctl	90th Perctl	Maximum	Minimum
	1.00	0.52	0.58	0.46	0.48	0.50	0.52	0.55	0.59	0.68	0.30
	2.00	0.52	0.56	0.47	0.49	0.50	0.52	0.53	0.57	0.65	0.37
	3.00	0.52	0.55	0.49	0.49	0.50	0.51	0.53	0.55	0.63	0.48
	4.00	0.51	0.55	0.47	0.49	0.50	0.51	0.53	0.54	0.60	0.28
	5.00	0.51	0.54	0.49	0.49	0.50	0.51	0.53	0.54	0.60	0.46
	6.00	0.51	0.54	0.49	0.49	0.49	0.51	0.53	0.54	0.59	0.48
Г	7.00	0.51	0.54	0.49	0.49	0.49	0.51	0.53	0.55	0.59	0.47
	8.00	0.52	0.55	0.49	0.49	0.50	0.51	0.53	0.55	0.62	0.48
	9.00	0.52	0.56	0.49	0.49	0.50	0.51	0.54	0.57	0.70	0.48
	10.00	0.53	0.59	0.48	0.49	0.50	0.52	0.55	0.59	0.77	0.48
	11.00	0.54	0.60	0.48	0.49	0.50	0.52	0.56	0.60	0.81	0.48
Г	12.00	0.55	0.61	0.48	0.50	0.50	0.53	0.57	0.62	0.81	0.48
	13.00	0.55	0.62	0.48	0.50	0.51	0.53	0.58	0.63	0.81	0.36
	14.00	0.56	0.63	0.48	0.50	0.51	0.53	0.59	0.64	0.83	0.48
	15.00	0.56	0.63	0.48	0.50	0.50	0.53	0.59	0.65	0.84	0.48
	16.00	0.56	0.63	0.48	0.50	0.51	0.53	0.58	0.64	0.84	0.48
	17.00	0.55	0.62	0.48	0.50	0.51	0.53	0.58	0.64	0.83	0.48
	18.00	0.55	0.61	0.48	0.50	0.50	0.52	0.57	0.63	0.82	0.49
	19.00	0.54	0.60	0.48	0.50	0.50	0.52	0.56	0.62	0.78	0.48
	20.00	0.54	0.60	0.48	0.50	0.50	0.52	0.55	0.61	0.77	0.48
	21.00	0.53	0.58	0.48	0.49	0.50	0.52	0.54	0.60	0.73	0.47
	22.00	0.53	0.57	0.48	0.49	0.50	0.51	0.54	0.59	0.69	0.48
	23.00	0.53	0.57	0.49	0.49	0.50	0.51	0.54	0.59	0.67	0.47
	24.00	0.52	0.56	0.49	0.49	0.50	0.51	0.54	0.58	0.66	0.48
Daily Values		12.79	13.87	11.71	11.87	12.04	12.37	13.28	14.26	16.56	11.67
Daily Sum fro	m Hourly	12.79	14.00	11.57	11.83	12.01	12.45	13.24	14.26	17.35	10.89
			statistics are a ed Daily result			blied on Hour	-of-Day data.				

(Page 4)

1. DOE-2 Input Sample

This is an example of how to input <u>Lighting diversity factors</u> for a Large Office Building (John H. Reagan Bldg., Austin, TX) into the DOE-2 program. The calculated 50^{th} Percentile values are used in these schedules.

\$ WEEKDAY SCHEDULE \$
WKDAY = DAY-SCHEDULE
(1) (0.55) (2) (0.53) (3) (0.52) (4) (0.52) (5) (0.52) (6) (0.52)
(7) (0.54) (8) (0.66) (9) (0.80) (10) (0.85) (11) (0.87) (12) (0.88)
(13) (0.86) (14) (0.87) (15) (0.87) (16) (0.86) (17) (0.82) (18) (0.71)
(19) (0.63) (20) (0.60) (21) (0.59) (22) (0.59) (23) (0.59) (24) (0.57) ...

\$ WEEKEND SCHEDULE \$ WKEND = DAY-SCHEDULE (1) (0.52) (2) (0.52) (3) (0.51) (4) (0.51) (5) (0.51) (6) (0.51) (7) (0.51) (8) (0.51) (9) (0.51) (10) (0.52) (11) (0.52) (12) (0.53) (13) (0.53) (14) (0.53) (15) (0.53) (16) (0.53) (17) (0.53) (18) (0.52) (19) (0.52) (20) (0.52) (21) (0.52) (22) (0.51) (23) (0.51) (24) (0.51) ...

WORK = WEEK-SCHEDULE		(WE) WKEND	(HOL) WKEND
VAC = WEEK-SCHEDULE		(WE) WKEND	(HOL) WKEND
ELE-SCH = SCHEDULE	THRU JAN 1 VAC THRU JUL 4 VAC THRU NOV 24 VA THRU DEC 25 VA THRU DEC 31 VA	C THRUI C THRUI	TUL 3 WORK NOV 22 WORK DEC 24 WORK DEC 30 WORK

G-ZONE = SPACE-CONDITIONS LIGHTING-SCHEDULE = ELE-SCH LIGHTING-TYPE = REC-FLUOR-RV LIGHT-TO-SPACE = 0.8 LIGHTING-W/SQFT = 4.36 ..

The "LIGHT-TO-SPACE" and "LIGHTING-TYPE" values shown above are for illustrative purpose. Normally, the user would select these values based on the observed characteristics (or design) for the building considered.

The "LIGHTING-W/SQFT" value shown scales, the diversity factor to maximum observed value (W/ft^2) in the building for the period of Jan. 1 - Dec. 31, 1997.

The input file shown uses Weekends schedules for Holidays.

The Holidays shown in the input file are: New Year's Day, U.S. Independence Day, Thanksgiving, and Christmas. This assumes the user has selected the sub-commend "HOLIDAY = NO" in the "BUILDING LOCATION" commend of the "LOADS" input file. (Page 5)

2. BLAST Input Sample



(Page 1) Building Descriptions: (TXL003)

(This section depends on the extent of information available on each building).

Building 206:

Building Name: Insurance Building.

Source of Data: The Energy Systems Laboratory, Texas A&M University.

Location: Austin, Texas.

Category: Large Office Building, based on the CBECS classification.

Square footage: Four story, 102,000 ft².

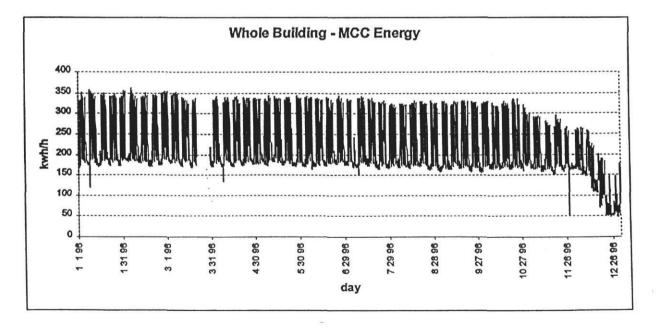
Lighting EUI: $[(16.92 \times 5) + (11.34 \times 2)] \times 52 \times 3.54 = 19.73 \text{ kWh/ft}^2$.year

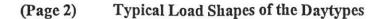
Lighting Type: 100% fluorescent

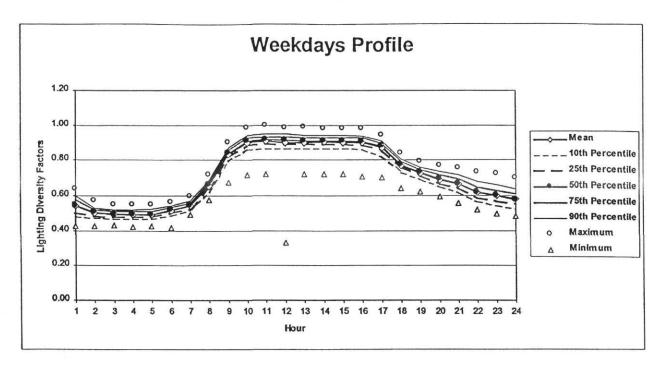
Dates: 1/1/96 - 12/31/96

Data Type: Light + Equipment = WBE - MCC = ch0215 - ch0214

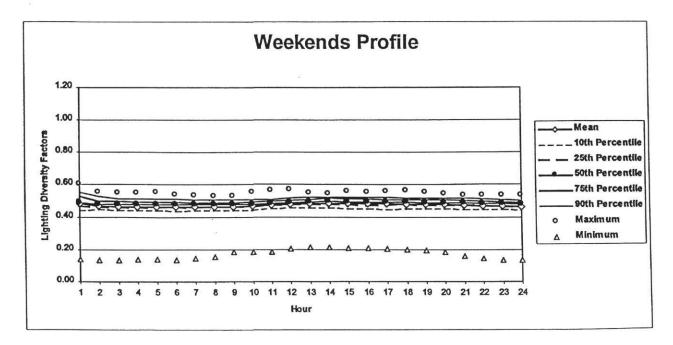
Maximum kW: 361 kW







*The dates that are excluded from the weekday profile are as follow: 1/1/96, 1/15/96, 2/2/96, 2/19/96, 5/27/96, 7/4/96, 7/5/96, 9/2/96, 11/11/96, and 11/27 - 12/31/96.



	Hour	Mean	Mean+1Std	Mean-1Std	10th Perctl	25th Perctl	50th Perctl	75th Perctl	90th Perctl	Maximum	Minimun
	1.00	0.54	0.59	0.50	0.48	0.50	0.54	0.58	0.60	0.64	0.43
	2.00	0.50	0.53	0.48	0.47	0.48	0.50	0.52	0.53	0.57	0.43
L	3.00	0.49	0.52	0.47	0.47	0.48	0.49	0.51	0.52	0.55	0.43
	4.00	0.49	0.52	0.47	0.47	0.48	0.49	0.51	0.52	0.55	0.42
	5.00	0.49	0.52	0.47	0.47	0.48	0.49	0.51	0.52	0.55	0.43
	6.00	0.52	0.54	0.50	0.49	0.50	0.52	0.53	0.54	0.56	0.42
	7.00	0.54	0.56	0.52	0.52	0.53	0.54	0.56	0.57	0.59	0.49
	8.00	0.66	0.68	0.63	0.62	0.64	0.66	0.68	0.69	0.72	0.57
	9.00	0.83	0.87	0.79	0.79	0.82	0.84	0.86	0.87	0.90	0.68
	10.00	0.90	0.95	0.85	0.86	0.89	0.91	0.93	0.94	0.99	0.72
	11.00	0.91	0.96	0.86	0.87	0.89	0.92	0.93	0.95	1.00	0.72
	12.00	0.90	0.96	0.84	0.87	0.89	0.91	0.93	0.95	0.99	0.33
Γ	13.00	0.90	0.95	0.85	0.87	0.89	0.91	0.93	0.94	0.99	0.72
	14.00	0.90	0.95	0.86	0.87	0.89	0.91	0.93	0.94	0.98	0.72
	15.00	0.90	0.95	0.85	0.87	0.89	0.91	0.93	0.94	0.98	0.72
	16.00	0.90	0.95	0.85	0.86	0.89	0.91	0.93	0.94	0.98	0.71
	17.00	0.87	0.91	0.83	0.82	0.86	0.88	0.90	0.91	0.94	0.70
	18.00	0.77	0.81	0.74	0.73	0.76	0.77	0.79	0.81	0.84	0.64
	19.00	0.73	0.76	0.70	0.70	0.71	0.73	0.75	0.76	0.79	0.62
	20.00	0.69	0.73	0.66	0.65	0.67	0.69	0.72	0.74	0.77	0.60
	21.00	0.67	0.71	0.63	0.62	0.64	0.67	0.69	0.72	0.75	0.56
	22.00	0.62	0.66	0.57	0.57	0.59	0.62	0.64	0.68	0.73	0.52
	23.00	0.60	0.65	0.56	0.54	0.57	0.60	0.63	0.66	0.72	0.50
	24.00	0.58	0.62	0.54	0.53	0.55	0.58	0.61	0.64	0.70	0.48
aily Values		16.92	17.66	16.17	16.19	16.52	17.06	17.41	17.67	18.34	14.35
aily Sum fro	m Hourty	16.92	17.83	16.01	15.99	16.48	17.02	17.50	17.88	18.78	13.57
aily Values:	The Daily res m Hourly: Th					ied on Hour-	of-Day data.				
VEEKE	NDS/HO	LIDAV	S								

(Page 3) WEEKDAYS **Diversity Factors and Statistics**

	Hour	Mean	Mean+1Std	Mean-1Std	10th Perctl	25th Perctl	50th Perctl	75th Percti	90th Perctl	Maximum	Minimum
	1.00	0.48	0.57	0.40	0.44	0.47	0.49	0.53	0.56	0.60	0.14
	2.00	0.47	0.54	0.39	0.45	0.46	0.48	0.50	0.53	0.55	0.14
	3.00	0.46	0.54	0.39	0.44	0.46	0.48	0.50	0.51	0.55	0.13
	4.00	0.46	0.54	0.39	0.44	0.46	0.48	0.50	0.51	0.55	0.14
	5.00	0.46	0.54	0.39	0.44	0.46	0.48	0.49	0.51	0.55	0.14
	6.00	0.46	0.53	0.39	0.44	0.46	0.48	0.49	0.51	0.54	0.13
	7.00	0.46	0.53	0.39	0.44	0.46	0.48	0.49	0.51	0.53	0.14
	8.00	0.46	0.53	0.40	0.44	0.46	0.48	0.49	0.51	0.53	0.15
	9.00	0.47	0.52	0.41	0.44	0.46	0.48	0.49	0.51	0.53	0.18
	10.00	0.47	0.53	0.41	0.44	0.47	0.48	0.49	0.51	0.55	0.18
	11.00	0.47	0.53	0.42	0.45	0.47	0.48	0.50	0.51	0.56	0.19
	12.00	0.48	0.53	0.42	0.46	0.47	0.49	0.50	0.52	0.57	0.20
Г	13.00	0.48	0.54	0.43	0.46	0.48	0.49	0.51	0.52	0.55	0.21
	14.00	0.49	0.54	0.43	0.46	0.48	0.50	0.52	0.52	0.54	0.21
	15.00	0.48	0.54	0.43	0.45	0.48	0.49	0.51	0.52	0.56	0.21
	16.00	0.48	0.54	0.43	0.45	0.48	0.49	0.51	0.52	0.55	0.21
	17.00	0.48	0.54	0.42	0.45	0.47	0.49	0.51	0.53	0.56	0.21
	18.00	0.48	0.54	0.42	0.45	0.48	0.49	0.51	0.52	0.56	0.20
	19.00	0.48	0.54	0.42	0.45	0.48	0.49	0.51	0.52	0.55	0.20
	20.00	0.48	0.54	0.41	0.45	0.47	0.49	0.51	0.52	0.54	0.18
	21.00	0.47	0.54	0.40	0.45	0.47	0.49	0.50	0.52	0.54	0.16
	22.00	0.47	0.54	0.40	0.45	0.47	0.48	0.50	0.51	0.53	0.14
	23.00	0.47	0.54	0.39	0.45	0.47	0.48	0.49	0.51	0.53	0.14
	24.00	0.46	0.53	0.39	0.44	0.46	0.48	0.49	0.50	0.53	0.13
aily Values		11.34	12.87	9.80	10.74	11.28	11.67	12.00	12.32	12.76	4.23
Daily Sum fro	m Hourly	11.34	12.90	9.78	10.76	11.25	11.64	12.03	12.40	13.16	4.08

(Page 4)

1. DOE-2 Input Sample

This is an example of how to input <u>Lighting diversity factors</u> for a Large Office Building (Insurance Bldg., Austin, TX) into the DOE-2 program. The calculated <u>50th Percentile</u> values are used in these schedules.

\$ WEEKDAY SCHEDULE \$
WKDAY = DAY-SCHEDULE
(1) (0.54) (2) (0.50) (3) (0.49) (4) (0.49) (5) (0.49) (6) (0.52)
(7) (0.54) (8) (0.66) (9) (0.84) (10) (0.91) (11) (0.92) (12) (0.91)
(13) (0.91) (14) (0.91) (15) (0.91) (16) (0.91) (17) (0.88) (18) (0.77)
(19) (0.73) (20) (0.69) (21) (0.67) (22) (0.62) (23) (0.60) (24) (0.58) ...

\$ WEEKEND SCHEDULE \$ WKEND = DAY-SCHEDULE (1) (0.49) (2) (0.48) (3) (0.48) (4) (0.48) (5) (0.48) (6) (0.48) (7) (0.48) (8) (0.48) (9) (0.48) (10) (0.48) (11) (0.48) (12) (0.49) (13) (0.49) (14) (0.50) (15) (0.49) (16) (0.49) (17) (0.49) (18) (0.49) (19) (0.49) (20) (0.49) (21) (0.49) (22) (0.48) (23) (0.48) (24) (0.48) ...

WORK = WEEK-SCHEDULE	(WD) WKDAY	(WE) WKEND	(HOL) WKEND
VAC = WEEK-SCHEDULE	(WD) WKEND	(WE) WKEND	(HOL) WKEND
ELE-SCH = SCHEDULE	THRU JAN 1 VA THRU JUL 4 VAC THRU NOV 24 VA THRU DEC 25 VA THRU DEC 31 VA	AC THRU	JUL 3 WORK NOV 22 WORK DEC 24 WORK DEC 30 WORK

G-ZONE = SPACE-CONDITIONS LIGHTING-SCHEDULE = ELE-SCH LIGHTING-TYPE = REC-FLUOR-RV LIGHT-TO-SPACE = 0.8 LIGHTING-W/SQFT = 3.54 ..

The "LIGHT-TO-SPACE" and "LIGHTING-TYPE" values shown above are for illustrative purpose. Normally, the user would select these values based on the observed characteristics (or design) for the building considered.

The "LIGHTING-W/SQFT" value shown scales, the diversity factor to maximum observed value (W/ft^2) in the building for the period of Jan. 1 - Dec. 31, 1996.

The input file shown uses Weekends schedules for Holidays.

The Holidays shown in the input file are: New Year's Day, U.S. Independence Day, Thanksgiving, and Christmas. This assumes the user has selected the sub-commend "HOLIDAY = NO" in the "BUILDING LOCATION" commend of the "LOADS" input file. (Page 5)

2. BLAST Input Sample

TXL004

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(Page 1) Building Descriptions: (TXL004)

(This section depends on the extent of information available on each building).

Building 208:

Building Name: Lorenzo De Zavala Archives & Library Building.

Source of Data: The Energy Systems Laboratory, Texas A&M University.

Location: Austin, Texas.

Category: Large Office Building, based on the CBECS classification.

Square footage: Five story, 120,000 ft².

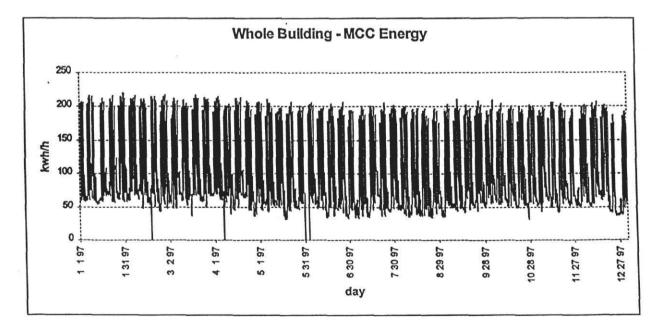
Lighting EUI: $[(13.39 \times 5) + (6.53 \times 2)] \times 52 \times 1.83 = 7.59 \text{ kWh/ft}^2$.year

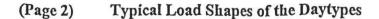
Lighting Type: 100% fluorescent (34-W)

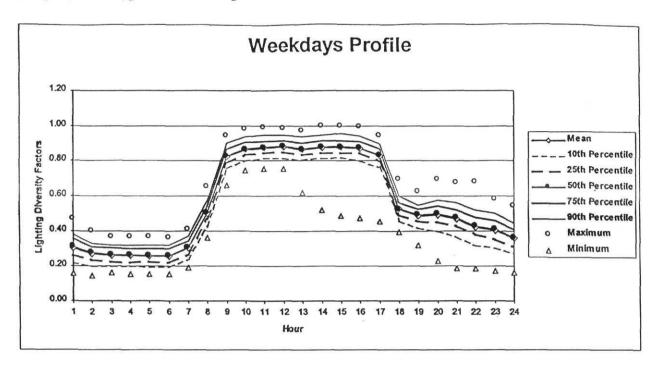
Dates: 1/1/97 - 12/31/97

Data Type: Light + Equipment = WBE - MCC = (ch0221 + ch0222) - ch0220

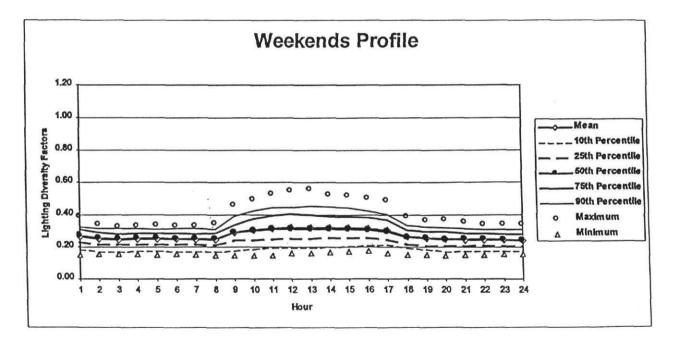
Maximum kW: 219 kW







*The dates that are excluded from the weekday profile are as follow: 1/1/97, 1/13/97,1/14/97, 1/20/97, 5/26/97, 7/4/97, 9/1/97, 11/11/97, 11/27/97, 11/28/97, and 12/24 - 12/26/97.



(Page 3)	Diversity	Factors	and	Statistics	×
WEEKDAYS					

Hour	Mean	Mean+1Std	Mean-1Std	10th Perctl	25th Perctl	50th Perctl	75th Perctl	90th Perctl	Maximum	Minimum
1.00	0.31	0.37	0.24	0.22	0.26	0.31	0.36	0.38	0.47	0.16
2.00	0.27	0.32	0.22	0.20	0.23	0.28	0.31	0.33	0.40	0.14
3.00	0.26	0.31	0.21	0.20	0.23	0.26	0.30	0.32	0.37	0.16
4.00	0.26	0.31	0.21	0.20	0.22	0.26	0.30	0.32	0.36	0.15
5.00	0.26	0.31	0.21	0.20	0.22	0.26	0.30	0.32	0.36	0.16
6.00	0.26	0.31	0.21	0.20	0.22	0.26	0.30	0.32	0.36	0.16
7.00	0.31	0.36	0.26	0.24	0.27	0.31	0.34	0.37	0.41	0.19
8.00	0.50	0.56	0.44	0.43	0.46	0.50	0.54	0.57	0.65	0.36
9.00	0.83	0.88	0.77	0,76	0.79	0.83	0.87	0.90	0.94	0.66
10.00	0.87	0.92	0.82	0.80	0.83	0.86	0.91	0.94	0.98	0.75
11.00	0.88	0.93	0.83	0.81	0.84	0.87	0.91	0.95	0.99	0.75
12.00	0.88	0.93	0.83	0.82	0.85	0.88	0.91	0.95	0.99	0.76
13.00	0.87	0.92	0.82	0.81	0.83	0.86	0.90	0.94	0.97	0.62
14.00	0.88	0.93	0.82	0.82	0.84	0.88	0.91	0.95	1.00	0.52
15.00	0.88	0.94	0.82	0.82	0.84	0.88	0.91	0.95	1.00	0.49
16.00	0.87	0.93	0.82	0.80	0.84	0.87	0.91	0.94	0.99	0.47
17.00	0.83	0.88	0.77	0.76	0.79	0.83	0.87	0.90	0.94	0.45
18.00	0.53	0.58	0.48	0.46	0.49	0.53	0.56	0.60	0.70	0.40
19.00	0.49	0.54	0.43	0.42	0.45	0.49	0.52	0.55	0.62	0.32
20.00	0.49	0.56	0.42	0.40	0.45	0.50	0.55	0.57	0.69	0.23
21.00	0.47	0.54	0.39	0.36	0.43	0.47	0.52	0.56	0.68	0.19
22.00	0.42	0.50	0.35	0.32	0.38	0.43	0.48	0.52	0.68	0.19
23.00	0.40	0.48	0.33	0.31	0.35	0.41	0.46	0.50	0.58	0.17
24.00	0.36	0.43	0.29	0.28	0.31	0.36	0.41	0.45	0.55	0.16
s	13.36	14.25	12.48	12.27	12.71	13.36	14.01	14.51	15.39	11.13
	13.36	14.72	12.01	11.63	12.45	13.38	14.34	15.08	16.68	8.62
s: The Daily res	sults as the	statistics are a	pplied on da	ily data.						
			as the statis	stics are app	ied on Hour-	of-Day data.				
ENDOMIO	TDAV	C								
ENDS/HO	LIDAI	0								
	1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00 17.00 18.00 19.00 20.00 21.00 22.00 23.00 24.00 s: The Daily res	1.00 0.31 2.00 0.27 3.00 0.26 4.00 0.26 5.00 0.26 6.00 0.26 7.00 0.31 8.00 0.50 9.00 0.83 10.00 0.87 11.00 0.88 12.00 0.88 13.00 0.87 14.00 0.88 15.00 0.83 16.00 0.87 17.00 0.83 16.00 0.87 17.00 0.83 16.00 0.47 20.00 0.49 20.00 0.49 21.00 0.47 22.00 0.42 23.00 0.40 24.00 0.36 s 13.36 from Hourly 13.36 from Hourly: The aggregate	1.00 0.31 0.37 2.00 0.27 0.32 3.00 0.26 0.31 4.00 0.26 0.31 5.00 0.26 0.31 6.00 0.26 0.31 6.00 0.26 0.31 7.00 0.31 0.36 8.00 0.50 0.56 9.00 0.83 0.88 10.00 0.87 0.92 11.00 0.88 0.93 12.00 0.88 0.93 15.00 0.88 0.93 15.00 0.88 0.93 15.00 0.83 0.88 18.00 0.53 0.58 19.00 0.49 0.54 20.00 0.49 0.56 21.00 0.47 0.54 22.00 0.42 0.50 23.00 0.40 0.48 24.00 0.36 0.43 s 13.36 14.25	1.00 0.31 0.37 0.24 2.00 0.27 0.32 0.22 3.00 0.26 0.31 0.21 4.00 0.26 0.31 0.21 5.00 0.26 0.31 0.21 5.00 0.26 0.31 0.21 6.00 0.26 0.31 0.21 7.00 0.31 0.36 0.26 8.00 0.50 0.56 0.44 9.00 0.83 0.88 0.77 10.00 0.87 0.92 0.82 11.00 0.88 0.93 0.83 12.00 0.88 0.93 0.83 13.00 0.87 0.92 0.82 14.00 0.88 0.93 0.82 15.00 0.88 0.93 0.82 16.00 0.67 0.93 0.82 17.00 0.83 0.58 0.48 19.00 0.49 0.54 0.43	1.00 0.31 0.37 0.24 0.22 2.00 0.27 0.32 0.22 0.20 3.00 0.26 0.31 0.21 0.20 4.00 0.26 0.31 0.21 0.20 5.00 0.26 0.31 0.21 0.20 6.00 0.26 0.31 0.21 0.20 7.00 0.31 0.36 0.26 0.21 0.20 7.00 0.31 0.36 0.26 0.24 0.20 8.00 0.50 0.56 0.44 0.43 9.00 0.83 0.88 0.77 0.76 10.00 0.87 0.92 0.82 0.80 11.00 0.88 0.93 0.83 0.82 13.00 0.87 0.92 0.82 0.82 14.00 0.88 0.93 0.82 0.82 15.00 0.83 0.88 0.77 0.76 18.00 0.53	1.00 0.31 0.37 0.24 0.22 0.26 2.00 0.27 0.32 0.22 0.20 0.23 3.00 0.26 0.31 0.21 0.20 0.23 4.00 0.26 0.31 0.21 0.20 0.22 5.00 0.26 0.31 0.21 0.20 0.22 6.00 0.26 0.31 0.21 0.20 0.22 7.00 0.31 0.36 0.26 0.24 0.27 8.00 0.50 0.56 0.44 0.43 0.46 9.00 0.83 0.88 0.77 0.76 0.79 10.00 0.87 0.92 0.62 0.80 0.83 11.00 0.88 0.93 0.83 0.81 0.84 12.00 0.88 0.93 0.82 0.82 0.84 15.00 0.87 0.92 0.82 0.84 0.83 14.00 0.88 0.93	1.00 0.31 0.37 0.24 0.22 0.26 0.31 2.00 0.27 0.32 0.22 0.20 0.23 0.28 3.00 0.26 0.31 0.21 0.20 0.23 0.26 4.00 0.26 0.31 0.21 0.20 0.22 0.26 5.00 0.26 0.31 0.21 0.20 0.22 0.26 6.00 0.26 0.31 0.21 0.20 0.22 0.26 7.00 0.31 0.36 0.26 0.24 0.27 0.31 8.00 0.50 0.56 0.44 0.43 0.46 0.50 9.00 0.83 0.88 0.77 0.76 0.79 0.83 10.00 0.87 0.92 0.82 0.80 0.83 0.86 11.00 0.88 0.93 0.83 0.82 0.85 0.88 11.00 0.88 0.93 0.82 0.81 0.86 <td>1.00 0.31 0.37 0.24 0.22 0.26 0.31 0.36 2.00 0.27 0.32 0.22 0.20 0.23 0.28 0.31 3.00 0.26 0.31 0.21 0.20 0.23 0.26 0.30 4.00 0.26 0.31 0.21 0.20 0.22 0.26 0.30 5.00 0.26 0.31 0.21 0.20 0.22 0.26 0.30 6.00 0.26 0.31 0.21 0.20 0.22 0.26 0.30 7.00 0.31 0.36 0.26 0.24 0.27 0.31 0.34 8.00 0.50 0.56 0.44 0.43 0.46 0.50 0.54 9.00 0.83 0.88 0.77 0.76 0.79 0.83 0.87 9.00 0.83 0.82 0.81 0.83 0.86 0.91 11.00 0.86 0.93 0.82 0.81<!--</td--><td>1.00 0.31 0.37 0.24 0.22 0.26 0.31 0.36 0.38 2.00 0.27 0.32 0.22 0.20 0.23 0.28 0.31 0.33 3.00 0.26 0.31 0.21 0.20 0.23 0.26 0.30 0.32 4.00 0.26 0.31 0.21 0.20 0.22 0.26 0.30 0.32 5.00 0.26 0.31 0.21 0.20 0.22 0.26 0.30 0.32 6.00 0.26 0.31 0.21 0.20 0.22 0.26 0.30 0.32 7.00 0.31 0.36 0.26 0.24 0.27 0.31 0.34 0.37 8.00 0.50 0.56 0.44 0.43 0.46 0.50 0.54 0.57 9.00 0.83 0.88 0.77 0.76 0.79 0.83 0.87 0.90 10.00 0.87 0.92 0.8</td><td>1.00 0.31 0.37 0.24 0.22 0.26 0.31 0.36 0.38 0.47 2.00 0.27 0.32 0.22 0.20 0.23 0.28 0.31 0.33 0.40 3.00 0.26 0.31 0.21 0.20 0.23 0.26 0.30 0.32 0.37 4.00 0.26 0.31 0.21 0.20 0.22 0.26 0.30 0.32 0.36 5.00 0.26 0.31 0.21 0.20 0.22 0.26 0.30 0.32 0.36 6.00 0.26 0.31 0.21 0.20 0.22 0.26 0.30 0.32 0.36 7.00 0.31 0.36 0.26 0.24 0.27 0.31 0.34 0.37 0.41 8.00 0.50 0.56 0.44 0.43 0.46 0.57 0.65 9.00 0.83 0.86 0.77 0.76 0.79 0.83 0</td></td>	1.00 0.31 0.37 0.24 0.22 0.26 0.31 0.36 2.00 0.27 0.32 0.22 0.20 0.23 0.28 0.31 3.00 0.26 0.31 0.21 0.20 0.23 0.26 0.30 4.00 0.26 0.31 0.21 0.20 0.22 0.26 0.30 5.00 0.26 0.31 0.21 0.20 0.22 0.26 0.30 6.00 0.26 0.31 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8.00 0.50 0.56 0.44 0.43 0.46 0.57 0.65 9.00 0.83 0.86 0.77 0.76 0.79 0.83 0</td>	1.00 0.31 0.37 0.24 0.22 0.26 0.31 0.36 0.38 2.00 0.27 0.32 0.22 0.20 0.23 0.28 0.31 0.33 3.00 0.26 0.31 0.21 0.20 0.23 0.26 0.30 0.32 4.00 0.26 0.31 0.21 0.20 0.22 0.26 0.30 0.32 5.00 0.26 0.31 0.21 0.20 0.22 0.26 0.30 0.32 6.00 0.26 0.31 0.21 0.20 0.22 0.26 0.30 0.32 7.00 0.31 0.36 0.26 0.24 0.27 0.31 0.34 0.37 8.00 0.50 0.56 0.44 0.43 0.46 0.50 0.54 0.57 9.00 0.83 0.88 0.77 0.76 0.79 0.83 0.87 0.90 10.00 0.87 0.92 0.8	1.00 0.31 0.37 0.24 0.22 0.26 0.31 0.36 0.38 0.47 2.00 0.27 0.32 0.22 0.20 0.23 0.28 0.31 0.33 0.40 3.00 0.26 0.31 0.21 0.20 0.23 0.26 0.30 0.32 0.37 4.00 0.26 0.31 0.21 0.20 0.22 0.26 0.30 0.32 0.36 5.00 0.26 0.31 0.21 0.20 0.22 0.26 0.30 0.32 0.36 6.00 0.26 0.31 0.21 0.20 0.22 0.26 0.30 0.32 0.36 7.00 0.31 0.36 0.26 0.24 0.27 0.31 0.34 0.37 0.41 8.00 0.50 0.56 0.44 0.43 0.46 0.57 0.65 9.00 0.83 0.86 0.77 0.76 0.79 0.83 0

	Hour	Mean	Mean+1Std	Mean-1Std	10th Percti	25th Perctl	50th Percti	75th Percti	90th Perctl	Maximum	Minimum
	1.00	0.26	0.32	0.21	0.18	0.23	0.27	0.31	0.33	0.39	0.15
	2.00	0.25	0.30	0.20	0.17	0.22	0.26	0.29	0.31	0.34	0.16
	3.00	0.25	0.30	0.20	0.17	0.21	0.25	0.28	0.31	0.33	0.16
	4.00	0.25	0.30	0.20	0.17	0.22	0.25	0.28	0.31	0.33	0.15
	5.00	0.25	0.30	0.20	0.17	0.22	0.25	0.28	0.31	0.33	0.15
	6.00	0.25	0.30	0.20	0.17	0.21	0.25	0.28	0.31	0.33	0.15
	7.00	0.25	0.30	0.20	0.17	0.21	0.25	0.28	0.31	0.33	0.15
	8.00	0.24	0.30	0.19	0.17	0.21	0.25	0.28	0.31	0.35	0.14
	9.00	0.29	0.36	0.21	0.18	0.24	0.29	0.34	0.39	0.46	0.15
	10.00	0.30	0.39	0.22	0.19	0.24	0.30	0.37	0.43	0.49	0.15
	11.00	0.32	0.41	0.22	0.20	0.24	0.31	0.40	0.44	0.53	0.15
	12.00	0.32	0.41	0.23	0.20	0.25	0.31	0.41	0.44	0.55	0.16
	13.00	0.32	0.42	0.23	0.19	0.25	0.31	0.40	0.45	0.56	0.16
	14.00	0.32	0.41	0.23	0.20	0.26	0.31	0.39	0.45	0.52	0.16
	15.00	0.32	0.40	0.23	0.20	0.25	0.31	0.39	0.44	0.52	0.17
	16.00	0.31	0.39	0.23	0.21	0.25	0.30	0.38	0.42	0.50	0.17
	17.00	0.31	0.38	0.23	0.21	0.25	0.30	0.37	0.40	0.49	0.16
	18.00	0.26	0.32	0.21	0.19	0.22	0.26	0.30	0.33	0.39	0.15
	19.00	0.25	0.31	0.20	0.18	0.20	0.25	0.29	0.33	0.37	0.15
	20.00	0.25	0.30	0.19	0.17	0.20	0.25	0.29	0.32	0.37	0.15
	21.00	0.25	0.30	0.19	0.18	0.21	0.25	0.29	0.31	0.35	0.15
	22.00	0.24	0.29	0.20	0.17	0.21	0.25	0.28	0.31	0.34	0.15
	23.00	0.24	0.29	0.19	0.17	0.21	0.25	0.28	0.31	0.34	0.15
	24.00	0.24	0.29	0.19	0.17	0.20	0.24	0.28	0.31	0.34	0.15
aily Values		6.53	7.91	5.15	4.76	5.52	6.51	7.51	8.47	9.51	3.93
ally Sum from	n Hourly	6.53	8.07	5.00	4.39	5.40	6.50	7.74	8.59	9.83	3.69
			statistics are and and Daily result			olied on Hour	-of-Dav data				

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(Page 4)

1. DOE-2 Input Sample

This is an example of how to input <u>Lighting diversity factors</u> for a Large Office Building (Archives Bldg., Austin, TX) into the DOE-2 program. The calculated 50^{th} Percentile values are used in these schedules.

\$ WEEKDAY SCHEDULE \$
WKDAY = DAY-SCHEDULE
(1) (0.31) (2) (0.28) (3) (0.26) (4) (0.26) (5) (0.26) (6) (0.26)
(7) (0.31) (8) (0.50) (9) (0.83) (10) (0.86) (11) (0.87) (12) (0.88)
(13) (0.86) (14) (0.88) (15) (0.88) (16) (0.87) (17) (0.83) (18) (0.53)
(19) (0.49) (20) (0.50) (21) (0.47) (22) (0.43) (23) (0.41) (24) (0.36) ...

\$ WEEKEND SCHEDULE \$ WKEND = DAY-SCHEDULE (1) (0.27) (2) (0.26) (3) (0.25) (4) (0.25) (5) (0.25) (6) (0.25) (7) (0.25) (8) (0.25) (9) (0.29) (10) (0.30) (11) (0.31) (12) (0.31) (13) (0.31) (14) (0.31) (15) (0.31) (16) (0.30) (17) (0.30) (18) (0.26) (19) (0.25) (20) (0.25) (21) (0.25) (22) (0.25) (23) (0.25) (24) (0.24) ...

WORK = WEEK-SCHEDULE	(WD) WKDAY	(WE) WKEND	(HOL) WKEND
VAC = WEEK-SCHEDULE	(WD) WKEND	(WE) WKEND	(HOL) WKEND
ELE-SCH = SCHEDULE	THRU JAN 1 VA THRU JUL 4 VAC THRU NOV 24 VA THRU DEC 25 VA THRU DEC 31 VA	C THRU AC THRU AC THRU	JUL 3 WORK NOV 22 WORK DEC 24 WORK DEC 30 WORK

G-ZONE = SPACE-CONDITIONS LIGHTING-SCHEDULE = ELE-SCH LIGHTING-TYPE = REC-FLUOR-RV LIGHT-TO-SPACE = 0.8 LIGHTING-W/SQFT = 1.83 ..

The "LIGHT-TO-SPACE" and "LIGHTING-TYPE" values shown above are for illustrative purpose. Normally, the user would select these values based on the observed characteristics (or design) for the building considered.

The "LIGHTING-W/SQFT" value shown scales, the diversity factor to maximum observed value (W/ft^2) in the building for the period of Jan. 1 - Dec. 31, 1997.

The input file shown uses Weekends schedules for Holidays.

The Holidays shown in the input file are: New Year's Day, U.S. Independence Day, Thanksgiving, and Christmas. This assumes the user has selected the sub-commend "HOLIDAY = NO" in the "BUILDING LOCATION" commend of the "LOADS" input file. (Page 5)

2. BLAST Input Sample

TXL005

(Page 1) Building Descriptions: (TXL005)

(This section depends on the extent of information available on each building).

Building 209:

Building Name: William B. Travis Building.

Source of Data: The Energy Systems Laboratory, Texas A&M University.

Location: Austin, Texas.

Category: Large Office Building, based on the CBECS classification.

Square footage: Twelve story, 491,000 ft².

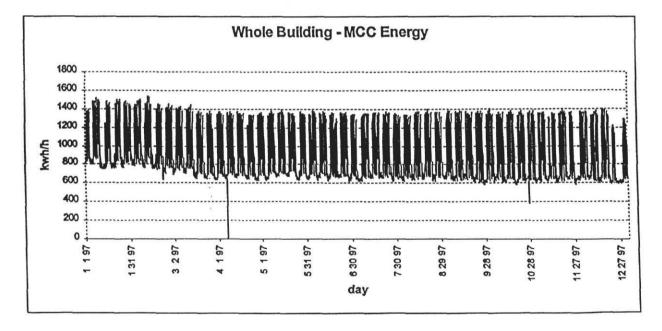
Lighting EUI: $[(15.95 \times 5) + (10.67 \times 2)] \times 52 \times 3.13 = 16.46 \text{ kWh/ft}^2$.year

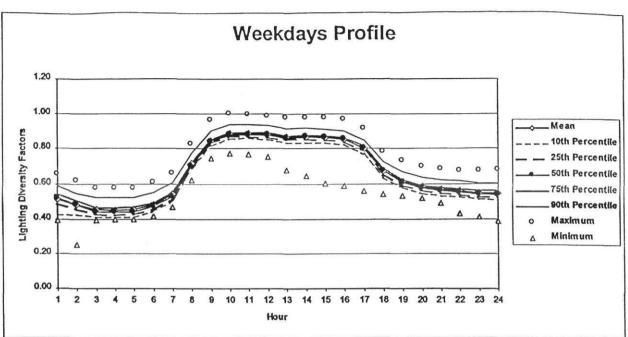
Lighting Type: 100% fluorescent (34-W)

Dates: 1/1/97 - 12/31/97

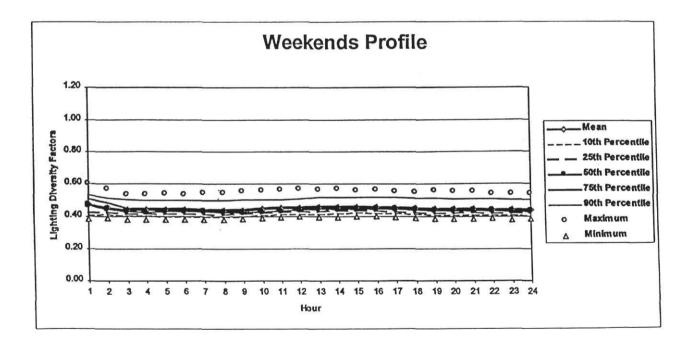
Data Type: Light + Equipment = WBE - MCC = ch0224 - ch0225

Maximum kW: 1,538 kW





*The dates that are excluded from the weekday profile are as follow: 1/1/97, 1/13/97,1/14/97, 1/20/97, 2/17/97, 5/26/97, 7/4/97, 9/1/97, 11/11/97, 11/27/97, 11/28/97, and 12/22 - 12/26/97.



Typical Load Shapes of the Daytypes

(Page 2)

(Page 3) WEEKDAYS **Diversity Factors and Statistics**

L 1	Hour	Mean	Mean+1Std	Mean-1Std	10th Percu	25th Perctl	50th Perctl	75th Percu	90th Perctl	Maximum	Minimun
[1.00	0.52	0.57	0.46	0.43	0.49	0.52	0.54	0.59	0.66	0.39
[2.00	0.48	0.53	0.43	0.43	0.45	0.48	0.51	0.55	0.62	0.25
[3.00	0.45	0.49	0.41	0.41	0.42	0.44	0.46	0.53	0.58	0.40
	4.00	0.45	0.49	0.41	0.41	0.42	0.44	0.46	0.52	0.58	0.40
[5.00	0.45	0.50	0.41	0.41	0.42	0.44	0.47	0.53	0.58	0.40
[6.00	0.48	0.52	0.44	0.44	0.45	0.47	0.49	0.55	0.61	0.42
	7.00	0.54	0.58	0.50	0.51	0.52	0.53	0.55	0.61	0.66	0.47
	8.00	0.72	0.75	0.68	0.69	0.70	0.71	0.72	0.77	0.83	0.63
[9.00	0.85	0.88	0.81	0.82	0.83	0.84	0.85	0.90	0.96	0.75
[10.00	0.88	0.92	0.85	0.86	0.87	0.88	0.89	0.94	1.00	0.77
[11.00	0.89	0.92	0.85	0.86	0.87	0.88	0.89	0.94	0.99	0.77
	12.00	0.88	0.91	0.85	0.85	0.86	0.88	0.89	0.93	0.98	0.75
(13.00	0.87	0.90	0.83	0.84	0.85	0.86	0.87	0.92	0.97	0.68
[14.00			0.83	0.84	0.85	0.86	0.88	0.92	0.97	0.65
[15.00	0.86	0.90	0.82	0.83	0.85	0.86	0.87	0.91	0.97	0.61
	16.00	0.85	0.89	0.81	0.83	0.84	0.85	0.86	0.90	0.97	0.59
[17.00	0.80	0.84	0.76	0.77	0.79	0.80	0.81	0.85	0.91	0.56
[18.00	0.68	0.71	0.64	0.64	0.65	0.67	0.69	0.73	0.78	0.54
	19.00	0.61	0.65	0.58	0.58	0.59	0.61	0.62	0.67	0.73	0.53
	20.00	0.58	0.62	0.55	0.55	0.56	0.58	0.59	0.64	0.70	0.52
	21.00	0.57	0.61	0.54	0.54	0.55	0.56	0.58	0.63	0.68	0.49
	22.00	0.56	0.60	0.52	0.53	0.54	0.55	0.57	0.62	0.67	0.43
	23.00	0.55	0.59	0.51	0.52	0.53	0.54	0.56	0.61	0.67	0.41
	24.00	0.55	0.59	0.50	0.51	0.52	0.54	0.56	0.61	0.68	0.39
aity Values		15.95	16.79	15.11	15.26	15.50	15.73	16.07	17.23	18.63	13.64
	om Hourty	15.95	16.89	15.01	15.07	15.44	15.80	16.22	17.35	18.77	12.80
	The Daily res om Hourly: The					ied on Hour-	of-Day data.				
/EEK	ENDS/HO	LIDAY	S								

Hour	1	Mean	Mean+1Std	Mean-1Std	10th Perctl	25th Perctl	50th Perctl	75th Percti	90th Perctl	Maximum	Minimum
1.	.00	0.47	0.52	0.42	0.41	0.42	0.47	0.51	0.53	0.60	0.38
2	.00	0.45	0.49	0.41	0.41	0.42	0.44	0.48	0.51	0.57	0.39
3.	.00	0.44	0.47	0.40	0.40	0.41	0.43	0.45	0.50	0.53	0.38
4.	.00	0.44	0.47	0.40	0.40	0.42	0.43	0.45	0.50	0.53	0.38
5.	.00	0.44	0.47	0.40	0.40	0.41	0.43	0.45	0.50	0.54	0.38
6.	.00	0.44	0.47	0.40	0.40	0.41	0.43	0.45	0.50	0.54	0.38
7.	.00	0.44	0.47	0.40	0.40	0.41	0.43	0.44	0.50	0.54	0.38
8	.00	0.43	0.47	0.40	0.40	0.41	0.42	0.45	0.50	0.54	0.38
9	.00	0.44	0.47	0.40	0.40	0.41	0.42	0.44	0.50	0.55	0.38
10	.00	0.44	0.48	0.40	0.41	0.42	0.43	0.45	0.50	0.56	0.39
11	.00	0.45	0.48	0.41	0.41	0.42	0.43	0.46	0.50	0.56	0.39
12	.00	0.45	0.49	0.41	0.42	0.43	0.44	0.46	0.51	0.57	0.40
13	.00	0.45	0.49	0.41	0.42	0.43	0.44	0.46	0.52	0.56	0.39
14	.00	0.45	0.49	0.42	0.42	0.43	0.44	0.46	0.52	0.57	0.39
	.00	0.45	0.49	0.42	0.42	0.43	0.44	0.46	0.52	0.56	0.40
16	.00	0.45	0.49	0.42	0.42	0.43	0.44	0.46	0.52	0.56	0.40
17	.00	0.45	0.49	0.41	0.42	0.43	0.44	0.46	0.52	0.55	0.39
18	3.00	0.45	0.48	0.41	0.41	0.42	0.44	0.45	0.51	0.55	0.39
19	0.00	0.45	0.48	0.41	0.41	0.42	0.44	0.45	0.51	0.56	0.38
20	0.00	0.44	0.48	0.41	0.41	0.42	0.43	0.45	0.51	0.55	0.38
21	1.00	0.44	0.48	0.41	0.41	0.42	0.43	0.45	0.51	0.55	0.39
22	2.00	0.44	0.48	0.41	0.41	0.42	0.43	0.44	0.51	0.54	0.39
23	3.00	0.44	0.47	0.40	0.41	0.42	0.43	0.44	0.50	0.54	0.38
	4.00	0.44	0.47	0.40	0.41	0.42	0.43	0.44	0.50	0.54	0.39
aily Values		10.66	11.53	9.80	9.92	10.12	10.43	10.76	12.32	13.12	9.48
aily Sum from Hourly		10.67	11.57	9.77	9.81	10.10	10.44	10.90	12.20	13.28	9.27
aily Values: The Da Daily Sum from Hourly						plied on Hour	-of-Day data				

(Page 4)

1. DOE-2 Input Sample

This is an example of how to input <u>Lighting diversity factors</u> for a Large Office Building (William B. Travis Bldg., Austin, TX) into the DOE-2 program. The calculated 50^{th} <u>Percentile</u> values are used in these schedules.

\$ WEEKDAY SCHEDULE \$ WKDAY = DAY-SCHEDULE (1) (0.52) (2) (0.48) (3) (0.44) (4) (0.44) (5) (0.44) (6) (0.47) (7) (0.53) (8) (0.71) (9) (0.84) (10) (0.88) (11) (0.88) (12) (0.88) (13) (0.86) (14) (0.86) (15) (0.86) (16) (0.85) (17) (0.80) (18) (0.67) (19) (0.61) (20) (0.58) (21) (0.56) (22) (0.55) (23) (0.54) (24) (0.54) ...

\$ WEEKEND SCHEDULE \$ WKEND = DAY-SCHEDULE (1) (0.47) (2) (0.44) (3) (0.43) (4) (0.43) (5) (0.43) (6) (0.43) (7) (0.43) (8) (0.42) (9) (0.42) (10) (0.43) (11) (0.43) (12) (0.44) (13) (0.44) (14) (0.44) (15) (0.44) (16) (0.44) (17) (0.44) (18) (0.44) (19) (0.44) (20) (0.33) (21) (0.43) (22) (0.43) (23) (0.43) (24) (0.43) ...

WORK = WEEK-SCHEDULE		(WE) WKEND	(HOL) WKEND
VAC = WEEK-SCHEDULE		(WE) WKEND	(HOL) WKEND
ELE-SCH = SCHEDULE	THRU JAN 1 VAC THRU JUL 4 VAC THRU NOV 24 VA THRU DEC 25 VA THRU DEC 31 VA	C THRU C THRU C THRU	JUL 3 WORK NOV 22 WORK DEC 24 WORK DEC 30 WORK

G-ZONE = SPACE-CONDITIONS LIGHTING-SCHEDULE = ELE-SCH LIGHTING-TYPE = REC-FLUOR-RV LIGHT-TO-SPACE = 0.8 LIGHTING-W/SQFT = 3.13 ..

The "LIGHT-TO-SPACE" and "LIGHTING-TYPE" values shown above are for illustrative purpose. Normally, the user would select these values based on the observed characteristics (or design) for the building considered.

The "LIGHTING-W/SQFT" value shown scales, the diversity factor to maximum observed value (W/ft^2) in the building for the period of Jan. 1 - Dec. 31, 1997.

The input file shown uses Weekends schedules for Holidays.

The Holidays shown in the input file are: New Year's Day, U.S. Independence Day, Thanksgiving, and Christmas. This assumes the user has selected the sub-commend "HOLIDAY = NO" in the "BUILDING LOCATION" commend of the "LOADS" input file. (Page 5)

2. BLAST Input Sample

TXL006

(Page 1) Building Descriptions: (TXL006)

(This section depends on the extent of information available on each building).

Building 210:

Building Name: Lyndon B. Johnson Building.

Source of Data: The Energy Systems Laboratory, Texas A&M University.

Location: Austin, Texas.

Category: Large Office Building, based on the CBECS classification.

Square footage: Twelve story, 308,080 ft².

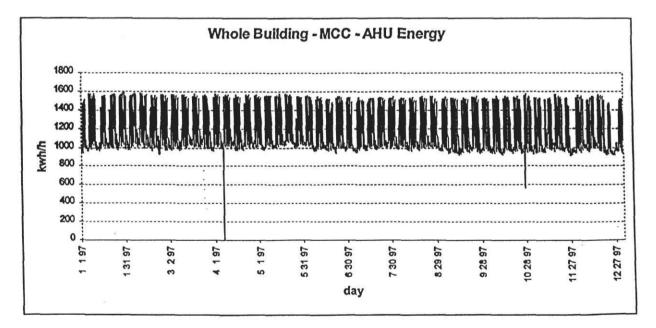
Lighting EUI: $[(19.04 \text{ x 5}) + (15.26 \text{ x 2})] \text{ x 52 x 5.17} = 33.79 \text{ kWh/ft}^2$.year

Lighting Type: Mixture of fluorescent and incandescent

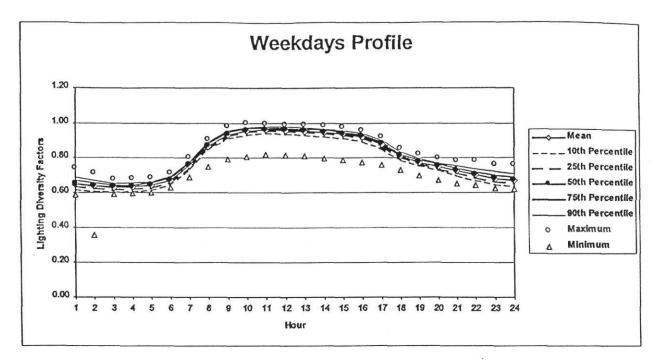
Dates: 1/1/97 - 12/31/97

Data Type: Light + Equipment = WBE - MCC - AHU = ch0227 - ch0230 - ch0231

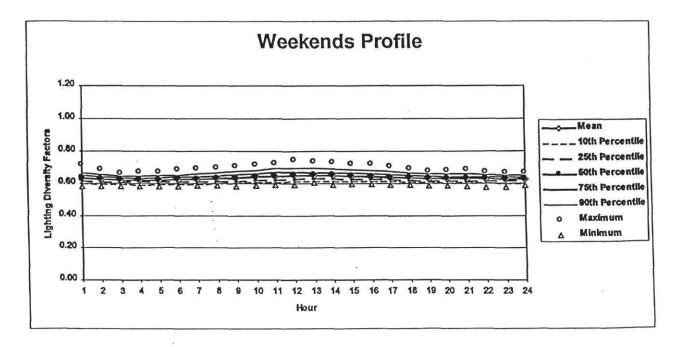
Maximum kW: 1,592 kW







*The dates that are excluded from the weekday profile are as follow: 1/1/97, 1/13/97,1/14/97, 7/4/97, 9/1/97, 11/1/97, 11/27/97, 11/28/97, and 12/24 - 12/26/97.



	Hour	Mean	Mean+1Std	Mean-1Std	10th Perctl	25th Perctl	50th Perctl	75th Perctl	90th Perctl	Maximum	Minimum
	1.00	0.65	0.68	0.62	0.62	0.63	0.65	0.67	0.69	0.74	0.58
	2.00	0.64	0.67	0.61	0.61	0.62	0.64	0.65	0.67	0.71	0.36
-	3.00	0.63	0.65	0.61	0.60	0.62	0.63	0.64	0.65	0.67	0.59
	4.00	0.63	0.65	0.61	0.61	0.62	0.63	0.64	0.65	0.68	0.59
	5.00	0.64	0.66	0.62	0.62	0.63	0.64	0.66	0.66	0.68	0.60
-	6.00	0.67	0.69	0.65	0.64	0.66	0.67	0.69	0.69	0.71	0.63
	7.00	0.76	0.78	0.74	0.74	0.75	0.76	0.77	0.78	0.80	0.69
	8.00	0.87	0.89	0.85	0.85	0.85	0.87	0.88	0.89	0.91	0.75
	9.00	0.93	0.95	0.91	0.91	0.92	0.93	0.95	0.96	0.98	0.79
	10.00	0.95	0.97	0.93	0.93	0.95	0.96	0.97	0.98	1.00	0.81
-	11.00	0.96	0.98	0.94	0.94	0.95	0.96	0.97	0.98	0.99	0.82
	12.00	0.96	0.98	0.94	0.94	0.95	0.96	0.97	0.98	0.99	0.82
	13.00	0.95	0.98	0.93	0.93	0.95	0.96	0.97	0.97	0.99	0.81
	14.00	0.95	0.97	0.92	0.92	0.94	0.95	0.96	0.97	0.98	0.80
	15.00	0.94	0.96	0.91	0.91	0.93	0.94	0.95	0.96	0.97	0.79
-	16.00	0.92	0.94	0.90	0.90	0.91	0.92	0.93	0.94	0.96	0.77
	18.00	0.88	0.90	0.85	0.85	0.80	0.88	0.89	0.90	0.92	0.76
-	19.00	0.81	0.83	0.76	0.75	0.80	0.81	0.82	0.83	0.83	0.73
-	20.00	0.75	0.75	0.73	0.73	0.74	0.75	0.76	0.77	0.80	0.67
	21.00	0.73	0.75	0.70	0.70	0.74	0.73	0.74	0.75	0.78	0.65
-	22.00	0.70	0.73	0.68	0.67	0.68	0.70	0.72	0.74	0.78	0.64
	23.00	0.68	0.71	0.65	0.65	0.66	0.68	0.70	0.72	0.76	0.62
-	24.00	0.67	0.70	0.64	0.64	0.65	0.67	0.69	0.71	0.76	0.62
v Values		19.04	19.45	18.63	18.57	18.76	19.06	19.35	19.53	19.97	17.21
ly Sum from	Hourty	19.04	19.56	18.52	18.46	18.75	19.06	19.38	19.64	20.25	1
ly Sum from I ly Values: TI	Hourty he Daily res	19.04		18.52	18.46				1	20.25	16.60
ly Values: TI	he Daily res	19.04 sults as the s	19.56	18.52 pplied on da	18.46 Ily data.	18.75	19.06		1	20.25	1
ity Sum from	he Daily res Hourty: The	19.04 sults as the s	19.56 tatistics are a Daily results	18.52 pplied on da	18.46 Ily data.	18.75	19.06		1	20.25	1
ly Values: The ly Sum from EEKEN	he Daily res Hourty: The	19.04 suits as the si e aggregated	19.56 tatistics are a Daily results	18.52 pplied on da	18.46 Ily data. stics are appl	18.75	19.06 of-Day data.		19.64	20.25 Maximum	16.60
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ly Values: The ly Sum from DEEKEN	he Daily res Hourly: The DS/HO 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00 17.00 18.00 19.00 20.00 21.00 22.00	19.04 19.04 115 as the s aggregated LIDAYS Mean 0.64 0.63 0.62 0.62 0.62 0.62 0.63 0.63 0.64 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.63 0.65	19.56 tatistics are a Daily results Mean+1Std 0.66 0.65 0.64 0.65 0.64 0.65 0.66 0.65 0.66 0.65 0.66 0.67 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.65 0.65 0.65	18.62 pplied on da as the statis Mean-1Sid 0.61 0.61 0.60 0.60 0.60 0.60 0.60 0.61 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62	18.46 ily data. stics are appl 0.60 0.60 0.60 0.60 0.60 0.60 0.60 0.6	18.75 ied on Hour- 0.62 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.62 0.62 0.63 0.63 0.63 0.63 0.63 0.63 0.63 0.63	19.06 19.06 50th Perct 0.63 0.63 0.62 0.62 0.62 0.62 0.63 0.63 0.63 0.64 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.64 0.64 0.63 0.63 0.63 0.63 0.63 0.63 0.63 0.63 0.63 0.63 0.63 0.63 0.63 0.63 0.63 0.63 0.63 0.63 0.65	19.38 75th Perct 0.65 0.64 0.63 0.64 0.64 0.64 0.64 0.65 0.66 0.66 0.66 0.67 0.67 0.67 0.67 0.67	19.64 90th Percli 0.67 0.65 0.65 0.65 0.65 0.65 0.66 0.67 0.68 0.68 0.67 0.68 0.68 0.70 0.70 0.70 0.70 0.70 0.69 0.68 0.65 0.66 0.65 0.65 0.65 0.65 0.65 0.66 0.65 0.66	Maximum 0.72 0.69 0.66 0.67 0.67 0.69 0.69 0.70 0.71 0.72 0.73 0.75 0.74 0.73 0.75 0.74 0.73 0.72 0.72 0.72 0.71 0.69 0.68 0.68 0.68 0.68	16.60 Minimu 0.58 0.58 0.58

(Page 3) **Diversity Factors and Statistics**

 Daily Sum from Hourly
 15.27
 15.83
 14.71
 14.57
 14.86
 15.25
 15.63
 16.05
 16.76
 14.10

 Daily Values: The Daily results as the statistics are applied on daily data.
 Daily Sum from Hourly: The aggregated Daily results as the statistics are applied on Hour-of-Day data.
 14.10

(Page 4)

1. DOE-2 Input Sample

This is an example of how to input <u>Lighting diversity factors</u> for a Large Office Building (Lyndon B. Johnson Bldg., Austin, TX) into the DOE-2 program. The calculated 50^{th} Percentile values are used in these schedules.

\$ WEEKDAY SCHEDULE \$ WKDAY = DAY-SCHEDULE (1) (0.65) (2) (0.64) (3) (0.63) (4) (0.64) (5) (0.64) (6) (0.67) (7) (0.76) (8) (0.87) (9) (0.93) (10) (0.96) (11) (0.96) (12) (0.96) (13) (0.96) (14) (0.95) (15) (0.94) (16) (0.92) (17) (0.88) (18) (0.81) (19) (0.77) (20) (0.75) (21) (0.73) (22) (0.70) (23) (0.68) (24) (0.67) ... **\$ WEEKEND SCHEDULE \$** WKEND = DAY-SCHEDULE (1)(0.63)(2)(0.63)(3)(0.62)(4)(0.62)(5)(0.62)(6)(0.63)(7)(0.63)(8)(0.63)(9)(0.64)(10)(0.64)(11)(0.65)(12)(0.65)(13) (0.65) (14) (0.65) (15) (0.65) (16) (0.64) (17) (0.64) (18) (0.64) (19) (0.63) (20) (0.63) (21) (0.63) (22) (0.63) (23) (0.63) (24) (0.63) ... WORK = WEEK-SCHEDULE (WE) WKEND (HOL) WKEND .. (WD) WKDAY VAC = WEEK-SCHEDULE (WD) WKEND (WE) WKEND (HOL) WKEND ...

ELE-SCH = SCHEDULE THRU JAN 1 VAC THRU JUL 3 WORK THRU JUL 4 VAC THRU NOV 22 WORK THRU NOV 24 VAC THRU DEC 24 WORK THRU DEC 25 VAC THRU DEC 30 WORK THRU DEC 31 VAC ..

G-ZONE = SPACE-CONDITIONS LIGHTING-SCHEDULE = ELE-SCH LIGHTING-TYPE = REC-FLUOR-RV LIGHT-TO-SPACE = 0.8 LIGHTING-W/SQFT = 5.17 ..

The "LIGHT-TO-SPACE" and "LIGHTING-TYPE" values shown above are for illustrative purpose. Normally, the user would select these values based on the observed characteristics (or design) for the building considered.

The "LIGHTING-W/SQFT" value shown scales, the diversity factor to maximum observed value (W/ft^2) in the building for the period of Jan. 1 - Dec. 31, 1997.

The input file shown uses Weekends schedules for Holidays.

The Holidays shown in the input file are: New Year's Day, U.S. Independence Day, Thanksgiving, and Christmas. This assumes the user has selected the sub-commend "HOLIDAY = NO" in the "BUILDING LOCATION" commend of the "LOADS" input file. (Page 5)

2. BLAST Input Sample

TXL007

(Page 1) Building Descriptions: (TXL007)

(This section depends on the extent of information available on each building).

Building 228:

Building Name: Price Daniels, Sr. Building.

Source of Data: The Energy Systems Laboratory, Texas A&M University.

Location: Austin, Texas.

Category: Large Office Building, based on the CBECS classification.

Square footage: Eight story, 151,620 ft².

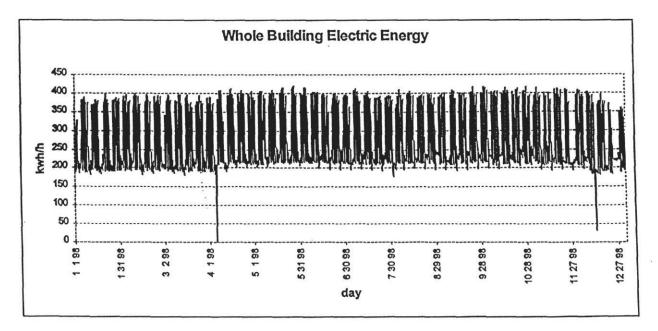
Lighting EUI: $[(17.20 \times 5) + (12.48 \times 2)] \times 52 \times 2.76 = 15.95 \text{ kWh/ft}^2$.year

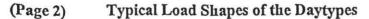
Lighting Type: Mixture of fluorescent and incandescent

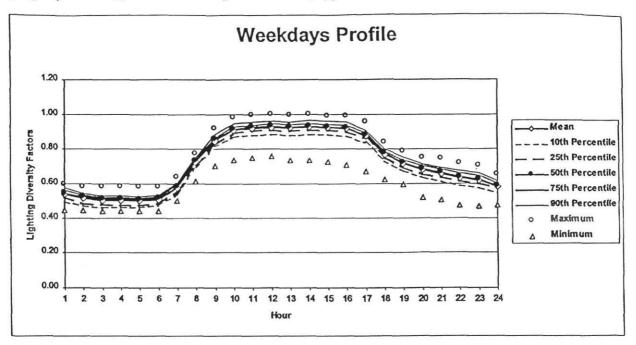
Dates: 1/1/98 - 12/31/98

Data Type: WBE = ch2255

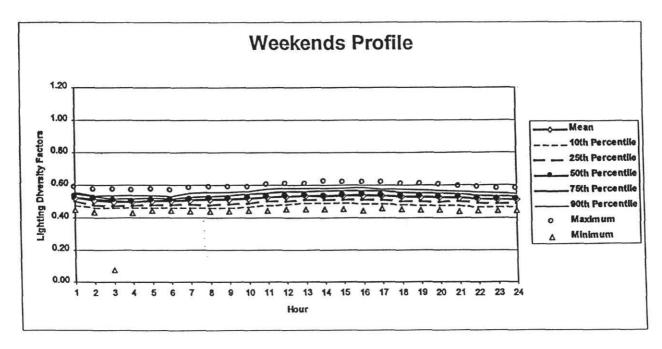
Maximum kW: 419 kW







*The dates that are excluded from the weekday profile are as follow: 1/1/98, 1/19/98,2/16/98, 5/25/98, 9/07/98, 11/11/98, 11/26/98, 11/27/98, and 12/23 - 12/25/98.



Г	Hour	Mean	Mean+1Std	Mean-1Std	10th Perctl	25th Perctl	50th Perctl	75th Perctl	90th Percti	Maximum	Minimum
F	1.00	0.54	0.57	0.51	0.49	0.52	0.55	0.56	0.58	0.60	0.45
	2.00	0.51	0.54	0.49	0.48	0.48	0.52	0.53	0.54	0.58	0.44
	3.00	0.50	0.53	0.48	0.47	0.48	0.51	0.52	0.53	0.58	0.44
	4.00	0.50	0.53	0.48	0.46	0.47	0.51	0.52	0.53	0.58	0.44
	5.00	0.50	0.53	0.47	0.46	0.47	0.51	0.52	0.53	0.58	0.44
	6.00	0.51	0.53	0.48	0.47	0.48	0.52	0.52	0.53	0.58	0.44
	7.00	0.58	0.60	0.55	0.54	0.56	0.58	0.59	0.60	0.64	0.50
	8.00	0.73	0.75	0.70	0.69	0.71	0.73	0.74	0.75	0.77	0.62
	9.00	0.85	0.88	0.82	0.81	0.83	0.86	0.87	0.89	0.92	0.70
	10.00	0.91	0.94	0.87	0.87	0.89	0.91	0.93	0.95	0.98	0.73
	11.00	0.92	0.96	0.89	0.88	0.90	0.93	0.94	0.96	0.99	0.75
	12.00	0.93	0.96	0.89	0.89	0.91	0.93	0.95	0.96	1.00	0.76
	13.00	0.92	0.96	0.89	0.88	0.90	0.93	0.94	0.96	0.99	0.73
	14.00	0.93	0.96	0.89	0.89	0.91	0.93	0.95	0.97	1.00	0.73
L	15.00	0.92	0.96	0.89	0.89	0.91	0.93	0.94	0.96	0.99	0.73
L	16.00	0.92	0.95	0.88	0.88	0.90	0.92	0.94	0.95	0.99	0.71
L	17.00	0.88	0.91	0.84	0.84	0.86	0.88	0.90	0.91	0.96	0.67
	18.00	0.77	0.80	0.74	0.73	0.75	0.78	0.79	0.80	0.84	0.62
L	19.00	0.72	0.75	0.68	0.67	0.69	0.72	0.73	0.75	0.79	0.59
L	20.00	0.68	0.71	0.65	0.64	0.65	0.68	0.70	0.71	0.75	0.52
L	21.00	0.66	0.69	0.62	0.62	0.64	0.67	0.68	0.69	0.74	0.51
L	22.00	0.63	0.67	0.60	0.59	0.61	0.64	0.66	0.67	0.72	0.47
L	23.00	0.62	0.66	0.58	0.58	0.60	0,62	0.64	0.66	0.70	0.47
	24.00	0.58	0.61	0.55	0.55	0.57	0.58	0.60	0.62	0.65	0.47
									and the second sec		
Daily Values		17.20	17.84	16.55	16.37	16.70	17.40	17.64	17.86	18.39	
Daily Values Daily Sum fro		17.20	17.97	16.42	16.27	16.70 16.71	17.40 17.35	17.64 17.67	17.86 18.01	18.39 18.92	14.51 13.95
Daily Sum fro Daily Values:	The Daily re	17.20 sults as the s	17.97 tatistics are a	16.42 pplied on da	16.27 ily data.	16.71	17.35				
Daily Sum fro Daily Values: Daily Sum fro	The Daily re om Hourly: Th	17.20 suits as the s ne aggregated	17.97 tatistics are a Daily results	16.42 pplied on da	16.27 ily data.	16.71	17.35				
Daily Sum fro Daily Values: Daily Sum fro	The Daily re om Hourly: Th NDS/HO	17.20 suits as the s ne aggregated LIDAYS	17.97 tatistics are a Daily results	16.42 pplied on da as the statis	16.27 ily data. stics are app	16.71 lied on Hour-	17.35 of-Day data.	17.67	18,01	18.92	13.95
Daily Sum fro Daily Values: Daily Sum fro	The Daily re om Hourly: Th	17.20 suits as the s ne aggregated	17.97 tatistics are a Daily results	16.42 pplied on da	16.27 ily data. stics are app	16.71	17.35 of-Day data.		18,01		
aily Sum fro aily Values: aily Sum fro	The Daily re om Hourly: Th NDS/HO	17.20 suits as the s le aggregated LIDAYS Mean 0.52	17.97 tatistics are a Daily results	16.42 pplied on da as the statis	16.27 ily data. stics are app	16.71 lied on Hour-	17.35 of-Day data.	17.67	18.01 90th Perctl 0.56	18.92	13.95 Minimu 0.45
Daily Sum fro Daily Values: Daily Sum fro	The Daily re m Hourly: Th NDS/HO Hour	17.20 suits as the s ne aggregated LIDAYS Mean 0.52 0.51	17.97 tatistics are a Daily results Mean+1Std	16.42 pplied on da as the statis	16.27 ily data. stics are app 10th Perctl	16.71 lied on Hour- 25th Perctl 0.50 0.48	17.35 of-Day data. 50th Perct 0.53 0.52	17.67 75th Perct 0.55 0.53	18.01 90th Perctl 0.56 0.54	18.92 Maximum 0.59 0.57	13.95 Minimu 0.45 0.44
aily Sum fro aily Values: aily Sum fro	The Daily re om Hourly: Th NDS/HO Hour 1.00 2.00 3.00	17.20 suits as the s le aggregated LIDAYS Mean 0.52 0.51 0.50	17.97 tatistics are a Daily results Mean+1Std 0.56 0.54 0.55	16.42 pplied on da as the statist Mean-1Std 0.49 0.47 0.45	16.27 ily data. stics are app 10th Perctl 0.48 0.46 0.46	16.71 lied on Hour- 25th Perctl 0.50 0.48 0.47	17.35 of-Day data. 50th Perct 0.53 0.52 0.51	17.67 75th Perct 0.55 0.53 0.52	18.01 90th Perct/ 0.56 0.54 0.54	18.92 Maximum 0.59 0.57 0.57	13.95 Minimu 0.45 0.44 0.07
Daily Sum fro Daily Values: Daily Sum fro	The Daity re on Hourty: Th NDS/HO Hour 1.00 2.00 3.00 4.00	17.20 suits as the s aggregated LIDAYS Mean 0.52 0.51 0.50 0.50	17.97 tatistics are a Daity results Mean+1Std 0.56 0.54 0.55 0.53	16.42 pplied on da as the statist Mean-1Std 0.49 0.47 0.45 0.47	16.27 ily data. stics are app 10th Percti 0.48 0.46 0.46 0.46	16.71 lied on Hour- 25th Perctl 0.50 0.48 0.47 0.47	17.35 of-Day data. 50th Perct 0.53 0.52 0.51 0.50	17.67 75th Perct 0.55 0.53 0.52 0.52	18.01 90th Perct 0.56 0.54 0.54 0.54	18.92 Maximum 0.59 0.57 0.57 0.57	13.95 Minimu 0.45 0.44 0.07 0.43
Daily Sum fro Daily Values: Daily Sum fro	The Daity re on Hourty: Tr NDS/HO Hour 1.00 2.00 3.00 4.00 5.00	17.20 suits as the s aggregated LIDAYS Mean 0.52 0.51 0.50 0.50 0.50	17.97 tatistics are a Daity results Mean+1Std 0.56 0.54 0.55 0.53 0.53	16.42 pplied on da as the statist Mean-1Std 0.49 0.47 0.45 0.47 0.48	16.27 ily data. stics are app 10th Percti 0.48 0.46 0.46 0.46 0.46	16.71 lied on Hour- 25th Perctl 0.50 0.48 0.47 0.47 0.47	17.35 of-Day data. 50th Perct 0.53 0.52 0.51 0.50 0.51	17.67 75th Perct 0.55 0.53 0.52 0.52 0.52	18.01 90th Perctl 0.56 0.54 0.54 0.54 0.54	18.92 Maximum 0.59 0.57 0.57 0.57 0.57	13.95 Minimu 0.45 0.44 0.07 0.43 0.44
Daily Sum fro Daily Values: Daily Sum fro	The Daily re on Hourly: Th NDS/HO Hour 1.00 2.00 3.00 4.00 5.00 6.00	17.20 suits as the s as aggregated LIDAYS Mean 0.52 0.51 0.50 0.50 0.50 0.50	17.97 tatistics are a Daity results Mean+1Std 0.56 0.54 0.55 0.53 0.53 0.53	16.42 pplied on da as the statist Mean-1Std 0.49 0.47 0.45 0.47 0.48 0.48	16.27 ily data. stics are app 10th Percti 0.48 0.46 0.46 0.46 0.46 0.46	16.71 lied on Hour- 25th Perctl 0.50 0.48 0.47 0.47 0.47 0.48 0.48	17.35 of-Day data. 50th Perct 0.53 0.52 0.51 0.50 0.51 0.51	17.67 75th Perct 0.55 0.53 0.52 0.52 0.52 0.52 0.52	18.01 90th Perctl 0.56 0.54 0.54 0.54 0.54	18.92 Maximum 0.59 0.57 0.57 0.57 0.57 0.57	13.95 Minimu 0.45 0.44 0.07 0.43 0.44 0.44
aily Sum fro aily Values: aily Sum fro	The Daily re xm Hourly: Th NDS/HO Hour 1.00 2.00 3.00 4.00 5.00 6.00 7.00	17.20 suits as the s aggregated LIDAYS Mean 0.52 0.51 0.50 0.50 0.50 0.50 0.51	17.97 tatistics are a Daity results Mean+1Std 0.56 0.54 0.55 0.53 0.53 0.53 0.53	16.42 pplied on da as the statist Mean-1Std 0.49 0.47 0.45 0.47 0.48 0.48 0.48	16.27 ily data. stics are app 10th Percti 0.48 0.46 0.46 0.46 0.46 0.46 0.46	16.71 lied on Hour- 25th Perctl 0.50 0.48 0.47 0.47 0.47 0.48 0.48 0.48	17.35 of-Day data. 50th Perct 0.53 0.52 0.51 0.50 0.51 0.51	17.67 75th Perct 0.55 0.53 0.52 0.52 0.52 0.52 0.52 0.52	18.01 90th Perctl 0.56 0.54 0.54 0.54 0.54 0.54 0.54	18.92 Maximum 0.59 0.57 0.57 0.57 0.57 0.57 0.57	Minimu 0.45 0.44 0.07 0.43 0.44 0.44
aily Sum fro aily Values: aily Sum fro	The Daily re xm Hourly: Th NDS/HO Hour 1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00	17.20 suits as the s as aggregated LIDAYS Mean 0.52 0.51 0.50 0.50 0.50 0.50 0.51 0.51	17.97 tatistics are a Daity results Mean+1Std 0.56 0.54 0.55 0.53 0.53 0.53 0.53 0.53	16.42 pplied on da a sthe statistic (Mean-1Std 0.49 0.47 0.45 0.47 0.48 0.48 0.48 0.48	16.27 ily data. stics are app 10th Perctl 0.48 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46	16.71 lied on Hour- 25th Perctl 0.50 0.48 0.47 0.47 0.47 0.48 0.48 0.48 0.48 0.48	17.35 of-Day data. 50th Perct 0.53 0.52 0.51 0.50 0.51 0.51 0.51 0.52	17.67 75th Perct 0.55 0.53 0.52 0.52 0.52 0.52 0.52 0.52 0.53 0.54	18.01 90th Perctl 0.56 0.54 0.54 0.54 0.54 0.55 0.55 0.56	18.92 Maximum 0.59 0.57 0.57 0.57 0.57 0.57 0.57 0.58 0.59	Minimu 0.45 0.44 0.07 0.43 0.44 0.44 0.44
aily Sum fro aily Values: aily Sum fro	The Daily re on Hourly: Th NDS/HO Hour 1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00	17.20 suits as the s as aggregated LIDAYS Mean 0.52 0.51 0.50 0.50 0.50 0.50 0.51 0.51	17.97 tatistics are a Daity results Mean+1Std 0.56 0.54 0.55 0.53 0.53 0.53 0.53 0.53 0.55 0.55	16.42 pplied on da as the statist Mean-1Std 0.49 0.47 0.45 0.47 0.48 0.48 0.48 0.48 0.48 0.48	16.27 ily data. stics are app 10th Perctl 0.48 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46	16.71 lied on Hour- 25th Perctl 0.50 0.48 0.47 0.47 0.47 0.48 0.48 0.48 0.48 0.48	17.35 of-Day data. 50th Perct 0.53 0.52 0.51 0.51 0.51 0.51 0.52 0.52	17.67 75th Perct 0.55 0.53 0.52 0.52 0.52 0.52 0.52 0.52 0.53 0.54 0.54	18.01 90th Perctl 0.56 0.54 0.54 0.54 0.54 0.55 0.56 0.56	18.92 Maximum 0.59 0.57 0.57 0.57 0.57 0.57 0.57 0.58 0.59 0.59	Minimu 0.45 0.44 0.07 0.43 0.44 0.44 0.44 0.44
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Daily Sum fro Daily Values: Daily Sum fro	The Daily re xm Hourly: Th NDS/HO Hour 1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00	17.20 suits as the s as aggregated Mean 0.52 0.51 0.50 0.50 0.50 0.50 0.50 0.51 0.51	17.97 tatistics are a Daity results Mean+1Std 0.56 0.54 0.55 0.53 0.53 0.53 0.53 0.55 0.55 0.55	16.42 pplied on da as the statist Mean-1Std 0.49 0.47 0.45 0.47 0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.48	16.27 ily data. stics are app 10th Perctl 0.48 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46	16.71 lied on Hour- 25th Perctl 0.50 0.48 0.47 0.47 0.47 0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.48	17.35 of-Day data. 50th Perct 0.53 0.52 0.51 0.51 0.51 0.51 0.52 0.52 0.52 0.52 0.52 0.53	17.67 75th Perct 0.55 0.53 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.53 0.54 0.55 0.55 0.55	18.01 90th Perctl 0.56 0.54 0.54 0.54 0.54 0.55 0.56 0.56 0.56 0.56 0.58	18.92 Maximum 0.59 0.57 0.57 0.57 0.57 0.57 0.57 0.58 0.59 0.59 0.59 0.59 0.60	Minimu 0.45 0.44 0.07 0.43 0.44 0.44 0.44 0.44 0.44 0.44
aily Sum fro aily Values: aily Sum fro	The Daily re xm Hourly: Th NDS/HO Hour 1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00	17.20 suits as the s as aggregated Mean 0.52 0.51 0.50 0.50 0.50 0.50 0.50 0.51 0.51	17.97 tatistics are a Daity results Mean+1Std 0.56 0.54 0.55 0.53 0.53 0.53 0.53 0.55 0.55 0.55	16.42 pplied on da a st the statist (Mean-1Std 0.49 0.47 0.45 0.47 0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.48	16.27 ily data. stics are app 10th Perctl 0.48 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46	16.71 lied on Hour- 25th Perctl 0.50 0.48 0.47 0.47 0.47 0.47 0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.48	17.35 of-Day data. 50th Perct 0.53 0.52 0.51 0.51 0.51 0.51 0.52 0.52 0.52 0.52 0.52 0.53 0.53	17.67 175th Perct 0.55 0.53 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.53 0.54 0.55 0.55 0.55 0.55	18.01 90th Perctl 0.56 0.54 0.54 0.54 0.54 0.55 0.56 0.56 0.56 0.56 0.58 0.58	18.92 Maximum 0.59 0.57 0.57 0.57 0.57 0.57 0.57 0.57 0.58 0.59 0.59 0.59 0.59 0.60 0.61	13.95 Minimu 0.45 0.44 0.43 0.44 0.44 0.44 0.44 0.44 0.44
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(Page 3) **Diversity Factors and Statistics**

11.66 12.49 13.32 11.38 Daily Values: The Daily results as the statistics are applied on daily data.

12.48

Daily Values

Daily Sum from Hourty

Daily Sum from Hourly: The aggregated Daily results as the statistics are applied on Hour-of-Day data.

11.70

11.45

11.79

11.86

13.26

10.10

10.31

14.01

14.24

13.09

13.07

13.36

13.49

12.60

12.54

(Page 4)

1. DOE-2 Input Sample

This is an example of how to input <u>Lighting diversity factors</u> for a Large Office Building (Price Daniels Bldg., Austin, TX) into the DOE-2 program. The calculated 50^{th} Percentile values are used in these schedules.

\$ WEEKEND SCHEDULE \$ WKEND = DAY-SCHEDULE (1) (0.53) (2) (0.52) (3) (0.51) (4) (0.50) (5) (0.51) (6) (0.51) (7) (0.52) (8) (0.52) (9) (0.52) (10) (0.52) (11) (0.53) (12) (0.53) (13) (0.54) (14) (0.53) (15) (0.54) (16) (0.54) (17) (0.54) (18) (0.53) (19) (0.53) (20) (0.53) (21) (0.53) (22) (0.52) (23) (0.51) (24) (0.51) ...

WORK = WEEK-SCHEDULE		(WE) WKEND	(HOL) WKEND
VAC = WEEK-SCHEDULE		(WE) WKEND	(HOL) WKEND
ELE-SCH = SCHEDULE	THRU JAN 1 VAC THRU JUL 4 VAC THRU NOV 24 VA THRU DEC 25 VAC THRU DEC 31 VAC	C THRU C THRU C THRU	JUL 3 WORK NOV 22 WORK DEC 24 WORK DEC 30 WORK

G-ZONE = SPACE-CONDITIONS LIGHTING-SCHEDULE = ELE-SCH LIGHTING-TYPE = REC-FLUOR-RV LIGHT-TO-SPACE = 0.8 LIGHTING-W/SQFT = 2.76 ..

The "LIGHT-TO-SPACE" and "LIGHTING-TYPE" values shown above are for illustrative purpose. Normally, the user would select these values based on the observed characteristics (or design) for the building considered.

The "LIGHTING-W/SQFT" value shown scales, the diversity factor to maximum observed value (W/ft^2) in the building for the period of Jan. 1 - Dec. 31, 1998.

The input file shown uses Weekends schedules for Holidays.

The Holidays shown in the input file are: New Year's Day, U.S. Independence Day, Thanksgiving, and Christmas. This assumes the user has selected the sub-commend "HOLIDAY = NO" in the "BUILDING LOCATION" commend of the "LOADS" input file. (Page 5)

2. BLAST Input Sample

TXL008

(Page 1) Building Descriptions: (TXL008)

(This section depends on the extent of information available on each building).

Building 229:

Building Name: Tom C. Clark Building.

Source of Data: The Energy Systems Laboratory, Texas A&M University.

Location: Austin, Texas.

Category: Large Office Building, based on the CBECS classification.

Square footage: Seven story, 121,654 ft².

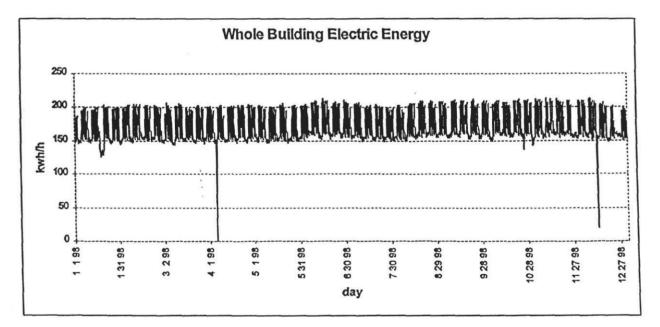
Lighting EUI: $[(20.09 \times 5) + (17.37 \times 2)] \times 52 \times 1.75 = 12.32 \text{ kWh/ft}^2$.year

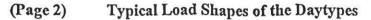
Lighting Type: Mixture of fluorescent, incandescent, and PL lamps

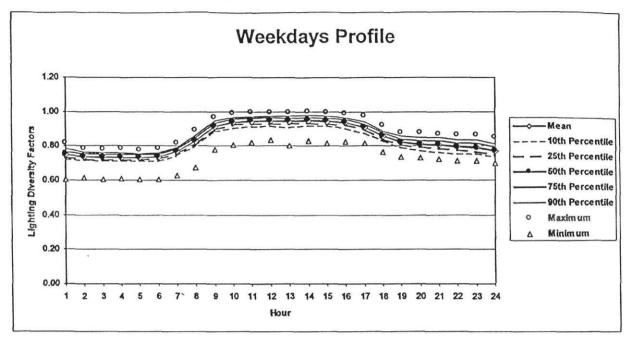
Dates: 1/1/98 - 12/31/98

Data Type: WBE = ch2256

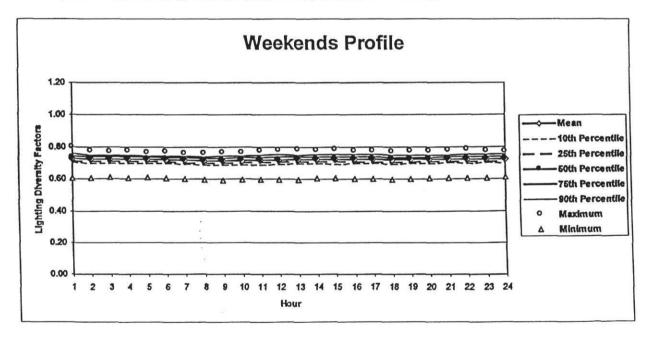
Maximum kW: 213 kW







*The dates that are excluded from the weekday profile are as follow: 1/1/98, 1/19/98, 2/16/98, 5/25/98, 9/07/98, 11/11/98, 11/26/98, 11/27/98, and 12/23 - 12/25/98.



(Page 3) WEEKDAYS **Diversity Factors and Statistics**

	Hour	Mean	Mean+1Std	Mean-1Std	10th Percu	25th Perct	50th Perctl	75th Perctl	90th Perctl	Maximum	Minimun
	1.00	0.75	0.77	0.72	0.72	0.73	0.75	0.77	0.78	0.81	0.61
-	2.00	0.74	0.76	0.72	0.72	0.72	0.74	0.75	0.76	0.78	0.61
	3.00	0.73	0.75	0.71	0.71	0.72	0.73	0.75	0.76	0.78	0.61
	4.00	0.73	0.75	0.71	0.71	0.72	0.73	0.75	0.76	0.78	0.61
	5.00	0.73	0.75	0.71	0.71	0.72	0.73	0.75	0.76	0.77	0.61
	6.00	0.73	0.75	0.72	0.71	0.72	0.73	0.75	0.76	0.78	0.60
-	7.00	0.77	0.79	0.75	0.74	0.75	0.77	0.78	0.79	0.82	0.63
	8.00	0.83	0.86	0.81	0.80	0.81	0.83	0.85	0.86	0.89	0.68
	9.00	0.91	0.94	0.89	0.88	0.90	0.91	0.93	0.95	0.96	0.78
	10.00	0.94	0.96	0.91	0.91	0.92	0.94	0.96	0.97	0.99	0.80
	11.00	0.94	0.97	0.92	0.92	0.93	0.94	0.96	0.97	0.99	0.82
1	12.00	0.95	0.97	0.92	0.92	0.93	0.95	0.96	0.98	0.99	0.83
	13.00	0.94	0.97	0.92	0.91	0.93	0.94	0.96	0.97	0.99	0.80
-	14.00	0.95	0.97	0.92	0.92	0.93	0.95	0.97	0.98	1.00	0.83
-	15.00	0.93	0.97	0.92	0.92	0.93	0.94	0.96	0.97	0.99	0.82
-											
	16.00	0.94	0.96	0.91	0.91	0.92	0.94	0.96	0.97	0.99	0.83
-	17.00	0.86	0.84	0.88	0.88	0.90	0.86	0.83	0.84		0.81
	18.00	0.80	0.88	0.83	0.83	0.84	0.86	0.88	0.89	0.92	0.77
			1								0.74
-	20.00	0.81	0.84	0.78	0.78	0.79	0.81	0.83	0.85	0.88	0.73
-	21.00	0.80	0.84	0.76	0.76	0.78	0.80	0.83	0.85	0.87	0.72
H	23.00	0.79	0.82	0.76	0.75	0.77	0.79	0.82	0.83	0.86	
-	23.00	0.77	0.80	0.76	0.73	0.77	0.79	0.81	0.81	0.85	0.71
N	24.00										
ity Values		20.09	20.59	19.59	19.53	19.72	20.03	20.53	20.77	21.20	18.6
			20.69	19.49	19.39	19.68	20.08	20.54	20.86	21.43	17.3
		20.09			ly data						
	The Daily res	sults as the s	tatistics are a Daily results	pplied on da		ied on Hour-c	of-Day data.				
ily Values: ily Sum from	The Daity res n Hourty: The NDS/HO	sults as the st e aggregated LIDAYS	tatistics are a I Daily results	pplied on dates the statis	tics are appl						I Market
ily Values: ily Sum from	The Daily res in Hourly: The NDS/HO Hour	sults as the st e aggregated LIDAYS Mean	tatistics are a I Daily results Mean+1Std	pplied on dates the statis	tics are appl	25th Perctl	50th Perct	75th Perct		Maximum	
ily Values: ily Sum from	The Daily res n Hourly: The NDS/HO Hour 1.00	sults as the st e aggregated LIDAYS Mean 0.73	Atistics are a Daily results Mean+1Std 0.76	pplied on dat as the statis Mean-1Std 0.71	tics are appl 10th Perctl 0.71	25th Perctl 0.72	50th Perct	0.75	0.76	0.80	0.61
ily Values: ily Sum from	The Daily res n Hourty: The NDS/HO Hour 1.00 2.00	sults as the s e sogregated LIDAYS Mean 0.73 0.73	atistics are a Daily results Mean+1Std 0.76 0.75	Mean-1Std 0.71	10th Perctl 0.71 0.70	25th Perctl 0.72 0.71	50th Perctl 0.73 0.73	0.75 0.74	0.76 0.75	0.80 0.78	0.61
ity Values: ity Sum from	The Daily res n Hourty: The NDS/HO Hour 1.00 2.00 3.00	sults as the s e sogregated LIDAYS Mean 0.73 0.73 0.73	Atistics are a Daily results Mean+1Std 0.76 0.75 0.75	Mean-1Std 0.71 0.71 0.70	tics are appl 10th Perctl 0.71 0.70 0.70	25th Perctl 0.72 0.71 0.71	50th Percti 0.73 0.73 0.73	0.75 0.74 0.74	0.76 0.75 0.75	0.80 0.78 0.77	0.6 ⁻ 0.6 ⁻ 0.6
ity Values: ity Sum from	The Daily res n Hourly: The NDS/HO Hour 1.00 2.00 3.00 4.00	LIDAYS Mean 0.73 0.73 0.73 0.73 0.72	Interference Automatical	pplied on data as the statis Mean-1Std 0.71 0.71 0.71 0.71 0.70	10th Perctl 0.71 0.70 0.70 0.70 0.70	25th Perctl 0.72 0.71 0.71 0.71	50th Percti 0.73 0.73 0.73 0.73	0.75 0.74 0.74 0.74	0.76 0.75 0.75 0.75	0.80 0.78 0.77 0.77	0.6 ⁴ 0.6 ⁴ 0.6 ⁴
ity Values: ity Sum from	The Daily res n Hourly: Th NDS/HO Hour 1.00 2.00 3.00 4.00 5.00	ults as the s e aggregated Mean 0.73 0.73 0.73 0.73 0.72 0.73	atistics are a Daily results Mean+1Std 0.76 0.75 0.75 0.75 0.75	pplied on da as the statis Mean-1Std 0.71 0.71 0.70 0.70 0.70	10th Perctl 0.71 0.70 0.70 0.70 0.70 0.70	25th Perctl 0.72 0.71 0.71 0.71 0.71	50th Percti 0.73 0.73 0.73 0.73 0.73 0.73	0.75 0.74 0.74 0.74 0.74	0.76 0.75 0.75 0.75 0.75 0.75	0.80 0.78 0.77 0.77 0.77	0.6 ⁻ 0.6 ⁻ 0.6 0.6
ity Values: ity Sum from	The Daily res n Hourly: The NDS/HO Hour 1.00 2.00 3.00 4.00 5.00 6.00	cults as the s e aggregated Mean 0.73 0.73 0.73 0.73 0.72 0.73 0.72	Interstep Interstep <t< td=""><td>pplied on da as the statis Mean-1Std 0.71 0.71 0.70 0.70 0.70 0.70</td><td>10th Perctl 0.71 0.70 0.70 0.70 0.70 0.70 0.70 0.70</td><td>25th Perctl 0.72 0.71 0.71 0.71 0.71 0.71 0.71</td><td>50th Perctl 0.73 0.73 0.73 0.73 0.73 0.73 0.73</td><td>0.75 0.74 0.74 0.74 0.74 0.74</td><td>0.76 0.75 0.75 0.75 0.75 0.75</td><td>0.80 0.78 0.77 0.77 0.77 0.77</td><td>0.6[°] 0.6[°] 0.6[°] 0.6[°] 0.6</td></t<>	pplied on da as the statis Mean-1Std 0.71 0.71 0.70 0.70 0.70 0.70	10th Perctl 0.71 0.70 0.70 0.70 0.70 0.70 0.70 0.70	25th Perctl 0.72 0.71 0.71 0.71 0.71 0.71 0.71	50th Perctl 0.73 0.73 0.73 0.73 0.73 0.73 0.73	0.75 0.74 0.74 0.74 0.74 0.74	0.76 0.75 0.75 0.75 0.75 0.75	0.80 0.78 0.77 0.77 0.77 0.77	0.6 [°] 0.6 [°] 0.6 [°] 0.6 [°] 0.6
ity Values: ity Sum from	The Daily res n Hourly: The NDS/HO Hour 1.00 2.00 3.00 4.00 5.00 6.00 7.00	cults as the s e aggregated Mean 0.73 0.73 0.73 0.72 0.73 0.72 0.72 0.72	Atistics are a Daily results Mean+1Std 0.76 0.75 0.75 0.75 0.75 0.75 0.75	pplied on da as the statis Mean-1Std 0.71 0.71 0.70 0.70 0.70 0.70 0.70 0.70 0.70	10th Perctl 0.71 0.70 0.70 0.70 0.70 0.70 0.70 0.70	25th Percti 0.72 0.71 0.71 0.71 0.71 0.71 0.71 0.70	50th Perctl 0.73 0.73 0.73 0.73 0.73 0.73 0.73 0.73	0.75 0.74 0.74 0.74 0.74 0.74 0.74	0.76 0.75 0.75 0.75 0.75 0.75 0.75	0.80 0.78 0.77 0.77 0.77 0.77 0.77	0.6 0.6 0.6 0.6 0.6 0.6 0.6
ity Values: ity Sum from	The Daily res n Hourly: The NDS/HO Hour 1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00	Exits as the size aggregated LIDAYS Mean 0.73 0.73 0.73 0.72 0.73 0.72 0.72 0.72 0.72	Atistics are a I Daily results Mean+1Std 0.76 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.74	pplied on da as the statis Mean-1Std 0.71 0.71 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70	10th Perctl 0.71 0.70 0.70 0.70 0.70 0.70 0.70 0.70	25th Percti 0.72 0.71 0.71 0.71 0.71 0.71 0.71 0.70 0.70	50th Perctl 0.73 0.73 0.73 0.73 0.73 0.73 0.73 0.72 0.72	0.75 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.73	0.76 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75	0.80 0.78 0.77 0.77 0.77 0.77 0.77 0.76 0.76	0.6 ¹ 0.6 ¹ 0.6 0.6 0.6 0.6
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ity Values: ity Sum from /EEKEI	The Daily res in Hourly: The NDS/HO Hour 1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00 17.00 18.00 19.00 20.00 21.00 22.00	Autistic as the site e aggregated Mean 0.73 0.73 0.73 0.73 0.73 0.73 0.73 0.73 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.73	Atistics are a I Daily results I Daily results 0.76 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.74 0.74 0.75	pplied on da as the statis 0.71 0.71 0.70 <	tics are appl 10th Perctl 0.71 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.69 0.69 0.69 0.69 0.69 0.69 0.70 0.	25th Percti 0.72 0.71 0.71 0.71 0.71 0.71 0.70 0.70 0.70 0.70 0.70 0.70 0.71	50th Percti 0.73 0.73 0.73 0.73 0.73 0.73 0.73 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.73 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.73	0.75 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.73 0.73 0.73 0.73 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74	0.76 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75	0.80 0.78 0.77 0.77 0.77 0.77 0.76 0.76 0.76 0.76	Minimi 0.61 0.62 0.66 0.66 0.66 0.66 0.66 0.66 0.66 0.66 0.66 0.66 0.66 0.66 0.66 0.66 0.66 0.66 0.66 0.66 0.61 0.65 0.66
illy Values: illy Sum from	The Daily res n Hourly: Th NDS/HO Hour 1.00 2.00 3.00 4.00 6.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00 17.00 18.00 19.00 20.00 21.00 22.00 23.00 24.00	Suits as the size aggregated Mean 0.73 0.73 0.73 0.73 0.73 0.73 0.73 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.73 0.73 0.73 0.73 0.73 0.73 0.73 0.73 0.73 0.73 0.73 0.73 0.73 0.73 0.73 0.73 0.73 0.73 0.73	Atistics are a I Daily results I Daily results 0.76 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.74 0.74 0.74 0.75	pplied on da as the statis 0.71 0.71 0.70	tics are appl 10th Perctl 0.71 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.69 0.69 0.69 0.69 0.69 0.69 0.70 0.71 0.71	25th Percti 0.72 0.71 0.71 0.71 0.71 0.71 0.70 0.70 0.70 0.70 0.70 0.71	50th Percti 0.73 0.73 0.73 0.73 0.73 0.73 0.73 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72	0.75 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.73 0.73 0.73 0.73 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74	0.76 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75	0.80 0.78 0.77 0.77 0.77 0.77 0.76 0.76 0.76 0.76	0.6 ⁴ 0.6 ⁶ 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6

(Page 4)

1. DOE-2 Input Sample

This is an example of how to input <u>Lighting diversity factors</u> for a Large Office Building (Tom C. Clark Bldg., Austin, TX) into the DOE-2 program. The calculated 50^{th} Percentile values are used in these schedules.

\$ WEEKDAY SCHEDULE \$ WKDAY = DAY-SCHEDULE (1) (0.75) (2) (0.74) (3) (0.73) (4) (0.73) (5) (0.73) (6) (0.73) (7) (0.77) (8) (0.83) (9) (0.91) (10) (0.94) (11) (0.94) (12) (0.95) (13) (0.94) (14) (0.95) (15) (0.94) (16) (0.94) (17) (0.91) (18) (0.86) (19) (0.82) (20) (0.81) (21) (0.80) (22) (0.79) (23) (0.79) (24) (0.77) ...

\$ WEEKEND SCHEDULE \$ WKEND = DAY-SCHEDULE (1) (0.73) (2) (0.73) (3) (0.73) (4) (0.73) (5) (0.73) (6) (0.73) (7) (0.72) (8) (0.72) (9) (0.72) (10) (0.72) (11) (0.72) (12) (0.72) (13) (0.73) (14) (0.73) (15) (0.73) (16) (0.73) (17) (0.73) (18) (0.73) (19) (0.73) (20) (0.73) (21) (0.73) (22) (0.73) (23) (0.73) (24) (0.73) ...

WORK = WEEK-SCHEDULE	(WD) WKDAY	(WE) WKEND	(HOL) WKEND
VAC = WEEK-SCHEDULE	(WD) WKEND	(WE) WKEND	(HOL) WKEND
ELE-SCH = SCHEDULE	THRU JAN 1 VA THRU JUL 4 VA THRU NOV 24 V THRU DEC 25 V THRU DEC 31 V	C THRU YAC THRU AC THRU	JUL 3 WORK NOV 22 WORK DEC 24 WORK DEC 30 WORK

G-ZONE = SPACE-CONDITIONS LIGHTING-SCHEDULE = ELE-SCH LIGHTING-TYPE = REC-FLUOR-RV LIGHT-TO-SPACE = 0.8 LIGHTING-W/SQFT = 1.75 ..

The "LIGHT-TO-SPACE" and "LIGHTING-TYPE" values shown above are for illustrative purpose. Normally, the user would select these values based on the observed characteristics (or design) for the building considered.

The "LIGHTING-W/SQFT" value shown scales, the diversity factor to maximum observed value (W/ ft^2) in the building for the period of Jan. 1 - Dec. 31, 1998.

The input file shown uses Weekends schedules for Holidays.

The Holidays shown in the input file are: New Year's Day, U.S. Independence Day, Thanksgiving, and Christmas. This assumes the user has selected the sub-commend "HOLIDAY = NO" in the "BUILDING LOCATION" commend of the "LOADS" input file. (Page 5)

2. BLAST Input Sample

TXL010

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(Page 1) Building Descriptions: (TXL010)

(This section depends on the extent of information available on each building).

Building 975:

Building Name: Brazos County Courthouse Building.

Source of Data: The Energy Systems Laboratory, Texas A&M University.

Location: Bryan, Texas.

Category: Large Office Building, based on the CBECS classification.

Square footage: Five story, 100,000 ft².

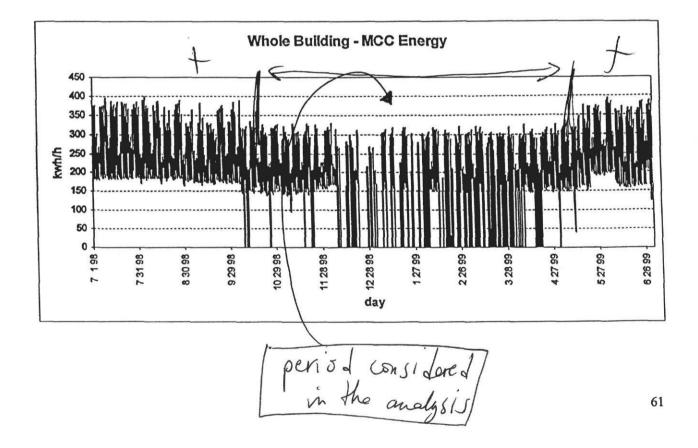
Lighting EUI: $[(x 5) + (x 2)] x 52 x = kWh/ft^2$.year

Lighting Type: Mixture of fluorescent and incandescent

Dates: 7/1/98 - 7/1/99

Data Type: Lighting + receptacles = WBE - MCC - Chillers = ch3496 - (ch3840 + ch3841 + ch3846 + ch3847) - (ch3842 + ch3843 + ch3844 + ch3845)

Maximum kW: 398 kW



(Page 2) Typical Load Shapes of the Daytypes

*The dates that are excluded from the weekday profile are as follow: 1/1/98, 1/19/98, 2/16/98, 5/25/98, 9/07/98, 11/11/98, 11/26/98, 11/27/98, and 12/23 - 12/25/98.

	Hour	Mean	Mean+1Std	Mean-1Std	10th Perctl	25th Perctl		75th Percti	90th Percti	Maximum	Minimun
-	1.00	0.75	0.77	0.72	0.72	0.73	0.75	0.77	0.78	0.81	0.61
	2.00	0.74	0.76	0.72	0.72	0.72	0.74	0.75	0.76	0.78	0.61
-	3.00	0.73	0.75	0.71	0.71	0.72	0.73	0.75	0.76	0.78	0.61
-	4.00	0.73	0.75	0.71	0.71	0.72	0.73	0.75	0.76	0.78	0.61
-	5.00	0.73	0.75	0.71	0.71	0.72	0.73	0.75	0.76	0.77	0.61
-	6.00	0.73	0.75	0.72	0.71	0.72	0.73	0.75	0.76	0.78	0.60
-	7.00	0.83	0.79	0.75	0.74	0.75	0.77	0.78	0.79	0.82	0.63
-	8.00 9.00	0.91	0.86	0.81	0.80	0.81	0.83	0.83	0.85	0.96	0.68
	10.00	0.94	0.96	0.91	0.91	0.92	0.94	0.96	0.97	0.99	0.80
-	11.00	0.94	0.97	0.92	0.92	0.93	0.94	0.96	0.97	0.99	0.82
F	12.00	0.95	0.97	0.92	0.92	0.93	0.95	0.96	0.98	0.99	0.83
	13.00	0.94	0.97	0.92	0.91	0.93	0.94	0.96	0.97	0.99	0.80
	14.00	0.95	0.97	0.92	0.92	0.93	0.95	0.97	0.98	1.00	0.83
	15.00	0.94	0.97	0.92	0.92	0.93	0.94	0.96	0.97	0.99	0.82
	16.00	0.94	0.96	0.91	0.91	0.92	0.94	0.96	0.97	0.99	0.83
	17.00	0.91	0.94	0.88	0.88	0.90	0.91	0.93	0.94	0.97	0.81
	18.00	0.86	0.88	0.83	0.83	0.84	0.86	0.88	0.89	0.92	0.77
L	19.00	0.82	0.85	0.80	0.79	0.80	0.82	0.84	0.86	0.88	0.74
	20.00	0.81	0.84	0.78	0.78	0.79	0.81	0.83	0.85	0.88	0.73
	21.00	0.80	0.84	0.77	0.77	0.78	0.80	0.83	0.85	0.87	0.72
-	22.00	0.79	0.83	0.76	0.76	0.77	0.79	0.82	0.84	0.86	0.71
-	23.00	0.79	0.82	0.76	0.75	0.77	0.79	0.81	0.83	0.86	0.71
	24.00	0.77	0.80	0.74	0.73	0.75	0.77	0.79	0.81	0.85	0.70
ity Values		20.09	20.59	19.59	19.53	19.72	20.03	20.53	20.77	21.20	18.6
ity Sum from	m Hourty The Daily res m Hourty: Th NDS/HO	e aggregated	Daily results			19.68 ied on Hour-c	20.08 of-Day data.	20.54	20.86	21.43	17.3
ily Values: ily Sum from	The Daily rea m Hourly: Th	sults as the st e aggregated	atistics are a Daily results	pplied on da as the statis	ity data. stics are appl	•		20.54 75th Perct		21.43 Maximum	
ily Values: ily Sum from	The Daily res m Hourly: Th NDS/HO	sults as the st e aggregated LIDAYS	atistics are a Daily results	pplied on da as the statis	ity data. stics are appl	ied on Hour-c	of-Day data.				Minim
ily Values: ily Sum from	The Daily res m Hourly: Th NDS/HO Hour	sults as the st e aggregated LIDAYS Mean	atistics are a Daily results Mean+1Std	pplied on da as the statis Mean-1Std	ity data. stics are appl 10th Perctl	ied on Hour-o	of-Day data. 50th Perctl	75th Perct	90th Perctl	Maximum	Minim
ily Values: ily Sum from	The Daily res m Hourly: Th NDS/HO Hour 1.00 2.00 3.00	sults as the st e aggregated LIDAYS Mean 0.73 0.73 0.73	atistics are a Daily results Mean+1Std 0.76 0.75 0.75	pplied on da as the statis Mean-1Std 0.71 0.71 0.70	ity data. stics are appl 10th Perctl 0.71 0.70 0.70	25th Percti 0.72 0.71 0.71	50th Perctl 0.73 0.73 0.73	75th Perctt 0.75 0.74 0.74	90th Perctl 0.76 0.75 0.75	Maximum 0.80 0.78 0.77	Minim 0.6 0.6 0.6
ily Values: ily Sum from	The Daily re: m Hourly: Th NDS/HO Hour 1.00 2.00 3.00 4.00	suits as the st e aggregated LIDAYS Mean 0.73 0.73 0.73 0.73 0.72	atistics are a Daily results Mean+1Std 0.76 0.75 0.75 0.75	pplied on da as the statis 0.71 0.71 0.70 0.70	ity data. stics are appl 10th Perctl 0.71 0.70 0.70 0.70	25th Perctl 0.72 0.71 0.71 0.71	50th Perctl 0.73 0.73 0.73 0.73 0.73	75th Percti 0.75 0.74 0.74 0.74	90th Perctl 0.76 0.75 0.75 0.75 0.75	Maximum 0.80 0.78 0.77 0.77	Minim 0.6 0.6 0.6 0.6
ily Values: ily Sum from	The Daily re: m Hourly: Th NDS/HO Hour 1.00 2.00 3.00 4.00 5.00	sults as the st e aggregated LIDAYS Mean 0.73 0.73 0.73 0.73 0.72 0.73	atistics are a Daily results Mean+1Std 0.76 0.75 0.75 0.75 0.75	pplied on da as the statis Mean-1Std 0.71 0.71 0.70 0.70 0.70	ity data. tics are appl 10th Perctl 0.71 0.70 0.70 0.70 0.70	25th Perctl 0.72 0.71 0.71 0.71 0.71 0.71	50th Perctl 0.73 0.73 0.73 0.73 0.73 0.73	75th Percti 0.75 0.74 0.74 0.74 0.74	90th Percti 0.76 0.75 0.75 0.75 0.75	Maximum 0.80 0.78 0.77 0.77 0.77	Minim 0.6 0.6 0.6 0.6 0.6
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ily Values: ily Sum from	The Daily re: m Hourly: Th NDS/HO Hour 1.00 2.00 3.00 4.00 5.00 6.00 7.00	suits as the si e aggregated LIDAYS Mean 0.73 0.73 0.73 0.73 0.72 0.73 0.72 0.72	atistics are a Daily results Mean+1Std 0.76 0.75 0.75 0.75 0.75 0.75 0.75	pplied on da as the statis Mean-1Std 0.71 0.71 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70	ity data. Stics are appl 10th Perctl 0.71 0.70 0.70 0.70 0.70 0.70 0.70 0.70	25th Perctl 0.72 0.71 0.71 0.71 0.71 0.71 0.71 0.71 0.70	of-Day data. 50th Perctl 0.73 0.73 0.73 0.73 0.73 0.73 0.73 0.73	75th Percti 0.75 0.74 0.74 0.74 0.74 0.74 0.74	90th Percti 0.76 0.75 0.75 0.75 0.75 0.75 0.75	Maximum 0.80 0.78 0.77 0.77 0.77 0.77 0.77	Minim 0.6 0.6 0.6 0.6 0.6 0.6
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ily Values: ily Sum from	The Daily re: m Hourly: Th NDS/HO Hour 1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 11.00 11.00 11.00 11.00 13.00 14.00 15.00 16.00 17.00 18.00 19.00 20.00 21.00 22.00	suits as the st e aggregated LIDAYS Mean 0.73 0.73 0.73 0.73 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72	atistics are a Daily results 0.76 0.75 0.75 0.75 0.75 0.75 0.75 0.74 0.74 0.74 0.74 0.74 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75	pplied on da as the statis Mean-1Std 0.71 0.71 0.70	ity data. Stics are appl 0.71 0.70 0.70 0.70 0.70 0.70 0.70 0.69 0.69 0.69 0.69 0.69 0.69 0.69 0.70 0.7	25th Percti 0.72 0.71 0.71 0.71 0.71 0.71 0.71 0.70 0.70 0.70 0.70 0.70 0.71	50th Perctl 0.73 0.73 0.73 0.73 0.73 0.73 0.73 0.73	75th Percti 0.75 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.73 0.73 0.73 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74	90th Percti 0.76 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.76 0.76 0.76 0.76 0.76 0.76 0.75 0.76 0.76 0.76 0.75 0.76 0.76 0.75 0.75 0.76 0.75 0.75 0.76 0.75 0.75 0.76 0.75 0.75 0.76 0.75 0.75 0.75 0.76 0.75	Maximum 0.80 0.78 0.77 0.77 0.77 0.77 0.76 0.76 0.77 0.77 0.77 0.78 0.78 0.79 0.78 0.79 0.78 0.79 0.78 0.77 0.78 0.79 0.78 0.79 0.78 0.79 0.78 0.79 0.78 0.77 0.78 0.79 0.78 0.7	Minim 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6
ily Values: ily Sum from	The Daily re: m Hourly: Th NDS/HO Hour 1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 11.00 11.00 13.00 14.00 15.00 16.00 17.00 18.00 19.00 20.00 21.00	suits as the st e aggregated LIDAYS Mean 0.73 0.73 0.73 0.73 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72	atistics are a Daily results 0.76 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.74 0.74 0.74 0.74 0.74 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75	pplied on da as the statis Mean-1Std 0.71 0.71 0.70	ity data. Stics are appl 0.71 0.70 0.70 0.70 0.70 0.70 0.70 0.69 0.69 0.69 0.69 0.69 0.69 0.70 0.71	25th Percti 0.72 0.71 0.71 0.71 0.71 0.71 0.71 0.70 0.70 0.70 0.70 0.70 0.71 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.71	50th Perctl 0.73 0.73 0.73 0.73 0.73 0.73 0.73 0.73	75th Percti 0.75 0.74 0.74 0.74 0.74 0.74 0.74 0.73 0.73 0.73 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74	90th Percti 0.76 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.76 0.76 0.76 0.76 0.76 0.76 0.75 0.76 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.76 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.76 0.75	Maximum 0.80 0.78 0.77 0.77 0.77 0.76 0.76 0.76 0.77 0.77 0.78 0.78 0.79 0.78 0.79 0.78 0.79 0.78 0.77 0.78 0.79 0.78 0.77 0.78 0.79 0.78 0.77 0.78 0.79 0.78 0.79 0.78 0.79 0.78 0.79 0.77 0.77 0.77 0.78 0.79 0.78 0.79 0.77 0.77 0.77 0.78 0.79 0.77 0.77 0.77 0.77 0.77 0.78 0.79 0.77 0.77 0.77 0.78 0.79 0.77 0.78 0.79 0.77 0.78 0.79 0.78 0.77 0.77 0.78 0.79 0.78 0.77 0.78 0.79 0.78 0.77 0.78 0.79 0.78 0.77 0.78 0.79 0.78 0.77 0.78 0.79 0.78 0.79 0.78 0.79 0.78 0.79 0.78 0.79 0.78 0.79 0.78 0.79 0.78 0.79 0.78 0.78 0.79 0.78 0.78 0.79 0.78 0.78 0.79 0.78 0.78 0.78 0.78 0.78 0.78 0.78 0.78 0.78 0.78 0.79 0.78 0.78 0.78 0.79 0.78 0.78 0.78 0.78 0.79 0.78 0.78 0.78 0.79 0.78 0.78 0.78 0.79 0.78 0.78 0.79 0.78 0.79 0.78 0.78 0.79 0.78 0.78 0.79 0.78 0.78 0.79 0.78 0.79 0.78 0.78 0.79	Minim 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6
ily Values: ily Sum from	The Daily re: m Hourly: Th NDS/HO Hour 1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 11.00 12.00 13.00 14.00 15.00 16.00 17.00 16.00 17.00 18.00 20.00 21.00 22.00 23.00 24.00	suits as the st e aggregated LIDAYS Mean 0.73 0.73 0.73 0.73 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72	atistics are a Daily results 0.76 0.75 0.75 0.75 0.75 0.75 0.75 0.74 0.74 0.74 0.74 0.74 0.74 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75	pplied on da as the statis 0.71 0.71 0.70	ity data. Stics are appl 0.71 0.70 0.70 0.70 0.70 0.70 0.70 0.69 0.69 0.69 0.69 0.69 0.69 0.70 0.71 0.71	25th Percti 0.72 0.71 0.71 0.71 0.71 0.71 0.71 0.70 0.70 0.70 0.70 0.70 0.71	50th Perctl 0.73 0.73 0.73 0.73 0.73 0.73 0.73 0.73	75th Percti 0.75 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.73 0.73 0.73 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74	90th Percti 0.76 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.76 0.76 0.76 0.76 0.76 0.76 0.76 0.75 0.76 0.76 0.76 0.76 0.75 0.75 0.76 0.75 0.75 0.76 0.75 0.75 0.76 0.75 0.75 0.75 0.75 0.76 0.75 0.75 0.75 0.76 0.75	Maximum 0.80 0.78 0.77 0.77 0.77 0.76 0.76 0.76 0.77 0.78 0.78 0.79 0.78 0.79 0.78 0.79 0.78 0.79 0.78 0.77 0.78 0.79 0.78 0.77 0.78 0.79 0.78 0.77 0.78 0.79 0.78 0.79 0.78 0.77 0.78 0.79 0.78 0.77 0.78 0.79 0.78 0.77 0.78 0.79 0.78 0.77 0.78 0.79 0.78 0.77 0.78 0.79 0.78 0.77 0.78 0.79 0.78 0.77 0.78 0.79 0.78 0.77 0.78 0.79 0.78 0.77 0.78 0.79 0.78 0.77 0.78 0.77 0.78 0.77 0.78 0.79 0.78 0.77 0.78 0.79 0.78 0.77 0.78 0.79 0.78 0.77 0.78 0.78 0.79 0.78 0.78 0.79 0.78 0.7	Minim 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6

(Page 3) **Diversity Factors and Statistics**

Daily Sum from Hourly: The aggregated Daily results as the statistics are applied on Hour-of-Day data.

(Page 4)

1. DOE-2 Input Sample

This is an example of how to input <u>Lighting diversity factors</u> for a Large Office Building (Brazos County Courthouse Bldg., Bryan, TX) into the DOE-2 program. The calculated 50th Percentile values are used in these schedules.

\$ WEEKDAY SCHEDULE \$
WKDAY = DAY-SCHEDULE
(1) (0.75) (2) (0.74) (3) (0.73) (4) (0.73) (5) (0.73) (6) (0.73)
(7) (0.77) (8) (0.83) (9) (0.91) (10) (0.94) (11) (0.94) (12) (0.95)
(13) (0.94) (14) (0.95) (15) (0.94) (16) (0.94) (17) (0.91) (18) (0.86)
(19) (0.82) (20) (0.81) (21) (0.80) (22) (0.79) (23) (0.79) (24) (0.77) ...

\$ WEEKEND SCHEDULE \$ WKEND = DAY-SCHEDULE (1) (0.73) (2) (0.73) (3) (0.73) (4) (0.73) (5) (0.73) (6) (0.73) (7) (0.72) (8) (0.72) (9) (0.72) (10) (0.72) (11) (0.72) (12) (0.72) (13) (0.73) (14) (0.73) (15) (0.73) (16) (0.73) (17) (0.73) (18) (0.73) (19) (0.73) (20) (0.73) (21) (0.73) (22) (0.73) (23) (0.73) (24) (0.73) ...

WORK = WEEK-SCHEDULE		(WE) WKEND	(HOL) WKEND
VAC = WEEK-SCHEDULE		(WE) WKEND	(HOL) WKEND
ELE-SCH = SCHEDULE	THRU JAN 1 VAC THRU JUL 4 VAC THRU NOV 24 VA THRU DEC 25 VA THRU DEC 31 VA	THRU C THRU C THRU	UL 3 WORK NOV 22 WORK DEC 24 WORK DEC 30 WORK

G-ZONE = SPACE-CONDITIONS LIGHTING-SCHEDULE = ELE-SCH LIGHTING-TYPE = REC-FLUOR-RV LIGHT-TO-SPACE = 0.8 LIGHTING-W/SQFT = 3.98 ..

The "LIGHT-TO-SPACE" and "LIGHTING-TYPE" values shown above are for illustrative purpose. Normally, the user would select these values based on the observed characteristics (or design) for the building considered.

The "LIGHTING-W/SQFT" value shown scales, the diversity factor to maximum observed value (W/ft^2) in the building for the period of Jul 1, 1998 - Jul 1, 1999.

The input file shown uses Weekends schedules for Holidays.

The Holidays shown in the input file are: New Year's Day, U.S. Independence Day, Thanksgiving, and Christmas. This assumes the user has selected the sub-commend "HOLIDAY = NO" in the "BUILDING LOCATION" commend of the "LOADS" input file. (Page 5)

2. BLAST Input Sample

TXL011

(Page 1) Building Descriptions: (TXL011)

(This section depends on the extent of information available on each building).

Building 200:

Building Name: Capitol Building.

Source of Data: The Energy Systems Laboratory, Texas A&M University.

Location: Austin, TX.

Category: Large Office Building, based on the CBECS classification.

Square footage: 282,499 ft².

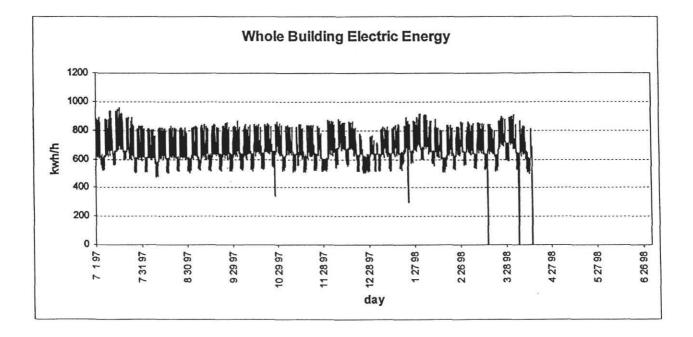
Lighting EUI: $[(18.06 \times 5) + (14.80 \times 2)] \times 52 \times 3.39 = 21.17 \text{ kWh/ft}^2$.year

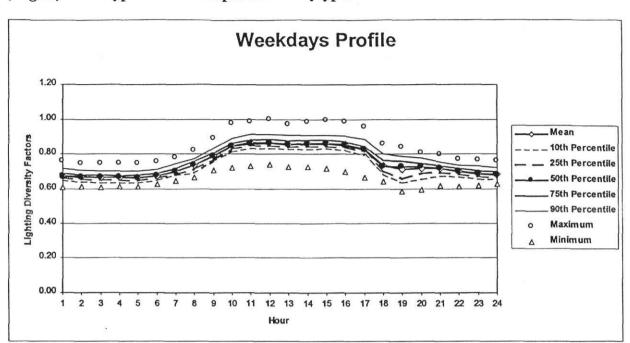
Lighting Type: N/A

Dates: 7/1/97 - 7/1/98

Data Type: WBE = ch1492

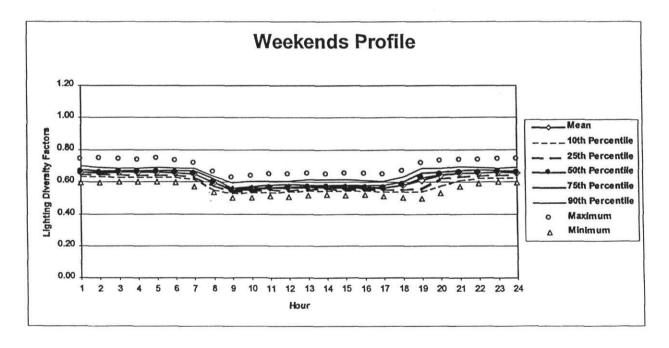
Maximum kW: 959 kW





(Page 2) Typical Load Shapes of the Daytypes

*The dates that are excluded from the weekday profile are as follow: 7/4/97, 9/1/97, 11/11/97, 11/27/97, 11/28/97, 12/24 -12/26/97, 12/31/97, 1/1/98, 1/19/98, 2/16/98, 4/10/98, and 4/14/98 - 6/30/98.



(Page 3) WEEKDAYS **Diversity Factors and Statistics**

[Hour	Mean	Mean+1Std	Mean-1Std	10th Perctl	25th Perctl	50th Perctl	75th Perctl	90th Perctl	Maximum	Minimun
[1.00	0.68	0.70	0.65	0.65	0.66	0.67	0.69	0.72	0.76	0.61
	2.00	0.67	0.70	0.65	0.64	0.65	0.67	0.68	0.71	0.75	0.61
	3.00	0.67	0.69	0.64	0.64	0.65	0.66	0.68	0.70	0.74	0.61
1	4.00	0.67	0.69	0.64	0.64	0.65	0.67	0.68	0.70	0.74	0.61
(5.00	0.67	0.69	0.64	0.64	0.65	0.66	0.68	0.70	0.75	0.61
[6.00	0.68	0.70	0.65	0.65	0.66	0.67	0.69	0.71	0.75	0.63
	7.00	0.70	0.73	0.68	0.68	0.69	0.70	0.72	0.74	0.78	0.65
[8.00	0.73	0.77	0.70	0.69	0.71	0.73	0.76	0.77	0.82	0.67
	9.00	0.79	0.82	0.76	0.76	0.77	0.79	0.81	0.83	0.89	0.71
	10.00	0.85	0.88	0.81	0.81	0.83	0.84	0.86	0.89	0.97	0.72
	11.00	0.87	0.90	0.83	0.84	0.85	0.86	0.88	0.91	0.98	0.73
	12.00	0.87	0.90	0.83	0.84	0.85	0.86	0.89	0.91	1.00	0.74
	13.00	0.86	0.90	0.82	0.83	0.84	0.86	0.88	0.91	0.97	0.73
	14.00	0.86	0.90	0.83	0.83	0.84	0.86	0.88	0.91	0.99	0.72
	15.00	0.86	0.90	0.83	0.84	0.84	0.86	0.88	0.91	0.99	0.72
	16.00	0.86	0.90	0.82	0.82	0.84	0.85	0.87	0.91	0.98	0.70
	17.00	0.83	0.87	0.79	0.80	0.81	0.82	0.84	0.89	0.96	0.67
	18.00	0.74	0.78	0.69	0.69	0.71	0.73	0.76	0.80	0.86	0.64
	19.00	0.71	0.77	0.66	0.64	0.66	0.73	0.76	0.79	0.84	0.59
	20.00	0.72	0.76	0.68	0.66	0.69	0.73	0.75	0.78	0.81	0.59
	21.00	0.71	0.75	0.68	0.67	0.69	0.72	0.73	0.75	0.80	0.62
	22.00	0.70	0.73	0.67	0.67	0.68	0.70	0.72	0.74	0.77	0.62
	23.00	0.69	0.72	0.66	0.66	0.67	0.69	0.71	0.73	0.76	0.62
	24.00	0.68	0.71	0.66	0.65	0.66	0.68	0.70	0.72	0.76	0.63
aily Values	5	18.06	18.72	17.40	17.36	17.64	17.94	18.33	19.03	19.93	16.51
	rom Hourty	18.07	18.86	17.28	17.23	17.56	17.99	18.47	19.15	20.42	15.75
aily Values	s: The Daily res										
	rom Hourly: The			as the statis	tics are appl	ied on Hour-	of-Day data.				
/EEK	ENDS/HO	LIDAYS	5								

	Hour	Mean	Mean+1Std	Mean-1Std	10th Perctl	25th Perctl	50th Perctl	75th Perctl	90th Perctl	Maximum	Minimum
[1.00	0.66	0.69	0.64	0.64	0.65	0.66	0.68	0.70	0.74	0.60
	2.00	0.66	0.69	0.64	0.64	0.65	0.66	0.67	0.69	0.74	0.60
	3.00	0.66	0.69	0.64	0.63	0.65	0.66	0.67	0.69	0.74	0.60
	4.00	0.66	0.69	0.64	0.63	0.64	0.66	0.67	0.69	0.74	0.60
	5.00	0.66	0.69	0.64	0.63	0.64	0.66	0.67	0.69	0.74	0.60
	6.00	0.66	0.68	0.63	0.63	0.64	0.66	0.67	0.69	0.73	0.60
[7.00	0.65	0.68	0.63	0.62	0.63	0.65	0.67	0.68	0.72	0.57
E	8.00	0.60	0.63	0.57	0.55	0.58	0.60	0.62	0.64	0.66	0.54
1	9.00	0.56	0.58	0.53	0.53	0.54	0.55	0.56	0.60	0.63	0.50
[10.00	0.56	0.59	0.53	0.54	0.54	0.55	0.57	0.61	0.64	0.50
	11.00	0.57	0.60	0.54	0.54	0.55	0.56	0.58	0.61	0.65	0.51
[12.00	0.57	0.60	0.54	0.54	0.55	0.56	0.59	0.61	0.65	0.51
[13.00	0.57	0.60	0.54	0.55	0.55	0.57	0.58	0.62	0.65	0.52
	14.00	0.57	0.60	0.54	0.55	0.56	0.57	0.58	0.62	0.65	0.52
	15.00	0.57	0.60	0.54	0.55	0.55	0.56	0.58	0.62	0.65	0.52
	16.00	0.57	0.60	0.54	0.55	0.55	0.56	0.58	0.61	0.65	0.52
[17.00	0.57	0.60	0.54	0.54	0.55	0.56	0.58	0.61	0.65	0.51
[18.00	0.58	0.62	0.55	0.54	0.55	0.58	0.60	0.63	0.67	0.50
ſ	19.00	0.61	0.67	0.56	0.54	0.56	0.63	0.66	0.69	0.72	0.50
[20.00	0.64	0.68	0.60	0.58	0.62	0.65	0.66	0.69	0.73	0.53
[21.00	0.66	0.69	0.62	0.61	0.63	0.66	0.67	0.69	0.74	0.57
	22.00	0.66	0.69	0.63	0.63	0.64	0.66	0.68	0.69	0.74	0.59
	23.00	0.66	0.69	0.63	0.63	0.64	0.66	0.67	0.69	0.74	0.60
	24.00	0.66	0.69	0.63	0.63	0.64	0.66	0.67	0.69	0.74	0.60
aily Values	Charles and the second second second	14.80	15.44	14.15	14.08	14.37	14.74	15.09	15.73	16.53	13.35
aily Sum fr	om Hourly	14.81	15.52	14.10	14.02	14.32	14.75	15.17	15.74	16.71	13.22

(Page 4)

1. DOE-2 Input Sample

This is an example of how to input <u>Lighting diversity factors</u> for a Large Office Building (Capitol Building, Austin, TX) into the DOE-2 program. The calculated 50^{th} **Percentile** values are used in these schedules.

\$ WEEKDAY SCHEDULE \$ WKDAY = DAY-SCHEDULE (1) (0.67) (2) (0.67) (3) (0.66) (4) (0.67) (5) (0.66) (6) (0.67) (7) (0.70) (8) (0.73) (9) (0.79) (10) (0.84) (11) (0.86) (12) (0.86) (13) (0.86) (14) (0.86) (15) (0.86) (16) (0.85) (17) (0.82) (18) (0.73) (19) (0.73) (20) (0.73) (21) (0.72) (22) (0.70) (23) (0.69) (24) (0.68) ...

\$ WEEKEND SCHEDULE \$ WKEND = DAY-SCHEDULE (1) (0.66) (2) (0.66) (3) (0.66) (4) (0.66) (5) (0.66) (6) (0.66) (7) (0.65) (8) (0.60) (9) (0.55) (10) (0.55) (11) (0.56) (12) (0.56) (13) (0.57) (14) (0.57) (15) (0.56) (16) (0.56) (17) (0.56) (18) (0.58) (19) (0.63) (20) (0.65) (21) (0.66) (22) (0.66) (23) (0.66) (24) (0.66) ...

WORK = WEEK-SCHEDULE	· /	(WE) WKEND	(HOL) WKEND
VAC = WEEK-SCHEDULE		(WE) WKEND	(HOL) WKEND
ELE-SCH = SCHEDULE	THRU JAN 1 VAC THRU JUL 4 VAC THRU NOV 24 VA THRU DEC 25 VA THRU DEC 31 VA	C THRU	JUL 3 WORK NOV 22 WORK DEC 24 WORK DEC 30 WORK

The "LIGHT-TO-SPACE" and "LIGHTING-TYPE" values shown above are for illustrative purpose. Normally, the user would select these values based on the observed characteristics (or design) for the building considered.

The "LIGHTING-W/SQFT" value shown scales, the diversity factor to maximum observed value (W/ft^2) in the building for the period of July 1, 1997 - June 30, 1998.

The input file shown uses Weekends schedules for Holidays.

The Holidays shown in the input file are: New Year's Day, U.S. Independence Day, Thanksgiving, and Christmas. This assumes the user has selected the sub-commend "HOLIDAY = NO" in the "BUILDING LOCATION" commend of the "LOADS" input file. (Page 5)

2. BLAST Input Sample

TXL012

(Page 1) Building Descriptions: (TXL012)

(This section depends on the extent of information available on each building).

Building 201:

Building Name: Sam Houston Building.

Source of Data: The Energy Systems Laboratory, Texas A&M University.

Location: Austin, Texas.

Category: Large Office Building, based on the CBECS classification.

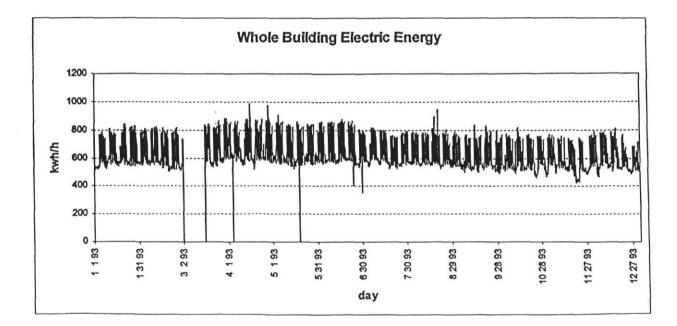
Square footage: Ten story, 182,961 ft².

Lighting EUI: $[(16.15 \text{ x } 5) + (13.43 \text{ x } 2)] \text{ x } 52 \text{ x } 5.39 = 30.18 \text{ kWh/ft}^2$.year

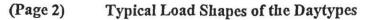
Lighting Type: Mixture of fluorescent and incandescent

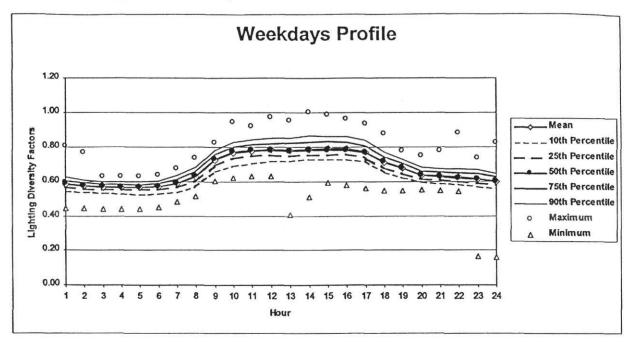
Dates: 1/1/93 - 12/31/93

Data Type: WBE = (ch0565 + ch0566 + ch0575 + ch0576 + ch0579 + ch0580) - (ch0573 + ch0574 + ch0571 + ch0572 + ch0577 + ch0578) - (ch2940 + ch2941 + ch2942 + ch2943) - (ch0567 + ch0568)

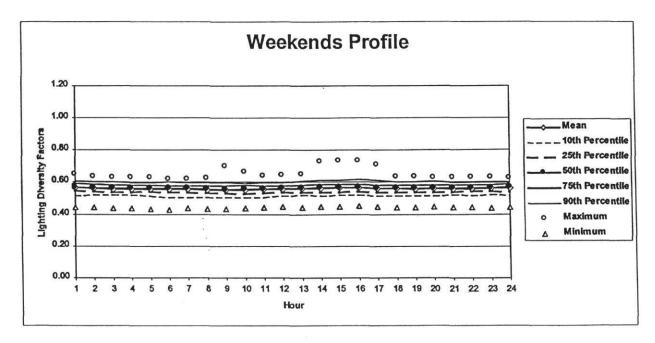


Maximum kW: 987 kW





*The dates that are excluded from the weekday profile are as follow: 1/1/93, 1/18/93, 3/2/93 - 3/16/93, 4/9/93, 9/6/93, 11/11/93, 11/25/93, 11/26/93, 12/24/93, and 12/31/93.



(Page 3) WEEKDAYS **Diversity Factors and Statistics**

[Hour	Mean	Mean+1Std	Mean-1Std	10th Perctl	25th Perctl	50th Perctl	75th Perctl	90th Perctl	Maximum	Minimum
(1.00	0.59	0.62	0.55	0.55	0.57	0.59	0.61	0.63	0.80	0.44
[2.00	0.58	0.61	0.54	0.54	0.56	0.58	0.60	0.61	0.77	0.44
[3.00	0.57	0.60	0.54	0.53	0.55	0.57	0.59	0.60	0.63	0.44
	4.00	0.57	0.60	0.54	0.53	0.55	0.57	0.59	0.60	0.63	0.44
(5.00	0.57	0.59	0.54	0.53	0.55	0.57	0.58	0.60	0.63	0.44
	6.00	0.57	0.60	0.54	0.53	0.55	0.57	0.59	0.60	0.64	0.45
[7.00	0.59	0.63	0.55	0.54	0.57	0.59	0.62	0.64	0.68	0.48
[8.00	0.63	0.67	0.59	0.57	0.60	0.63	0.66	0.69	0.73	0.51
[9.00	0.73	0.77	0.68	0.66	0.69	0.73	0.76	0.78	0.83	0.61
	10.00	0.77	0.82	0.72	0.70	0.74	0.77	0.80	0.83	0.94	0.62
[11.00	0.78	0.83	0.73	0.71	0.75	0.78	0.82	0.84	0.92	0.63
	12.00	0.79	0.84	0.74	0.72	0.76	0.78	0.82	0.85	0.97	0.63
[13.00	0.78	0.84	0.72	0.72	0.75	0.78	0.82	0.86	0.95	0.41
	14.00	0.79	0.85	0.73	0.73	0.75	0.78	0.83	0.87	1.00	0.51
	15.00	0.79	0.85	0.74	0.73	0.76	0.78	0.83	0.86	0.99	0.60
	16.00	0.79	0.84	0.74	0.73	0.76	0.78	0.83	0.86	0.96	0.58
	17.00	0.77	0.82	0.72	0.72	0.74	0.77	0.81	0.84	0.93	0.56
	18.00	0.71	0.76	0.66	0.66	0.68	0.72	0.75	0.77	0.88	0.55
	19.00	0.68	0.72	0.64	0.62	0.65	0.68	0.71	0.73	0.78	0.55
	20.00	0.64	0.68	0.60	0.60	0.62	0.64	0.66	0.68	0.75	0.55
	21.00	0.63	0.67	0.60	0.59	0.61	0.63	0.66	0.68	0.78	0.55
	22.00	0.63	0.67	0.59	0.58	0.60	0.62	0.65	0.67	0.88	0.54
	23.00	0.61	0.68	0.55	0.57	0.59	0.61	0.65	0.67	0.74	0.16
	24.00	0.60	0.66	0.54	0.56	0.58	0.60	0.63	0.65	0.82	0.16
aily Values		16.15	17.03	15.27	15.04	15.55	16.12	16.80	17.32	18.26	13.67
aily Sum f	rom Hourty	16.15	17.22	15.08	14.92	15.52	16.14	16.85	17.42	19.62	11.88
aily Value:	: The Daily res	ults as the	statistics are a	pplied on da	ly data.						

Daily Sum from Hourly: The aggregated Daily results as the statistics are applied on Hour-of-Day data.

WEEKENDS/HOLIDAYS

	Hour	Mean	Mean+1Std	Mean-1Std	10th Perctl	25th Perctl	50th Perctl	75th Perctl	90th Perctl	Maximum	Minimum
Г	1.00	0.57	0.60	0.53	0.52	0.55	0.57	0.59	0.61	0.65	0.44
	2.00	0.56	0.60	0.53	0.52	0.54	0.56	0.59	0.60	0.63	0.44
	3.00	0.56	0.59	0.52	0.52	0.54	0.56	0.58	0.60	0.63	0.44
	4.00	0.56	0.59	0.52	0.52	0.54	0.56	0.58	0.60	0.63	0.44
	5.00	0.56	0.59	0.52	0.52	0.54	0.56	0.58	0.60	0.63	0.43
	6.00	0.56	0.59	0.52	0.51	0.54	0.56	0.58	0.60	0.62	0.43
Г	7.00	0.56	0.59	0.52	0.51	0.54	0.56	0.58	0.60	0.62	0.44
	8.00	0.55	0.59	0.52	0.51	0.53	0.56	0.58	0.60	0.62	0.43
	9.00	0.55	0.59	0.51	0.51	0.53	0.55	0.58	0.60	0.70	0.43
	10.00	0.55	0.59	0.52	0.51	0.53	0.56	0.58	0.59	0.66	0.44
Г	11.00	0.56	0.59	0.52	0.51	0.53	0.56	0.58	0.60	0.64	0.44
	12.00	0.56	0.59	0.52	0.52	0.54	0.56	0.58	0.60	0.64	0.45
	13.00	0.56	0.60	0.52	0.52	0.54	0.56	0.58	0.61	0.65	0.44
Γ	14.00	0.56	0.61	0.52	0.52	0.54	0.57	0.59	0.61	0.73	0.45
	15.00	0.57	0.61	0.52	0.52	0.54	0.57	0.59	0.61	0.73	0.45
	16.00	0.57	0.61	0.53	0.52	0.54	0.57	0.59	0.62	0.73	0.45
	17.00	0.56	0.60	0.53	0.52	0.54	0.56	0.58	0.61	0.71	0.45
	18.00	0.56	0.60	0.53	0.52	0.54	0.56	0.58	0.60	0.63	0.44
Γ	19.00	0.56	0.59	0.53	0.52	0.54	0.56	0.58	0.60	0.63	0.44
	20.00	0.56	0.60	0.53	0.52	0.54	0.56	0.58	0.61	0.63	0.45
	21.00	0.56	0.59	0.53	0.52	0.54	0.56	0.58	0.60	0.63	0.44
E	22.00	0.56	0.59	0.53	0.52	0.54	0.56	0.58	0.60	0.63	0.44
	23.00	0.56	0.60	0.53	0.52	0.54	0.56	0.58	0.60	0.63	0.44
	24.00	0.56	0.60	0.53	0.52	0.54	0.57	0.59	0.60	0.62	0.44
aily Values	1	13.43	14.24	12.62	12.46	12.90	13.54	14.00	14.43	14.99	10.6
aily Sum fro	om Hourly	13.44	14.31	12.56	12.41	12.92	13.51	13.99	14.45	15.60	10.6

Daily Va

Daily Values: The Daily results as the statistics are applied on daily data. Daily Sum from Hourly: The aggregated Daily results as the statistics are applied on Hour-of-Day data.

(Page 4)

1. DOE-2 Input Sample

This is an example of how to input <u>Lighting diversity factors</u> for a Large Office Building (Sam Houston Bldg., Austin, TX) into the DOE-2 program. The calculated 50^{th} Percentile values are used in these schedules.

\$ WEEKDAY SCHEDULE \$ WKDAY = DAY-SCHEDULE (1) (0.59) (2) (0.58) (3) (0.57) (4) (0.57) (5) (0.57) (6) (0.57) (7) (0.59) (8) (0.63) (9) (0.73) (10) (0.77) (11) (0.78) (12) (0.78) (13) (0.78) (14) (0.78) (15) (0.78) (16) (0.78) (17) (0.77) (18) (0.72) (19) (0.68) (20) (0.64) (21) (0.63) (22) (0.62) (23) (0.61) (24) (0.60) ...

\$ WEEKEND SCHEDULE \$ WKEND = DAY-SCHEDULE (1) (0.57) (2) (0.56) (3) (0.56) (4) (0.56) (5) (0.56) (6) (0.56) (7) (0.56) (8) (0.56) (9) (0.56) (10) (0.56) (11) (0.56) (12) (0.56) (13) (0.56) (14) (0.57) (15) (0.57) (16) (0.57) (17) (0.56) (18) (0.56) (19) (0.56) (20) (0.56) (21) (0.56) (22) (0.56) (23) (0.56) (24) (0.57) ...

WORK = WEEK-SCHEDULE		(WE) WKEND	(HOL) WKEND
VAC = WEEK-SCHEDULE		(WE) WKEND	(HOL) WKEND
ELE-SCH = SCHEDULE	THRU JAN 1 VAC THRU JUL 4 VAC THRU NOV 24 VA THRU DEC 25 VAC THRU DEC 31 VAC	C THRU	JUL 3 WORK NOV 22 WORK DEC 24 WORK DEC 30 WORK

G-ZONE = SPACE-CONDITIONS LIGHTING-SCHEDULE = ELE-SCH LIGHTING-TYPE = REC-FLUOR-RV LIGHT-TO-SPACE = 0.8 LIGHTING-W/SQFT = 5.39 ..

The "LIGHT-TO-SPACE" and "LIGHTING-TYPE" values shown above are for illustrative purpose. Normally, the user would select these values based on the observed characteristics (or design) for the building considered.

The "LIGHTING-W/SQFT" value shown scales, the diversity factor to maximum observed value (W/ft^2) in the building for the period of Jan 1, 1993 - Dec 31, 1993.

The input file shown uses Weekends schedules for Holidays.

The Holidays shown in the input file are: New Year's Day, U.S. Independence Day, Thanksgiving, and Christmas. This assumes the user has selected the sub-commend "HOLIDAY = NO" in the "BUILDING LOCATION" commend of the "LOADS" input file. (Page 5)

2. BLAST Input Sample

TXM001

(Page 1) Building Descriptions: (TXM001)

(This section depends on the extent of information available on each building).

Building 205:

Building Name: James E. Rudder Building.

Source of Data: The Energy Systems Laboratory, Texas A&M University.

Location: Austin, Texas.

Category: Medium Office Building, based on the CBECS classification.

Square footage: Six story, 80,000 ft².

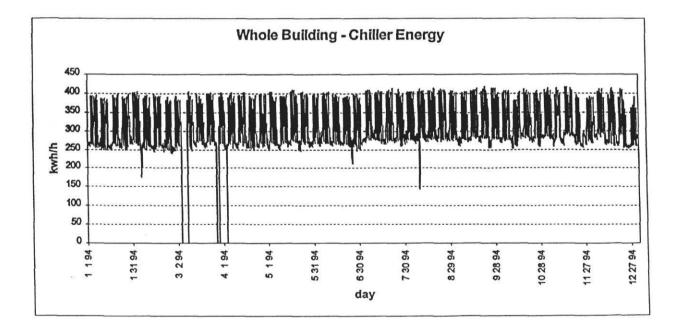
Lighting EUI: $[(19.14 \text{ x 5}) + (15.59 \text{ x 2})] \text{ x } 52 \text{ x } 5.22 = 34.42 \text{ kWh/ft}^2.year$

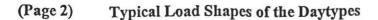
Lighting Type: 100% fluorescent (34-W)

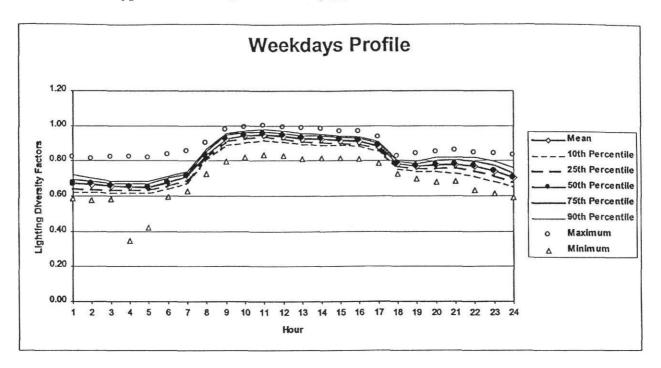
Dates: 1/1/94 - 12/31/94

Data Type: Lighting + receptacles = WBE - Chillers = ch0213 - ch0212

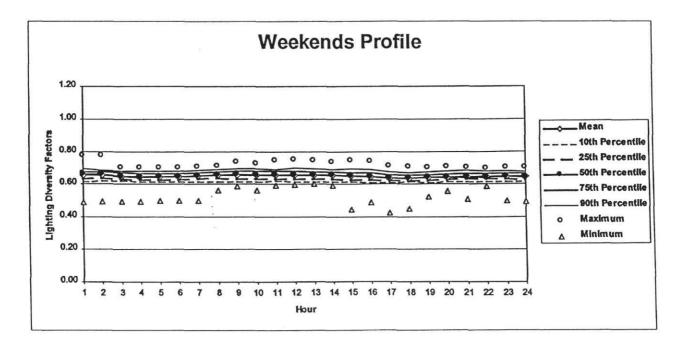
Maximum kW: 417 kW







*The dates that are excluded from the weekday profile are as follow: 1/17/94, 2/21/94, 5/30/94, 7/4/94, 9/5/94, 11/11/94, 11/24/94, 11/25/94, and 12/26/94.



(Page 3) WEEKDAYS **Diversity Factors and Statistics**

	Hour	Mean	Mean+1Std	Mean-1Std	10th Perctl	25th Perctl	50th Perctl	75th Perctl	90th Percti	Maximum	Minimun
	1.00	0.67	0.72	0.63	0.62	0.64	0.67	0.69	0.72	0.82	0.59
	2.00	0.67	0.70	0.63	0.62	0.64	0.67	0.68	0.70	0.81	0.58
	3.00	0.65	0.68	0.62	0.62	0.63	0.66	0.67	0.69	0.82	0.58
	4.00	0.65	0.69	0.61	0.62	0.63	0.65	0.67	0.68	0.82	0.35
	5.00	0.65	0.68	0.62	0.62	0.63	0.65	0.67	0.69	0.81	0.42
	6.00	0.68	0.71	0.65	0.64	0.66	0.67	0.70	0.71	0.83	0.59
	7.00	0.71	0.74	0.68	0.68	0.69	0.71	0.73	0.74	0.85	0.63
	8.00	0.83	0.86	0.81	0.80	0.81	0.83	0.85	0.87	0.90	0.72
	9.00	0.92	0.95	0.90	0.89	0.91	0.92	0.95	0.96	0.98	0.79
	10.00	0.94	0.97	0.91	0.91	0.93	0.94	0.96	0.97	0.99	0.82
	11.00	0.95	0.98	0.92	0.92	0.94	0.95	0.97	0.98	1.00	0.84
Γ	12.00	0.94	0.97	0.91	0.91	0.92	0.94	0.96	0.97	0.99	0.83
Г	13.00	0.93	0.95	0.90	0.90	0.91	0.93	0.94	0.95	0.98	0.81
Γ	14.00	0.92	0.95	0.90	0.89	0.91	0.92	0.94	0.95	0.98	0.81
Γ	15.00	0.92	0.94	0.89	0.89	0.90	0.92	0.93	0.94	0.97	0.82
Г	16.00	0.91	0.93	0.89	0.88	0.90	0.91	0.93	0.94	0.97	0.81
Γ	17.00	0.88	0.91	0.86	0.86	0.87	0.88	0.90	0.91	0.93	0.79
Γ	18.00	0.78	0.80	0.76	0.76	0.77	0.78	0.80	0.81	0.83	0.72
Г	19.00	0.77	0.79	0.75	0.74	0.75	0.77	0.78	0.80	0.84	0.70
Γ	20.00	0.78	0.81	0.75	0.74	0.75	0.78	0.80	0.82	0.85	0.68
Г	21.00	0.78	0.81	0.74	0.73	0.76	0.78	0.81	0.82	0.86	0.68
Г	22.00	0.77	0.81	0.73	0.71	0.74	0.77	0.80	0.82	0.84	0.63
Γ	23.00	0.74	0.78	0.70	0.68	0.71	0.74	0.77	0.80	0.84	0.61
	24.00	0.70	0.74	0.66	0.65	0.68	0.70	0.73	0.76	0.83	0.59
aily Values		19.14	19.66	18.62	18.48	18.79	19.15	19.50	19.76	21.04	17.39
ally Sum for	om Hourty	19.14	19.87	18.42	18.27	18.68	19.15	19.63	19,99	21.33	16.41

Daily Sum from Hourly: The aggregated Daily results as the statistics are applied on Hour-of-Day data.

WEEKENDS/HOLIDAYS

	Hour	Mean	Mean+1Std	Mean-1Std	10th Perctl	25th Perctl	50th Perctl	75th Perctl	90th Perctl	Maximum	Minimum
	1.00	0.66	0.70	0.62	0.62	0.63	0.66	0.68	0.70	0.78	0.49
	2.00	0.66	0.69	0.62	0.62	0.64	0.66	0.68	0.69	0.78	0.49
	3.00	0.65	0.68	0.62	0.62	0.63	0.65	0.67	0.68	0.70	0.49
	4.00	0.65	0.68	0.62	0.62	0.63	0.64	0.67	0.68	0.70	0.49
Г	5.00	0.65	0.68	0.62	0.62	0.63	0.65	0.67	0.68	0.70	0.50
- E	6.00	0.65	0.68	0.62	0.62	0.63	0.65	0.67	0.68	0.70	0.50
Г	7.00	0.65	0.68	0.62	0.62	0.63	0.65	0.67	0.69	0.71	0.50
	8.00	0.66	0.68	0.63	0.62	0.64	0.66	0.68	0.69	0.71	0.56
Г	9.00	0.66	0.69	0.63	0.62	0.63	0.66	0.68	0,70	0.74	0.59
	10.00	0.66	0.69	0.63	0.62	0.63	0.66	0.68	0.70	0.73	0.56
	11.00	0.66	0.69	0.63	0.62	0.63	0.66	0.68	0.69	0.75	0.59
	12.00	0.66	0.69	0.63	0.62	0.63	0.66	0.68	0.70	0.75	0.60
Г	13.00	0.66	0.69	0.63	0.62	0.63	0.66	0.68	0.70	0.75	0.60
Г	14.00	0.66	0.69	0.62	0.62	0.63	0.66	0.68	0.69	0.74	0.59
	15.00	0.65	0.69	0.61	0.62	0.63	0.65	0.67	0.70	0.75	0.44
	16.00	0.65	0.68	0.62	0.61	0.63	0.65	0.67	0.69	0.74	0.49
	17.00	0.64	0.67	0.61	0.61	0.62	0.64	0.66	0.68	0.71	0.42
Г	18.00	0.64	0.67	0.61	0.61	0.62	0.64	0.66	0.67	0.71	0.45
Г	19.00	0.64	0.67	0.61	0.61	0.62	0.64	0.66	0.68	0.70	0.52
Г	20.00	0.64	0.67	0.62	0.62	0.63	0.64	0.66	0.68	0.70	0.56
	21.00	0.65	0.67	0.62	0.62	0.63	0.64	0.67	0.69	0.70	0.51
Г	22.00	0.65	0.67	0.62	0.62	0.63	0.64	0.67	0.68	0.70	0.59
	23.00	0.65	0.68	0.62	0.62	0.63	0.65	0.67	0.68	0.70	0.50
	24.00	0.65	0.68	0.62	0.62	0.63	0.64	0.67	0.68	0.70	0.49
Daily Values		15.59	16.24	14.94	14.80	15.22	15.60	16.02	16.43	16.80	13.60
Daily Sum fro	om Hourty	15.61	16.35	14.87	14.81	15.12	15.60	16.10	16.49	17.35	12.52
Jaily Values	The Daily re:	sults as the	statistics are a	h no beiloor	ally data	States of the second	State of the local division of the local div				

(Page 4)

1. DOE-2 Input Sample

This is an example of how to input <u>Lighting diversity factors</u> for a Large Office Building (James E. Rudder Bldg., Austin, TX) into the DOE-2 program. The calculated 50^{th} Percentile values are used in these schedules.

\$ WEEKDAY SCHEDULE \$ WKDAY = DAY-SCHEDULE (1) (0.67) (2) (0.67) (3) (0.66) (4) (0.65) (5) (0.65) (6) (0.67) (7) (0.71) (8) (0.83) (9) (0.92) (10) (0.94) (11) (0.95) (12) (0.94) (13) (0.93) (14) (0.92) (15) (0.92) (16) (0.91) (17) (0.88) (18) (0.78) (19) (0.77) (20) (0.78) (21) (0.78) (22) (0.77) (23) (0.74) (24) (0.70) ...

\$ WEEKEND SCHEDULE \$
WKEND = DAY-SCHEDULE
(1) (0.66) (2) (0.66) (3) (0.65) (4) (0.64) (5) (0.65) (6) (0.65)
(7) (0.65) (8) (0.66) (9) (0.66) (10) (0.66) (11) (0.66) (12) (0.66)
(13) (0.66) (14) (0.66) (15) (0.65) (16) (0.65) (17) (0.64) (18) (0.64)
(19) (0.64) (20) (0.64) (21) (0.64) (22) (0.64) (23) (0.65) (24) (0.64) ...

WORK = WEEK-SCHEDULE		(WE) WKEND	(HOL) WKEND
VAC = WEEK-SCHEDULE		(WE) WKEND	(HOL) WKEND
ELE-SCH = SCHEDULE	THRU JAN 1 VAC THRU JUL 4 VAC THRU NOV 24 VA THRU DEC 25 VA THRU DEC 31 VA	C THRU C THRU C THRU	JUL 3 WORK NOV 22 WORK DEC 24 WORK DEC 30 WORK

G-ZONE = SPACE-CONDITIONS LIGHTING-SCHEDULE = ELE-SCH LIGHTING-TYPE = REC-FLUOR-RV LIGHT-TO-SPACE = 0.8 LIGHTING-W/SQFT = 5.22 ..

The "LIGHT-TO-SPACE" and "LIGHTING-TYPE" values shown above are for illustrative purpose. Normally, the user would select these values based on the observed characteristics (or design) for the building considered.

The "LIGHTING-W/SQFT" value shown scales, the diversity factor to maximum observed value (W/ft^2) in the building for the period of Jan 1- Dec 31, 1994.

The input file shown uses Weekends schedules for Holidays.

The Holidays shown in the input file are: New Year's Day, U.S. Independence Day, Thanksgiving, and Christmas. This assumes the user has selected the sub-commend "HOLIDAY = NO" in the "BUILDING LOCATION" commend of the "LOADS" input file. (Page 5)

2. BLAST Input Sample

TXM002

(Page 1) Building Descriptions: (TXM002)

(This section depends on the extent of information available on each building).

Building 207:

Building Name: Insurance Annex.

Source of Data: The Energy Systems Laboratory, Texas A&M University.

Location: Austin, Texas.

Category: Medium Office Building, based on the CBECS classification.

Square footage: Four story, 62,000 ft².

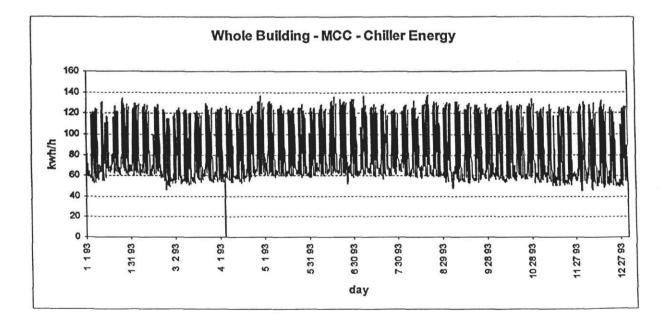
Lighting EUI: $[(15.92 \times 5) + (10.74 \times 2)] \times 52 \times 2.21 = 11.63 \text{ kWh/ft}^2$.year

Lighting Type: 100% fluorescent.

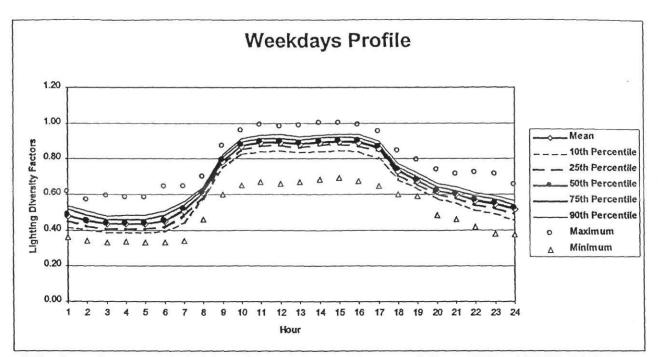
Dates: 1/1/93 - 12/31/93

Data Type: Lighting + receptacles = WBE - MCC - Chiller = ch0218 - ch0217 - ch0216

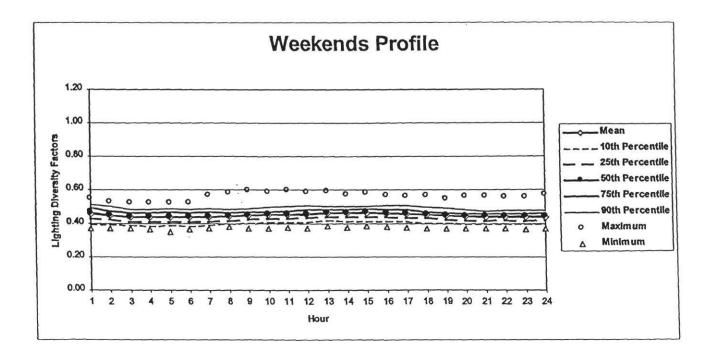
Maximum kW: 137 kW



(Page 2) Typical Load Shapes of the Daytypes



*The dates that are excluded from the weekday profile are as follow: 1/1/93, 1/18/93, 9/6/93, 5/31/93, 11/11/93, 11/11/93, 11/25/93, 11/26/93, 12/24/93, and 12/31/93.



	Hour	Mean	Mean+1Std	Mean-1Std	10th Perct	25th Perctl	50th Perctl	75th Perctl	90th Perctl	Maximum	Minimum
	1.00	0.48	0.53	0.43	0.42	0.45	0.48	0.51	0.54	0.62	0.36
	2.00	0.45	0.49	0.41	0.40	0.42	0.45	0.48	0.51	0.57	0.34
	3.00	0.43	0.47	0.40	0.39	0.41	0.44	0.46	0.48	0.59	0.33
	4.00	0.43	0.47	0.40	0.39	0.41	0.44	0.46	0.48	0.58	0.34
	5.00	0.43	0.47	0.40	0.39	0.41	0.44	0.46	0.48	0.58	0.33
Ľ	6.00	0.45	0.50	0.41	0.40	0.42	0.45	0.48	0.51	0.64	0.33
	7.00	0.51	0.55	0.46	0.44	0.48	0.51	0.54	0.56	0.64	0.34
	8.00	0.61	0.64	0.58	0.57	0.59	0.61	0.63	0.64	0.70	0.46
[9.00	0.79	0.82	0.75	0.75	0.77	0.79	0.81	0.82	0.87	0.60
	10.00	0.87	0.91	0.83	0.83	0.85	0.88	0.90	0.91	0.96	0.65
	11.00	0.89	0.93	0.85	0.84	0.87	0.89	0.91	0.94	0.99	0.67
Γ	12.00	0.89	0.93	0.85	0.85	0.88	0.90	0.92	0.94	0.98	0.66
	13.00	0.88	0.92	0.84	0.84	0.86	0.88	0.91	0.92	0.99	0.67
Γ	14.00	0.89	0.93	0.85	0.84	0.88	0.89	0.92	0.93	1.00	0.69
	15.00	0.90	0.94	0.85	0.85	0.88	0.90	0.92	0.94	1.00	0.70
	16.00	0.89	0.94	0.85	0.84	0.87	0.90	0.92	0.94	0.99	0.68
Г	17.00	0.86	0.90	0.81	0.80	0.84	0.87	0.88	0.90	0.95	0.65
	18.00	0.73	0.77	0.70	0.68	0.71	0.74	0.76	0.77	0.84	0.60
	19.00	0.68	0.71	0.64	0.64	0.66	0.68	0.70	0.72	0.79	0.59
	20.00	0.62	0.66	0.59	0.58	0.60	0.62	0.64	0.66	0.73	0.48
	21.00	0.60	0.64	0.56	0.55	0.58	0.60	0.62	0.64	0.71	0.46
E	22.00	0.56	0.61	0.52	0.51	0.54	0.57	0.59	0.61	0.72	0.42
	23.00	0.54	0.59	0.50	0.49	0.52	0.55	0.57	0.59	0.71	0.38
	24.00	0.51	0.56	0.47	0.46	0.49	0.52	0.54	0.56	0.65	0.38
aily Values		15.92	16.61	15.23	15.15	15.57	15.99	16.39	16.65	17.84	13.38
aily Sum fro	m Hourty	15.92	16.89	14.94	14.76	15.38	15.99	16.53	17.00	18.80	12.10

(Page 3) Diversity Factors and Statistics WEEKDAYS

Daily Sum from Hourly: The aggregated Daily results as the statistics are applied on Hour-of-Day data.

WEEKENDS/HOLIDAYS

	Hour	Mean	Mean+1Std	Mean-1Std	10th Perctl	25th Perctl	50th Perctl	75th Perctl	90th Perctl	Maximum	Minimun
	1.00	0.46	0.50	0.42	0.39	0.43	0.46	0.49	0.51	0.55	0.37
	2.00	0.45	0.49	0.41	0.39	0.42	0.45	0.48	0.50	0.53	0.37
	3.00	0.44	0.47	0.40	0.39	0.41	0.44	0.46	0.48	0.52	0.37
	4.00	0.44	0.47	0.40	0.38	0.41	0.44	0.46	0.48	0.52	0.36
	5.00	0.44	0.48	0.40	0.39	0.41	0.44	0.47	0.49	0.52	0.35
	6.00	0.44	0.48	0.40	0.39	0.41	0.44	0.46	0.49	0.52	0.36
	7.00	0.44	0.48	0.40	0.39	0.41	0.44	0.47	0.49	0.57	0.37
	8.00	0.44	0.48	0.41	0.40	0.42	0.44	0.46	0.48	0.58	0.38
Г	9.00	0.45	0.48	0.41	0.40	0.42	0.45	0.47	0.49	0.60	0.37
	10.00	0.45	0.49	0.41	0.41	0.43	0.45	0.47	0.50	0.59	0.37
Γ	11.00	0.45	0.49	0.42	0.41	0.43	0.45	0.47	0.50	0.60	0.37
Г	12.00	0.46	0.50	0.42	0.41	0.43	0.45	0.48	0.51	0.59	0.37
Г	13.00	0.46	0.50	0.43	0.42	0.44	0.46	0.48	0.50	0.59	0.38
	14.00	0.46	0.50	0.43	0.42	0.44	0.46	0.49	0.50	0.57	0.38
Γ	15.00	0.46	0.50	0.43	0.41	0.44	0.47	0.49	0.51	0.58	0.38
	16.00	0.46	0.50	0.43	0.41	0.44	0.46	0.48	0.51	0.57	0.38
	17.00	0.46	0.50	0.42	0.41	0.43	0.46	0.48	0.51	0.56	0.37
	18.00	0.45	0.49	0.42	0.40	0.43	0.45	0.47	0.50	0.57	0.37
	19.00	0.45	0.48	0.41	0.40	0.43	0.45	0.46	0.49	0.55	0.37
	20.00	0.44	0.48	0.41	0.40	0.42	0.45	0.46	0.48	0.56	0.37
	21.00	0.44	0.47	0.41	0.40	0.42	0.44	0.46	0.47	0.56	0.3
Γ	22.00	0.44	0.47	0.41	0.40	0.42	0.44	0.46	0.48	0.56	0.37
	23.00	0.44	0.47	0.41	0.40	0.42	0.44	0.46	0.48	0.56	0.30
	24.00	0.44	0.48	0.41	0.40	0.42	0.44	0.46	0.48	0.57	0.3
ily Values		10.74	11.51	9.97	9.73	10.20	10.81	11.25	11.61	12.89	8.9
illy Sum fro	m Hourly	10.76	11.63	9.88	9.60	10.15	10.78	11.29	11.83	13.50	8.8

Daily Sum from Hourly: The aggregated Daily results as the statistics are applied on Hour-of-Day data.

(Page 4)

1. DOE-2 Input Sample

This is an example of how to input <u>Lighting diversity factors</u> for a Large Office Building (Insurance Annex, Austin, TX) into the DOE-2 program. The calculated 50^{th} Percentile values are used in these schedules.

\$ WEEKDAY SCHEDULE \$ WKDAY = DAY-SCHEDULE (1) (0.48) (2) (0.45) (3) (0.44) (4) (0.44) (5) (0.44) (6) (0.45) (7) (0.51) (8) (0.61) (9) (0.79) (10) (0.88) (11) (0.89) (12) (0.90) (13) (0.88) (14) (0.89) (15) (0.90) (16) (0.90) (17) (0.87) (18) (0.74) (19) (0.68) (20) (0.62) (21) (0.60) (22) (0.57) (23) (0.55) (24) (0.52) ...

\$ WEEKEND SCHEDULE \$ WKEND = DAY-SCHEDULE (1) (0.46) (2) (0.45) (3) (0.44) (4) (0.44) (5) (0.44) (6) (0.44) (7) (0.44) (8) (0.44) (9) (0.45) (10) (0.45) (11) (0.45) (12) (0.45) (13) (0.46) (14) (0.46) (15) (0.47) (16) (0.46) (17) (0.46) (18) (0.45) (19) (0.45) (20) (0.45) (21) (0.44) (22) (0.44) (23) (0.44) (24) (0.44) ...

WORK = WEEK-SCHEDULE	····/	(WE) WKEND	(HOL) WKEND
VAC = WEEK-SCHEDULE		(WE) WKEND	(HOL) WKEND
ELE-SCH = SCHEDULE	THRU JAN 1 VAC THRU JUL 4 VAC THRU NOV 24 VA THRU DEC 25 VA THRU DEC 31 VA	C THRU C THRU C THRU	JUL 3 WORK NOV 22 WORK DEC 24 WORK DEC 30 WORK

G-ZONE = SPACE-CONDITIONS LIGHTING-SCHEDULE = ELE-SCH LIGHTING-TYPE = REC-FLUOR-RV LIGHT-TO-SPACE = 0.8 LIGHTING-W/SQFT = 2.21 ..

The "LIGHT-TO-SPACE" and "LIGHTING-TYPE" values shown above are for illustrative purpose. Normally, the user would select these values based on the observed characteristics (or design) for the building considered.

The "LIGHTING-W/SQFT" value shown scales, the diversity factor to maximum observed value (W/ft^2) in the building for the period of Jan 1- Dec 31, 1993.

The input file shown uses Weekends schedules for Holidays.

The Holidays shown in the input file are: New Year's Day, U.S. Independence Day, Thanksgiving, and Christmas. This assumes the user has selected the sub-commend "HOLIDAY = NO" in the "BUILDING LOCATION" commend of the "LOADS" input file. (Page 5)

2. BLAST Input Sample

TXM003

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(Page 1) Building Descriptions: (TXM003)

(This section depends on the extent of information available on each building).

Building 226:

Building Name: Central Services Building.

Source of Data: The Energy Systems Laboratory, Texas A&M University.

Location: Austin, Texas.

Category: Medium Office Building, based on the CBECS classification.

Square footage: Four story, 97,030 ft².

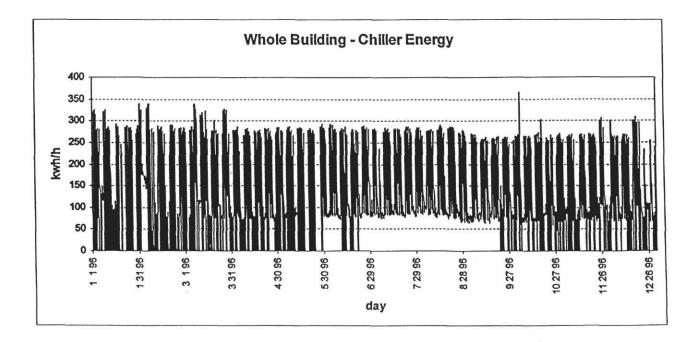
Lighting EUI: $[(11.54 \times 5) + (5.68 \times 2)] \times 52 \times 3.76 = 13.49 \text{ kWh/ft}^2$.year

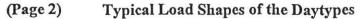
Lighting Type: 100% fluorescent.

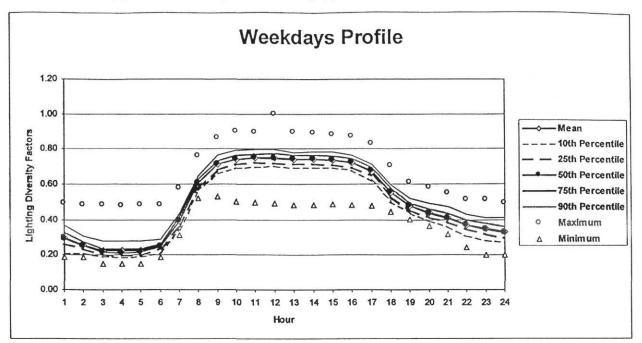
Dates: 1/1/96 - 12/31/96

Data Type: WBE - Chillers = ch2209 - (ch2205 + ch2206 + ch2207 + ch2208)

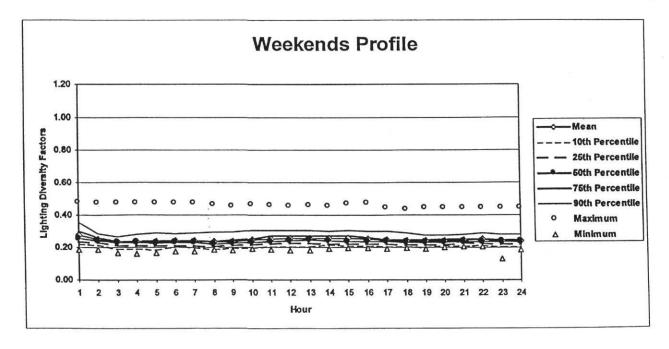
Maximum kW: 365 kW







*The dates that are excluded from the weekday profile are as follow: 1/1/96, 1/15/96, 2/2/96, 2/2/96, 2/19/96, 5/27/96/, 7/4/96, 9/2/96, 11/28/96, 11/29/96, and 12/23 - 26/96.



	Hour	Mean	Mean+1Std	Mean-1Std	10th Perctl	25th Perctl	50th Perctl	75th Perctl	90th Perctl	Maximum	Minimum
	1.00	0.30	0.36	0.24	0.21	0.26	0.30	0.33	0.37	0.49	0.19
	2.00	0.26	0.30	0.21	0.21	0.23	0.25	0.27	0.31	0.48	0.19
	3.00	0.22	0.27	0.18	0.19	0.20	0.21	0.23	0.28	0.48	0.15
	4.00	0.22	0.27	0.18	0.19	0.20	0.21	0.23	0.28	0.48	0.15
_	5.00	0.22	0.27	0.18	0.19	0.20	0.22	0.23	0.28	0.48	0.15
	6.00	0.25	0.29	0.21	0.21	0.23	0.25	0.26	0.29	0.48	0.19
-	7.00	0.39	0.44	0.35	0.34	0.36	0.39	0.42	0.44	0.58	0.31
-	8.00	0.61	0.65	0.57	0.56	0.58	0.61	0.63	0.65	0.76	0.52
-	9.00	0.71	0.76	0.66	0.66	0.68	0.71	0.73	0.76	0.86	0.53
-	10.00	0.74	0.79	0.69	0.69	0.71	0.74	0.76	0.79	0.90	0.50
-	11.00	0.75	0.80	0.70	0.70	0.72	0.75	0.77	0.80	0.89	0.50
-	12.00	0.75	0.80	0.70	0.70	0.72	0.75	0.77	0.80	1.00	0.49
-	13.00	0.74	0.79	0.69	0.69	0.71	0.74	0.76	0.78	0.89	0.48
-	14.00	0.74	0.79	0.69	0.70	0.71	0.74	0.76	0.78	0.89	0.48
-	15.00	0.74	0.78	0.69	0.69	0.71	0.74	0.76	0.78	0.88	0.49
-	16.00	0.72	0.77	0.67	0.68	0.69	0.72	0.74	0.76	0.87	0.48
-	17.00	0.67	0.72	0.62	0.62	0.64	0.67	0.70	0.71	0.83	0.48
H	18.00	0.55	0.60	0.51	0.50	0.53	0.55	0.58	0.60	0.71	0.44
	20.00	0.46	0.48	0.44	0.44	0.40	0.46	0.49	0.49	0.58	0.40
	21.00	0.41	0.46	0.40	0.35	0.38	0.41	0.43	0.43	0.55	0.32
F	22.00	0.37	0.40	0.32	0.31	0.35	0.37	0.40	0.43	0.51	0.24
	23.00	0.35	0.40	0.30	0.29	0.32	0.35	0.38	0.41	0.51	0.20
	24.00	0.34	0.39	0.28	0.28	0.30	0.33	0.36	0.41	0.49	0.20
aily Values		11.54	12.73	10.35	9.93	10.96	11.68	12.35	12.65	13.98	5.29
aily Sum from	n Hourty The Daily res	11.98	13.09 atistics are a	10.87	10.81	11.31	11.91	12.48	13.21	16.22	8.46
Daily Sum from Daily Values: Daily Sum from	The Daily res m Hourty: The	11.98 sults as the st e aggregated	13.09 atistics are a Daily results	10.87 oplied on da	10.81 ily data.	11.31	11.91	12.48	13.21	16.22	8.46
aily Sum from aily Values: Daily Sum from	The Daily res m Hourty: The NDS/HO	11.98 suits as the st e aggregated LIDAYS	13.09 atistics are a Daily results	10.87 oplied on da as the statis	10.81 ily data. stics are appl	11.31 ied on Hour-c	11.91 of-Day data.				
aily Sum from aily Values: aily Sum from	The Daily res m Hourty: The	11.98 sults as the st e aggregated	13.09 atistics are a Daily results	10.87 oplied on da as the statis	10.81 ily data. stics are appl	11.31	11.91	12.48 75th Perctl		16.22 Maximum	8.46 Minimu
aily Sum from aily Values: aily Sum from	The Daily res m Hourly: The NDS/HO Hour 1.00	11.98 sults as the st e aggregated LIDAYS Mean 0.27	13.09 atistics are a Daily results Mean+1Std 0.33	10.87 pplied on da as the statis Mean-1Std 0.21	10.81 ily data. stics are appl	11.31 ied on Hour-c 25th Perctl 0.23	11.91 of-Day data. 50th Perctl 0.25	75th Perctl 0.30	90th Perctl 0.36	Maximum 0.48	Minimu 0.18
aily Sum from aily Values: aily Sum from	The Daily res n Hourty: The NDS/HO Hour 1.00 2.00	11.98 sults as the st e aggregated LIDAYS Mean 0.27 0.25	13.09 atistics are a Daily results Mean+1Std 0.33 0.30	10.87 oplied on da as the statis Mean-1Std 0.21 0.20	10.81 ily data. stics are appl 10th Perctl 0.22 0.22	11.31 ied on Hour-o 25th Perctl 0.23 0.23	11.91 of-Day data. 50th Perctl 0.25 0.24	75th Perctl 0.30 0.26	90th Perctl 0.36 0.28	Maximum 0.48 0.47	Minimu 0.18 0.18
aily Sum from aily Values: aily Sum from	The Daily res n Hourty: The NDS/HO Hour 1.00 2.00 3.00	11.98 sults as the st e aggregated LIDAYS Mean 0.27 0.25 0.23	13.09 atistics are a Daily results Mean+1Std 0.33 0.30 0.29	10.87 oplied on da as the statis Mean-1Std 0.21 0.20 0.18	10.81 ily data. stics are appl 10th Perctl 0.22 0.22 0.19	11.31 ied on Hour-o 25th Perctl 0.23 0.23 0.21	11.91 of-Day data. 50th Perctl 0.25 0.24 0.23	75th Perctl 0.30 0.26 0.24	90th Perctl 0.36 0.28 0.27	Maximum 0.48 0.47 0.47	Minimu 0.18 0.18 0.16
aily Sum from aily Values: aily Sum from	The Daily res m Hourly: The NDS/HO Hour 1.00 2.00 3.00 4.00	11.98 sults as the st e aggregated LIDAYS Mean 0.27 0.25 0.23 0.23	13.09 atistics are a Daily results Mean+1Std 0.33 0.30 0.29 0.29	10.87 pplied on da as the statis Mean-1Std 0.21 0.20 0.18 0.18	10.81 ily data. stics are appl 10th Perctl 0.22 0.22 0.19 0.19	11.31 ied on Hour-c 25th Perctl 0.23 0.23 0.21 0.21	11.91 of-Day data. 50th Perctl 0.25 0.24 0.23 0.23	75th Perctl 0.30 0.26 0.24 0.24	90th Perctl 0.36 0.28 0.27 0.28	Maximum 0.48 0.47 0.47 0.47	Minimu 0.18 0.18 0.16 0.16
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(Page 3) WEEKDA **Diversity Factors and Statistics**

Daily Values: The Daily results as the statistics are applied on daily data. Daily Sum from Hourly: The aggregated Daily results as the statistics are applied on Hour-of-Day data.

(Page 4)

1. DOE-2 Input Sample

This is an example of how to input <u>Lighting diversity factors</u> for a Large Office Building (Central Services Building, Austin, TX) into the DOE-2 program. The calculated 50^{th} Percentile values are used in these schedules.

\$ WEEKDAY SCHEDULE \$ WKDAY = DAY-SCHEDULE (1) (0.30) (2) (0.25) (3) (0.21) (4) (0.21) (5) (0.22) (6) (0.25) (7) (0.39) (8) (0.61) (9) (0.71) (10) (0.74) (11) (0.75) (12) (0.75) (13) (0.74) (14) (0.74) (15) (0.74) (16) (0.72) (17) (0.67) (18) (0.55) (19) (0.48) (20) (0.44) (21) (0.41) (22) (0.37) (23) (0.35) (24) (0.33) ...

\$ WEEKEND SCHEDULE \$
WKEND = DAY-SCHEDULE
(1) (0.25) (2) (0.24) (3) (0.23) (4) (0.23) (5) (0.23) (6) (0.23)
(7) (0.23) (8) (0.22) (9) (0.22) (10) (0.23) (11) (0.24) (12) (0.24)
(13) (0.24) (14) (0.24) (15) (0.23) (16) (0.23) (17) (0.23) (18) (0.23)
(19) (0.23) (20) (0.23) (21) (0.23) (22) (0.23) (23) (0.23) (24) (0.23) ...

WORK = WEEK-SCHEDULE	(WD) WKDAY	(WE) WKEND	(HOL) WKEND
VAC = WEEK-SCHEDULE	(WD) WKEND	(WE) WKEND	(HOL) WKEND
ELE-SCH = SCHEDULE	THRU JAN 1 VAC THRU JUL 4 VAC THRU NOV 24 VA THRU DEC 25 VA THRU DEC 31 VA	C THRU AC THRU AC THRU	JUL 3 WORK NOV 22 WORK DEC 24 WORK DEC 30 WORK

G-ZONE = SPACE-CONDITIONS LIGHTING-SCHEDULE = ELE-SCH LIGHTING-TYPE = REC-FLUOR-RV LIGHT-TO-SPACE = 0.8 LIGHTING-W/SQFT = 3.76 ..

The "LIGHT-TO-SPACE" and "LIGHTING-TYPE" values shown above are for illustrative purpose. Normally, the user would select these values based on the observed characteristics (or design) for the building considered.

The "LIGHTING-W/SQFT" value shown scales, the diversity factor to maximum observed value (W/ft^2) in the building for the period of Jan 1- Dec 31, 1996.

The input file shown uses Weekends schedules for Holidays.

The Holidays shown in the input file are: New Year's Day, U.S. Independence Day, Thanksgiving, and Christmas. This assumes the user has selected the sub-commend "HOLIDAY = NO" in the "BUILDING LOCATION" commend of the "LOADS" input file.

(Page 5)

2. BLAST Input Sample

TXM004

(Page 1) Building Descriptions: (TXM004)

(This section depends on the extent of information available on each building).

Building 227:

Building Name: Supreme Court Building.

Source of Data: The Energy Systems Laboratory, Texas A&M University.

Location: Austin, Texas.

Category: Medium Office Building, based on the CBECS classification.

Square footage: Five story, 72,737 ft².

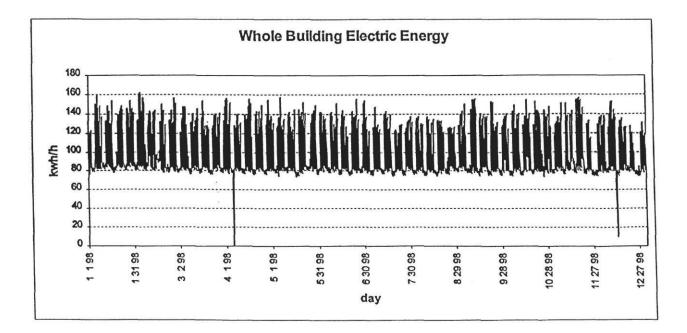
Lighting EUI: $[(15.35 \times 5) + (11.96 \times 2)] \times 52 \times 2.22 = 11.64 \text{ kWh/ft}^2$.year

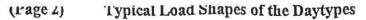
Lighting Type: Mixture of fluorescent and incandescent

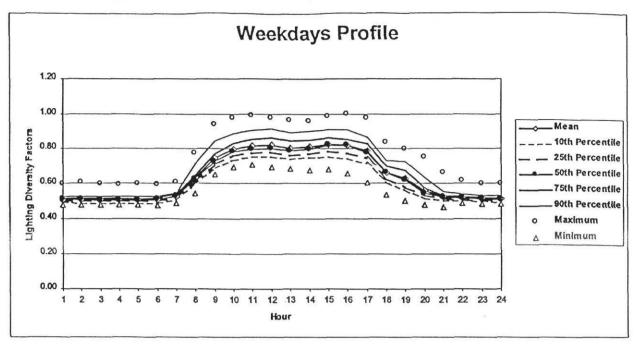
Dates: 1/1/98 - 12/31/98

Data Type: WBE = ch2257

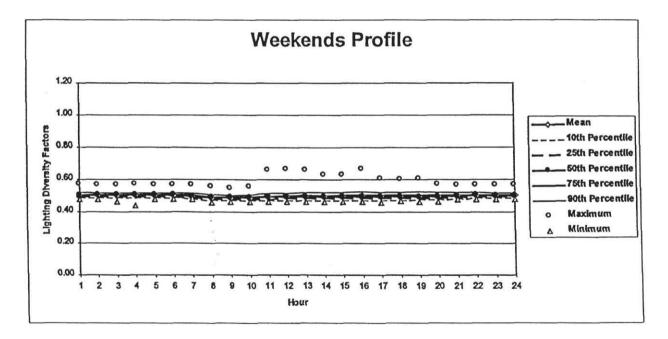
Maximum kW: 162 kW







*The dates that are excluded from the weekday profile are as follow: 1/1/98, 1/19/98, 2/16/98, 5/25/98, 9/7/98, 11/11/98, 11/26/98, 11/27/98, and 12/23 - 25/98.



EEKD	Hour	Mean	Mean+1Std	Mean-1Std	10th Pertil	25th Percti	50th Perctl	75th Percti	90th Perctl I	Maximum	Minimum
-		0.51	0.52				0.51	0.52	0.53		
	1.00	0.51	0.52	0.49	0.49	0.50	0.51	0.52	0.52	0.59	0.48
-	3.00	0.51	0.52	0.49	0.49	0.50	0.50	0.51	0.52	0.60	0.48
-	4.00	0.51	0.52	0.49	0.49	0.50	0.50	0.51	0.52	0.59	0.48
-	5.00	0.51	0.52	0.49	0.49	0.50	0.50	0.51	0.52	0.59	0.48
-	6.00	0.51	0.52	0.49	0.49	0.50	0.51	0.51	0.52	0.59	0.48
H	7.00	0.53	0.55	0.49	0.43	0.51	0.53	0.54	0.55	0.61	0.47
-	8.00	0.63	0.68	0.59	0.59	0.61	0.62	0.65	0.71	0.77	0.49
F	9.00	0.75	0.80	0.69	0.69	0.71	0.73	0.00	0.84	0.94	0.65
	10.00	0.80	0.86	0.74	0.74	0.76	0.78	0.83	0.89	0.98	0.69
	11.00	0.82	0.88	0.76	0.75	0.77	0.80	0.85	0.91	0.99	0.71
	12.00	0.82	0.88	0.76	0.75	0.78	0.80	0.86	0.91	0.97	0.69
	13.00	0.80	0.86	0.74	0.74	0.76	0.79	0.84	0.89	0.96	0.68
H	14.00	0.81	0.87	0.75	0.75	0.77	0.80	0.85	0.90	0.96	0.67
	15.00	0.83	0.89	0.77	0.76	0.78	0.82	0.86	0.91	0.99	0.68
	16.00	0.82	0.88	0.76	0.75	0.77	0.82	0.85	0.91	1.00	0.66
F	17.00	0.79	0.85	0.73	0.73	0.74	0.78	0.83	0.87	0.98	0.60
F	18.00	0.66	0.72	0.61	0.60	0.62	0.66	0.70	0.73	0.84	0.53
	19.00	0.63	0.69	0.57	0.56	0.58	0.62	0.68	0.73	0.80	0.50
	20.00	0.56	0.60	0.51	0.51	0.53	0.55	0.57	0.63	0.75	0.48
F	21.00	0.52	0.55	0.50	0.50	0.51	0.52	0.53	0.55	0.66	0.47
F	22.00	0.52	0.54	0.50	0.50	0.51	0.52	0.52	0.54	0.62	0.49
	23.00	0.51	0.53	0.50	0.50	0.50	0.51	0.52	0.53	0.59	0.48
	24.00	0.51	0.53	0.49	0.49	0.50	0.51	0.52	0.53	0.59	0.48
		15.35	16.02	14.67	14.53	14.85	15.23	15.71	16.36	17.43	13.6
aity Values		13.33	10.02								
aily Sum from	The Daily res m Hourly: Th	15.35 suits as the st e aggregated	16.29 atistics are a Daily results	14.40 pplied on da	14.35 Ity data.	14.70	15.16	15.86	16.67	18.55	13.3
aity Sum from aity Values: aity Sum from	The Daily res m Hourly: Th NDS/HO	15.35 suits as the st e aggregated LIDAYS	16.29 atistics are a Daily results	14.40 pplied on da as the statis	14.35 Ity data. stics are appl	14.70 ied on Hour-	15.16 of-Day data.	15.86			13.36
aity Sum from aity Values: aity Sum from	The Daily res m Hourly: Th NDS/HO Hour	15.35 suits as the st e aggregated LIDAYS Mean	16.29 atistics are a Daily results Mean+1Std	14.40 pplied on da as the statis Mean-1Std	14.35 Ily data. stics are appl 10th Perctl	14.70 ied on Hour- 25th Perctl	15.16 of-Day data. 50th Perctl	15.86 75th Perct	90th Percti	Maximum	Minima
aity Sum from aity Values: aity Sum from	The Daily res m Hourly: Th NDS/HO Hour 1.00	15.35 suits as the st e aggregated LIDAYS Mean 0.50	16.29 atistics are ap Daily results Mean+1Std 0.52	14.40 pplied on da as the statis Mean-1Std 0.49	14.35 Ity data. stics are appl 10th Perctl 0.49	14.70 ied on Hour- 25th Perctl 0.49	15.16 of-Day data. 50th Perctl 0.50	15.86 75th Perctt 0.51	90th Perctl 0.52	Maximum 0.57	Minima 0.48
ily Sum from ily Values: illy Sum from	The Daily res m Hourly: Th NDS/HO Hour 1.00 2.00	15.35 suits as the st e aggregated LIDAYS Mean 0.50 0.50	16.29 atistics are ap Daily results Mean+1Std 0.52 0.52	14.40 pplied on da as the statis Mean-1Std 0.49 0.49	14.35 Ity data. stics are appl 10th Perctl 0.49 0.49	14.70 ied on Hour- 25th Perctl 0.49 0.49	15.16 of-Day data. 50th Perctl 0.50 0.50	15.86 75th Perctt 0.51 0.51	90th Perctl 0.52 0.52	Maximum 0.57 0.57	Minim 0.48 0.48
ily Sum from ily Values: ily Sum from	The Daily res m Hourly: Th NDS/HO Hour 1.00 2.00 3.00	15.35 suits as the si e aggregated LIDAYS Mean 0.50 0.50 0.50	16.29 atistics are a Daily results Mean+1Std 0.52 0.52 0.52	14.40 pplied on da as the statis Mean-1Std 0.49 0.49 0.49	14.35 Ily data. stics are appl 10th Perctl 0.49 0.49 0.49	14.70 ied on Hour- 25th Perctl 0.49 0.49 0.49	15.16 of-Day data. 50th Percti 0.50 0.50 0.50	15.86 75th Perctt 0.51 0.51 0.51	90th Perctl 0.52 0.52 0.52	Maximum 0.57 0.57 0.57	Minim 0.48 0.48
ity Sum from ity Values: ity Sum from	The Daily res m Hourly: Th NDS/HO Hour 1.00 2.00 3.00 4.00	15.35 sults as the si e aggregated LIDAYS Mean 0.50 0.50 0.50 0.50	16.29 atistics are a Daily results Mean+1Std 0.52 0.52 0.52 0.52	14.40 pplied on da as the statis Mean-1Std 0.49 0.49 0.49 0.49	14.35 ity data. stics are appl 10th Perctl 0.49 0.49 0.49 0.49	14.70 ied on Hour-o 25th Percti 0.49 0.49 0.49 0.49	15.16 bf-Day data. 50th Perctl 0.50 0.50 0.50 0.50	15.86 75th Perct 0.51 0.51 0.51 0.51	90th Percti 0.52 0.52 0.52 0.52	Maximum 0.57 0.57 0.57 0.57	Minim 0.48 0.48 0.44
ily Sum from ily Values: ily Sum from	The Daily re: m Hourly: Th NDS/HO Hour 1.00 2.00 3.00 4.00 5.00	15.35 sults as the st e aggregated LIDAYS Mean 0.50 0.50 0.50 0.50 0.50	16.29 atistics are a Daily results Mean+1Std 0.52 0.52 0.52 0.52 0.52	14.40 pplied on da as the statis Mean-1Std 0.49 0.49 0.49 0.49 0.49	14.35 ity data. stics are appl 10th Perctl 0.49 0.49 0.49 0.49 0.49 0.49	14.70 ied on Hour- 25th Percti 0.49 0.49 0.49 0.49 0.49 0.49	15.16 bf-Day data. 50th Perctl 0.50 0.50 0.50 0.50 0.50	15.86 75th Perct 0.51 0.51 0.51 0.51 0.51	90th Perctl 0.52 0.52 0.52 0.52 0.52	Maximum 0.57 0.57 0.57 0.57 0.57	Minim 0.48 0.49 0.44 0.44
ity Sum from ity Values: ity Sum from	The Daily re: m Hourly: Th NDS/HO Hour 1.00 2.00 3.00 4.00 5.00 6.00	15.35 sults as the st e aggregated LIDAYS Mean 0.50 0.50 0.50 0.50 0.50 0.50 0.50	16.29 atistics are a Daily results Mean+1Std 0.52 0.52 0.52 0.52 0.52 0.52	14.40 pplied on da as the statis Mean-1Sid 0.49 0.49 0.49 0.49 0.49 0.49	14.35 ity data. stics are appl 10th Perctl 0.49 0.49 0.49 0.49 0.49 0.49 0.49	14.70 ied on Hour-4 25th Percti 0.49 0.49 0.49 0.49 0.49 0.49 0.49	15.16 bf-Day data. 50th Perctl 0.50 0.50 0.50 0.50 0.50 0.50	15.86 75th Perctt 0.51 0.51 0.51 0.51 0.51	90th Perct 0.52 0.52 0.52 0.52 0.52 0.52 0.52	Maximum 0.57 0.57 0.57 0.57 0.57 0.57	Minim 0.44 0.44 0.44 0.44 0.44
ily Sum from ily Values: ily Sum from	The Daily re: m Hourly: Th NDS/HO Hour 1.00 2.00 3.00 4.00 5.00 6.00 7.00	15.35 sults as the st e aggregated LIDAYS Mean 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.5	16.29 atistics are a Daily results Mean+1Std 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52	14.40 pplied on da as the statis Mean-1Sid 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	14.35 ity data. stics are appl 10th Perctl 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	14.70 ied on Hour-4 25th Percti 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	15.16 bf-Day data. 50th Perctl 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.49	15.86 75th Perctt 0.51 0.51 0.51 0.51 0.51 0.51 0.51	90th Perct 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52	Maximum 0.57 0.57 0.57 0.57 0.57 0.57 0.57	Minim 0.44 0.44 0.44 0.44 0.44 0.44
ity Sum from ity Values: ity Sum from	The Daily re: m Hourly: Th NDS/HO Hour 1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00	15.35 sults as the st e aggregated LIDAYS Mean 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.5	16.29 atistics are a Daily results Mean+1Std 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52	14.40 pplied on da as the statis Mean-1Sid 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	14.35 ity data. stics are appl 10th Perctl 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	14.70 ied on Hour- 25th Percti 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	15.16 bf-Day data. 50th Perctl 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.49 0.49	15.86 75th Perct 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51	90th Perct 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52	Maximum 0.57 0.57 0.57 0.57 0.57 0.57 0.57 0.56	Minim 0.44 0.44 0.44 0.44 0.44 0.44 0.44
ity Sum from ity Values: ity Sum from	The Daily re: m Hourly: Th NDS/HO Hour 1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00	15.35 sults as the st e aggregated LIDAYS Mean 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.5	16.29 atistics are a Daily results Mean+1Std 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52	14.40 pplied on da as the statis Mean-1Sid 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	14.35 ity data. stics are appl 10th Perctl 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	14.70 ied on Hour-4 25th Percti 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	15.16 bf-Day data. 50th Perctl 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.49 0.49 0.49	15.86 75th Perct 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51	90th Perct 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.51	Maximum 0.57 0.57 0.57 0.57 0.57 0.57 0.57 0.56 0.55	Minim 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.4
ity Sum from ity Values: ity Sum from	The Daily re: m Hourly: Th NDS/HO Hour 1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00	15.35 sults as the st e aggregated LIDAYS Mean 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.5	16.29 atistics are a Daily results Mean+1Std 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52	14.40 pplied on da as the statis Mean-1Sid 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	14.35 ity data. stics are appl 10th Perctl 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	14.70 ied on Hour-4 25th Percti 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	15.16 bf-Day data. 50th Perctl 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.49 0.49	15.86 75th Perct 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51	90th Perct 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52	Maximum 0.57 0.57 0.57 0.57 0.57 0.57 0.57 0.57	Minim 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.4
ity Sum from ity Values: ity Sum from	The Daily re: m Hourly: Th NDS/HO Hour 1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00	15.35 sults as the st e aggregated LIDAYS Mean 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.5	16.29 atistics are a Daily results Mean+1Std 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52	14.40 pplied on da as the statis Mean-1Sid 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	14.35 ily data. stics are appl 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	14.70 ied on Hour-4 25th Percti 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	15.16 50th Perctl 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.49 0.49 0.49 0.49 0.49	15.86 75th Perctt 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51	90th Perctl 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52	Maximum 0.57 0.57 0.57 0.57 0.57 0.57 0.57 0.56 0.55 0.56	Minim 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.4
illy Sum from illy Values: illy Sum from	The Daily re: m Hourly: Th NDS/HO Hour 1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00	15.35 sults as the st e aggregated LIDAYS Mean 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.5	16.29 atistics are a Daily results Mean+1Std 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52	14.40 pplied on da as the statis Mean-1Sid 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	14.35 ity data. stics are appl 10th Perctl 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	14.70 ied on Hour- 25th Percti 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	15.16 bf-Day data. 50th Perctl 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.49 0.49 0.49 0.49 0.49	15.86 75th Perctt 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51	90th Percti 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52	Maximum 0.57 0.57 0.57 0.57 0.57 0.57 0.57 0.55 0.56 0.56 0.66	Minimu 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.4
ily Sum from ily Values: ily Sum from	The Daily re: m Hourly: Th NDS/HO Hour 1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00	15.35 suits as the si e aggregated LIDAYS Mean 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.5	16.29 atistics are a Daily results Mean+1Std 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52	14.40 pplied on da as the statist 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	14.35 ily data. stics are appl 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	14.70 ied on Hour- 25th Perctl 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	15.16 of-Day data. 50th Perctl 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	15.86 75th Perctt 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.51	90th Percti 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52	Maximum 0.57 0.57 0.57 0.57 0.57 0.57 0.57 0.56 0.55 0.56 0.66 0.66	Minimu 0.48 0.44 0.44 0.44 0.44 0.44 0.44 0.44
ily Sum from ily Values: illy Sum from	The Daily re: m Hourly: Th NDS/HO Hour 1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 11.00 13.00	15.35 suits as the si e aggregated LIDAYS Mean 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.5	16.29 atistics are a Daily results 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52	14.40 pplied on da as the statis 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	14.35 ily data. stics are appl 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	14.70 ied on Hour- 25th Perctl 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	15.16 of-Day data. 50th Perctl 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.49	15.86 75th Perctl 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.50 0.50	90th Percti 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52	Maximum 0.57 0.57 0.57 0.57 0.57 0.57 0.57 0.56 0.55 0.56 0.66 0.66 0.67	Minimu 0.48 0.44 0.44 0.44 0.44 0.44 0.44 0.44
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aity Sum from aity Values: aity Sum from	The Daily re: m Hourly: Th NDS/HO Hour 1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 11.00 11.00 13.00 14.00 15.00 16.00	15.35 suits as the si e aggregated LIDAYS Mean 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.5	16.29 atistics are a Daily results 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52	14.40 pplied on da as the statis 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	14.35 ily data. stics are appl 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	14.70 ied on Hour- 25th Perctl 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	15.16 50th Perctl 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.49	15.86 75th Percti 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.50 0.50	90th Perctl 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52	Maximum 0.57 0.57 0.57 0.57 0.57 0.57 0.57 0.56 0.55 0.56 0.66 0.66 0.66 0.63 0.63 0.63	Minim
ily Sum from ily Values: illy Sum from	The Daily re: m Hourly: Th NDS/HO Hour 1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00	15.35 suits as the si e aggregated LIDAYS Mean 0.50 0.50 0.50 0.50 0.50 0.50 0.49 0.49 0.49 0.49 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.5	16.29 atistics are a Daily results 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52	14.40 pplied on da as the statis 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	14.35 ily data. stics are appl 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	14.70 ied on Hour- 25th Perctl 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	15.16 50th Perctl 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.49	15.86 75th Percti 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.50 0.50	90th Perctl 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52	Maximum 0.57 0.57 0.57 0.57 0.57 0.57 0.57 0.56 0.55 0.56 0.66 0.66 0.66 0.63 0.63 0.63 0.67 0.61	Minimu 0.48 0.44 0.44 0.44 0.44 0.44 0.44 0.44
illy Sum from illy Values: illy Sum from	The Daily re: m Hourly: Th NDS/HO Hour 1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00	15.35 suits as the si e aggregated LIDAYS Mean 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.49 0.49 0.49 0.49 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.5	16.29 atistics are a Daily results 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52	14.40 pplied on da as the statis 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	14.35 ily data. stics are appl 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	14.70 ied on Hour- 25th Perctl 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	15.16 50th Perctl 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.49	15.86 75th Percti 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.50 0.50	90th Perctl 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52	Maximum 0.57 0.57 0.57 0.57 0.57 0.57 0.57 0.56 0.55 0.56 0.66 0.66 0.66 0.63 0.63 0.63 0.63 0.6	Minimu 0.48 0.44 0.44 0.44 0.44 0.44 0.44 0.44
ily Sum from ily Values: illy Sum from	The Daily re: m Hourly: Th NDS/HO Hour 1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00	15.35 suits as the si e aggregated LIDAYS Mean 0.50 0.50 0.50 0.50 0.50 0.50 0.49 0.49 0.49 0.49 0.49 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.5	16.29 atistics are a Daily results 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52	14.40 pplied on da as the statis 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	14.35 ily data. stics are appl 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	14.70 ied on Hour- 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	15.16 50th Perctl 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.49 0.50	15.86 75th Percti 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.50 0.50	90th Perc4 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.51 0.51 0.51 0.52	Maximum 0.57 0.57 0.57 0.57 0.57 0.57 0.57 0.56 0.66 0.65 0.66 0.66 0.63 0.63 0.63 0.63 0.63 0.61 0.60 0.57	Minim 0.48 0.44 0.44 0.44 0.44 0.44 0.44 0.44
illy Sum from illy Values: illy Sum from	The Daily re: m Hourly: Th NDS/HO Hour 1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 11.00 11.00 11.00 11.00 13.00 14.00 15.00 14.00 15.00 14.00 15.00 14.00 15.00 14.00 15.00 14.00 15.00 14.00 12.00 20.00 21.00 22.00	15.35 suits as the si e aggregated LIDAYS Mean 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.5	16.29 atistics are a Daily results 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52	14.40 pplied on da as the statis 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	14.35 ily data. stics are appl 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	14.70 ied on Hour- 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	15.16 50th Perctl 0.50 0.50 0.50 0.50 0.50 0.50 0.49 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.50	15.86 75th Percti 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.50 0.50	90th Perc4 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.51 0.51 0.51 0.52	Maximum 0.57 0.57 0.57 0.57 0.57 0.57 0.57 0.57	Minim 0.48 0.44 0.44 0.44 0.44 0.44 0.44 0.44
illy Sum from illy Values: illy Sum from	The Daily re: m Hourly: Th NDS/HO Hour 1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 11.00 12.00 13.00 14.00 15.00 14.00 15.00 14.00 15.00 14.00 15.00 14.00 20.00 21.00 22.00 23.00	15.35 suits as the si e aggregated LIDAYS Mean 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.49 0.49 0.49 0.49 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.5	16.29 atistics are a Daily results 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52	14.40 pplied on da as the statis 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	14.35 ily data. stics are appl 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	14.70 ied on Hour- 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	15.16 50th Perctl 0.50 0.50 0.50 0.50 0.50 0.50 0.49 0.50 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.49 0.49 0.49 0.49 0.49 0.50	15.86 75th Percti 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.50 0.60 0.50 0.50 0.51 0.51 0.51 0.51 0.51 0.5	90th Perc4 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.51 0.51 0.51 0.52	Maximum 0.57 0.57 0.57 0.57 0.57 0.57 0.57 0.56 0.66 0.65 0.66 0.65 0.66 0.63 0.63 0.63 0.63 0.63 0.63 0.61 0.60 0.61 0.57 0.57 0.57	Minim 0.48 0.44 0.44 0.44 0.44 0.44 0.44 0.44
aity Sum from aity Values: aity Sum from	The Daily re: m Hourly: Th NDS/HO Hour 1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 11.00 11.00 11.00 15.00 16.00 17.00 18.00 19.00 20.00 21.00 22.00 23.00 24.00	15.35 suits as the si e aggregated LIDAYS Mean 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.49 0.49 0.49 0.49 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.5	16.29 atistics are a Daily results 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52	14.40 pplied on da as the statis 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	14.35 ily data. stics are appl 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	14.70 ied on Hour- 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49	15.16 50th Perctl 0.50 0.50 0.50 0.50 0.50 0.50 0.49 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.49 0.50	15.86 75th Percti 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.50 0.50	90th Perc4 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.51 0.51 0.51 0.52	Maximum 0.57 0.57 0.57 0.57 0.57 0.57 0.57 0.57	Minimu 0.48 0.46 0.44 0.44 0.44 0.44 0.44 0.44 0.44

(Page 3) Diversity Factors and Statistics WEEKDAYS

Daily Values: The Daily results as the statistics are applied on daily data. Daily Sum from Hourly: The aggregated Daily results as the statistics are applied on Hour-of-Day data. (Page 4)

1. DOE-2 Input Sample

This is an example of how to input <u>Lighting diversity factors</u> for a Large Office Building (Supreme Court Building, Austin, TX) into the DOE-2 program. The calculated 50^{th} Percentile values are used in these schedules.

\$ WEEKDAY SCHEDULE \$ WKDAY = DAY-SCHEDULE (1) (0.51) (2) (0.51) (3) (0.50) (4) (0.50) (5) (0.50) (6) (0.51) (7) (0.53) (8) (0.62) (9) (0.73) (10) (0.78) (11) (0.80) (12) (0.80) (13) (0.79) (14) (0.80) (15) (0.82) (16) (0.82) (17) (0.78) (18) (0.66) (19) (0.62) (20) (0.55) (21) (0.52) (22) (0.52) (23) (0.51) (24) (0.51) ...

\$ WEEKEND SCHEDULE \$ WKEND = DAY-SCHEDULE (1) (0.50) (2) (0.50) (3) (0.50) (4) (0.50) (5) (0.50) (6) (0.50) (7) (0.49) (8) (0.49) (9) (0.49) (10) (0.49) (11) (0.49) (12) (0.49) (13) (0.49) (14) (0.49) (15) (0.49) (16) (0.49) (17) (0.49) (18) (0.49) (19) (0.49) (20) (0.49) (21) (0.50) (22) (0.50) (23) (0.50) (24) (0.50) ...

WORK = WEEK-SCHEDULE VAC = WEEK-SCHEDULE	(WD) WKDAY (WD) WKEND	(WE) WKEND (WE) WKEND	(HOL) WKEND (HOL) WKEND
ELE-SCH = SCHEDULE	THRU JAN 1 VA THRU JUL 4 VAO THRU NOV 24 VA THRU DEC 25 VA THRU DEC 31 VA	AC THRU	JUL 3 WORK NOV 22 WORK DEC 24 WORK DEC 30 WORK
G-ZONE = SPACE-CONDITIONS			

G-ZONE = SPACE-CONDITIONS LIGHTING-SCHEDULE = ELE-SCH LIGHTING-TYPE = REC-FLUOR-RV LIGHT-TO-SPACE = 0.8 LIGHTING-W/SQFT = 2.22 ..

The "LIGHT-TO-SPACE" and "LIGHTING-TYPE" values shown above are for illustrative purpose. Normally, the user would select these values based on the observed characteristics (or design) for the building considered.

The "LIGHTING-W/SQFT" value shown scales, the diversity factor to maximum observed value (W/ft^2) in the building for the period of Jan 1- Dec 31, 1998.

The input file shown uses Weekends schedules for Holidays.

The Holidays shown in the input file are: New Year's Day, U.S. Independence Day, Thanksgiving, and Christmas. This assumes the user has selected the sub-commend "HOLIDAY = NO" in the "BUILDING LOCATION" commend of the "LOADS" input file.

(rage 5)

2. BLAST Input Sample

TXM005

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(Page 1) Building Descriptions: (TXM005)

(This section depends on the extent of information available on each building).

Building 951:

Building Name: Administration Building.

Source of Data: The Energy Systems Laboratory, Texas A&M University.

Location: Dallas, Texas.

Category: Medium Office Building, based on the CBECS classification.

Square footage: $42,385 \text{ ft}^2$.

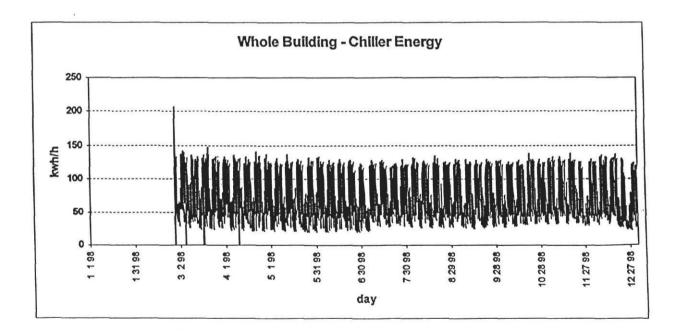
Lighting EUI: $[(13.41 \times 5) + (7.56 \times 2)] \times 52 \times 4.87 = 20.82 \text{ kWh/ft}^2$.year

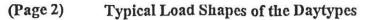
Lighting Type: Fluorescent

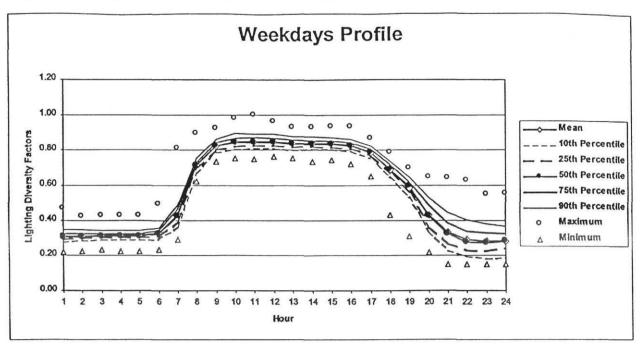
Dates: 1/1/98 - 12/31/98

Data Type: WBE - Chillers = ch3592 - (ch3586+ch3587+ch3588) - (ch3589+ch3590+ch3591)

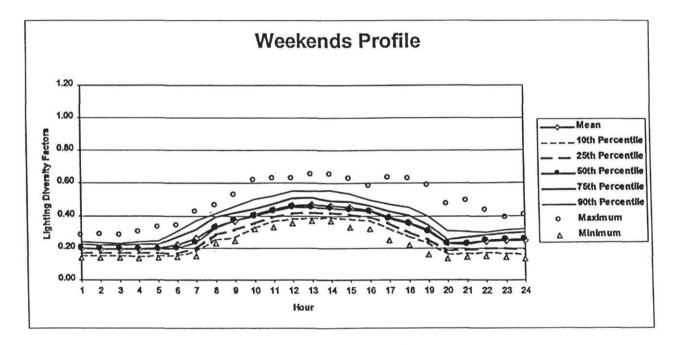
Maximum kW: 206 kW







*The dates that are excluded from the weekday profile are as follow: 3/10/98, 7/3/98, 9/7/98, 11/26/98, 11/27/98, and 12/23/98 - 12/25/98.



(Page 3) Diversity Factors and Statistics WEEKDAYS

	Hour	Mean	Mean+1Std	Mean-1Std	10th Perctl	25th Perctl	50th Perctl	75th Perctl	90th Perctl	Maximum	Minimum
	1.00	0.31	0.34	0.27	0.28	0.29	0.30	0.32	0.34	0.47	0.22
	2.00	0.31	0.34	0.28	0.29	0.29	0.31	0.32	0.35	0.42	0.23
	3.00	0.31	0.34	0.29	0.29	0.30	0.31	0.33	0.34	0.43	0.23
	4.00	0.31	0.34	0.29	0.29	0.30	0.31	0.33	0.34	0.43	0.23
	5.00	0.31	0.34	0.29	0.29	0.30	0.31	0.32	0.34	0.43	0.23
	6.00	0.33	0.36	0.29	0.29	0.31	0.32	0.34	0.36	0.49	0.24
E	7.00	0.43	0.50	0.36	0.36	0.39	0.42	0.47	0.49	0.81	0.29
	8.00	0.72	0.76	0.67	0.67	0.69	0.71	0.73	0.76	0.89	0.62
	9.00	0.82	0.86	0.79	0.79	0.80	0.82	0.84	0.86	0.93	0.74
	10.00	0.85	0.88	0.81	0.81	0.82	0.85	0.87	0.89	0.98	0.75
	11.00	0.85	0.88	0.81	0.81	0.82	0.84	0.87	0.89	1.00	0.75
	12.00	0.85	0.88	0.81	0.81	0.83	0.85	0.87	0.89	0.96	0.76
	13.00	0.84	0.87	0.81	0.80	0.82	0.84	0.86	0.88	0.93	0.75
	14.00	0.84	0.87	0.81	0.81	0.82	0.83	0.85	0.88	0.93	0.74
	15.00	0.84	0.87	0.81	0.81	0.82	0.83	0.85	0.87	0,93	0.75
	16.00	0.83	0.86	0.80	0.80	0.81	0.83	0.84	0.86	0.93	0.72
	17.00	0.79	0.82	0.76	0.76	0.77	0.79	0.81	0.83	0.87	0.65
	18.00	0.69	0.73	0.65	0.64	0.67	0.69	0.72	0.74	0.79	0.43
	19.00	0.59	0.64	0.53	0.53	0.56	0.60	0.62	0.65	0.70	0.31
	20.00	0.43	0.51	0.35	0.33	0.37	0.43	0.49	0.53	0.65	0.22
	21.00	0.33	0.42	0.25	0.23	0.27	0.32	0.38	0.45	0.64	0.15
	22.00	0.29	0.37	0.21	0.20	0.23	0.27	0.34	0.40	0.63	0.15
	23.00	0.28	0.36	0.20	0.18	0.22	0.27	0.33	0.38	0.55	0.15
	24.00	0.28	0.35	0.21	0.19	0.24	0.28	0.32	0.36	0.55	0.15
aily Values	ly Values 13.41		13.96	12.86	12.77	13.05	13.40	13.73	14.07	15.14	11.98
	aity Sum from Hourty 13.42 14.49 12.35			12.35 pplied on da	12.24	12.74	13.35	14.01	14.68	17.33	10.46

Daily Sum from Hourly: The aggregated Daily results as the sta

WEEKENDS/HOLIDAYS

	Hour	Mean	Mean+1Std	Mean-1Std	10th Perctl	25th Perctl	50th Perctl	75th Perct	90th Perctl	Maximum	Minimum
	1.00	0.20	0.23	0.17	0.15	0.17	0.20	0.23	0.24	0.28	0.14
	2.00	0.20	0.23	0.16	0.16	0.17	0.20	0.22	0.24	0.28	0.14
	3.00	0.19	0.23	0.16	0.15	0.17	0.19	0.22	0.23	0.28	0.14
	4.00	0.20	0.23	0.16	0.15	0.17	0.19	0.22	0.24	0.30	0.14
	5.00	0.20	0.24	0.16	0.15	0.17	0.20	0.23	0.24	0.33	0.14
	6.00	0.22	0.27	0.16	0.15	0.17	0.20	0.27	0.30	0.34	0.14
	7.00	0.26	0.33	0.18	0.18	0.20	0.23	0.32	0.37	0.42	0.15
	8.00	0.33	0.40	0.27	0.25	0.28	0.32	0.40	0.41	0.46	0.23
	9.00	0.37	0.44	0.30	0.27	0.31	0.38	0.42	0.46	0.53	0.24
	10.00	0.41	0.48	0.34	0.33	0.35	0.40	0.44	0.50	0.62	0.32
	11.00	0.44	0.50	0.37	0.37	0.39	0.43	0.47	0.52	0.63	0.33
	12.00	0.46	0.53	0.40	0.38	0.41	0.45	0.51	0.55	0.63	0.35
	13.00	0.47	0.53	0.40	0.39	0.42	0.45	0.52	0.55	0.65	0.37
	14.00	0.46	.0.53	0.40	0.39	0.42	0.45	0.49	0.56	0.65	0.37
	15.00	0.45	0.52	0.39	0.38	0.41	0.44	0.49	0.54	0.63	0.33
-	16.00	0.43	0.49	0.38	0.37	0.39	0.43	0.47	0.50	0.58	0.32
Γ	17.00	0.39	0.46	0.33	0.32	0.35	0.38	0.43	0.47	0.63	0.25
	18.00	0.36	0.43	0.28	0.27	0.30	0.35	0.40	0.45	0.63	0.22
	19.00	0.31	0.39	0.24	0.23	0.25	0.30	0.34	0.40	0.59	0.16
	20.00	0.23	0.30	0.17	0.16	0.18	0.23	0.25	0.31	0.47	0.13
	21.00	0.23	0.29	0.17	0.17	0.19	0.23	0.27	0.30	0.49	0.14
	22.00	0.24	0.30	0.19	0.17	0.20	0.25	0.28	0.30	0.43	0.15
	23.00	0.25	0.30	0.19	0.17	0.20	0.26	0.29	0.31	0.39	0.15
	24.00	0.25	0.31	0.19	0.16	0.20	0.25	0.30	0.32	0.40	0.13
Daily Values		7.56	8.37	6.75	6.64	6.96	7.60	8.07	8.58	9.58	5.81
Daily Sum fro	ily Sum from Hourty 7.56 8.96 6.16 5.91 6.47 7.41 8.47 9.33 11.63					5.17					
Daily Values: Daily Sum fro						plied on Hour	-of-Day data.				

(Page 4)

1. DOE-2 Input Sample

This is an example of how to input <u>Lighting diversity factors</u> for a Large Office Building (Administration Bldg., Dallas, TX) into the DOE-2 program. The calculated 50^{th} Percentile values are used in these schedules.

\$ WEEKDAY SCHEDULE \$
WKDAY = DAY-SCHEDULE
(1) (0.30) (2) (0.31) (3) (0.31) (4) (0.31) (5) (0.31) (6) (0.32)
(7) (0.42) (8) (0.71) (9) (0.82) (10) (0.85) (11) (0.84) (12) (0.85)
(13) (0.84) (14) (0.83) (15) (0.83) (16) (0.83) (17) (0.79) (18) (0.69)
(19) (0.60) (20) (0.43) (21) (0.32) (22) (0.27) (23) (0.27) (24) (0.28) ...

\$ WEEKEND SCHEDULE \$
WKEND = DAY-SCHEDULE
(1) (0.20) (2) (0.20) (3) (0.19) (4) (0.19) (5) (0.20) (6) (0.20)
(7) (0.23) (8) (0.32) (9) (0.38) (10) (0.40) (11) (0.43) (12) (0.45)
(13) (0.45) (14) (0.45) (15) (0.44) (16) (0.43) (17) (0.38) (18) (0.35)
(19) (0.30) (20) (0.23) (21) (0.23) (22) (0.25) (23) (0.26) (24) (0.25) ...

WORK = WEEK-SCHEDULE VAC = WEEK-SCHEDULE	(WD) WKDAY (WD) WKEND	(WE) WKEND (WE) WKEND	(HOL) WKEND (HOL) WKEND
ELE-SCH = SCHEDULE	THRU JAN 1 VA THRU JUL 4 VA THRU NOV 24 V THRU DEC 25 V THRU DEC 31 V	C THRU VAC THRU VAC THRU	JUL 3 WORK NOV 22 WORK DEC 24 WORK DEC 30 WORK
G-ZONE = SPACE-CONDITIONS			

G-ZONE = SPACE-CONDITIONS LIGHTING-SCHEDULE = ELE-SCH LIGHTING-TYPE = REC-FLUOR-RV LIGHT-TO-SPACE = 0.8 LIGHTING-W/SQFT = 4.87 ..

The "LIGHT-TO-SPACE" and "LIGHTING-TYPE" values shown above are for illustrative purpose. Normally, the user would select these values based on the observed characteristics (or design) for the building considered.

The "LIGHTING-W/SQFT" value shown scales, the diversity factor to maximum observed value (W/ft^2) in the building for the period of Jan 1, 1998 - Dec 31, 1998.

The input file shown uses Weekends schedules for Holidays.

The Holidays shown in the input file are: New Year's Day, U.S. Independence Day, Thanksgiving, and Christmas. This assumes the user has selected the sub-commend "HOLIDAY = NO" in the "BUILDING LOCATION" commend of the "LOADS" input file.

(Page 5)

2. BLAST Input Sample

DCL001

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(Page 1) Building Descriptions: (DCL001)

(This section depends on the extent of information available on each building).

Building 904:

Building Name: USDOE Forrestal Building.

Source of Data: The Energy Systems Laboratory, Texas A&M University.

Location: Washington, DC.

Category: Large Office Building, based on the CBECS classification.

Square footage: $1,200,000 \text{ ft}^2$.

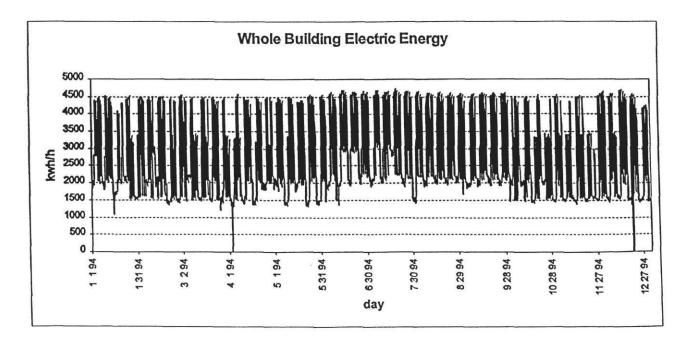
Lighting EUI: $[(15.78 \times 5) + (9.18 \times 2)] \times 52 \times 3.93 = 19.99 \text{ kWh/ft}^2$.year

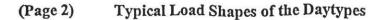
Lighting Type: N/A

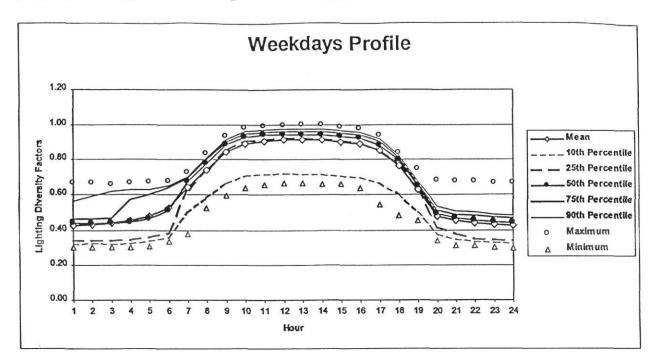
Dates: 1/1/94 - 12/31/94

Data Type: WBE = ch0299

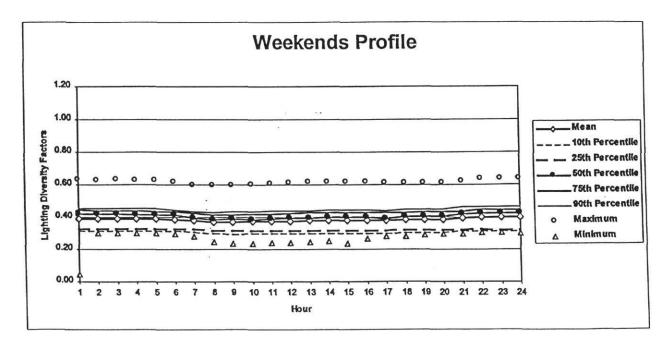
Maximum kW: 4,720 kW







*The dates that are excluded from the weekday profile are as follow: 1/17/94, 1/20/94, 2/11/94, 2/21/94, 5/9/94, 5/30/94, 7/4/94, 9/5/94, 10/10/94, 11/11/94, 11/24/94, 11/25/94, and 12/26/94.



(Page 3) WEEKDAYS Diversity ractors and Statistics

	Hour	Mean	Mean+1Std	Mean-1Std	10th Percu	25th Perctl	50th Percu	75th Perctl	90th Perctl	Maximum	Minimum
	1.00	0.43	0.52	0.34	0.32	0.34	0.44	0.46	0.56	0.66	0.30
	2.00	0.43	0.52	0.34	0.33	0.34	0.44	0.46	0.59	0.66	0.31
	3.00	0.44	0.54	0.34	0.33	0.34	0.44	0.47	0.62	0.66	0.31
	4.00	0.46	0.56	0.35	0.33	0.35	0.45	0.57	0.63	0.66	0.30
	5.00	0.48	0.59	0.37	0.34	0.36	0.46	0.60	0.63	0.67	0.31
	6.00	0.52	0.64	0.41	0.36	0.38	0.51	0.64	0.65	0.67	0.34
	7.00	0.64	0.72	0.56	0.50	0.63	0.68	0.69	0.70	0.73	0.38
	8.00	0.74	0.83	0.65	0.58	0.73	0.78	0.80	0.81	0.83	0.53
	9.00	0.85	0.94	0.76	0.67	0.85	0.88	0.90	0.91	0.94	0.60
	10.00	0.89	0.98	0.80	0.71	0.91	0.93	0.94	0.96	0.98	0.64
	11.00	0.91	1.00	0.82	0.72	0.92	0.94	0.96	0.97	0.99	0.66
	12.00	0.91	1.00	0.83	0.72	0.92	0.94	0.96	0.97	0.99	0.67
	13.00	0.91	1.00	0.83	0.72	0.92	0.94	0.96	0.97	1.00	0.66
	14.00	0.91	1.00	0.83	0.72	0.92	0.94	0.96	0.97	1.00	0.66
	15.00	0.90	0.99	0.81	0.71	0.91	0.93	0.95	0.97	0.99	0.66
	16.00	0.89	0.98	0.80	0.70	0.90	0.92	0.94	0.95	0.97	0.64
	17.00	0.85	0.94	0.77	0.67	0.85	0.88	0.91	0.92	0.94	0.54
	18.00	0.77	0.85	0.69	0.60	0.77	0.79	0.81	0.82	0.84	0.48
	19.00	0.63	0.69	0.56	0.50	0.62	0.65	0.66	0.68	0.75	0.45
	20.00	0.48	0.55	0.41	0.38	0.42	0.49	0.51	0.53	0.68	0.34
	21.00	0.45	0.53	0.38	0.35	0.38	0.47	0.49	0.51	0.67	0.31
	22.00	0.44	0.52	0.36	0.34	0.35	0.45	0.48	0.50	0.67	0.31
	23.00	0.43	0.51	0.35	0.33	0.34	0.45	0.47	0.49	0.67	0.30
Г	24.00	0.43	0.50	0.35	0.33	0.34	0.44	0.47	0.48	0.66	0.30
Daily Values		15.78	17.51	14.06	12.47	15.05	16.09	16.95	17.62	19.08	11.53
Daily Sum from	n Hourty	15.80	17.90	13.70	12.23	14.81	16.26	17.09	17.81	19.29	11.00

Daily Val

Daity Values: The Daity results as the statistics are applied on daity data. Daity Sum from Hourly: The aggregated Daity results as the statistics are applied on Hour-of-Day data.

WEEKENDS/HOLIDAYS

	Hour	Mean	Mean+1Std	Mean-1Std	10th Perctl	25th Perctl	50th Percti	75th Percti	90th Perctl	Maximum	Minimun
	1.00	0.39	0.46	0.31	0.32	0.32	0.42	0.44	0.45	0.63	0.04
	2.00	0.39	0.46	0.32	0.32	0.32	0.42	0.44	0.45	0.63	0.30
	3.00	0.39	0.46	0.32	0.31	0.33	0.42	0.44	0.45	0.63	0.30
	4.00	0.39	0.46	0.32	0.31	0.32	0.41	0.44	0.45	0.63	0.30
	5.00	0.39	0.45	0.32	0.31	0.32	0.41	0.43	0.45	0.63	0.30
Г	6.00	0.39	0.45	0.32	0.31	0.32	0.41	0.43	0.44	0.62	0.30
	7.00	0.38	0.44	0.31	0.31	0.32	0.39	0.42	0.43	0.60	0.28
	8.00	0.37	0.43	0.30	0.30	0.32	0.38	0.41	0.43	0.60	0.24
	9.00	0.37	0.43	0.30	0.30	0.31	0.39	0.41	0.43	0.60	0.23
	10.00	0.37	0.44	0.30	0.30	0.31	0.38	0.42	0.44	0.60	0.23
Γ	11.00	0.37	0.44	0.30	0.30	0.31	0.39	0.42	0.44	0.61	0.24
F	12.00	0.38	0.45	0.31	0.30	0.31	0.39	0.42	0.44	0.61	0.24
· [13.00	0.38	0.45	0.31	0.30	0.31	0.40	0.43	0.44	0.62	0.25
Г	14.00	0.38	0.45	0.31	0.30	0.31	0.40	0.43	0.44	0.62	0.25
Г	15.00	0.38	0.45	0.31	0.30	0.31	0.40	0.43	0.44	0.62	0.23
Г	16.00	0.38	0.45	0.31	0.30	0.31	0.40	0.43	0.44	0.62	0.26
Γ	17.00	0.38	0.45	0.31	0.30	0.31	0.39	0.43	0.44	0.61	0.28
	18.00	0.38	0.45	0.31	0.30	0.32	0.40	0.43	0.45	0.61	0.28
Г	19.00	0.38	0.45	0.31	0.30	0.32	0.40	0.43	0.45	0.61	0.2
L L	20.00	0.38	0.45	0.31	0.31	0.32	0.40	0.43	0.45	0.61	0.2
Γ	21.00	0.39	0.47	0.31	0.31	0.32	0.42	0.44	0.46	0.62	0.2
Γ	22.00	0.40	0.48	0.31	0.31	0.32	0.42	0.45	0.46	0.64	0.3
[23.00	0.40	0.48	0.31	0.31	0.32	0.42	0.44	0.47	0.64	0.3
	24.00	0.40	0.48	0.31	0.31	0.32	0.42	0.44	0.46	0.64	0.3
ily Values		9.18	10.81	7.54	7.38	7.67	9.59	10.31	10.76	14.70	6.7
illy Sum fr	om Hourly	9.18	10.88	7.48	7.34	7.65	9.69	10.34	10.72	14.83	6.3

Daily Sum from Hourty: The aggregated Daily results as the statistics are applied on Hour-of-Day data.

(Page 4)

1. DOE-2 Input Sample

This is an example of how to input <u>Lighting diversity factors</u> for a Large Office Building (USDOE Forrestal Building, Washington, DC) into the DOE-2 program. The calculated 50th Percentile values are used in these schedules.

\$ WEEKDAY SCHEDULE \$ WKDAY = DAY-SCHEDULE (1) (0.44) (2) (0.44) (3) (0.44) (4) (0.45) (5) (0.46) (6) (0.51) (7) (0.68) (8) (0.78) (9) (0.88) (10) (0.93) (11) (0.94) (12) (0.94) (13) (0.94) (14) (0.94) (15) (0.93) (16) (0.92) (17) (0.88) (18) (0.79) (19) (0.65) (20) (0.49) (21) (0.47) (22) (0.45) (23) (0.45) (24) (0.44) ...

\$ WEEKEND SCHEDULE \$ WKEND = DAY-SCHEDULE (1) (0.42) (2) (0.42) (3) (0.42) (4) (0.41) (5) (0.41) (6) (0.41) (7) (0.39) (8) (0.38) (9) (0.39) (10) (0.38) (11) (0.39) (12) (0.39) (13) (0.40) (14) (0.40) (15) (0.40) (16) (0.40) (17) (0.39) (18) (0.40) (19) (0.40) (20) (0.40) (21) (0.42) (22) (0.42) (23) (0.42) (24) (0.42) ...

WORK = WEEK-SCHEDULE VAC = WEEK-SCHEDULE	(WD) WKDAY (WD) WKEND	(WE) WKEND (WE) WKEND	(HOL) WKEND (HOL) WKEND
ELE-SCH = SCHEDULE	THRU JAN 1 VA THRU JUL 4 VA THRU NOV 24 V THRU DEC 25 V THRU DEC 31 V	C THRU /AC THRU /AC THRU	JUL 3 WORK NOV 22 WORK DEC 24 WORK DEC 30 WORK
G_{2} TONE = SPACE_CONDITIONS			

G-ZONE = SPACE-CONDITIONS LIGHTING-SCHEDULE = ELE-SCH LIGHTING-TYPE = REC-FLUOR-RV LIGHT-TO-SPACE = 0.8 LIGHTING-W/SQFT = 3.93 ..

The "LIGHT-TO-SPACE" and "LIGHTING-TYPE" values shown above are for illustrative purpose. Normally, the user would select these values based on the observed characteristics (or design) for the building considered.

The "LIGHTING-W/SQFT" value shown scales, the diversity factor to maximum observed value (W/ft^2) in the building for the period of Jan 1- Dec 31, 1994.

The input file shown uses Weekends schedules for Holidays.

The Holidays shown in the input file are: New Year's Day, U.S. Independence Day, Thanksgiving, and Christmas. This assumes the user has selected the sub-commend "HOLIDAY = NO" in the "BUILDING LOCATION" commend of the "LOADS" input file.

(Page 5)

2. BLAST Input Sample

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MTL001

(Page 1) Building Descriptions: (MTL001)

(This section depends on the extent of information available on each building).

Building 963:

Building Name: Butte Courthouse Building.

Source of Data: The Energy Systems Laboratory, Texas A&M University.

Location: Butte, MT.

Category: Large Office Building, based on the CBECS classification.

Square footage: $100,000 \text{ ft}^2$.

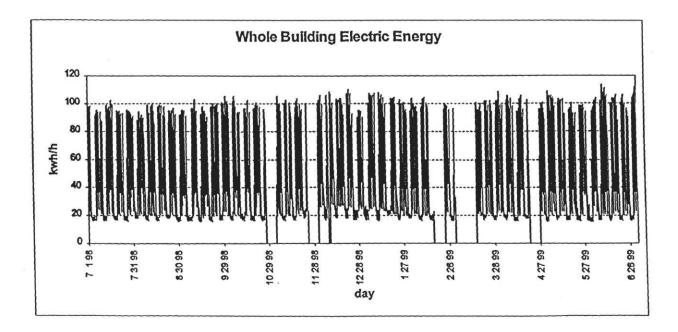
Lighting EUI: $[(12.64 \times 5) + (4.07 \times 2)] \times 52 \times 1.13 = 4.19 \text{ kWh/ft}^2$.year

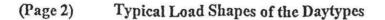
Lighting Type: Fluorescent

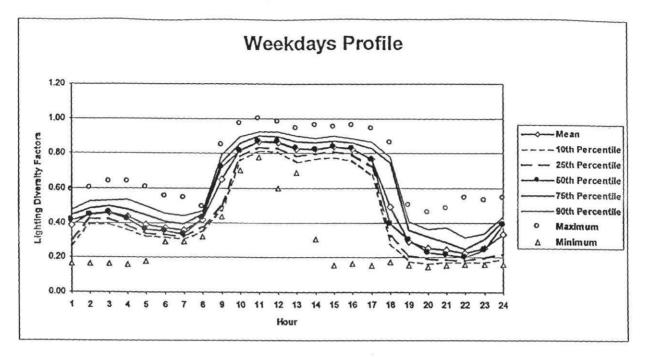
Dates: 7/1/98 - 7/1/99

Data Type: WBE = ch4058

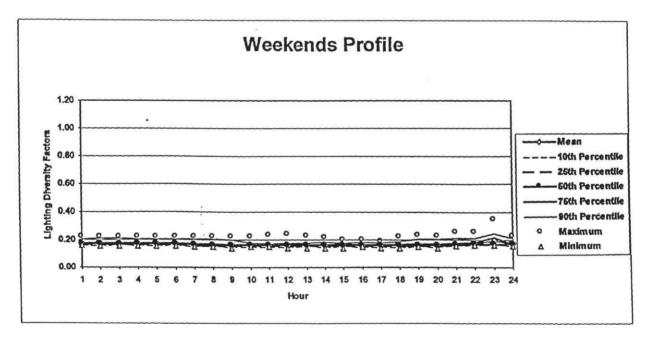
Maximum kW: 113 kW







*The dates that are excluded from the weekday profile are as follow: 7/3/98, 9/7/98, 10/12/98, 11/11/98, 12/25/98, 12/31/98, 1/1/99, 1/18/99, and 5/31/99.



(Page 3) WEEKDAYS **Diversity Factors and Statistics**

EEKDA	Hour	Mean	Mean+1Std	Mean-1Std1	10th Percti	25th Percti	50th Perctl	75th Perctl	90th Percti	Maximum	Minimun
-	1.00	0.38	0.47	0.30	0.27	0.31	0.41	0.45	0.47	0.59	0.17
-	2.00	0.30	0.47	0.39	0.39	0.42	0.45	0.48	0.52	0.60	0.17
-	3.00	0.45	0.52	0.40	0.39	0.42	0.46	0.50	0.53	0.64	0.17
-	4.00	0.44	0.51	0.36	0.36	0.38	0.42	0.48	0.54	0.64	0.16
-	5.00	0.39	0.46	0.30	0.32	0.34	0.36	0.44	0.50	0.61	0.18
-	6.00	0.35	0.43	0.32	0.32	0.33	0.35	0.41	0.46	0.55	0.29
-	7.00	0.36	0.43	0.32	0.32	0.32	0.33	0.39	0.44	0.54	0.29
-	8.00	0.30	0.41	0.30	0.35	0.38	0.43	0.45	0.47	0.49	0.32
-	9.00	0.42	0.40	0.52	0.47	0.50	0.72	0.75	0.79	0.85	0.43
-						0.78	0.82	0.86	0.89	0.97	
-	10.00	0.82	0.87	0.77	0.76	0.83	0.87	0.90	0.92	1.00	0.70
-	11.00	0.87	0.91	0.83	0.82	0.83	0.87	0.90	0.92	0.98	
-	12.00	0.86	0.91	0.81	0.81	0.83	0.83	0.87	0.90	0.94	0.60
-	13.00	0.83	0.88	0.77					0.89	0.94	
	14.00	0.82	0.88	0.77	0.77	0.80	0.82	0.86		0.95	0.31
-	15.00	0.84	0.90	0.77	0.78	0.81		0.87	0.90		0.15
-	16.00	0.82	0.89	0.76	0.76	0.80	0.83	0.86	0.89	0.96	0.17
	17.00	0.77	0.85	0.69	0.68	0.73	0.76	0.83	0.87	0.94	0.15
-	18.00	0.49	0.70	0.28	0.27	0.32	0.39	0.75	0.78	0.86	0.17
	19.00	0.29	0.38	0.20	0.18	0.21	0.30	0.36	0.41	0.50	0.15
-	20.00	0.25	0.33	0.18	0.16	0.19	0.23	0.32	0.36	0.46	0.15
L	21.00	0.24	0.32	0.17	0.17	0.19	0.22	0.29	0.37	0.48	0.15
	22.00	0.23	0.29	0.17	0.17	0.18	0.20	0.25	0.31	0.54	0.16
	23.00	0.25	0.32	0.19	0.17	0.20	0.24	0.31	0.34	0.53	0.16
	24.00	0.33	0.44	0.23	0.19	0.22	0.39	0.41	0.44	0.54	0.16
11. 11. 1	1	12.64	13.42	11.86	11.67	12.15	12.65	13.15	13.56	14.37	8.85
							12.54	13.97	14.89	17.13	6.82
illy Sum from illy Values: illy Sum from	The Daily res m Hourly: Th NDS/HO	e aggregated LIDAYS	Daily results	s as the stati	stics are app		of-Day data.				
ally Sum from	The Daily res m Hourly: Th NDS/HO Hour	suits as the st e aggregated LIDAYS Mean	latistics are a 1 Daily results 6 Mean+1Sto	pplied on da as the statis	ily data. stics are app 10th Perctl	ied on Hour-	of-Day data. 50th Perct	75th Perct	90th Perctl	Maximum	Minim
illy Sum from illy Values: illy Sum from	The Daily res m Hourly: Th NDS/HO Hour 1.00	suits as the st e aggregated LIDAYS Mean 0.18	tatistics are a 1 Daily results 6 Mean+1Sto 0.19	pplied on da s as the statis Mean-1Std 0.16	ily data. stics are app 10th Perctl 0.16	ied on Hour- 25th Perctl 0.17	of-Day data. 50th Perct 0.17	75th Perct	90th Perctl	Maximum 0.22	Minim 0.16
illy Sum from illy Values: illy Sum from	The Daily res m Hourly: Th NDS/HO Hour 1.00 2.00	suits as the si e aggregated LIDAYS Mean 0.18 0.17	tatistics are a Daily results Mean+1Sto 0.19 0.19	pplied on da as the statis Mean-1Std 0.16 0.16	ily data. stics are app 10th Perctl 0.16 0.16	25th Perct 0.17 0.17	50th Perct 0.17 0.17	75th Perct 0.18 0.17	90th Perctl 0.20 0.21	Maximum 0.22 0.22	Minim 0.10 0.15
illy Sum from illy Values: illy Sum from	The Daily res m Hourly: Th NDS/HO Hour 1.00 2.00 3.00	suits as the st e aggregated LIDAYS Mean 0.18 0.17 0.17	tatistics are a 1 Daily results 6 Mean+1Sto 0.19 0.19 0.19	Deplied on da as the statistic Mean-1Std 0.16 0.16 0.16	ity data. stics are app 10th Perctl 0.16 0.16 0.17	25th Perctl 0.17 0.17 0.17	50th Perct 0.17 0.17 0.17	75th Perct 0.18 0.17 0.17	90th Perctl 0.20 0.21 0.21	Maximum 0.22 0.22 0.22	Minim 0.16 0.15 0.15
illy Sum from illy Values: illy Sum from	The Daily res m Hourly: Th NDS/HO Hour 1.00 2.00 3.00 4.00	LIDAYS Mean 0.18 0.17 0.17 0.17	tatistics are a 1 Daily results 1 Mean+1Sto 0.19 0.19 0.19 0.19	pplied on da s as the statistic 0.16 0.16 0.16 0.16 0.16	ity data. stics are app 10th Perctl 0.16 0.16 0.17 0.16	25th Perctl 0.17 0.17 0.17 0.17 0.17	50th Perct 0.17 0.17 0.17 0.17 0.17	75th Perct 0.18 0.17 0.17 0.18	90th Perctl 0.20 0.21	Maximum 0.22 0.22	Minim 0.10 0.11 0.11
illy Sum from illy Values: illy Sum from	The Daity re: m Hourly: Th NDS/HO Hour 1.00 2.00 3.00 4.00 5.00	LIDAYS Mean 0.18 0.17 0.17 0.17 0.17 0.18	tatistics are a I Daily results Mean+1Sto 0.19 0.19 0.19 0.19 0.19	pplied on da s as the statis Mean-1Std 0.16 0.16 0.16 0.16 0.16	ily data. stics are appl 10th Perctl 0.16 0.17 0.16 0.16	25th Perctl 0.17 0.17 0.17 0.17 0.17 0.17	50th Perct 0.17 0.17 0.17 0.17 0.17 0.17 0.17	75th Perct 0.18 0.17 0.17 0.18 0.17	90th Percti 0.20 0.21 0.21 0.20 0.20	Maximum 0.22 0.22 0.22 0.22 0.22	Minim 0.16 0.15 0.15 0.15
illy Sum from illy Values: illy Sum from	The Daily re: m Hourly: Th NDS/HO Hour 1.00 2.00 3.00 4.00 5.00 6.00	suits as the si e aggregated LIDAYS Mean 0.18 0.17 0.17 0.17 0.17 0.18 0.18	tatistics are a I Daily results Mean+1Sto 0.19 0.19 0.19 0.19 0.19 0.19 0.19	pplied on da s as the statistic (Mean-1Std 0.16 0.16 0.16 0.16 0.16 0.16	ity data. stics are appl 10th Perctl 0.16 0.16 0.17 0.16 0.16 0.17	25th Perctl 0.17 0.17 0.17 0.17 0.17 0.17 0.17	60th Perct 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17	75th Perct 0.18 0.17 0.17 0.18 0.17 0.18	90th Percti 0.20 0.21 0.21 0.20 0.20 0.20 0.20	Maximum 0.22 0.22 0.22 0.22 0.22 0.22 0.22 0.2	Minim 0.16 0.15 0.15 0.15 0.15
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(Page 4)

1. DOE-2 Input Sample

This is an example of how to input <u>Lighting diversity factors</u> for a Large Office Building (Butte Courthouse Bldg., Butte, MT) into the DOE-2 program. The calculated 50^{th} <u>Percentile</u> values are used in these schedules.

\$ WEEKDAY SCHEDULE \$ WKDAY = DAY-SCHEDULE (1) (0.41) (2) (0.45) (3) (0.46) (4) (0.42) (5) (0.36) (6) (0.35) (7) (0.33) (8) (0.43) (9) (0.72) (10) (0.82) (11) (0.87) (12) (0.87) (13) (0.83) (14) (0.82) (15) (0.84) (16) (0.83) (17) (0.76) (18) (0.39) (19) (0.30) (20) (0.23) (21) (0.22) (22) (0.20) (23) (0.24) (24) (0.39) ...

\$ WEEKEND SCHEDULE \$ WKEND = DAY-SCHEDULE (1) (0.17) (2) (0.17) (3) (0.17) (4) (0.17) (5) (0.17) (6) (0.17) (7) (0.17) (8) (0.16) (9) (0.16) (10) (0.16) (11) (0.16) (12) (0.16) (13) (0.16) (14) (0.16) (15) (0.16) (16) (0.16) (17) (0.16) (18) (0.16) (19) (0.16) (20) (0.16) (21) (0.17) (22) (0.17) (23) (0.17) (24) (0.17) ...

WORK = WEEK-SCHEDULE		(WE) WKEND	(HOL) WKEND
VAC = WEEK-SCHEDULE		(WE) WKEND	(HOL) WKEND
ELE-SCH = SCHEDULE	THRU JAN 1 VAC THRU JUL 4 VAC THRU NOV 24 VA THRU DEC 25 VA THRU DEC 31 VA	C THRU C THRU C THRU	JUL 3 WORK NOV 22 WORK DEC 24 WORK DEC 30 WORK

G-ZONE = SPACE-CONDITIONS LIGHTING-SCHEDULE = ELE-SCH LIGHTING-TYPE = REC-FLUOR-RV LIGHT-TO-SPACE = 0.8 LIGHTING-W/SQFT = 1.13 ..

The "LIGHT-TO-SPACE" and "LIGHTING-TYPE" values shown above are for illustrative purpose. Normally, the user would select these values based on the observed characteristics (or design) for the building considered.

The "LIGHTING-W/SQFT" value shown scales, the diversity factor to maximum observed value (W/ft^2) in the building for the period of Jul 1, 1998 - Jul 1, 1999.

The input file shown uses Weekends schedules for Holidays.

The Holidays shown in the input file are: New Year's Day, U.S. Independence Day, Thanksgiving, and Christmas. This assumes the user has selected the sub-commend "HOLIDAY = NO" in the "BUILDING LOCATION" commend of the "LOADS" input file. (Page 5)

2. BLAST Input Sample

MNL001

(Page 1) Building Descriptions: (MNL001)

(This section depends on the extent of information available on each building).

Building 704:

Building Name: Judicial Building.

Source of Data: The Energy Systems Laboratory, Texas A&M University.

Location: Minnesota, MN.

Category: Large Office Building, based on the CBECS classification.

Square footage: $200,829 \text{ ft}^2$.

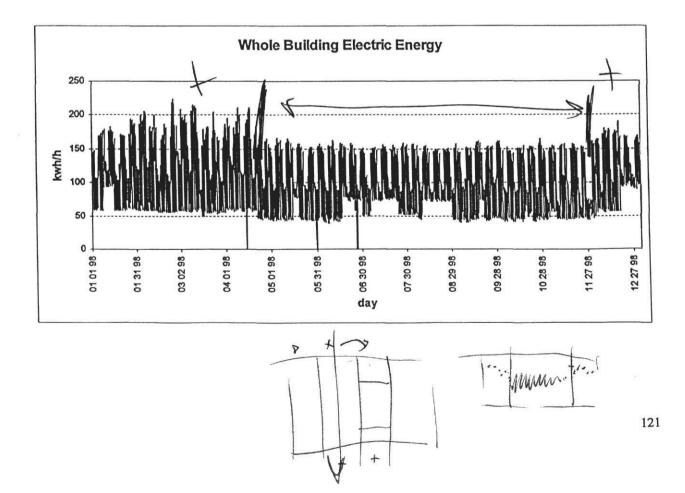
Lighting EUI: $[(12.54 \text{ x } 5) + (8.47 \text{ x } 2)] \text{ x } 52 \text{ x } 1.11 = 4.59 \text{ kWh/ft}^2.year$

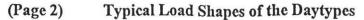
Lighting Type: Fluorescent

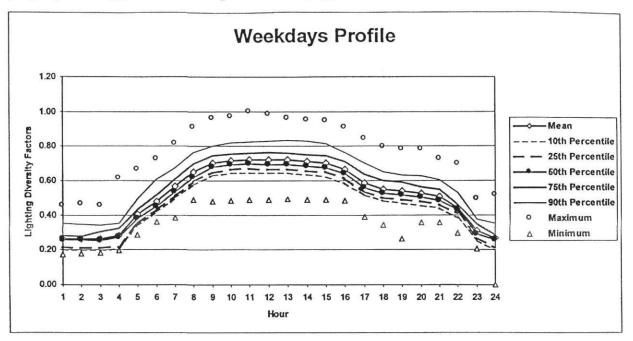
Dates: 1/1/98 - 12/31/98

Data Type: WBE = ch2484

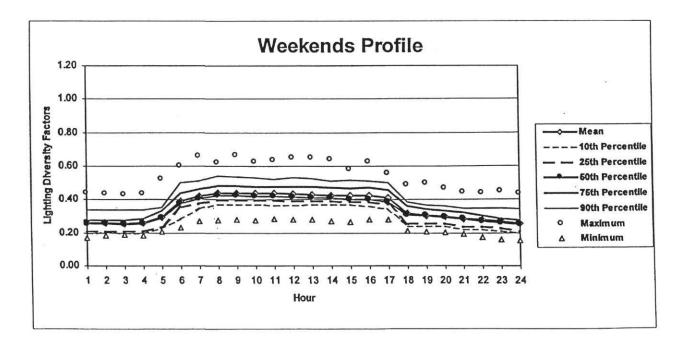
Maximum kW: 223 kW







*The dates that are excluded from the weekday profile are as follow: 1/1/98, 1/19/98, 2/16/98, 5/25/98, 9/7/98, 11/11/98, 11/26/98, 11/27/98, and 12/25/98.



VEEKDAYS	r T	Mean	Mean+1Std	Mean-1Std	10th Percti	25th Perrtl 1	50th Perctl	75th Perctl	90th Perctl	Maximum	Minimum
1100											Minimun
	1.00	0.26	0.33	0.20	0.20	0.21	0.26	0.28	0.35	0.45	0.17
	2.00	0.26	0.33	0.20	0.20	0.21	0.26	0.28	0.35	0.46	0.18
	3.00	0.26	0.33	0.20	0.20	0.21	0.25	0.30	0.34	0.46	0.18
	4.00	0.28	0.35	0.21	0.20	0.22	0.27	0.32	0.35	0.61	0.20
	5.00	0.40	0.47	0.33	0.34	0.35	0.38	0.43	0.49	0.67	0.28
	6.00	0.48	0.56	0.40	0.42	0.43	0.45	0.51	0.61	0.73	0.36
	7.00	0.57	0.64	0.49	0.50	0.51	0.53	0.61	0.68	0.82	0.38
	8.00	0.65	0.73	0.58	0.58	0.60	0.62	0.70	0.76	0.91	0.49
	9.00	0.70	0.78	0.63	0.63	0.65	0.68	0.75	0.80	0.96	0.48
	10.00	0.72	0.79	0.64	0.65	0.67	0.69	0.76	0.82	0.97	0.48
	11.00	0.72	0.80	0.65	0.65	0.67	0.70	0.76	0.83	1.00	0.49
	12.00	0.72	0.80	0.64	0.65	0.67	0.69	0.76	0.83	0.98	0.49
	13.00	0.72	0.80	0.64	0.65	0.67	0.69	0.76	0.84	0.96	0.49
	14.00	0.71	0.79	0.63	0.64	0.66	0.68	0.75	0.83	0.95	0.49
	15.00	0.70	0.78	0.62	0.62	0.65	0.68	0.75	0.82	0.94	0.49
	16.00	0.66	0.74	0.59	0.59	0.61	0.64	0.71	0.77	0.91	0.48
	17.00	0.59	0.66	0.51	0.51	0.54	0.56	0.64	0.70	0.84	0.39
	18.00	0.55	0.63	0.47	0.48	0.50	0.52	0.60	0.65	0.80	0.34
	19.00	0.54	0.61	0.46	0.47	0.49	0.52	0.59	0.63	0.78	0.26
	20.00	0.52	0.59	0.46	0.45	0.48	0.50	0.56	0.63	0.78	0.36
	21.00	0.51	0.57	0.44	0.44	0.46	0.48	0.55	0.61	0.72	0.35
	22.00	0.44	0.50	0.38	0.38	0.41	0.43	0.46	0.53	0.70	0.29
	23.00	0.31	0.37	0.25	0.25	0.27	0.29	0.35	0.37	0.49	0.21
	24.00	0.27	0.33	0.20	0.20	0.21	0.26	0.28	0.35	0.52	0.00
	24.00										
and the second se	24.00	12.54	13.90	11.19	11.14	11,63	12.04	13.50	14.55	16.40	9.08
aily Values aily Sum from Hour aily Values: The D aily Sum from Hour	rty aity re: rty: Th	12.54 12.55 sults as the st e aggregated	14.26 atistics are a Daily results	10.84 pplied on da	10.91 ily data.	11.33	12.04	13.50 13.46	<u>14.55</u> 14.94	16.40 18.43	
aily Values aily Sum from Hour aily Values: The D aily Sum from Hour VEEKENDS	rty Paily res rty: Th	12.54 12.55 sults as the st e aggregated LIDAYS	14.26 atistics are a Daily results	10.84 pplied on da as the statis	10.91 ily data. stics are appl	11.33 ied on Hour-c	12.04 of-Day data.	13.46	14.94	18.43	9.08 8.35
aily Values aily Sum from Hour aily Values: The D aily Sum from Hour	rfy Paily res rfy: Th /HO Ir	12.54 12.55 sults as the st e aggregated LIDAYS Mean	14.26 atistics are a Daily results Mean+1Std	10.84 pplied on da as the statis Mean-1Std	10.91 ily data. stics are appl 10th Perctl	11.33 ied on Hour-c 25th Perctl	12.04 of-Day data. 50th Perctl	13.46 75th Perct	14.94 90th Perctl	18.43 Maximum	8.35 Minimu
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aily Values aily Sum from Hour aily Values: The D aily Sum from Hour VEEKENDS	rty haity re- rty: Th /HO r 1.00 2.00	12.54 12.55 sults as the st e aggregated LIDAYS Mean 0.26 0.26	14.26 atistics are a Daily results Mean+1Std 0.32 0.32	10.84 pplied on da as the statis Mean-1Std 0.20 0.20	10.91 ily data. stics are appl 10th Perctl 0.20 0.20	11.33 ied on Hour-c 25th Perctl 0.21 0.21	12.04 of-Day data. 50th Perctl 0.25 0.25	13.46 75th Percti 0.28 0.27	14.94 90th Perctl 0.34 0.34	18.43 Maximum 0.44 0.44	8.35 Minimu 0.17 0.18
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(Page 3) Diversity Factors and Statistics

Daily Values: The Daily results as the statistics are applied on daily data. Daily Sum from Hourly: The aggregated Daily results as the statistics are applied on Hour-of-Day data.

(Page 4)

1. DOE-2 Input Sample

This is an example of how to input <u>Lighting diversity factors</u> for a Large Office Building (Judicial Bldg., Minnesota, MN) into the DOE-2 program. The calculated 50^{th} Percentile values are used in these schedules.

\$ WEEKDAY SCHEDULE \$ WKDAY = DAY-SCHEDULE (1) (0.26) (2) (0.26) (3) (0.25) (4) (0.27) (5) (0.38) (6) (0.45) (7) (0.53) (8) (0.62) (9) (0.68) (10) (0.69) (11) (0.70) (12) (0.69) (13) (0.69) (14) (0.68) (15) (0.68) (16) (0.64) (17) (0.56) (18) (0.52) (19) (0.52) (20) (0.50) (21) (0.48) (22) (0.43) (23) (0.29) (24) (0.26) ...

\$ WEEKEND SCHEDULE \$
WKEND = DAY-SCHEDULE
(1) (0.25) (2) (0.25) (3) (0.25) (4) (0.26) (5) (0.29) (6) (0.38)
(7) (0.41) (8) (0.43) (9) (0.42) (10) (0.42) (11) (0.42 (12) (0.41)
(13) (0.41) (14) (0.41) (15) (0.40) (16) (0.40) (17) (0.39) (18) (0.31)
(19) (0.30) (20) (0.30) (21) (0.28) (22) (0.27) (23) (0.26) (24) (0.25) ...

WORK = WEEK-SCHEDULE	(WD) WKDAY	(WE) WKEND	(HOL) WKEND
VAC = WEEK-SCHEDULE	(WD) WKEND	(WE) WKEND	(HOL) WKEND
ELE-SCH = SCHEDULE	THRU JAN 1 VA THRU JUL 4 VAO THRU NOV 24 V THRU DEC 25 VA THRU DEC 31 VA	C THRU AC THRU AC THRU	JUL 3 WORK NOV 22 WORK DEC 24 WORK DEC 30 WORK

G-ZONE = SPACE-CONDITIONS LIGHTING-SCHEDULE = ELE-SCH LIGHTING-TYPE = REC-FLUOR-RV LIGHT-TO-SPACE = 0.8 LIGHTING-W/SQFT = 1.11 ..

The "LIGHT-TO-SPACE" and "LIGHTING-TYPE" values shown above are for illustrative purpose. Normally, the user would select these values based on the observed characteristics (or design) for the building considered.

The "LIGHTING-W/SQFT" value shown scales, the diversity factor to maximum observed value (W/ ft^2) in the building for the period of Jan 1, 1998 - Dec 31, 1998.

The input file shown uses Weekends schedules for Holidays.

The Holidays shown in the input file are: New Year's Day, U.S. Independence Day, Thanksgiving, and Christmas. This assumes the user has selected the sub-commend "HOLIDAY = NO" in the "BUILDING LOCATION" commend of the "LOADS" input file. (Page 5)

2. BLAST Input Sample

MNL002

(Page 1) Building Descriptions: (MNL002)

(This section depends on the extent of information available on each building).

Building 707:

Building Name: State Office Building.

Source of Data: The Energy Systems Laboratory, Texas A&M University.

Location: Minnesota, MN.

Category: Large Office Building, based on the CBECS classification.

Square footage: 285,850 ft².

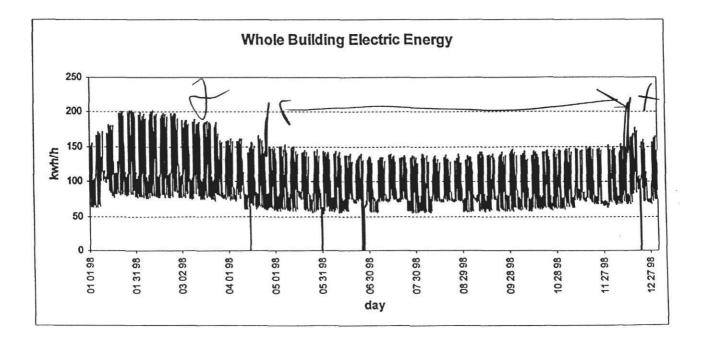
Lighting EUI: $[(13.22 \times 5) + (9.03 \times 2)] \times 52 \times 0.92 = 4.04 \text{ kWh/ft}^2$.year

Lighting Type: N/A

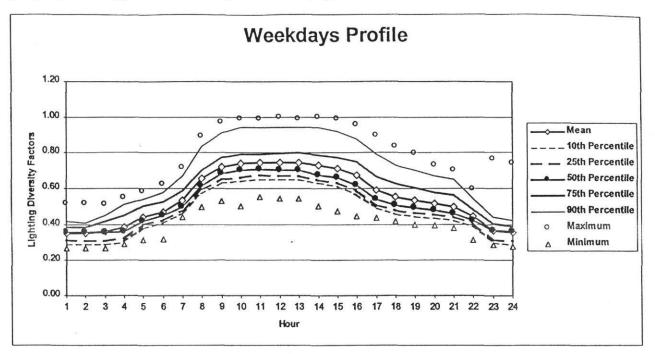
Dates: 1/1/98 - 12/31/98

Data Type: WBE = ch2515 + ch2516

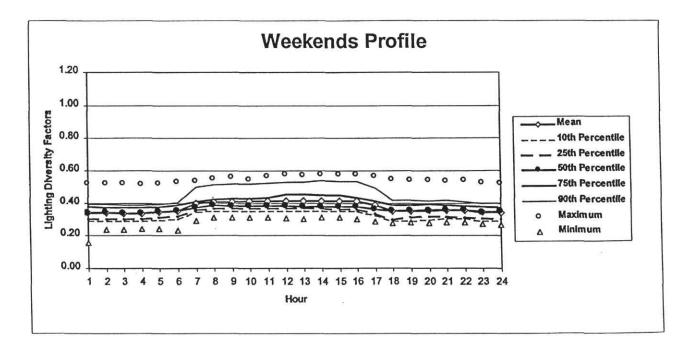
Maximum kW: 202 kW







*The dates that are excluded from the weekday profile are as follow: 1/1/98, 1/19/98, 2/16/98, 5/25/98, 7/3/98, 9/7/98, 11/11/98, 11/26/98, 11/27/98, and 12/25/98.



WEEKI		14	Magaidout	Mana 4011	1046 D	OCH Damit	FOIL Dearth	75th Decell	Ooth Dentil	Mavien	11:-1
Ļ	Hour	Mean	Mean+1Std					75th Perctl	90th Perctl	Maximum	Minimum
-	1.00	0.35	0.40	0.30	0.29	0.31	0.35	0.38	0.42	0.52	0.27
1	2.00	0.35	0.40	0.30	0.29	0.31	0.35	0.38	0.41	0.52	0.27
1	3.00	0.36	0.42	0.30	0.29	0.31	0.35	0.42	0.45	0.51	0.27
-	4.00	0.38	0.46	0.31	0.30	0.32	0.36	0.45	0.51	0.55	0.29
ļ	5.00	0.44	0.50	0.38	0.38	0.40	0.42	0.50	0.54	0.58	0.31
1	6.00	0.47	0.54	0.41	0.41	0.42	0.45	0.52	0.58	0.62	0.32
1	7.00	0.53	0.61	0.46	0.47	0.48	0.50	0.59	0.67	0.72	0.44
	8.00	0.66	0.75	0.56	0.57	0.59	0.62	0.70	0.83	0.89	0.50
1	9.00	0.72	0.82	0.62	0.63	0.65	0.68	0.78	0.91	0.97	0.53
	10.00	0.74	0.85	0.63	0.64	0.66	0.71	0.79	0.94	0.99	0.50
1	11.00	0.75	0.85	0.64	0.65	0.67	0.71	0.79	0.94	0.99	0.56
	12.00	0.75	0.85	0.64	0.65	0.67	0.70	0.79	0.94	1.00	0.54
1	13.00	0.75	0.85	0.64	0.65	0.67	0.70	0.80	0.94	0.99	0.54
1	14.00	0.73	0.85	0.61	0.63	0.65	0.68	0.79	0.94	1.00	0.50
1	15.00	0.71	0.83	0.60	0.62	0.63	0.66	0.77	0.92	0.99	0.47
[16.00	0.68	0.80	0.56	0.57	0.59	0.62	0.75	0.88	0.96	0.44
[17.00	0.59	0.71	0.47	0.49	0.51	0.54	0.67	0.79	0.89	0.44
	18.00	0.55	0.66	0.45	0.46	0.48	0.50	0.63	0.73	0.83	0.42
[19.00	0.53	0.63	0.44	0.44	0.47	0.49	0.61	0.70	0.80	0.40
[20.00	0.52	0.61	0.43	0.44	0.45	0.48	0.57	0.67	0.73	0.39
[21.00	0.50	0.58	0.42	0.42	0.44	0.46	0.56	0.65	0.71	0.38
	22.00	0.45	0.50	0.39	0.39	0.41	0.42	0.48	0.54	0.59	0.32
(23.00	0.37	0.43	0.31	0.30	0.31	0.36	0.40	0.44	0.76	0.28
	24.00	0.36	0.41	0.30	0.29	0.31	0.36	0.39	0.42	0.74	0.28
		40.00	45 40	11.26	11.53	11.80	12.27	14.44	16.70	17.62	10.13
Daily Values	S	13.22	15.18	11.20	11.00	11.00					
Daily Values Daily Sum fr		13.22	15.10	11.15	11.28	11.71	12.48	14.53	16.77	18.85	9.65
Daily Sum fr Daily Values	rom Hourty s: The Daily re	13.23 sults as the st	15.31 atistics are a	11.15 pplied on da	11.28 ily data.	11.71	12.48				
Daily Sum fr Daily Values Daily Sum fr	rom Hourty s: The Daily re rom Hourty: Th	13.23 sults as the st ne aggregated	15.31 atistics are a Daily results	11.15 pplied on da	11.28 ily data.	11.71	12.48				
Daily Sum fr Daily Values Daily Sum fr	rom Hourty s: The Daily re	13.23 sults as the st ne aggregated	15.31 atistics are a Daily results	11.15 pplied on da	11.28 ily data.	11.71	12.48				
Daily Sum fr Daily Values Daily Sum fr	rom Hourty s: The Daily re rom Hourty: Th	13.23 sults as the st ne aggregated	15.31 atistics are a Daily results	11.15 pplied on da as the statis	11.28 ily data. stics are appl	11.71	12.48		16.77		
Daily Sum fr Daily Values Daily Sum fr	rom Hourly s: The Daily re rom Hourly: Th ENDS/HO Hour	13.23 suits as the st ne aggregated LIDAYS	15.31 atistics are a Daily results Mean+1Std	11.15 pplied on da as the statis Mean-1Std	11.28 Ily data. stics are appl 10th Perctl	11.71 ied on Hour-c	12.48 of-Day data.	14.53	16.77	18.85	9.65
Daily Sum fr Daily Values Daily Sum fr	rom Hourty s: The Daily re rom Hourty: Th ENDS/HO	13.23 suits as the st ne aggregated LIDAYS Mean	15.31 atistics are a Daily results	11.15 pplied on da as the statis	11.28 ily data. stics are appl	11.71 ied on Hour-c 25th Perct	12.48 of-Day data. 50th Percti	14.53 75th Percti	16.77 90th Percti	18.85 Maximum	9.65 Minimum
Daily Sum fr Daily Values Daily Sum fr	rom Hourty s: The Daily re rom Hourty: Th ENDS/HO Hour 1.00	13.23 suits as the st ne aggregated DLIDAYS Mean 0.34	15.31 atistics are a Daily results Mean+1Std 0.39	11.15 pplied on da as the statis Mean-1Std 0.29	11.28 ily data. stics are appl 10th Perctl 0.29	11.71 ied on Hour-c 25th Perct 0.30	12.48 of-Day data. 50th Percti 0.34	14.53 75th Perctl 0.38	16.77 90th Percti 0.39	18.85 Maximum 0.52	9.65 Minimum 0.15
Daily Sum fr Daily Values Daily Sum fr	rom Hourty s: The Daily re rom Hourty: Th ENDS/HO Hour 1.00 2.00	13.23 suits as the st ne aggregated DLIDAYS Mean 0.34 0.34	15.31 atistics are a Daily results Mean+1Std 0.39 0.39	11.15 pplied on da as the statis Mean-1Std 0.29 0.29	11.28 ily data. stics are appl 10th Perctl 0.29 0.29	11.71 ied on Hour-o 25th Perctí 0.30 0.30	12.48 of-Day data. 50th Percti 0.34 0.34	14.53 75th Percti 0.38 0.37	16.77 90th Perctl 0.39 0.39	18.85 Maximum 0.52 0.52	9.65 Minimum 0.15 0.24
Daily Sum fr Daily Values Daily Sum fr	rom Hourty s: The Daily re rom Hourty: Th ENDS/HO Hour 1.00 2.00 3.00	13.23 suits as the st re aggregated DLIDAYS Mean 0.34 0.34 0.34	15.31 atistics are a Daily results Mean+1Std 0.39 0.39 0.39	11.15 pplied on da as the statis Mean-1S(d 0.29 0.29 0.29	11.28 ily data. stics are appl 10th Perctl 0.29 0.29 0.29 0.29	11.71 ied on Hour-o 25th Perctí 0.30 0.30 0.30	12.48 of-Day data. 50th Perctl 0.34 0.34 0.34	14.53 75th Percti 0.38 0.37 0.37	16.77 90th Perctí 0.39 0.39 0.39	18.85 Maximum 0.52 0.52 0.52	9.65 Minimum 0.15 0.24 0.24
Daily Sum fr Daily Values Daily Sum fr	rom Hourty s: The Daily re rom Hourty: Th ENDS/HO Hour 1.00 2.00 3.00 4.00	13.23 sults as the st aggregated DLIDAYS Mean 0.34 0.34 0.34 0.34	15.31 atistics are a Daily results Mean+1Std 0.39 0.39 0.39 0.39	11.15 pplied on da as the statis Mean-1Std 0.29 0.29 0.29 0.29 0.29	11.28 ily data. stics are appl 10th Percti 0.29 0.29 0.29 0.29	11.71 ied on Hour-o 25th Perctí 0.30 0.30 0.30 0.30	12.48 of-Day data. 50th Percti 0.34 0.34 0.34 0.34	14.53 75th Percti 0.38 0.37 0.37 0.37	16.77 90th Perctl 0.39 0.39 0.39 0.39	18.85 Maximum 0.52 0.52 0.52 0.51	9.65 Minimum 0.15 0.24 0.24 0.24
Daily Sum fr Daily Values Daily Sum fr	rom Hourty s: The Daily re rom Hourty: Th ENDS/HO Hour 1.00 2.00 3.00 4.00 5.00	13.23 sults as the st aggregated DLIDAYS Mean 0.34 0.34 0.34 0.34 0.34 0.34	15.31 atistics are a Daily results Mean+1Std 0.39 0.39 0.39 0.39 0.39	11.15 pplied on da as the statis Mean-1Std 0.29 0.29 0.29 0.29 0.29 0.30	11.28 ily data. stics are appl 10th Percti 0.29 0.29 0.29 0.29 0.29 0.30	11.71 ied on Hour-o 25th Perctí 0.30 0.30 0.30 0.30 0.31	12.48 of-Day data. 50th Perctl 0.34 0.34 0.34 0.34 0.35	14.53 75th Percti 0.38 0.37 0.37 0.37 0.37 0.38	16.77 90th Perctl 0.39 0.39 0.39 0.39 0.39 0.39	18.85 Maximum 0.52 0.52 0.52 0.51 0.51	9.65 Minimum 0.15 0.24 0.24 0.24 0.24
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Daily Sum fr Daily Values Daily Sum fr	rom Hourty s: The Daily re rom Hourty: Th ENDS/HO Hour 1.00 2.00 3.00 4.00 5.00 6.00 7.00	13.23 sults as the st me aggregated DLIDAYS Mean 0.34 0.34 0.34 0.34 0.34 0.35 0.35 0.35 0.40	15.31 atistics are a Daily results Mean+1Std 0.39 0.39 0.39 0.39 0.39 0.39 0.39 0.39	11.15 pplied on da as the statis Mean-1Std 0.29 0.29 0.29 0.29 0.29 0.30 0.31 0.34	11.28 ily data. stics are appl 10th Percti 0.29 0.29 0.29 0.29 0.30 0.30 0.35	11.71 ied on Hour-o 25th Perctí 0.30 0.30 0.30 0.30 0.31 0.32 0.36	12.48 of-Day data. 50th Perctl 0.34 0.34 0.34 0.34 0.35 0.35 0.35	14.53 75th Percti 0.38 0.37 0.37 0.37 0.37 0.38 0.39 0.41	16.77 90th Perct 0.39 0.39 0.39 0.39 0.39 0.39 0.39 0.39	18.85 Maximum 0.52 0.52 0.52 0.51 0.52 0.53 0.53	9.65 Minimum 0.15 0.24 0.24 0.24 0.24 0.24 0.23 0.29
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Daily Sum fr Daily Values Daily Sum fr	om Hourty s: The Daily re rom Hourty: Th ENDS/HO Hour 1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00 17.00 18.00 19.00	13.23 sufts as the st ne aggregated LIDAYS Mean 0.34 0.34 0.34 0.35 0.35 0.40 0.41 0.41 0.41 0.41 0.41 0.41 0.41	15.31 atistics are a Daily results Mean+1Std 0.39 0.39 0.39 0.39 0.39 0.39 0.39 0.40 0.46 0.47 0.46 0.47 0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.48	11.15 pplied on da as the statis 0.29 0.29 0.29 0.29 0.29 0.30 0.31 0.34 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35	11.28 ily data. stics are appl 0.29 0.29 0.29 0.29 0.30 0.30 0.35 0.35 0.35 0.35 0.35 0.35	11.71 ied on Hour- 0.30 0.30 0.30 0.30 0.30 0.30 0.31 0.32 0.36 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	12.48 50th Percti 0.34 0.34 0.34 0.35 0.35 0.35 0.37 0.39 0.38 0.35	14.53 75th Percti 0.38 0.37 0.37 0.37 0.37 0.38 0.41 0.42 0.43 0.43 0.43 0.43 0.44 0.45 0.45 0.45 0.45 0.45 0.45 0.44 0.41 0.39 0.39	90th Perctl 0.39 0.39 0.39 0.39 0.39 0.39 0.39 0.50 0.51 0.52 0.52 0.53 0.53 0.53 0.53 0.53 0.53 0.53 0.53	18.85 Maximum 0.52 0.52 0.52 0.53 0.53 0.53 0.55 0.56 0.55 0.56 0.57 0.57 0.57 0.57 0.57 0.57 0.55 0.55	9.65 Minimum 0.15 0.24 0.24 0.24 0.24 0.29 0.31 0.31 0.31 0.31 0.31 0.31 0.31 0.31
Daily Sum fr Daily Values Daily Sum fr	rom Hourty s: The Daily re- rom Hourty: The ENDS/HO Hour 1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 14.00 15.00 14.00 15.00 16.00 17.00 18.00 19.00 20.00	13.23 sults as the st e aggregated DLIDAYS Mean 0.34 0.34 0.34 0.35 0.35 0.40 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.43 0.41	15.31 atistics are a Daily results 0.39 0.39 0.39 0.39 0.39 0.39 0.40 0.46 0.47 0.47 0.47 0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.48	11.15 pplied on da as the statis 0.29 0.29 0.29 0.29 0.30 0.31 0.34 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35	11.28 ily data. stics are appl 0.29 0.29 0.29 0.29 0.30 0.30 0.35 0.35 0.35 0.35 0.35 0.35	11.71 ied on Hour- 0.30 0.30 0.30 0.30 0.30 0.30 0.31 0.32 0.36 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	12.48 of-Day data. 0.34 0.34 0.34 0.35 0.35 0.35 0.35 0.38 0.35 0.3	14.53 75th Percti 0.38 0.37 0.37 0.37 0.37 0.38 0.41 0.42 0.43 0.43 0.43 0.43 0.44 0.45 0.45 0.45 0.45 0.45 0.45 0.45	90th Perctl 0.39 0.39 0.39 0.39 0.39 0.40 0.50 0.51 0.52 0.53 0.53 0.53 0.53 0.53 0.53 0.53 0.53	18.85 Maximum 0.52 0.52 0.52 0.52 0.53 0.53 0.53 0.55 0.56 0.55 0.56 0.57 0.57 0.57 0.57 0.57 0.57 0.55 0.55	9.65 Minimum 0.15 0.24 0.24 0.24 0.24 0.29 0.31 0.31 0.31 0.31 0.31 0.31 0.31 0.31 0.31 0.31 0.32 0.29 0.28 0.28 0.28
Daily Sum fr Daily Values Daily Sum fr	rom Hourty s: The Daily re- rom Hourty: The ENDS/HO Hour 1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 14.00 15.00 14.00 15.00 16.00 17.00 18.00 19.00 20.00 21.00	13.23 suits as the st te aggregated DLIDAYS Mean 0.34 0.34 0.34 0.35 0.40 0.41 0.35 0.36 0.36	15.31 atistics are a Daily results 0.39 0.39 0.39 0.39 0.39 0.40 0.40 0.46 0.47 0.46 0.47 0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.48	11.15 pplied on da as the statis Mean-1Std 0.29 0.29 0.29 0.29 0.29 0.30 0.31 0.34 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.34 0.34 0.35 0.35 0.35 0.35 0.35 0.35 0.36 0.37 0.38 0.39 0.31	11.28 ily data. stics are appl 0.29 0.29 0.29 0.29 0.30 0.35 0.35 0.35 0.35 0.35 0.35 0.35	11.71 ied on Hour- 0.30 0.30 0.30 0.30 0.30 0.30 0.31 0.32 0.36 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	12.48 of-Day data. 0.34 0.34 0.34 0.34 0.35 0.35 0.35 0.37 0.39 0.38 0.35 0.3	14.53 75th Percti 0.38 0.37 0.37 0.37 0.38 0.39 0.41 0.42 0.43 0.43 0.43 0.43 0.44 0.45 0.45 0.45 0.45 0.45 0.45 0.45	90th Perctl 0.39 0.39 0.39 0.39 0.39 0.39 0.40 0.50 0.51 0.52 0.53 0.53 0.53 0.53 0.53 0.53 0.53 0.53	18.85 Maximum 0.52 0.52 0.52 0.52 0.53 0.53 0.53 0.55 0.56 0.55 0.56 0.57 0.57 0.57 0.57 0.57 0.57 0.55 0.55	9.65 Minimum 0.15 0.24 0.24 0.24 0.24 0.29 0.31 0.31 0.31 0.31 0.31 0.31 0.31 0.31
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Daily Sum fr Daily Values Daily Sum fr WEEKI	om Hourty s: The Daily re rom Hourty: Th ENDS/HO Hour 1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 13.00 14.00 15.00 14.00 15.00 14.00 15.00 14.00 15.00 20.00 21.00 22.00 23.00 24.00	13.23 suits as the st e aggregated DLIDAYS Mean 0.34 0.34 0.34 0.35 0.40 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.43 0.41	15.31 atistics are a Daily results 0.39 0.39 0.39 0.39 0.39 0.40 0.40 0.46 0.47 0.46 0.47 0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.48	11.15 pplied on da as the statis 0.29 0.29 0.29 0.29 0.30 0.31 0.34 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35	11.28 ily data. stics are appl 0.29 0.29 0.29 0.29 0.30 0.30 0.35 0.35 0.35 0.35 0.35 0.35	11.71 ied on Hour- 0.30 0.30 0.30 0.30 0.30 0.31 0.32 0.36 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	12.48 of-Day data. 0.34 0.34 0.34 0.34 0.35 0.35 0.35 0.35 0.37 0.39 0.38 0.36 0.35 0.36 0.36 0.36 0.35 0.36 0.56 0.56 0.56 0.56 0.56 0.56 0.56 0.56 0.56 0.56 0.56 0.56 0.56 0.56 0.56 0.56 0.56 0.56 0.56 0.5	14.53 75th Percti 0.38 0.37 0.37 0.37 0.38 0.39 0.41 0.42 0.43 0.43 0.43 0.44 0.45 0.45 0.45 0.45 0.45 0.45 0.45	90th Perctl 0.39 0.39 0.39 0.39 0.39 0.39 0.40 0.50 0.51 0.52 0.53 0.53 0.53 0.53 0.53 0.53 0.53 0.53	18.85 Maximum 0.52 0.52 0.52 0.52 0.53 0.53 0.53 0.55 0.56 0.55 0.56 0.57 0.57 0.57 0.57 0.57 0.57 0.57 0.57	9.65 Minimum 0.15 0.24 0.24 0.24 0.23 0.29 0.31 0.31 0.31 0.31 0.31 0.31 0.31 0.31

(Page 3) **Diversity Factors and Statistics**

Daily Values: The Daily results as the statistics are applied on daily data. Daily Sum from Hourly: The aggregated Daily results as the statistics are applied on Hour-of-Day data.

(Page 4)

1. DOE-2 Input Sample

This is an example of how to input <u>Lighting diversity factors</u> for a Large Office Building (State Office Bldg., Minnesota, MN) into the DOE-2 program. The calculated 50^{th} Percentile values are used in these schedules.

\$ WEEKDAY SCHEDULE \$
WKDAY = DAY-SCHEDULE
(1) (0.35) (2) (0.35) (3) (0.35) (4) (0.36) (5) (0.42) (6) (0.45)
(7) (0.50) (8) (0.62) (9) (0.68) (10) (0.71) (11) (0.71) (12) (0.70)
(13) (0.70) (14) (0.68) (15) (0.66) (16) (0.62) (17) (0.54) (18) (0.50)
(19) (0.49) (20) (0.48) (21) (0.46) (22) (0.42) (23) (0.36) (24) (0.36) ...

\$ WEEKEND SCHEDULE \$
WKEND = DAY-SCHEDULE
(1) (0.34) (2) (0.34) (3) (0.34) (4) (0.34) (5) (0.35) (6) (0.35)
(7) (0.37) (8) (0.39) (9) (0.38) (10) (0.38) (11) (0.38) (12) (0.38)
(13) (0.38) (14) (0.38) (15) (0.38) (16) (0.38) (17) (0.36) (18) (0.35)
(19) (0.35) (20) (0.35) (21) (0.36) (22) (0.36) (23) (0.34) (24) (0.35) ...

WORK = WEEK-SCHEDULE		(WE) WKEND	(HOL) WKEND
VAC = WEEK-SCHEDULE		(WE) WKEND	(HOL) WKEND
ELE-SCH = SCHEDULE	THRU JAN 1 VAC THRU JUL 4 VAC THRU NOV 24 VA THRU DEC 25 VA THRU DEC 31 VA	C THRU	TUL 3 WORK NOV 22 WORK DEC 24 WORK DEC 30 WORK

G-ZONE = SPACE-CONDITIONS LIGHTING-SCHEDULE = ELE-SCH LIGHTING-TYPE = REC-FLUOR-RV LIGHT-TO-SPACE = 0.8 LIGHTING-W/SQFT = 0.92 ...

The "LIGHT-TO-SPACE" and "LIGHTING-TYPE" values shown above are for illustrative purpose. Normally, the user would select these values based on the observed characteristics (or design) for the building considered.

The "LIGHTING-W/SQFT" value shown scales, the diversity factor to maximum observed value (W/ft^2) in the building for the period of Jan 1, 1998 - Dec 31, 1998.

The input file shown uses Weekends schedules for Holidays.

The Holidays shown in the input file are: New Year's Day, U.S. Independence Day, Thanksgiving, and Christmas. This assumes the user has selected the sub-commend "HOLIDAY = NO" in the "BUILDING LOCATION" commend of the "LOADS" input file. (Page 5)

2. BLAST Input Sample

MNL003

(Page 1) Building Descriptions: (MNL003)

(This section depends on the extent of information available on each building).

Building 710:

Building Name: Capitol Building.

Source of Data: The Energy Systems Laboratory, Texas A&M University.

Location: Minnesota, MN.

Category: Large Office Building, based on the CBECS classification.

Square footage: 366,805 ft².

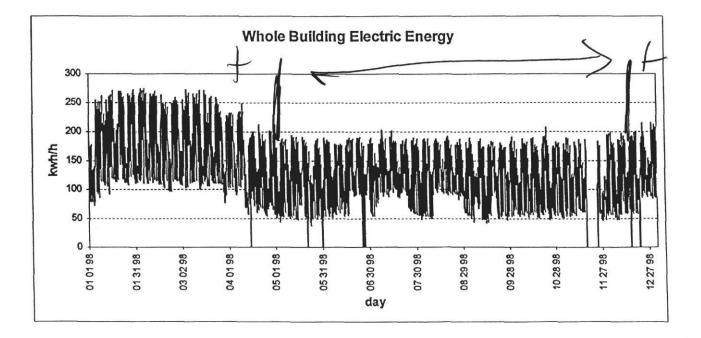
Lighting EUI: $[(13.54 \text{ x } 5) + (9.37 \text{ x } 2)] \text{ x } 52 \text{ x } 0.75 = 3.36 \text{ kWh/ft}^2.year$

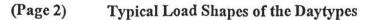
Lighting Type: N/A

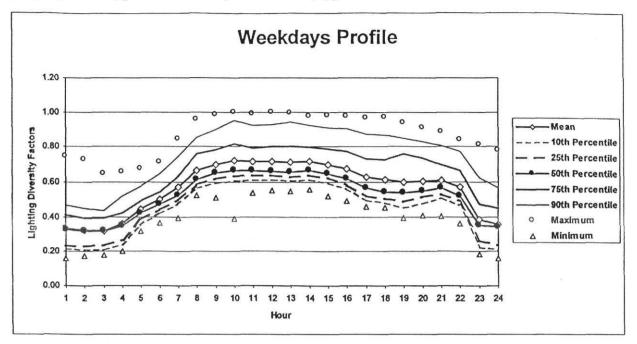
Dates: 1/1/98 - 12/31/98

Data Type: WBE = ch2539 + ch2540 + ch2541 + ch2542

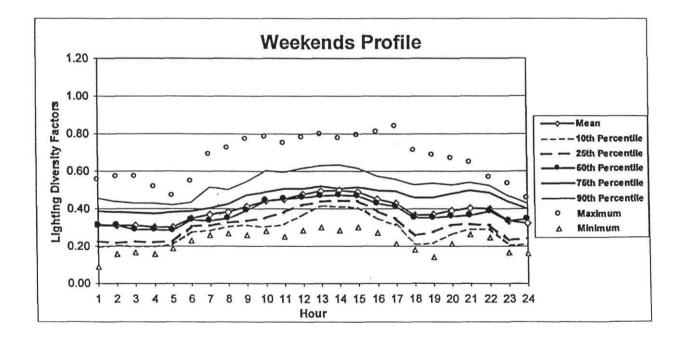
Maximum kW: 274 kW







*The dates that are excluded from the weekday profile are as follow: 1/1/98, 1/19/98, 2/16/98, 5/25/98, 7/3/98, 9/7/98, 11/11/98, 11/26/98, 11/27/98, and 12/25/98.



Γ	Hour	Mean	Mean+1Std	Mean-1Std	10th Perctl	25th Perctl	50th Perctl	75th Perctl	90th Perctl	Maximum	Minimum
	1.00	0.33	0.44	0.22	0.21	0.23	0.33	0.41	0.47	0.75	0.16
	2.00	0.32	0.42	0.22	0.21	0.23	0.32	0.39	0.45	0.73	0.18
	3.00	0.32	0.42	0.23	0.21	0.23	0.32	0.40	0.44	0.64	0.18
	4.00	0.36	0.47	0.25	0.24	0.27	0.35	0.42	0.52	0.66	0.20
	5.00	0.45	0.53	0.36	0.35	0.38	0.42	0.49	0.58	0.68	0.32
	6.00	0.50	0.59	0.42	0.42	0.44	0.47	0.54	0.65	0.71	0.37
L	7.00	0.57	0.68	0.47	0.47	0.50	0.53	0.63	0.75	0.84	0.40
	8.00	0.66	0.77	0.55	0.57	0.59	0.61	0.76	0.85	0.95	0.52
	9.00	0.70	0.82	0.58	0.60	0.62	0.65	0.78	0.90	0.98	0.51
	10.00	0.72	0.85	0.59	0.61	0.63	0.67	0.82	0.95	1.00	0.39
	11.00	0.72	0.83	0.60	0.61	0.64	0.67	0.79	0.92	0.99	0.54
	12.00	0.72	0.84	0.59	0.61	0.64	0.66	0.80	0.93	1.00	0.55
	13.00	0.71	0.84	0.59	0.61	0.63	0.65	0.80	0.94	0.99	0.55
	14.00	0.72	0.83	0.60	0.61	0.64	0.67	0.80	0.92	0.97	0.56
Γ	15.00	0.70	0.82	0.58	0.60	0.62	0.65	0.79	0.91	0.98	0.52
	16.00	0.68	0.81	0.55	0.56	0.59	0.62	0.77	0.90	0.98	0.49
	17.00	0.63	0.77	0.49	0.50	0.52	0.57	0.73	0.87	0.97	0.46
	18.00	0.62	0.77	0.46	0.48	0.51	0.54	0.73	0.87	0.97	0.45
	19.00	0.60	0.75	0.45	0.46	0.49	0.54	0.76	0.85	0.94	0.39
	20.00	0.61	0.74	0.47	0.48	0.51	0.55	0.73	0.83	0.91	0.41
	21.00	0.61	0.72	0.50	0.51	0.53	0.57	0.70	0.81	0.88	0.40
	22.00	0.57	0.69	0.45	0.47	0.49	0.52	0.66	0.77	0.84	0.36
	23.00	0.39	0.53	0.24	0.22	0.26	0.35	0.47	0.63	0.81	0.18
	24.00	0.36	0.49	0.22	0.21	0.23	0.34	0.45	0.57	0.78	0.16
aily Values		13.54	16.19	10.88	11.31	11.60	12.32	15.88	18.16	19.43	10.06
aily Sum fro aily Values:		13.55 ults as the	16.41 statistics are a	10.70 pplied on da	10.83 ly data.	11.43	12.55	15.63	18.27	20.95	9.26
-	m Hourly: The					ied on Hour-	of-Dav data.				

(Page 3) Diversity Factors and Statistics WEEKDAYS

WEEKENDS/HOLIDAYS

	Hour	Mean	Mean+1Std	Mean-1Std	10th Perctl	25th Perctl	50th Perctl	75th Perctl	90th Perctl	Maximum	Minimum
	1.00	0.31	0.42	0.21	0.20	0.22	0.31	0.39	0.46	0.55	0.09
	2.00	0.31	0.41	0.22	0.21	0.22	0.31	0.38	0.44	0.57	0.16
Г	3.00	0.31	0.40	0.22	0.20	0.23	0.29	0.38	0.43	0.57	0.16
Г	4.00	0.30	0.40	0.21	0.20	0.22	0.29	0.38	0.43	0.52	0.16
	5.00	0.30	0.39	0.22	0.21	0.23	0.28	0.38	0.42	0.47	0.19
Г	6.00	0.35	0.41	0.29	0.28	0.30	0.34	0.39	0.43	0.55	0.23
	7.00	0.37	0.46	0.28	0.29	0.31	0.34	0.40	0.51	0.69	0.26
	8.00	0.38	0.47	0.30	0.31	0.33	0.35	0.42	0.50	0.72	0.27
	9.00	0.41	0.51	0.32	0.31	0.34	0.39	0.47	0.55	0.77	0.26
Γ	10.00	0.44	0.55	0.34	0.31	0.35	0.44	0.49	0.61	0.78	0.28
	11.00	0.45	0.55	0.35	0.32	0.38	0.45	0.50	0.60	0.75	0.25
	12.00	0.47	0.57	0.38	0.37	0.42	0.46	0.51	0.62	0.78	0.28
	13.00	0.50	0.59	0.40	0.42	0.44	0.47	0.52	0.63	0.79	0.30
Г	14.00	0.50	0.59	0.41	0.41	0.44	0.47	0.51	0.64	0.78	0.29
Г	15.00	0.49	0.58	0.40	0.41	0.44	0.47	0.52	0.62	0.79	0.30
	16.00	0.45	0.55	0.35	0.35	0.39	0.43	0.50	0.58	0.81	0.27
	17.00	0.43	0.54	0.32	0.31	0.35	0.41	0.49	0.56	0.84	0.21
Г	18.00	0.36	0.49	0.24	0.21	0.26	0.35	0.46	0.53	0.71	0.18
Г	19.00	0.37	0.49	0.25	0.22	0.28	0.35	0.46	0.54	0.69	0.14
	20.00	0.39	0.50	0.28	0.27	0.31	0.36	0.48	0.53	0.67	0.21
	21.00	0.40	0.51	0.30	0.29	0.32	0.37	0.50	0.54	0.65	0.26
	22.00	0.40	0.49	0.31	0.29	0.32	0.39	0.49	0.52	0.57	0.25
	23.00	0.34	0.44	0.24	0.21	0.23	0.33	0.44	0.47	0.53	0.17
	24.00	0.32	0.41	0.24	0.21	0.24	0.34	0.40	0.43	0.46	0.16
ily Values		9.37	11.42	7.33	7.17	7.95	8.73	10.47	12.55	15.40	6.42
ily Sum fro	om Hourty	9.37	11.69	7.05	6.80	7.57	9.00	10.85	12.56	15.98	5,33

(Page 4)

1. DOE-2 Input Sample

This is an example of how to input <u>Lighting diversity factors</u> for a Large Office Building (Capitol Bldg., Minnesota, MN) into the DOE-2 program. The calculated 50^{th} **Percentile** values are used in these schedules.

\$ WEEKDAY SCHEDULE \$ WKDAY = DAY-SCHEDULE (1) (0.33) (2) (0.32) (3) (0.32) (4) (0.35) (5) (0.42) (6) (0.47) (7) (0.53) (8) (0.61) (9) (0.65) (10) (0.67) (11) (0.67) (12) (0.66) (13) (0.65) (14) (0.67) (15) (0.65) (16) (0.62) (17) (0.57) (18) (0.54) (19) (0.54) (20) (0.55) (21) (0.57) (22) (0.52) (23) (0.35) (24) (0.34) ...

\$ WEEKEND SCHEDULE \$ WKEND = DAY-SCHEDULE (1) (0.31) (2) (0.31) (3) (0.29) (4) (0.29) (5) (0.28) (6) (0.24) (7) (0.34) (8) (0.35) (9) (0.39) (10) (0.44) (11) (0.45) (12) (0.46) (13) (0.47) (14) (0.47) (15) (0.47) (16) (0.43) (17) (0.41) (18) (0.35) (19) (0.35) (20) (0.36) (21) (0.37) (22) (0.39) (23) (0.33) (24) (0.34) ...

WORK = WEEK-SCHEDULE VAC = WEEK-SCHEDULE	(WD) WKDAY (WD) WKEND	(WE) WKEND (WE) WKEND	(HOL) WKEND (HOL) WKEND
ELE-SCH = SCHEDULE	THRU JAN 1 VA		JUL 3 WORK
ELE-SCH = SCHEDULE	THRU JUL 4 VA	C THRU	NOV 22 WORK
	THRU NOV 24 V THRU DEC 25 V	AC THRU	DEC 24 WORK DEC 30 WORK
	THRU DEC 31 V	AC	
G-ZONE = SPACE-CONDITIONS			

G-ZONE = SPACE-CONDITIONS LIGHTING-SCHEDULE = ELE-SCH LIGHTING-TYPE = REC-FLUOR-RV LIGHT-TO-SPACE = 0.8 LIGHTING-W/SQFT = 0.75 ..

The "LIGHT-TO-SPACE" and "LIGHTING-TYPE" values shown above are for illustrative purpose. Normally, the user would select these values based on the observed characteristics (or design) for the building considered.

The "LIGHTING-W/SQFT" value shown scales, the diversity factor to maximum observed value (W/ft^2) in the building for the period of Jan 1, 1998 - Dec 31, 1998.

The input file shown uses Weekends schedules for Holidays.

The Holidays shown in the input file are: New Year's Day, U.S. Independence Day, Thanksgiving, and Christmas. This assumes the user has selected the sub-commend "HOLIDAY = NO" in the "BUILDING LOCATION" commend of the "LOADS" input file. (Page 5)

2. BLAST Input Sample

MNL004

(Page 1) Building Descriptions: (MNL004)

(This section depends on the extent of information available on each building).

Building 711:

Building Name: Centennial Building.

Source of Data: The Energy Systems Laboratory, Texas A&M University.

Location: Minnesota, MN.

Category: Large Office Building, based on the CBECS classification.

Square footage: $317,286 \text{ ft}^2$.

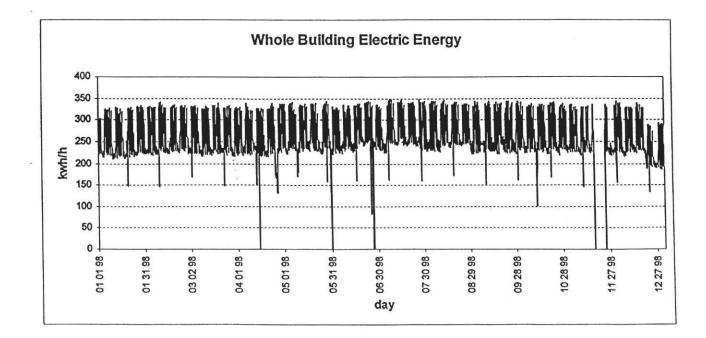
Lighting EUI: $[(19.43 \times 5) + (16.08 \times 2)] \times 52 \times 1.09 = 7.40 \text{ kWh/ft}^2$.year

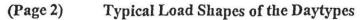
Lighting Type: N/A

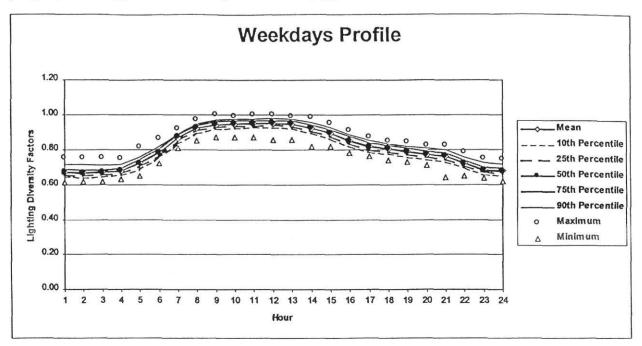
Dates: 1/1/98 - 12/31/98

Data Type: WBE = ch2545 + ch2546

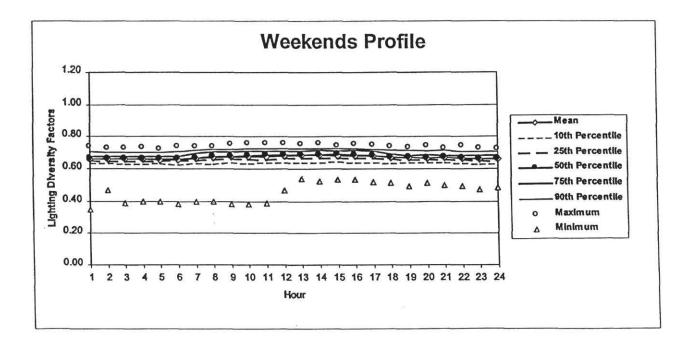
Maximum kW: 347 kW







*The dates that are excluded from the weekday profile are as follow: 1/1/98, 1/19/98, 2/16/98, 5/25/98, 9/7/98, 7/3/98, 11/11/98, 11/26/98, 11/27/98, and 12/21 - 12/31/98.



(Page 3) WEEKDAYS **Diversity Factors and Statistics**

	Hour	Mean	Mean+1Std	Mean-1Std	10th Perctl	25th Perctl	50th Perctl	75th Perctl	90th Perctl	Maximum	Minimun
	1.00	0.67	0.70	0.65	0.65	0.66	0.67	0.69	0.72	0.76	0.61
	2.00	0.67	0.70	0.64	0.64	0.65	0.67	0.68	0.72	0.75	0.62
	3.00	0.67	0.70	0.65	0.65	0.65	0.67	0.69	0.71	0.76	0.62
	4.00	0.68	0.71	0.66	0.65	0.67	0.68	0.69	0.72	0.75	0.63
	5.00	0.72	0.75	0.69	0.69	0.70	0.72	0.75	0.76	0.82	0.65
	6.00	0.79	0.81	0.76	0.75	0.77	0.78	0.81	0.82	0.86	0.72
	7.00	0.87	0.89	0.85	0.83	0.85	0.87	0.88	0.89	0.92	0.81
	8.00	0.92	0.94	0.90	0.90	0.91	0.92	0.94	0.95	0.97	0.85
	9.00	0.94	0.96	0.92	0.92	0.93	0.94	0.96	0.97	1.00	0.87
Γ	10.00	0.95	0.97	0.93	0.92	0.93	0.95	0.96	0.98	0.99	0.87
	11.00	0.95	0.97	0.93	0.93	0.93	0.95	0.97	0.98	1.00	0.87
	12.00	0.95	0.97	0.93	0.93	0.94	0.95	0.97	0.98	1.00	0.86
	13.00	0.95	0.97	0.93	0.92	0.93	0.95	0.96	0.97	0.99	0.86
	14.00	0.92	0.95	0.90	0.90	0.90	0.92	0.94	0.95	0.98	0.82
	15.00	0.89	0.92	0.87	0.86	0.88	0.90	0.91	0.93	0.95	0.82
	16.00	0.85	0.88	0.83	0.82	0.83	0.85	0.88	0.88	0.91	0.78
[17.00	0.82	0.84	0.79	0.79	0.80	0.82	0.84	0.85	0.87	0.76
Г	18.00	0.81	0.83	0.78	0.78	0.79	0.80	0.83	0.83	0.85	0.74
	19.00	0.79	0.81	0.77	0.76	0.77	0.79	0.81	0.82	0.85	0.73
[20.00	0.77	0.80	0.75	0.75	0.76	0.77	0.79	0.81	0.83	0.71
Γ	21.00	0.76	0.79	0.74	0.73	0.75	0.76	0.78	0.80	0.83	0.64
	22.00	0.73	0.75	0.70	0.70	0.71	0.72	0.74	0.76	0.79	0.65
	23.00	0.69	0.71	0.66	0.66	0.67	0.68	0.70	0.72	0.75	0.64
	24.00	0.68	0.70	0.65	0.65	0.66	0.68	0.69	0.72	0.74	0.62
aily Values		19.43	19.89	18.96	18.85	19.13	19.38	19.73	20.07	20.62	18.20
aily Sum for	y Sum from Hourty 19.46 2		20.04	18.88	18.77	19.05	19.41	19.86	20.25	20.91	17.77

Daily Sum from Hourly: The aggregated Daily results as the statistics are applied on Hour-of-Day data.

WEEKENDS/HOLIDAYS

	Hour	Mean	Mean+1Std	Mean-1Std	10th Perctl	25th Perctl	50th Perctl	75th Perctl	90th Perctl	Maximum	Minimun
	1.00	0.66	0.71	0.61	0.63	0.65	0.66	0.68	0.70	0.74	0.35
	2.00	0.66	0.69	0.63	0.64	0.65	0.66	0.68	0.70	0.72	0.47
	3.00	0.66	0.70	0.62	0.63	0.65	0.66	0.67	0.70	0.73	0.39
	4.00	0.66	0.70	0.62	0.63	0.65	0.66	0.68	0.70	0.73	0.40
	5.00	0.66	0.70	0.61	0.63	0.65	0.66	0.68	0.70	0.72	0.40
Г	6.00	0.66	0.70	0.61	0.63	0.65	0.66	0.68	0.71	0.74	0.39
Г	7.00	0.67	0.72	0.62	0.64	0.65	0.67	0.70	0.72	0.73	0.40
	8.00	0.67	0.72	0.62	0.63	0.65	0.68	0.71	0.72	0.74	0.40
Г	9.00	0.67	0.73	0.62	0.64	0.66	0.68	0.70	0.72	0.75	0.38
	10.00	0.68	0.73	0.62	0.64	0.66	0.68	0.71	0.72	0.75	0.38
	11.00	0.68	0.73	0.63	0.64	0.66	0.68	0.71	0.72	0.75	0.39
	12.00	0.68	0.73	0.64	0.64	0.66	0,69	0.71	0.73	0.76	0.47
Г	13.00	0.68	0.73	0.64	0.64	0.67	0.69	0.71	0.72	0.75	0.54
	14.00	0.68	0.73	0.64	0.64	0.66	0.69	0.71	0.72	0.75	0.52
	15.00	0.68	0.72	0.64	0.65	0.67	0.69	0.71	0.72	0.74	0.54
	16.00	0.68	0.72	0,64	0.64	0,66	0.68	0.71	0.73	0.75	0.54
Γ	17.00	0.68	0.72	0.64	0.64	0.66	0.68	0.71	0.72	0.75	0.52
	18.00	0.67	0.71	0.64	0.64	0.66	0.67	0.69	0.71	0.74	0.51
Г	19.00	0.67	0.70	0.63	0.64	0.66	0.67	0.68	0.71	0.73	0.50
Γ	20.00	0.67	0.70	0.63	0.64	0.66	0.67	0.68	0.71	0.74	0.51
Γ	21.00	0.67	0.70	0.63	0.64	0.66	0.67	0.68	0.71	0.73	0.50
Γ	22.00	0.66	0.70	0.63	0.63	0.65	0.67	0.68	0.71	0.74	0.49
Γ	23.00	0.66	0.70	0.63	0.63	0.65	0.66	0.68	0.71	0.73	0.48
	24.00	0.66	0.70	0.63	0.63	0.65	0.66	0.68	0.71	0.72	0.48
ily Values		16.08	16.96	15.20	15.26	15.74	16.17	16.64	17.00	17.59	12.8
	om Hourly : The Daily re	16.08	17.09	15.07	15.29	15.73	16.13	16.63	17.15	17.73	10.9

Daily Sum from Hourly: The aggregated Daily results as the statistics are applied on Hour-of-Day data.

(Page 4)

1. DOE-2 Input Sample

This is an example of how to input <u>Lighting diversity factors</u> for a Large Office Building (Centennial Bldg., Minnesota, MN) into the DOE-2 program. The calculated 50^{th} **Percentile** values are used in these schedules.

\$ WEEKDAY SCHEDULE \$ WKDAY = DAY-SCHEDULE (1) (0.67) (2) (0.67) (3) (0.67) (4) (0.68) (5) (0.72) (6) (0.78) (7) (0.87) (8) (0.92) (9) (0.94) (10) (0.95) (11) (0.95) (12) (0.95) (13) (0.95) (14) (0.95) (15) (0.90) (16) (0.85) (17) (0.82) (18) (0.80) (19) (0.79) (20) (0.77) (21) (0.76) (22) (0.72) (23) (0.68) (24) (0.68) ...

\$ WEEKEND SCHEDULE \$ WKEND = DAY-SCHEDULE (1) (0.66) (2) (0.66) (3) (0.66) (4) (0.66) (5) (0.66) (6) (0.66) (7) (0.67) (8) (0.68) (9) (0.68) (10) (0.68) (11) (0.68) (12) (0.69) (13) (0.69) (14) (0.69) (15) (0.69) (16) (0.68) (17) (0.68) (18) (0.67) (19) (0.67) (20) (0.67) (21) (0.67) (22) (0.67) (23) (0.66) (24) (0.66) ...

WORK = WEEK-SCHEDULE	(WD) WKDAY	(WE) WKEND	(HOL) WKEND
VAC = WEEK-SCHEDULE	(WD) WKEND	(WE) WKEND	(HOL) WKEND
ELE-SCH = SCHEDULE	THRU JAN 1 VA THRU JUL 4 VA THRU NOV 24 V THRU DEC 25 V THRU DEC 31 V	C THRU VAC THRU VAC THRU	JUL 3 WORK NOV 22 WORK DEC 24 WORK DEC 30 WORK

G-ZONE = SPACE-CONDITIONS LIGHTING-SCHEDULE = ELE-SCH LIGHTING-TYPE = REC-FLUOR-RV LIGHT-TO-SPACE = 0.8 LIGHTING-W/SQFT = 1.09 ..

The "LIGHT-TO-SPACE" and "LIGHTING-TYPE" values shown above are for illustrative purpose. Normally, the user would select these values based on the observed characteristics (or design) for the building considered.

The "LIGHTING-W/SQFT" value shown scales, the diversity factor to maximum observed value (W/ft^2) in the building for the period of Jan 1, 1998 - Dec 31, 1998.

The input file shown uses Weekends schedules for Holidays.

The Holidays shown in the input file are: New Year's Day, U.S. Independence Day, Thanksgiving, and Christmas. This assumes the user has selected the sub-commend "HOLIDAY = NO" in the "BUILDING LOCATION" commend of the "LOADS" input file. (Page 5) (Page 5)

2. BLAST Input Sample

MNM002

(Page 1) Building Descriptions: (MNM002)

(This section depends on the extent of information available on each building).

Building 709:

Building Name: Veterans Building.

Source of Data: The Energy Systems Laboratory, Texas A&M University.

Location: Minnesota, MN.

Category: Medium Office Building, based on the CBECS classification.

Square footage: $87,664 \text{ ft}^2$.

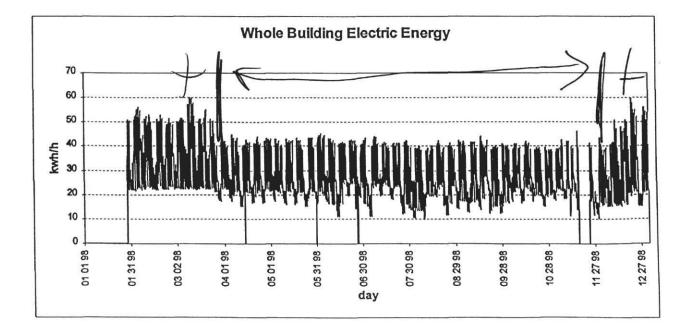
Lighting EUI: $[(12.81 \text{ x 5}) + (8.50 \text{ x 2})] \text{ x 52 x } 0.69 = 2.89 \text{ kWh/ft}^2$.year

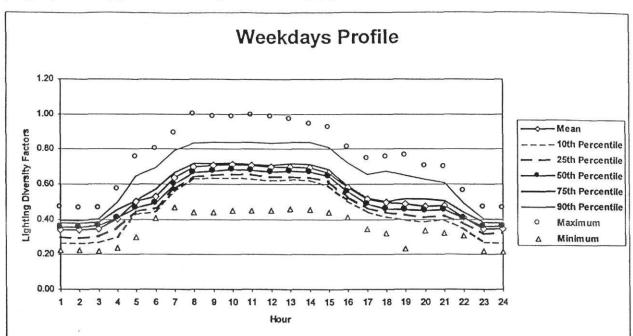
Lighting Type: N/A

Dates: 1/1/98 - 12/31/98

Data Type: WBE = ch2532

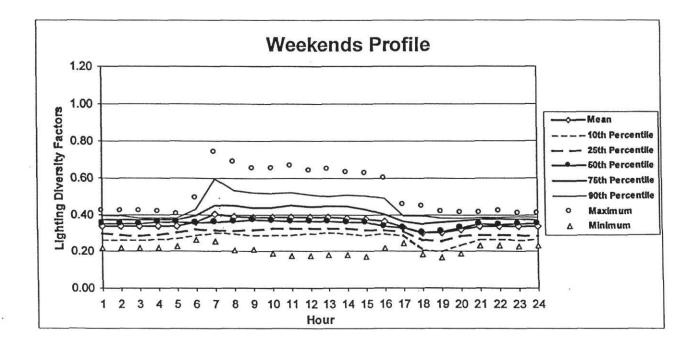
Maximum kW: 60 kW





(Page 2) Typical Load Shapes of the Daytypes

*The dates that are excluded from the weekday profile are as follow: 5/25/98, 7/3/98, 9/7/98, 11/11/98, 11/26/98, 11/27/98, and 12/25/98.



WEEKD											
	Hour	Mean	Mean+1Std	Mean-1Std	10th Perctl	25th Perctl	50th Perctl	75th Perctl	90th Perctl	Maximum	Minimum
	1.00	0.34	0.39	0.29	0.27	0.30	0.36	0.38	0.39	0.47	0.23
	2.00	0.34	0.39	0.29	0.27	0.30	0.36	0.38	0.39	0.47	0.23
	3.00	0.35	0.40	0.30	0.27	0.30	0.37	0.38	0.40	0.47	0.22
	4.00	0.41	0.48	0.33	0.30	0.35	0.41	0.46	0.50	0.57	0.24
	5.00	0.50	0.59	0.41	0.43	0.44	0.47	0.50	0.65	0.76	0.30
	6.00	0.53	0.62	0.43	0.44	0.47	0.49	0.57	0.69	0.80	0.41
	7.00	0.64	0.73	0.54	0.56	0.58	0.60	0.66	0.79	0.89	0.47
	8.00	0.70	0.79	0.61	0.63	0.64	0.66	0.72	0.84	1.00	0.44
	9.00	0.71	0.79	0.62	0.64	0.65	0.67	0.72	0.84	0.99	0.44
	10.00	0.71	0.80	0.63	0.64	0.66	0.68	0.72	0.84	0.99	0.45
	11.00	0.71	0.79	0.62	0.63	0.66	0.68	0.71	0.84	0.99	0.45
	12.00	0.70	0.78	0.61	0.63	0.64	0.67	0.71	0.84	0.98	0.45
	13.00	0.70	0.78	0.61	0.63	0.64	0.67	0.72	0.84	0.97	0.46
	14.00	0.69	0.78	0.61	0.62	0.64	0.67	0.71	0.84	0.94	0.46
	15.00	0.67	0.75	0.58	0.59	0.62	0.65	0.68	0.81	0.92	0.44
	16.00	0.58	0.66	0.50	0.51	0.53	0.56	0.59	0.72	0.81	0.41
	17.00	0.51	0.60	0.43	0.44	0.47	0.49	0.52	0.66	0.74	0.35
	18.00	0.50	0.59	0.40	0.42	0.44	0.46	0.50	0.67	0.76	0.33
	19.00	0.49	0.58	0.39	0.40	0.43	0.46	0.51	0.65	0.77	0.23
	20.00	0.47	0.56	0.39	0.39	0.41	0.45	0.52	0.63	0.70	0.34
	21.00	0.48	0.56	0.40	0.40	0.42	0.46	0.50	0.61	0.70	0.32
	22.00	0.41	0.47	0.36	0.35	0.38	0.41	0.44	0.49	0.56	0.31
	23.00	0.35	0.40	0.30	0.27	0.32	0.36	0.38	0.40	0.47	0.22
	24.00	0.35	0.40	0.30	0.27	0.32	0.36	0.38	0.40	0.47	0.22
Daily Values		12.81	14.41	11.21	11.37	11.79	12.32	12.94	15.59	17.48	9.86
Daily Sum from	m Hourty	12.83	14.68	10.98	11.00	11.61	12.40	13.38	15.73	18.18	8.40
Daily Values:	The Daily res	ults as the s	tatistics are a	pplied on da	ily data.						
Daily Sum from				as the statis	stics are appl	ied on Hour-	of-Day data.				
WEEKE		-	and the second second second second	1		1 0511 D 11	1 cou p		0011 D		Lie i
	Hour	Mean	Mean+1Std		10th Perctl	25th Perctl	50th Perct	75th Perct	90th Perctl	Maximum	Minimum
F	1.00	0.34			110000000000000000000000000000000000000						
- F			0.39	0.29	0.26	0.30	0.35	0.37	0.39	0.42	0.22
	2.00	0.34	0.39	0.29	0.26	0.29	0.35	0.37	0.39	0.42	0.22
-	3.00	0.34 0.34	0.39 0.39	0.29 0.29	0.26 0.26	0.29 0.29	0.35 0.35	0.37 0.37	0.39 0.38	0.42 0.42	0.22 0.22 0.22
	3.00 4.00	0.34 0.34 0.34	0.39 0.39 0.39	0.29 0.29 0.29	0.26 0.26 0.27	0.29 0.29 0.29	0.35 0.35 0.36	0.37 0.37 0.37	0.39 0.38 0.38	0.42 0.42 0.42	0.22 0.22 0.22 0.22
	3.00 4.00 5.00	0.34 0.34 0.34 0.34	0.39 0.39 0.39 0.39	0.29 0.29 0.29 0.29	0.26 0.26 0.27 0.27	0.29 0.29 0.29 0.30	0.35 0.35 0.36 0.36	0.37 0.37 0.37 0.37	0.39 0.38 0.38 0.38	0.42 0.42 0.42 0.40	0.22 0.22 0.22 0.22 0.22 0.23
	3.00 4.00 5.00 6.00	0.34 0.34 0.34 0.34 0.36	0.39 0.39 0.39 0.39 0.39 0.41	0.29 0.29 0.29 0.29 0.29 0.31	0.26 0.26 0.27 0.27 0.29	0.29 0.29 0.29 0.30 0.32	0.35 0.35 0.36 0.36 0.35	0.37 0.37 0.37 0.37 0.37 0.40	0.39 0.38 0.38 0.38 0.38 0.43	0.42 0.42 0.42 0.40 0.49	0.22 0.22 0.22 0.22 0.23 0.23
	3.00 4.00 5.00 6.00 7.00	0.34 0.34 0.34 0.34 0.36 0.40	0.39 0.39 0.39 0.39 0.39 0.41 0.52	0.29 0.29 0.29 0.29 0.29 0.31 0.29	0.26 0.26 0.27 0.27 0.29 0.30	0.29 0.29 0.29 0.30 0.32 0.32	0.35 0.35 0.36 0.36 0.35 0.35	0.37 0.37 0.37 0.37 0.37 0.40 0.45	0.39 0.38 0.38 0.38 0.43 0.60	0.42 0.42 0.42 0.40 0.49 0.74	0.22 0.22 0.22 0.22 0.23 0.23 0.26
	3.00 4.00 5.00 6.00 7.00 8.00	0.34 0.34 0.34 0.34 0.36 0.40 0.39	0.39 0.39 0.39 0.39 0.41 0.52 0.49	0.29 0.29 0.29 0.29 0.31 0.29 0.29 0.29	0.26 0.27 0.27 0.27 0.29 0.30 0.30	0.29 0.29 0.29 0.30 0.32 0.32 0.31	0.35 0.35 0.36 0.36 0.35 0.36 0.36 0.37	0.37 0.37 0.37 0.37 0.37 0.40 0.45 0.45	0.39 0.38 0.38 0.38 0.43 0.60 0.53	0.42 0.42 0.42 0.40 0.49 0.74 0.69	0.22 0.22 0.22 0.22 0.23 0.26 0.26 0.20
	3.00 4.00 5.00 6.00 7.00 8.00 9.00	0.34 0.34 0.34 0.34 0.36 0.40 0.39 0.39	0.39 0.39 0.39 0.39 0.41 0.52 0.49 0.48	0.29 0.29 0.29 0.29 0.31 0.29 0.29 0.29 0.29	0.26 0.27 0.27 0.27 0.29 0.30 0.30 0.29	0.29 0.29 0.30 0.32 0.32 0.32 0.31 0.32	0.35 0.35 0.36 0.36 0.35 0.36 0.37 0.37	0.37 0.37 0.37 0.37 0.40 0.45 0.45 0.45 0.44	0.39 0.38 0.38 0.43 0.60 0.53 0.52	0.42 0.42 0.42 0.40 0.49 0.74 0.69 0.65	0.22 0.22 0.22 0.22 0.23 0.26 0.26 0.20 0.21
	3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00	0.34 0.34 0.34 0.34 0.36 0.40 0.39 0.39 0.39	0.39 0.39 0.39 0.39 0.41 0.52 0.49 0.48 0.48	0.29 0.29 0.29 0.29 0.31 0.29 0.29 0.29 0.29	0.26 0.27 0.27 0.27 0.29 0.30 0.30 0.30 0.29 0.29	0.29 0.29 0.30 0.32 0.32 0.32 0.31 0.32 0.32	0.35 0.35 0.36 0.36 0.35 0.36 0.37 0.37 0.37	0.37 0.37 0.37 0.37 0.40 0.45 0.45 0.44 0.44	0.39 0.38 0.38 0.43 0.60 0.53 0.52 0.52	0.42 0.42 0.42 0.40 0.49 0.74 0.69 0.65 0.65	0.22 0.22 0.22 0.23 0.26 0.26 0.26 0.20 0.21 0.19
	3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00	0.34 0.34 0.34 0.34 0.36 0.40 0.39 0.39 0.39 0.39	0.39 0.39 0.39 0.39 0.41 0.52 0.49 0.48 0.48 0.48	0.29 0.29 0.29 0.29 0.31 0.29 0.29 0.29 0.29 0.29 0.29	0.26 0.27 0.27 0.29 0.30 0.30 0.29 0.29 0.29	0.29 0.29 0.30 0.32 0.32 0.32 0.31 0.32 0.32 0.32	0.35 0.35 0.36 0.36 0.35 0.36 0.37 0.37 0.37 0.37	0.37 0.37 0.37 0.40 0.45 0.45 0.44 0.44 0.44	0.39 0.38 0.38 0.43 0.60 0.53 0.52 0.52 0.52	0.42 0.42 0.42 0.40 0.49 0.74 0.69 0.65 0.65 0.66	0.22 0.22 0.22 0.23 0.26 0.26 0.20 0.21 0.19 0.17
	3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00	0.34 0.34 0.34 0.36 0.40 0.39 0.39 0.39 0.39 0.39	0.39 0.39 0.39 0.41 0.52 0.49 0.48 0.48 0.48 0.48	0.29 0.29 0.29 0.29 0.31 0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.29	0.26 0.27 0.27 0.29 0.30 0.30 0.29 0.29 0.29 0.29 0.29 0.30	0.29 0.29 0.30 0.32 0.32 0.32 0.32 0.32 0.32 0.32	0.35 0.35 0.36 0.36 0.35 0.36 0.37 0.37 0.37 0.37 0.37	0.37 0.37 0.37 0.40 0.45 0.45 0.44 0.44 0.44 0.45 0.44	0.39 0.38 0.38 0.43 0.60 0.53 0.52 0.52 0.52 0.52	0.42 0.42 0.42 0.40 0.49 0.74 0.69 0.65 0.65 0.66 0.66	0.22 0.22 0.22 0.23 0.26 0.26 0.20 0.21 0.19 0.17 0.17
	3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 11.00 12.00 13.00	0.34 0.34 0.34 0.36 0.40 0.39 0.39 0.39 0.39 0.39 0.38 0.38	0.39 0.39 0.39 0.41 0.52 0.49 0.48 0.48 0.48 0.48 0.48 0.48	0.29 0.29 0.29 0.29 0.31 0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.29	0.26 0.27 0.27 0.29 0.30 0.30 0.29 0.29 0.29 0.29 0.29 0.30	0.29 0.29 0.30 0.32 0.32 0.32 0.32 0.32 0.32 0.32	0.35 0.35 0.36 0.36 0.35 0.36 0.37 0.37 0.37 0.37 0.37 0.36 0.37	0.37 0.37 0.37 0.40 0.45 0.45 0.44 0.44 0.44 0.45 0.44	0.39 0.38 0.38 0.43 0.60 0.53 0.52 0.52 0.52 0.52 0.51 0.50	0.42 0.42 0.42 0.40 0.49 0.74 0.69 0.65 0.65 0.66 0.66 0.64 0.65	0.22 0.22 0.22 0.23 0.26 0.26 0.20 0.21 0.19 0.17 0.17 0.18
	3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 11.00 12.00 13.00 14.00	0.34 0.34 0.34 0.36 0.40 0.39 0.39 0.39 0.39 0.39 0.39 0.38 0.38	0.39 0.39 0.39 0.41 0.52 0.49 0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.48	0.29 0.29 0.29 0.29 0.31 0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.29	0.26 0.27 0.27 0.29 0.30 0.30 0.29 0.29 0.29 0.29 0.29 0.30 0.30 0.30	0.29 0.29 0.30 0.32 0.32 0.32 0.32 0.32 0.32 0.32	0.35 0.35 0.36 0.36 0.35 0.36 0.37 0.37 0.37 0.37 0.37 0.36	0.37 0.37 0.37 0.40 0.45 0.45 0.44 0.44 0.44 0.45 0.44 0.45 0.44	0.39 0.38 0.38 0.43 0.60 0.53 0.52 0.52 0.52 0.52 0.51	0.42 0.42 0.42 0.40 0.49 0.74 0.69 0.65 0.65 0.66 0.66 0.64 0.65 0.63	0.22 0.22 0.22 0.23 0.26 0.26 0.20 0.21 0.19 0.17 0.17 0.18 0.18
	3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00	0.34 0.34 0.34 0.36 0.40 0.39 0.39 0.39 0.39 0.39 0.39 0.38 0.38 0.38	0.39 0.39 0.39 0.41 0.52 0.49 0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.48	0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.29	0.26 0.27 0.27 0.29 0.30 0.30 0.29 0.29 0.29 0.29 0.29 0.30 0.30 0.30 0.30	0.29 0.29 0.30 0.32 0.32 0.32 0.32 0.32 0.32 0.32	0.35 0.35 0.36 0.36 0.35 0.36 0.37 0.37 0.37 0.37 0.37 0.36 0.36	0.37 0.37 0.37 0.40 0.45 0.45 0.45 0.44 0.44 0.45 0.44 0.45 0.44 0.45 0.45	0.39 0.38 0.38 0.43 0.60 0.53 0.52 0.52 0.52 0.52 0.51 0.50	0.42 0.42 0.42 0.40 0.49 0.74 0.69 0.65 0.65 0.65 0.66 0.64 0.65 0.63 0.63	0.22 0.22 0.22 0.23 0.26 0.26 0.20 0.21 0.19 0.17 0.17 0.18 0.18 0.17
	3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00	0.34 0.34 0.34 0.36 0.40 0.39 0.39 0.39 0.39 0.39 0.39 0.38 0.38 0.38 0.38 0.38	0.39 0.39 0.39 0.41 0.52 0.49 0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.48	0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.29	0.26 0.27 0.27 0.29 0.30 0.30 0.29 0.29 0.29 0.29 0.30 0.30 0.30 0.30 0.30	0.29 0.29 0.30 0.32 0.32 0.32 0.32 0.32 0.32 0.32	0.35 0.35 0.36 0.36 0.35 0.36 0.37 0.37 0.37 0.37 0.37 0.37 0.36 0.36 0.36 0.36	0.37 0.37 0.37 0.40 0.45 0.45 0.45 0.44 0.44 0.45 0.44 0.45 0.44 0.45 0.45	0.39 0.38 0.38 0.43 0.60 0.53 0.52 0.52 0.52 0.52 0.51 0.50 0.51 0.50 0.49	0.42 0.42 0.42 0.40 0.49 0.74 0.69 0.65 0.65 0.65 0.66 0.64 0.65 0.63 0.63 0.63	0.22 0.22 0.22 0.23 0.26 0.26 0.20 0.21 0.19 0.17 0.17 0.18 0.18 0.18 0.17 0.22
	3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00 17.00	0.34 0.34 0.34 0.36 0.40 0.39 0.39 0.39 0.39 0.39 0.39 0.38 0.38 0.38 0.38 0.38 0.38 0.38	0.39 0.39 0.39 0.41 0.52 0.49 0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.48	0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.29	0.26 0.27 0.27 0.29 0.30 0.30 0.29 0.29 0.29 0.29 0.30 0.30 0.30 0.30 0.30 0.30 0.29 0.30	0.29 0.29 0.29 0.30 0.32 0.32 0.32 0.32 0.32 0.32 0.32	0.35 0.35 0.36 0.36 0.35 0.36 0.37 0.37 0.37 0.37 0.37 0.37 0.36 0.36 0.36 0.36 0.34 0.33	0.37 0.37 0.37 0.40 0.45 0.45 0.45 0.44 0.44 0.45 0.44 0.45 0.44 0.45 0.45	0.39 0.38 0.38 0.43 0.60 0.53 0.52 0.52 0.52 0.52 0.51 0.50 0.51 0.50 0.49 0.39	0.42 0.42 0.42 0.40 0.49 0.69 0.65 0.65 0.65 0.66 0.64 0.65 0.63 0.63 0.63 0.60	0.22 0.22 0.22 0.23 0.26 0.26 0.20 0.21 0.19 0.17 0.17 0.17 0.18 0.18 0.17 0.22 0.24
	3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00 17.00 18.00	0.34 0.34 0.34 0.36 0.40 0.39 0.39 0.39 0.39 0.39 0.39 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38	0.39 0.39 0.39 0.41 0.52 0.49 0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.48	0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.29	0.26 0.27 0.27 0.29 0.30 0.30 0.29 0.29 0.29 0.29 0.30 0.30 0.30 0.30 0.30 0.30 0.29 0.30 0.29 0.30	0.29 0.29 0.29 0.30 0.32 0.32 0.32 0.32 0.32 0.32 0.32	0.35 0.35 0.36 0.36 0.35 0.36 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.36 0.36 0.36 0.36 0.34 0.33 0.30	0.37 0.37 0.37 0.40 0.45 0.45 0.45 0.44 0.44 0.45 0.44 0.45 0.45	0.39 0.38 0.38 0.43 0.60 0.53 0.52 0.52 0.52 0.52 0.51 0.50 0.51 0.50 0.51 0.50 0.49 0.39 0.39	0.42 0.42 0.42 0.40 0.49 0.74 0.69 0.65 0.65 0.65 0.66 0.64 0.65 0.63 0.63 0.63 0.60 0.46 0.45	0.22 0.22 0.22 0.23 0.26 0.26 0.20 0.21 0.19 0.17 0.17 0.17 0.18 0.18 0.18 0.17 0.22 0.24 0.18
	3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00 17.00 18.00 19.00	0.34 0.34 0.34 0.36 0.40 0.39 0.39 0.39 0.39 0.39 0.39 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.36 0.33 0.30	0.39 0.39 0.39 0.41 0.52 0.49 0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.48	0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.29	0.26 0.27 0.27 0.29 0.30 0.30 0.29 0.29 0.29 0.29 0.30 0.30 0.30 0.30 0.30 0.30 0.29 0.30 0.29 0.30	0.29 0.29 0.29 0.30 0.32 0.32 0.32 0.32 0.32 0.32 0.32	0.35 0.35 0.36 0.36 0.35 0.36 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	0.37 0.37 0.37 0.40 0.45 0.45 0.45 0.44 0.44 0.45 0.44 0.45 0.44 0.45 0.45	0.39 0.38 0.38 0.43 0.60 0.53 0.52 0.52 0.52 0.51 0.50 0.51 0.50 0.51 0.50 0.49 0.39 0.38	0.42 0.42 0.42 0.40 0.49 0.69 0.65 0.65 0.65 0.66 0.64 0.65 0.63 0.63 0.63 0.63 0.60 0.46 0.45 0.42	0.22 0.22 0.22 0.23 0.26 0.26 0.20 0.21 0.19 0.17 0.17 0.17 0.18 0.18 0.18 0.17 0.22 0.24 0.18 0.16
	3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00 17.00 18.00 19.00 20.00	0.34 0.34 0.34 0.36 0.40 0.39 0.39 0.39 0.39 0.39 0.39 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38	0.39 0.39 0.39 0.41 0.52 0.49 0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.48	0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.29	0.26 0.27 0.27 0.29 0.30 0.30 0.29 0.29 0.29 0.29 0.30 0.30 0.30 0.30 0.30 0.30 0.29 0.30 0.29 0.30 0.29 0.30 0.22 0.30 0.22 0.30 0.22 0.30 0.30	0.29 0.29 0.29 0.30 0.32 0.32 0.32 0.32 0.32 0.32 0.32	0.35 0.35 0.36 0.36 0.35 0.36 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.36 0.36 0.36 0.36 0.34 0.33 0.30 0.31 0.33	0.37 0.37 0.37 0.40 0.45 0.45 0.45 0.44 0.44 0.45 0.44 0.45 0.44 0.45 0.45	0.39 0.38 0.38 0.43 0.60 0.53 0.52 0.52 0.52 0.51 0.50 0.51 0.50 0.51 0.50 0.49 0.39 0.38 0.38	0.42 0.42 0.42 0.40 0.49 0.69 0.65 0.65 0.65 0.66 0.64 0.65 0.63 0.63 0.63 0.63 0.60 0.46 0.45 0.42 0.41	0.22 0.22 0.22 0.23 0.26 0.26 0.26 0.26 0.20 0.21 0.19 0.17 0.17 0.17 0.18 0.18 0.18 0.17 0.22 0.24 0.18 0.16 0.19
	3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 11.00 13.00 14.00 15.00 16.00 17.00 18.00 19.00 20.00 21.00	0.34 0.34 0.34 0.34 0.36 0.40 0.39 0.39 0.39 0.39 0.39 0.39 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38	0.39 0.39 0.39 0.39 0.41 0.52 0.49 0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.48	0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.29	0.26 0.27 0.27 0.29 0.30 0.30 0.29 0.29 0.29 0.29 0.30 0.30 0.30 0.30 0.30 0.30 0.29 0.30 0.29 0.30 0.29 0.30 0.22 0.30 0.22 0.30 0.22 0.30 0.22 0.30 0.30	0.29 0.29 0.29 0.30 0.32 0.32 0.32 0.32 0.32 0.32 0.32	0.35 0.35 0.36 0.36 0.35 0.36 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.36 0.37 0.36 0.36 0.34 0.33 0.30 0.31 0.33 0.35	0.37 0.37 0.37 0.40 0.45 0.45 0.45 0.44 0.45 0.44 0.45 0.44 0.45 0.44 0.45 0.45	0.39 0.38 0.38 0.43 0.60 0.53 0.52 0.52 0.52 0.51 0.50 0.51 0.50 0.51 0.50 0.51 0.50 0.39 0.38 0.38 0.38	0.42 0.42 0.42 0.40 0.49 0.69 0.65 0.65 0.65 0.66 0.64 0.65 0.63 0.63 0.63 0.63 0.63 0.60 0.46 0.45 0.42 0.41	0.22 0.22 0.22 0.23 0.26 0.26 0.26 0.26 0.20 0.21 0.19 0.17 0.17 0.17 0.18 0.18 0.18 0.18 0.117 0.22 0.24 0.18 0.19 0.23
	3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00 17.00 18.00 19.00 20.00 21.00 22.00	0.34 0.34 0.34 0.34 0.36 0.40 0.39 0.39 0.39 0.39 0.39 0.39 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38	0.39 0.39 0.39 0.41 0.52 0.49 0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.48	0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.29	0.26 0.27 0.27 0.29 0.30 0.30 0.29 0.29 0.29 0.29 0.30 0.30 0.30 0.30 0.30 0.29 0.30 0.29 0.30 0.29 0.30 0.22 0.30 0.22 0.30 0.22 0.30 0.22 0.30 0.30	0.29 0.29 0.29 0.30 0.32 0.32 0.32 0.32 0.32 0.32 0.32	0.35 0.35 0.36 0.36 0.35 0.36 0.37 0.37 0.37 0.37 0.37 0.37 0.36 0.37 0.36 0.36 0.36 0.34 0.33 0.30 0.31 0.35 0.35	0.37 0.37 0.37 0.40 0.45 0.45 0.45 0.44 0.45 0.44 0.45 0.44 0.45 0.44 0.45 0.43 0.40 0.36 0.35 0.36 0.37 0.38 0.38	0.39 0.38 0.38 0.43 0.60 0.53 0.52 0.52 0.52 0.51 0.50 0.51 0.50 0.51 0.50 0.51 0.50 0.39 0.38 0.38 0.39 0.39	0.42 0.42 0.42 0.40 0.49 0.69 0.65 0.65 0.65 0.66 0.64 0.65 0.63 0.63 0.63 0.63 0.63 0.63 0.63 0.46 0.45 0.42 0.41 0.41 0.42	0.22 0.22 0.22 0.23 0.26 0.26 0.26 0.20 0.21 0.19 0.17 0.17 0.17 0.18 0.18 0.18 0.18 0.18 0.18 0.18 0.119 0.22 0.24 0.18 0.19 0.23 0.23
	3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00 17.00 18.00 19.00 20.00 21.00 22.00 23.00	0.34 0.34 0.34 0.34 0.36 0.39 0.39 0.39 0.39 0.39 0.39 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38	0.39 0.39 0.39 0.39 0.41 0.52 0.49 0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.48	0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.29	0.26 0.27 0.27 0.29 0.30 0.30 0.29 0.29 0.29 0.29 0.30 0.30 0.30 0.30 0.30 0.29 0.30 0.29 0.30 0.29 0.30 0.29 0.30 0.22 0.22 0.22 0.22 0.22 0.22 0.22	0.29 0.29 0.29 0.30 0.32 0.32 0.32 0.32 0.32 0.32 0.32	0.35 0.35 0.36 0.36 0.35 0.36 0.37 0.37 0.37 0.37 0.37 0.37 0.36 0.37 0.36 0.37 0.36 0.34 0.33 0.30 0.31 0.33 0.35 0.35	0.37 0.37 0.37 0.40 0.45 0.45 0.45 0.44 0.45 0.44 0.45 0.44 0.45 0.44 0.45 0.43 0.40 0.36 0.35 0.36 0.37 0.38 0.38	0.39 0.38 0.38 0.43 0.60 0.53 0.52 0.52 0.52 0.51 0.50 0.51 0.50 0.51 0.50 0.49 0.39 0.39 0.38 0.38 0.39 0.39	0.42 0.42 0.42 0.40 0.49 0.74 0.69 0.65 0.65 0.65 0.65 0.65 0.63 0.63 0.63 0.63 0.63 0.63 0.63 0.45 0.45 0.42 0.41	0.22 0.22 0.22 0.23 0.26 0.26 0.20 0.21 0.19 0.17 0.17 0.17 0.18 0.18 0.18 0.17 0.22 0.24 0.18 0.18 0.19 0.23 0.23 0.23 0.23
Daily Values	3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00 17.00 18.00 19.00 20.00 21.00 22.00 23.00 24.00	0.34 0.34 0.34 0.34 0.36 0.39 0.39 0.39 0.39 0.39 0.39 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38	0.39 0.39 0.39 0.41 0.52 0.49 0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.48	0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.29	0.26 0.27 0.27 0.29 0.30 0.30 0.29 0.29 0.29 0.29 0.30 0.30 0.30 0.30 0.30 0.29 0.30 0.29 0.30 0.29 0.30 0.29 0.30 0.22 0.22 0.22 0.22 0.22 0.22 0.22	0.29 0.29 0.29 0.30 0.32 0.32 0.32 0.32 0.32 0.32 0.32	0.35 0.35 0.36 0.36 0.35 0.36 0.37 0.37 0.37 0.37 0.37 0.37 0.36 0.37 0.36 0.37 0.36 0.34 0.33 0.30 0.31 0.33 0.35 0.35 0.35	0.37 0.37 0.37 0.40 0.45 0.45 0.45 0.44 0.45 0.44 0.45 0.44 0.45 0.44 0.45 0.43 0.40 0.36 0.35 0.36 0.37 0.38 0.38 0.37	0.39 0.38 0.38 0.43 0.60 0.53 0.52 0.52 0.52 0.51 0.50 0.51 0.50 0.51 0.50 0.39 0.39 0.38 0.39 0.39 0.39	0.42 0.42 0.42 0.40 0.49 0.74 0.69 0.65 0.65 0.65 0.65 0.65 0.65 0.63 0.63 0.63 0.63 0.63 0.63 0.63 0.45 0.45 0.42 0.41 0.41	0.22 0.22 0.22 0.23 0.26 0.26 0.26 0.20 0.21 0.19 0.17 0.17 0.17 0.18 0.18 0.18 0.17 0.22 0.24 0.18 0.18 0.16 0.19 0.23 0.23 0.23 0.23
Daily Values Daily Sum fro	3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00 17.00 18.00 19.00 20.00 21.00 22.00 23.00 24.00	0.34 0.34 0.34 0.34 0.36 0.39 0.39 0.39 0.39 0.39 0.39 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38	0.39 0.39 0.39 0.39 0.41 0.52 0.49 0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.48	0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.29	0.26 0.27 0.27 0.29 0.30 0.30 0.29 0.29 0.29 0.29 0.30 0.30 0.30 0.30 0.30 0.29 0.30 0.29 0.30 0.29 0.30 0.29 0.30 0.22 0.22 0.22 0.22 0.22 0.22 0.22	0.29 0.29 0.29 0.30 0.32 0.32 0.32 0.32 0.32 0.32 0.32	0.35 0.35 0.36 0.36 0.35 0.36 0.37 0.37 0.37 0.37 0.37 0.37 0.36 0.37 0.36 0.37 0.36 0.34 0.33 0.30 0.31 0.33 0.35 0.35	0.37 0.37 0.37 0.40 0.45 0.45 0.45 0.44 0.45 0.44 0.45 0.44 0.45 0.44 0.45 0.43 0.40 0.36 0.35 0.36 0.37 0.38 0.38	0.39 0.38 0.38 0.43 0.60 0.53 0.52 0.52 0.52 0.51 0.50 0.51 0.50 0.51 0.50 0.49 0.39 0.39 0.38 0.38 0.39 0.39	0.42 0.42 0.42 0.40 0.49 0.74 0.69 0.65 0.65 0.65 0.65 0.65 0.63 0.63 0.63 0.63 0.63 0.63 0.63 0.45 0.45 0.42 0.41	0.22 0.22 0.22 0.23 0.26 0.26 0.26 0.20 0.21 0.19 0.17 0.17 0.17 0.18 0.18 0.17 0.22 0.24 0.18 0.16 0.19 0.23 0.23 0.23

(Page 3) WEEKDA **Diversity Factors and Statistics**

8.50 10.17 6.83 6.55

Daily Values: The Daily results as the statistics are applied on daily data. Daily Sum from Hourly: The aggregated Daily results as the statistics are applied on Hour-of-Day data.

(Page 4)

1. DOE-2 Input Sample

This is an example of how to input <u>Lighting diversity factors</u> for a Large Office Building (Veterans Bldg., Minnesota, MN) into the DOE-2 program. The calculated 50^{th} Percentile values are used in these schedules.

\$ WEEKDAY SCHEDULE \$
WKDAY = DAY-SCHEDULE
(1) (0.36) (2) (0.36) (3) (0.37) (4) (0.41) (5) (0.47) (6) (0.49)
(7) (0.60) (8) (0.66) (9) (0.67) (10) (0.68) (11) (0.68) (12) (0.67)
(13) (0.67) (14) (0.67) (15) (0.65) (16) (0.56) (17) (0.49) (18) (0.46)
(19) (0.46) (20) (0.45) (21) (0.46) (22) (0.41) (23) (0.36) (24) (0.36) ...

\$ WEEKEND SCHEDULE \$ WKEND = DAY-SCHEDULE (1) (0.35) (2) (0.35) (3) (0.35) (4) (0.36) (5) (0.36) (6) (0.35) (7) (0.36) (8) (0.37) (9) (0.37) (10) (0.37) (11) (0.37) (12) (0.36) (13) (0.37) (14) (0.36) (15) (0.36) (16) (0.34) (17) (0.33) (18) (0.30) (19) (0.31) (20) (0.33) (21) (0.35) (22) (0.35) (23) (0.35) (24) (0.35) ...

WORK = WEEK-SCHEDULE	(WD) WKDAY	(WE) WKEND	(HOL) WKEND
VAC = WEEK-SCHEDULE	(WD) WKEND	(WE) WKEND	(HOL) WKEND
ELE-SCH = SCHEDULE	THRU JAN 1 VA THRU JUL 4 VAO THRU NOV 24 V THRU DEC 25 VA THRU DEC 31 VA	AC THRU	IUL 3 WORK NOV 22 WORK DEC 24 WORK DEC 30 WORK

G-ZONE = SPACE-CONDITIONS LIGHTING-SCHEDULE = ELE-SCH LIGHTING-TYPE = REC-FLUOR-RV LIGHT-TO-SPACE = 0.8 LIGHTING-W/SQFT = 0.69 ..

The "LIGHT-TO-SPACE" and "LIGHTING-TYPE" values shown above are for illustrative purpose. Normally, the user would select these values based on the observed characteristics (or design) for the building considered.

The "LIGHTING-W/SQFT" value shown scales, the diversity factor to maximum observed value (W/ft^2) in the building for the period of Jan 1, 1998 - Dec 31, 1998.

The input file shown uses Weekends schedules for Holidays.

The Holidays shown in the input file are: New Year's Day, U.S. Independence Day, Thanksgiving, and Christmas. This assumes the user has selected the sub-commend "HOLIDAY = NO" in the "BUILDING LOCATION" commend of the "LOADS" input file. (Page 5)

2. BLAST Input Sample