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My Projects	Dashboar	ds	My Pro	ofile	Му	Account					Welcome, Ry
Projects > Is	olated Buildi	na File									
Run List		1		Duala at I	Deteile	Ducie et Manu		1 14:1:4		Weather Stati	Not
	Run Charts	Proje	ct Defaults	Project I	Jetaiis	Project Mem	ibers	Utilit	y Information	weather Stati	on 🗾 Note
Run Name: Isolate	ed Building File										
Energy and Carb Results	on US EPA E Star		Water Usage	Photovo Analy		LEED Daylight	3D V Vie			ownload Data les	Design Alternatives
Project Template Ap Building File_defaul ocation: Stockton,	ti	-	g Type: Office rea: 345 ft²			ectric Cost: \$0.1 lel Cost: \$0.80 /		I	-	/ Data Used: Pro / Rates	ject Default
1 Base Run				Design	Alternat	ive			Carbon Footpr	int	
Energy, Carbon a	nd Cost Summary	/							Base Run Car	oon Neutral Pot	ential 💿
Annual En	ergy Cost \$1,648								Annual C	O ₂ Emissions	
Lifec	ycle Cost \$22,445								0	Base Run	N/A
Annual CO ₂ Emiss	ions								Onsite Renewa	ble Potential	N/A
	Electric 0.0 tons								Natural Ventilat	ion Potential	N/A
Oı	nsite Fuel 0.3 tons								Onsite	Biofuel Use	N/A
Large SUV E	Equivalent 0.0 SUV	's / Year							Net CO	Emissions	N/A
Annual Energy			с			ative to improve	e your			- Equivalent: N/A	A Contraction of the second seco
Energy Use Inten	sity (EUI) 151 kBtu	u / ft² / yea	ar	bu	uilding per	formance.			Assumptions (i)		1
	Electric 13,576 k	Wh									
	Fuel 59 Therr	ms							Electric Power	Plant Sources i	n Your Region
Annual Peak	Demand 4.9 kW									Fossil	N/A
Lifecycle Energy										Nuclear	N/A
	Electric 407,283	kW							ŀ	lydroelectric Renewable	N/A
	Fuel 1,768 Th	nerms								Other	N/A N/A
Assumptions									Assumptions		
LEED, Photov	oltaic, Wind Energ	gy, and N	atural Ventila	tion Poten	tial						
Energy End U											

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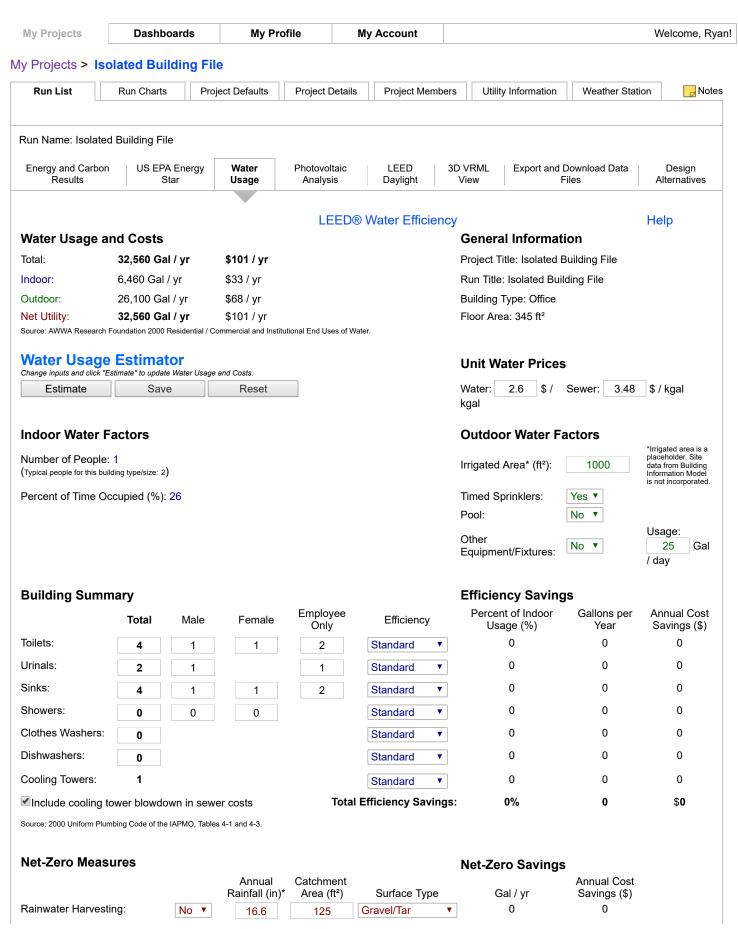
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Proje	ects >	Isolate	ed Building	g File							
Run L	.ist	Ru	n Charts	Project Defa	ults Project [Details Projec	t Members Utility	Information	Weat	her Station	D Note
un Nan	ne: Iso	lated Bui	Iding File								
Energy a Re	and Ca esults	rbon	US EPA Ener Star	gy Wate Usag			-	Export and	Download Files	l Data Desi Alterna	0
-		ulation S	-	our photovolta	ic payback period.	·					
Pane	el Type	?	- 13.8% efficie		Installed Panel Co \$8.00 \$1	102.62	ed Electric Cost \$0.12	Max Payba 50		Update	
					(per Watt) (pe	er ft²) (per	kWh)	(per surface	e, in years)	
stalled	d Pane	l Summa	ary								
		nd state en el Cost	ergy incentives, Installed Pan		· · · · · · · · · · · · · · · · · · ·	derating factors are co Production (kWh)	onsidered in this payback Potential Cost Sav		ır) Sys	stem Payback (yea	rs) 🕐
	^	F40.0F		93		2,170		\$255.8	-		28
te: The	calculat	510.85 Surface A ion assume iables			lows will have a lowe Shading Varia		lard wall and roof panels. Summary				
te: The	calculat	Surface A	es that BIPV pane	els used on win	Shading Varia	bles	Summary	Potential Co Savings	ost		
ote: The Surfac	oltaic \$ calculat ce Var	Surface A	es that BIPV pane					Potential Co Savings		Payback per Surface (years)	
ote: The Surfac	oltaic \$ calculat ce Var	Surface A ion assume iables Direction	es that BIPV pane	els used on wind	Shading Varia Solar	Obstruction	Summary Annual Energy	Potential Cc Savings per year/ft ²		Surface (years)	
ote: The Surfac	Ditaic S calculat ce Var	Surface A ion assume iables Direction E	that BIPV pane Tilt (degrees)	Panel Area (ft²)	Shading Varia Solar Exposure (?)	Obstruction Shading (?)	Summary Annual Energy (kWh) (2)	Potential Cc Savings per year/ft ² \$2.77	per year	Surface (years)	
ID aim15 24 aim16	Calculat Ce Var	Surface A ion assume iables Direction E	Tilt (degrees)	Panel Area (ft²) 21	Shading Varia Solar Exposure (?) 66.9 %	Obstruction Shading ?	Summary Annual Energy (kWh) (2 495	Potential Cc Savings per year/ft ² \$2.77	per year \$58	Surface (years)	27.8
ID aim15 24 aim16 39 aim15	Calculatic S calculatice Var	Surface A ion assume iables Direction E N S	es that BIPV pane Tilt (degrees) (?) 13 25	Panel Area (ft²) 21 72	Shading Varia Solar Exposure () 66.9 % 66.7 %	Obstruction Shading (?) 1.4 % 1.5 %	Summary Annual Energy (kWh) (2) 495 1,675	Potential Cc Savings per year/ft ² \$2.77 \$2.76 \$0.00	per year \$58 \$198	Surface (years)	27.8
ID aim15 24 aim15 62 aim15	Type Roof Roof	Surface A ion assume iables Direction E N S W	Tilt (degrees) (13 25 20	Panel Area (ft²) 21 72 2	Shading Varia Solar Exposure (?) 66.9 % 66.7 % 70.6 %	bles Obstruction Shading (?) 1.4 % 1.5 % 5.3 %	Summary Annual Energy (kWh) 495 1,675	Potential Cc Savings per year/ft ² \$2.77 \$2.76 \$2.76 \$0.00	per year \$58 \$198 \$0	Surface (years)	27.8 27.8
ID aim15 24 aim16 39 aim15 62 aim15 97 aim16	Ditaic S calculat ce Var Type Roof Roof Roof	Surface A ion assume iables Direction E N S W S	Tilt (degrees) (2) 13 25 20 15	Panel Area (ft²) 21 72 2 6	Shading Varia Solar Exposure (?) 66.9 % 66.7 % 70.6 % 64.8 %	bles Obstruction Shading ⑦ 1.4 % 1.5 % 5.3 % 0.0 %	Summary Annual Energy (kWh) @ 495 1,675 0 0	Potential Cc Savings per year/ft ² \$2.77 \$2.76 \$0.00 \$0.00	per year \$58 \$198 \$0 \$0	Surface (years)	27.8 27.8 0.0+
ID aim15 24 aim16 39 aim15 62 aim15 97 aim16 77 aim17	Ditaic S calculat ce Var Roof Roof Roof Roof	Surface A ion assume iables Direction E N S W S S E	es that BIPV pane Tilt (degrees) (7) 13 25 20 15 30	Panel Area (ft²) 21 72 2 6 12	Shading Varia Solar Exposure (?) 66.9 % 66.7 % 70.6 % 64.8 % 73.0 %	bles Obstruction Shading (?) 1.4 % 1.5 % 5.3 % 0.0 % 0.4 %	Summary Annual Energy (kWh) 495 1,675 0 0 0 0 0 0	Potential Cc savings per year/ft² \$2.77 \$2.76 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	per year \$58 \$198 \$0 \$0 \$0	Surface (years)	27.8 27.8 0.0+ 0.0+
ID aim15 24 aim16 39 aim15 62 aim15 97 aim16 77 aim17 13 aim17	Ditaic S calculat Ce Var Type Roof Roof Roof Roof Roof	Surface A ion assume iables Direction E N S W S S E E	es that BIPV pane (degrees) (7) 13 25 20 15 30 17	Panel Area (ft²) 21 72 2 6 12 1	Shading Varia Solar Exposure (?) 66.9 % 66.7 % 70.6 % 64.8 % 73.0 % 38.9 %	bles Obstruction Shading ? 1.4 % 1.5 % 5.3 % 0.0 % 0.4 % 49.2 %	Summary Annual Energy (kWh) (2) 495 1,675 0 0 0 0 0 0 0 0	Potential Cc savings per year/ft² \$2.77 \$2.76 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	per year \$58 \$198 \$0 \$0 \$0 \$0	Surface (years)	27.8 27.8 0.0+ 0.0+ 0.0+
ID aim15 24 aim16 39 aim15 62 aim15 97 aim17 3 aim17 50 aim17	Ditaic \$ calculat ce Var Type Roof Roof	Surface A ion assume iables Direction E N S S W S E E E E	es that BIPV pane Tilt (degrees) (7) 13 25 20 15 30 15 30 17 17	Panel Area (ft²) 21 72 2 6 12 1 4	Shading Varia Solar Exposure (?) 66.9 % 66.7 % 70.6 % 64.8 % 73.0 % 38.9 % 67.0 %	bles Obstruction Shading ⑦ 1.4 % 1.5 % 5.3 % 0.0 % 0.4 % 49.2 % 1.3 %	Summary Annual Energy (kWh) @ 495 1,675 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Potential Cc Savings per year/ft ² \$2.77 \$2.76 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	per year \$58 \$198 \$0 \$0 \$0 \$0 \$0	Surface (years)	27.8 27.8 0.0+ 0.0+ 0.0+ 0.0+

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https://gbs.autodesk.com/GBS/Scheme/WaterUsage?RunID=qs8XdKFnnlg%3d&AltRunID=cJfGmxrUVvo%3d

12/6/2017		Green Building Studio Water Usag	e		
Native Vegetation Landscaping:	No 🔻		0	0	
Greywater Reclamation:	No 🔻		0	0	
Site Potable Water Sources:	No Vield:	50 Gal / day	0	0	
*Source: National Climactic Data Center, #C	CLIM81.	Total Net-Zero Savings:	0	\$0	
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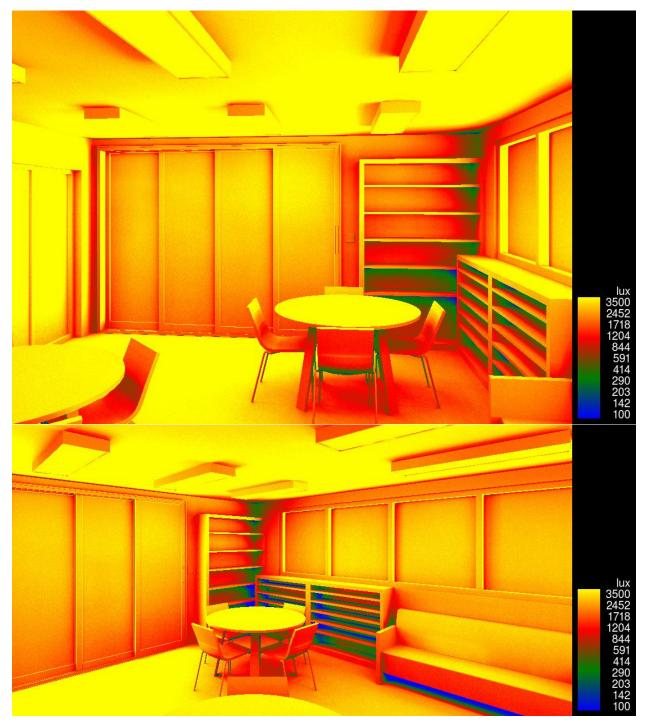
CRSL Engineering

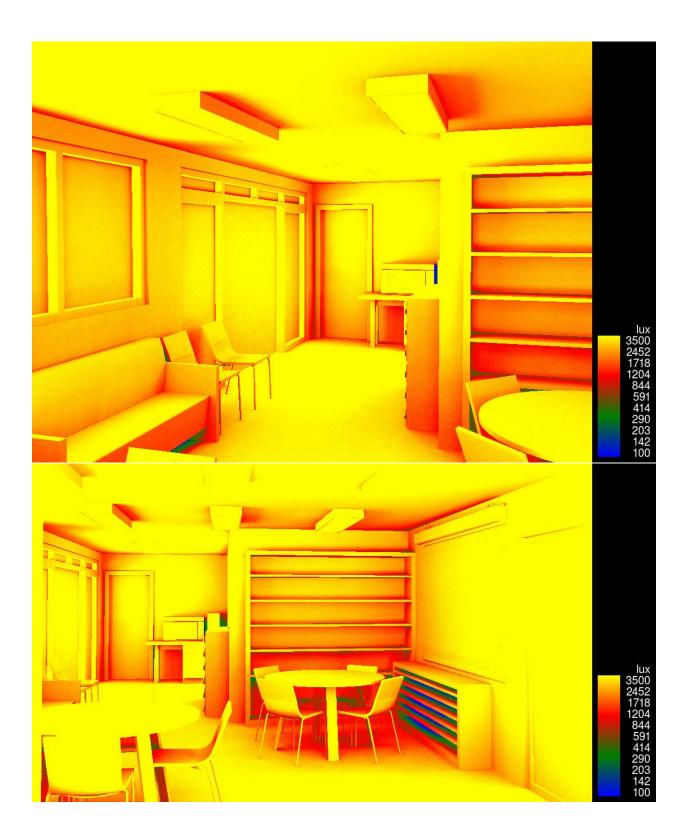
12/7/2017

Lighting/Luminescence Analysis Report

Luminescence Images:

Library/ Seminar and Entrance Room





Director's Office:



Shed and Outdoor Patio:



ID	0	Task Mode	Task Name	Duration	Start	Finish	Predecessors
1		-,	Excavation	3 days	Mon 1/1/18	Wed 1/3/18	
2		-,	Foundation	14 days	Thu 1/4/18	Tue 1/23/18	1
3			Utilities	7 days	Thu 1/4/18	Fri 1/12/18	1
4		-,	Framing	30 days	Wed 1/24/18	3Tue 3/6/18	3
5			Roofing	30 days	Mon 2/12/18	3Fri 3/23/18	3
6			Install Doors and Windows	4 days	Mon 3/26/18	Thu 3/29/18	5
7			Weather Resistant Barrier	3 days	Fri 3/30/18	Tue 4/3/18	6
8			Brick Facade	14 days	Wed 4/4/18	Mon 4/23/18	7
9			Rough Plumbing	7 days	Tue 4/24/18	Wed 5/2/18	8
10			Mechanical Systems	7 days	Thu 5/3/18	Fri 5/11/18	9
11		-	Rough Lighting and Electrical	7 days	Mon 5/14/18	Tue 5/22/18	10
12		-,	Insulation	3 days	Wed 5/23/18	3Fri 5/25/18	11
13			Drywall	3 days	Mon 5/28/18	3Wed 5/30/18	12
14			Flooring	3 days	Thu 5/31/18	Mon 6/4/18	13
15			Painting	1 day	Tue 6/5/18	Tue 6/5/18	14
16			Finish Plumbing	2 days	Thu 6/7/18	Fri 6/8/18	15
17			Finish Electrical and Lighting	2 days	Mon 6/11/18	Tue 6/12/18	16
18		-,	Furnishing	1 day	Wed 6/13/18	3Wed 6/13/18	17

Inactive Milestone Inactive Summary Manual Task Manual Task Manual Progress	Project: Gantt Chart Final Projec Date: Thu 12/7/17	Inactive Task Inactive Milestone Inactive Summary Manual Task		Deadline Progress	¢
Duration-only Page 1		Duration-only	Page 1		

Resource Names	E	c	Dec	3, '17	, ⊤ \\\	TF	_ د	Dec	10, '17 M	1.07	т с	l c	Dec	17, '1'	7 T W	, -	F	c	Dec	24, '1	7 T M	_	
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Dec 31, '17 F S M T W T F S	Jan 7, '18 S M T W T F	Jan 14, '18 S S M T W	Jan 21, '1 T F S S M	8 T W T F	Jan 28, '18 S S M T
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Project: Gantt Chart Final Projec Date: Thu 12/7/17	Inactive Task Inactive Milestone	¢ 	Deadline	+	

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