

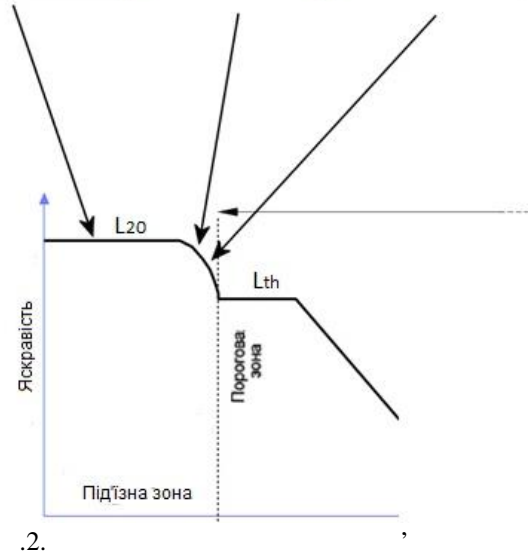


+ 20°  
70 130 /

( 2).



[10],



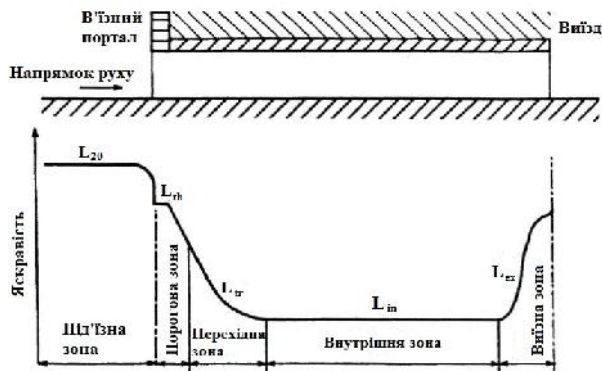
( ),  
( ).

[10]

( . 1).

40%

60%



.1.

( . 3).

[8]

[10],

$L_{20}$  –  
 $L_{20}$  –  
20° 20°



$L_{th} \cdot L_{th}$

$$L_{tr} / L_{th}$$

(2):

$$L_{th} = \frac{L_m}{\frac{1}{C_m} \left( \frac{\dots}{f \cdot q_c} - 1 \right) - 1} \quad (2)$$

$$L_m = \frac{\ddagger_{ws} \cdot L_{atm} + L_{ws} \cdot L_{20}}{\ddagger_{ws} \cdot \ddagger_{atm}}$$

$\ddagger_{ws}$  -

$\ddagger_{atm}$  -

$L_{ws}$  -

$C_m$  -

;

$q_c$  -

$L_{20}$ ,

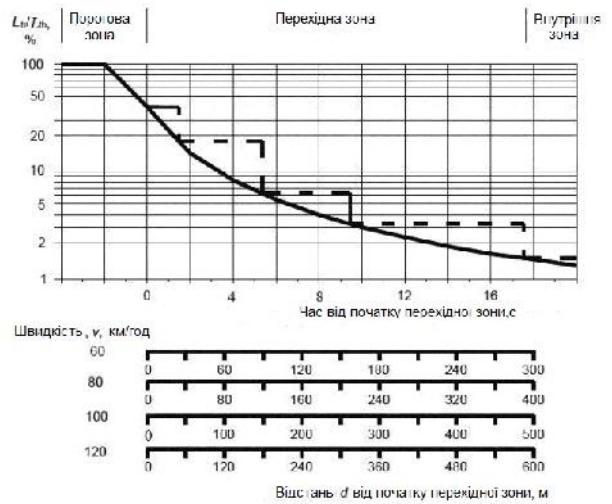
3:1.

$$\frac{L_{tr}}{L_{th}}$$

. 8

$$\frac{L_{tr}}{L_{th}} = \left( 3,6 \frac{d}{\epsilon} + 1,9 \right)^{-1,4} \cdot 100, \quad (3)$$

$d$  -

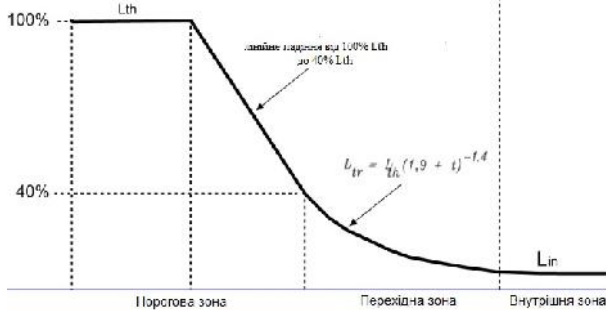


. 8.

$$\frac{L_{tr}}{L_{th}}$$

$$\frac{L_{tr}}{L_{th}}$$

( . 7).



. 7.

$$\frac{L_{tr}}{L_{th}}$$

[10]

1,5 2

[12]

[13] ( . 3)



	UNI 11248:2016		CEN13201	/ 2	
	D1	D2			
			1	6	2,0
	D1		M2	5	1,5
	D2		M3	4	1,0
	E1		M4	3	0,8
	E2		M4	2	0,5
	F			1	0,3

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[15].

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Part 5: Tunnels and underpasses Australian/New Zealand Standard™ Lighting for roads and public spaces.

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100%

$U_0$ ,

$U_L$ ,



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	< 25	25-75					75-125					> 125	
?													
( > 0,4) ( < 0,2) ?													
( ?)													
	●	●	●	●	●	●	●	●	●	●	●	●	●

- Відсутнє освітлення в денний час
- 50% нормованого рівня освітленості порогової зони
- Нормований рівень освітленості порогової зони

[11]

Lighting subcategory	Light technical parameters								
	For straight section, curves and intersections					For intersections and other specified locations		For all applications	
	Average carriageway luminance ( $\bar{L}$ ), cd/m <sup>2</sup>	Overall uniformity (U <sub>0</sub> )	Longitudinal uniformity (U <sub>L</sub> )		Threshold increment (NI) %	Surround verge illuminance (E <sub>s</sub> )	Point horizontal illuminance E <sub>ph</sub> , lx	Illuminance (horizontal) Cat V (U <sub>E1</sub> )	Upward waste light ratio (UWRL) %
		In Australia	In New Zealand						
V1	1.5	0.33	0.5	0.3	20	50	15	8	3
V2	1.0	0.33	0.5	0.3	20	50	10	8	3
V3	0/75	0.33	0.5	0.3	20	50	7.5	8	3
V4	0.5	0.33	0.5	0.3	20	50	5	8	3
V5	0.35	0.33	0.5	0.3	20	50	3.5	8	3

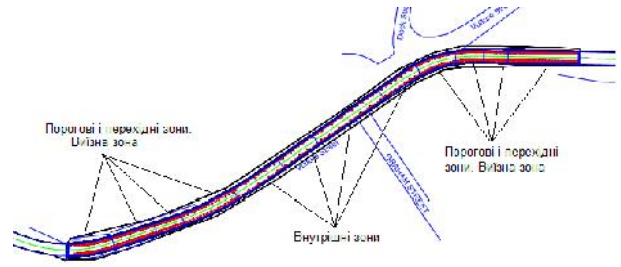


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		<p>7.50 10 20 30 50 75 100 200 300 [cd/m<sup>2</sup>]</p>
		<p>10 20 30 50 75 100 200 300 [cd/m<sup>2</sup>]</p>
		<p>0.10 0.20 0.30 0.50 0.75 1.00 2.00 3.00 5.00 7.50 10 20 30 50 [cd/m<sup>2</sup>]</p>
		<p>5.00 7.50 10 20 30 50 75 100 200 [cd/m<sup>2</sup>]</p>

DIALux

