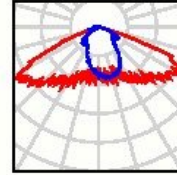


Item 1 HB-069 60W / Lighting distribution curve

Item HB-069(60W)  
Item: HB-069  
Total flux: 4800 lm  
Power: 60.0 W  
CIE: 100  
CIE Flux : 41 81 98 100 100  
Parts: 2 x LED (1.000).

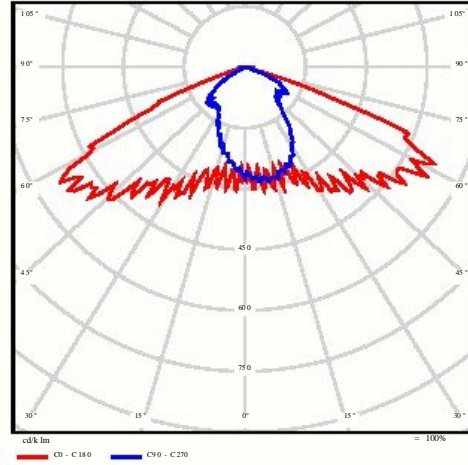
Lighting distribution curve



HB-069(60W) /Distribution Curve

Part 1:

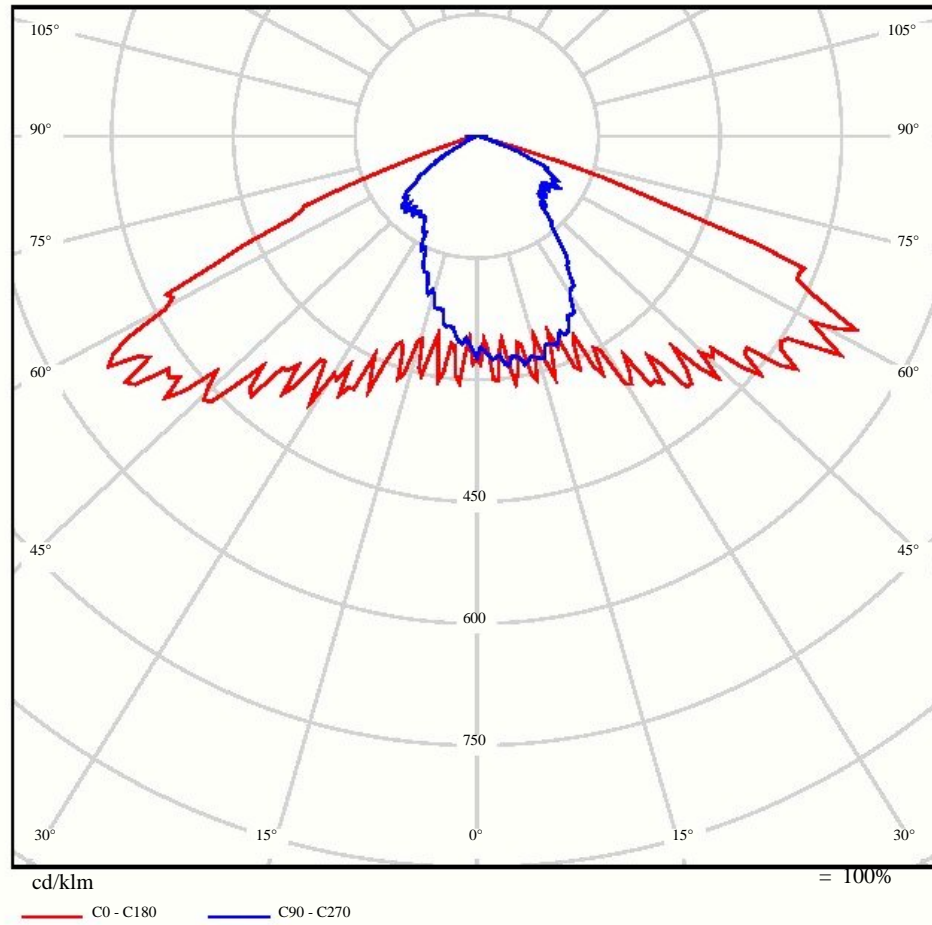
Lighting distribution Curve



CIE: 100  
CIE Flux : 41 81 98 100 100

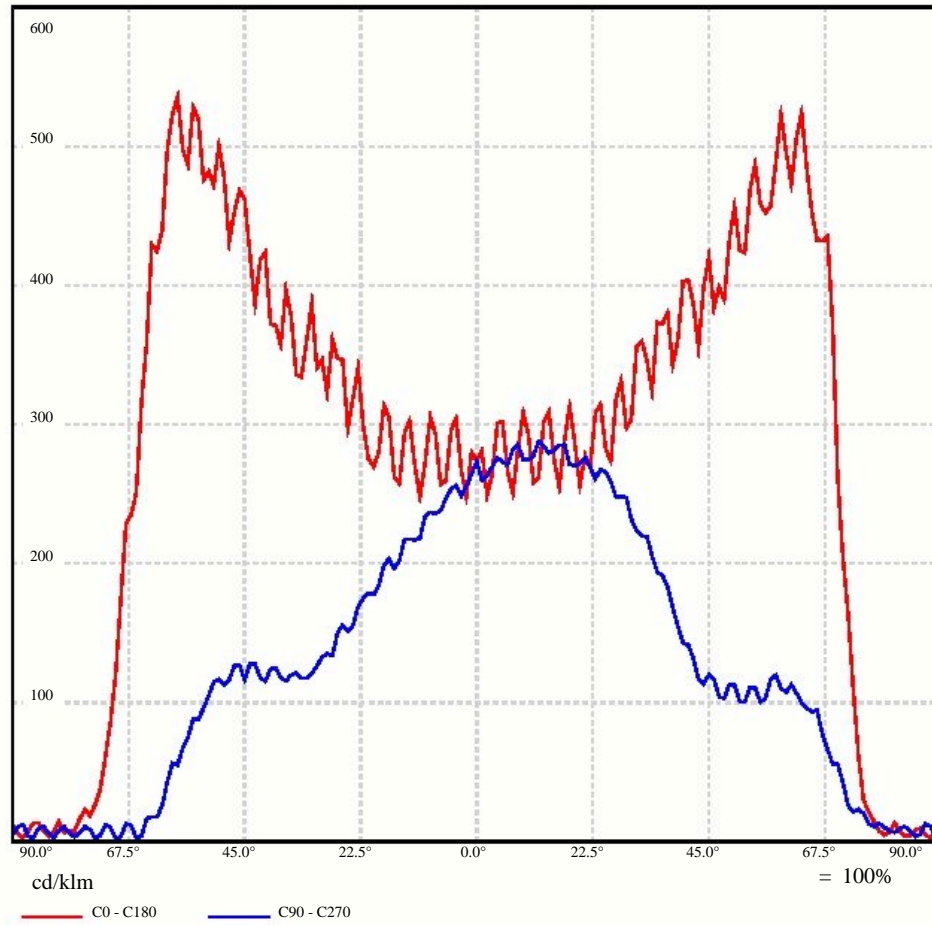
HB-069(60W) / Distribution Curve

HB-069(60W)  
Parts: 2 x LED



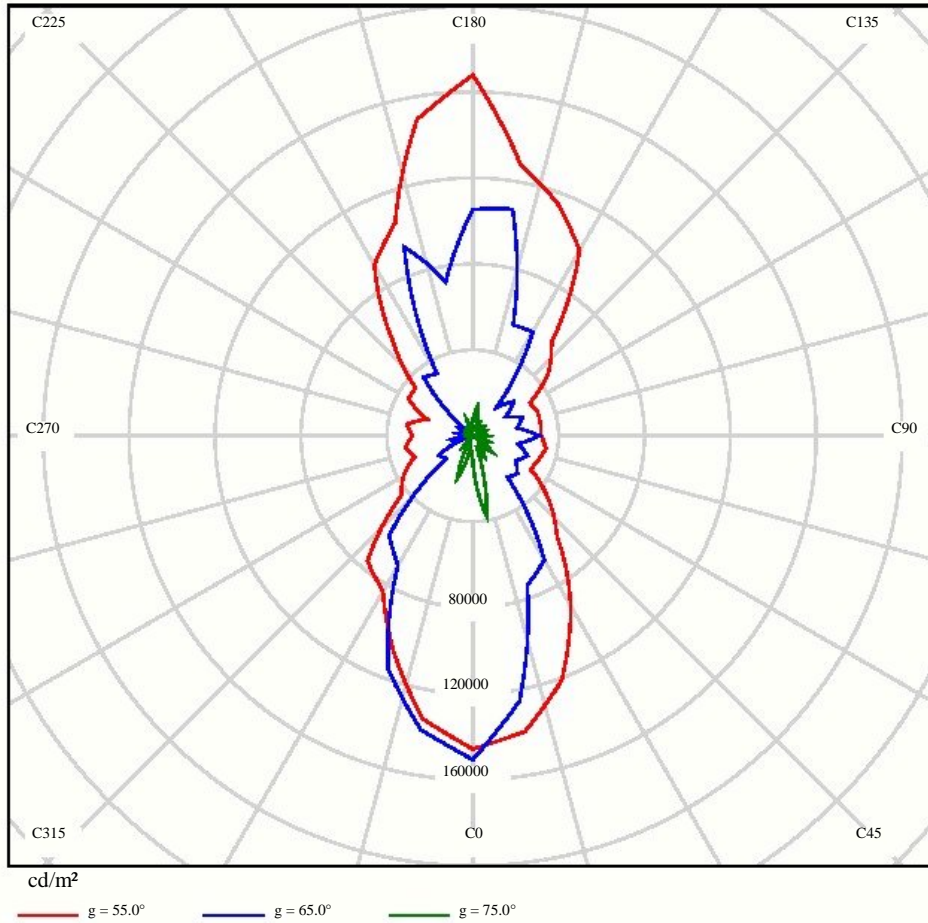
HB-069(60W) / Distribution Curve

HB-069(60W)  
Parts: 2 x LED



HB-069(60W) / ILLUMINANCE

HB-069(60W)  
2 x LED

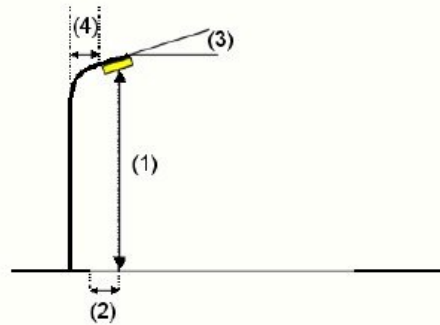
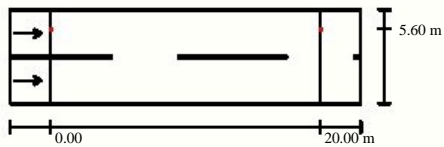


HB-(60W) demo case

Street cross-section

Road 1 (width: 7.000 m : 2ways roads, tar: R1, q0: 0.100)

Maintenance factor: 1.00

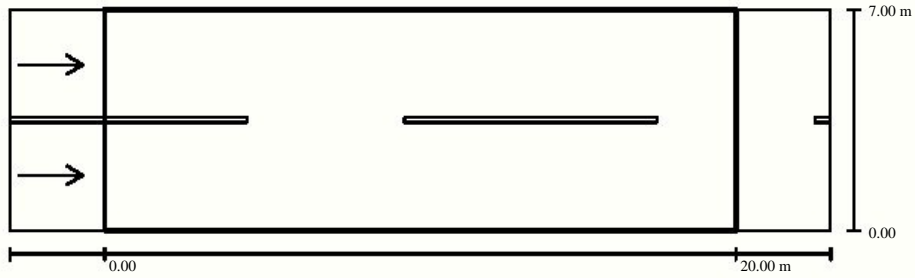


Light fixture:	HB-069(60W)
Total flux:	Max illuminance 4426 lm
Power: 60W	Angle 70°:457 cd/klm60.0 W
Pole (1):7m	Angle 80°: 152 cd/klm
(2): 1.437M	Angle 90°:65 cd/klm20.000 m
(3): 20.0 °	
(4): 1.500 m	D.5.6.906 m

7.000 m



Road Testing



Maintenance factor: 1.00

rate 1:186

Reseau: 10 x 6 spot

Road 1.

Tar: R1, q0: 0.100, Tar (wet): W1, q0 (wet): 0.110

MEW5

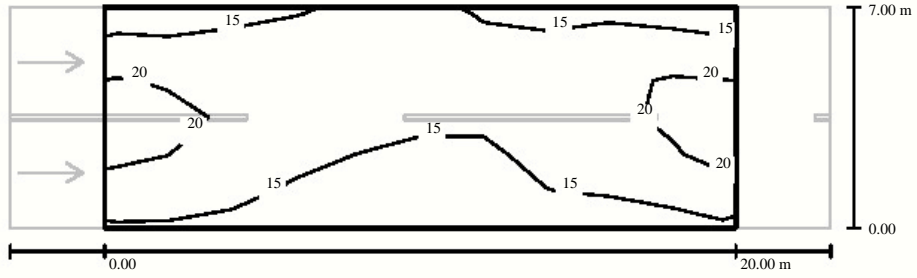
	Average illuminance [cd/m <sup>2</sup> ]	U0	U1	TI [%]	Peripheral illumination coefficient	U0 (wet)
The actual value is calculated:	1.5	0.60	0.7	5		0.29
According to the level set of values:	= 0.5	= 0.35	/	= 15	0.5	= 0.15
Satisfy or not:	✓	✓	✓	✓	✓	✓

Run down box (2):

No	Run down box	position [m]	Average illuminance [cd/m <sup>2</sup> ]	U0	U1	TI [%]	U0 (wet)
1	1	(-60.000, 1.750, 1.500)	1.5	0.60	0.8	5	0.29
2	2	(-60.000, 5.250, 1.500)	1.5	0.61	0.7	3	0.33



Road 1 / Lighting distribution

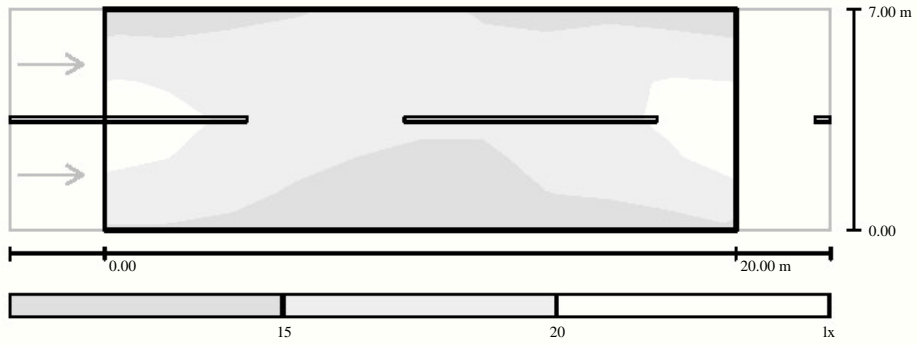


unit Lux, rate 1 : 186

Reseau: 10 x 6 spot

Average [lx]	Min [lx]	Max [lx]	Min / Average	Min / Max
17	12	23	0.708	0.516

Road I / G rayscale illuminance

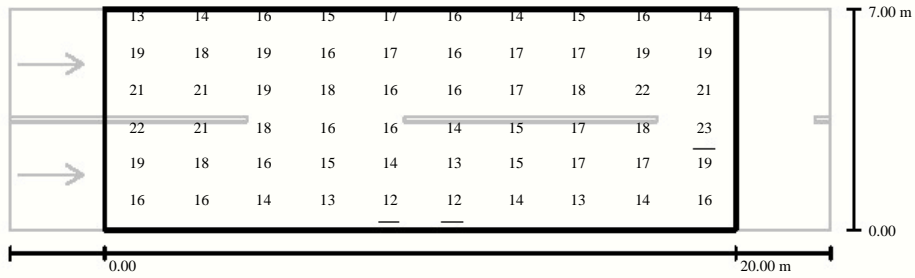


Rate 1 : 186

Reseau: 10 x 6 Spot

Average [lx]	Min [lx]	Max [lx]	Min / Average	Min / Max
17	12	23	0.708	0.516

Road 1 / Spot illuminance result



Unit Lux, Rate 1 : 186

Reseau: 10 x 6 Spot

Average [lx]	Min [lx]	Max [lx]	Min / Average	Min / Max
17	12	23	0.708	0.516

Road 1 / Spot illuminance result

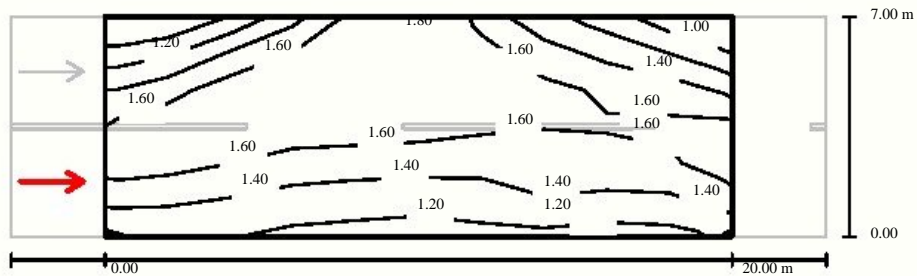


6.417	13	14	16	15	17	16	14	15	16	14
5.250	19	18	19	16	17	16	17	17	19	19
4.083	21	21	19	18	16	16	17	18	22	21
2.917	22	21	18	16	16	14	15	17	18	23
1.750	19	18	16	15	14	13	15	17	17	19
0.583	16	16	14	13	12	12	14	13	14	16
m	1.000	3.000	5.000	7.000	9.000	11.000	13.000	15.000	17.000	19.000
:	Lux.									

Reseau: 10 x 6 spot

Average [lx]	Min [lx]	Max [lx]	Min / Average	Min / Max
17	12	23	0.708	0.516

Road 1 Illuminance Curve

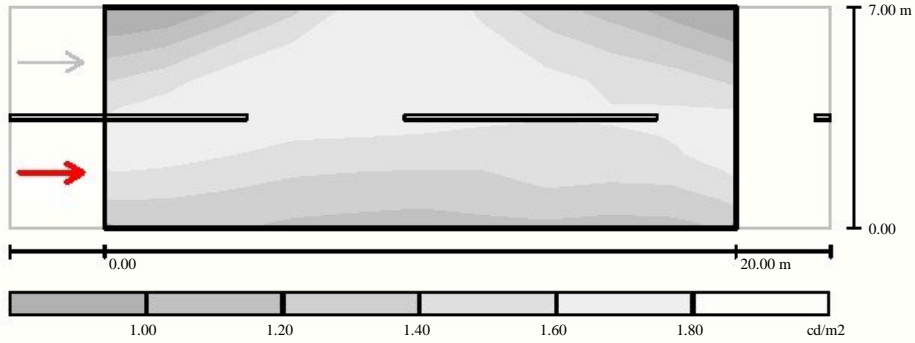


Unit Candela/m², Rate 1 : 186

Reseau: 10 x 6 spot  
 Position: (-60.000 m, 1.750 m, 1.500 m)  
 Tar: R1, q0: 0.100, Tar (wet): W1, q0 (wet): 0.110

	Average Illuminance [cd/m²]	U0	U1	TI [%]	U0 (wet)
The actual value is calculated:	1.5	0.60	0.8	5	0.29
According to the level set of values	= 0.5	= 0.35	/	= 15	= 0.15
MEW5:					
Satisfy or not:	✓	✓	✓	✓	✓

Road 1 / Grayscale result t

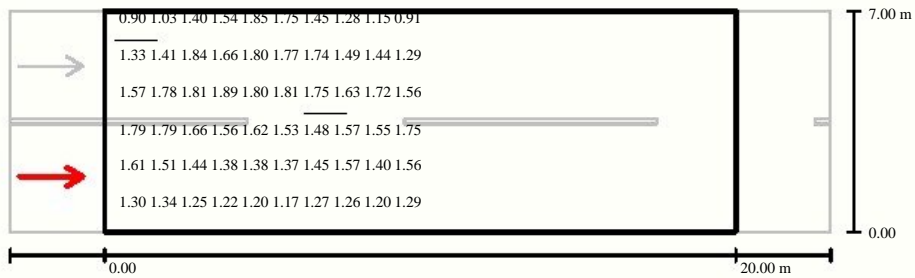


rate 1 : 186

Reseau : 10 x 6 spot  
 Position: (-60.000 m, 1.750 m, 1.500 m)  
 tar: R1, q0: 0.100, tar (wet): W1, q0 (wet): 0.110

	Average Illuminance [cd/m <sup>2</sup> ]	U0	UI	TI [%]	U0 (wet)
The actual value is calculated:	1.5	0.60	0.8	5	0.29
According to the level set of values	= 0.5	= 0.35	/	= 15	= 0.15
MEW5:					
Satisfy or not:	✓	✓	✓	✓	✓

Road 1 / Spot Illumination



Unit Candela/m², Rate 1 : 186

Reseau: 10 x 6 spot  
 Position: (-60.000 m, 1.750 m, 1.500 m)  
 Tar: R1, q0: 0.100, Tar (wet): W1, q0 (wet): 0.110

	Average illuminance [cd/m²]	U0	U1	TI [%]	U0 (wet)
The actual value is calculated:	1.5	0.60	0.8	5	0.29
According to the level set of values	= 0.5	= 0.35	/	= 15	= 0.15
MEW5:					
Satisfy or not:	✓	✓	✓	✓	✓

Road 1 Spot illuminance result



6.417	0.90	1.03	1.40	1.54	1.85	1.75	1.45	1.28	1.15	0.91
5.250	1.33	1.41	1.84	1.66	1.80	1.77	1.74	1.49	1.44	1.29
4.083	1.57	1.78	1.81	1.89	1.80	1.81	1.75	1.63	1.72	1.56
2.917	1.79	1.79	1.66	1.56	1.62	1.53	1.48	1.57	1.55	1.75
1.750	1.61	1.51	1.44	1.38	1.38	1.37	1.45	1.57	1.40	1.56
0.583	1.30	1.34	1.25	1.22	1.20	1.17	1.27	1.26	1.20	1.29
m	1.000	3.000	5.000	7.000	9.000	11.000	13.000	15.000	17.000	19.000

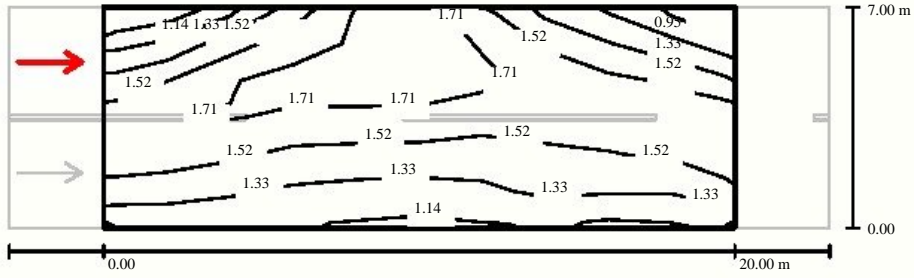
: Candela/m²

Reseau: 10 x 6 spot  
 position: (-60.000 m, 1.750 m, 1.500 m)  
 Tar: R1, q0: 0.100, Tar (wet): W1, q0 (wet): 0.110

	Average illuminance [cd/m²]	U0	UI	TI [%]	U0 (wet)
The actual value is calculated:	1.5	0.60	0.8	5	0.29
According to the level set of values	= 0.5	= 0.35	/	= 15	= 0.15
MEWS:					
Satisfy or not:	✓	✓	✓	✓	✓



Road 1 Average illuminance result

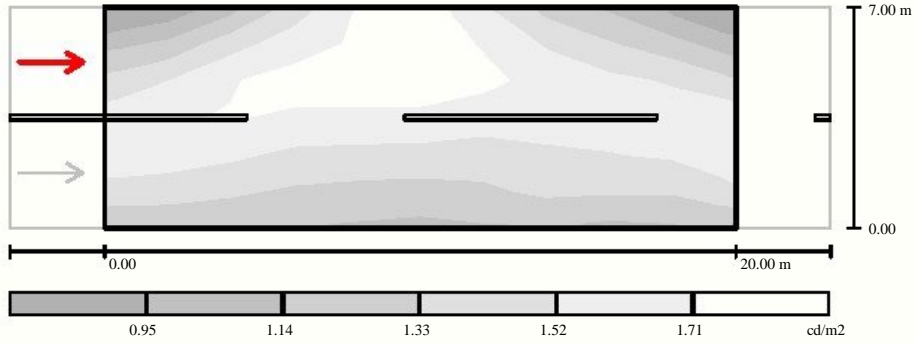


Unit Candela/m², rate 1 : 186

Reseau: 10 x 6 spot  
 position: (-60.000 m, 1.750 m, 1.500 m)  
 Tar: R1, q0: 0.100, Tar (wet): W1, q0 (wet): 0.110

	Average illuminance [cd/m²]	U0	UI	TI [%]	U0 (wet)
The actual value is calculated:	1.5	0.60	0.8	5	0.29
According to the level set of values	= 0.5	= 0.35	✓ /	= 4.5	= 0.15
MEW5:					
Satisfy or not:					

Road 1 Gayscale illuminance result

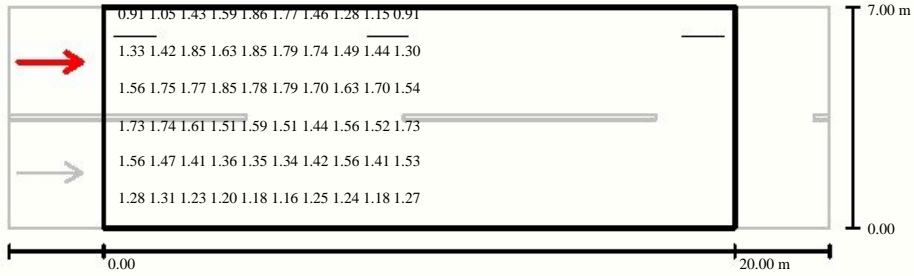


rate 1 : 186

Reseau: 10 x 6 spot  
 position: (-60.000 m, 1.750 m, 1.500 m)  
 Tar: R1, q0: 0.100, Tar (wet): W1, q0 (wet): 0.110

	Average illuminance [cd/m <sup>2</sup> ]	U0	UI	TI [%]	U0 (wet)
The actual value is calculated:	1.5	0.60	0.8	5	0.29
According to the level set of values	= 0.5	= 0.35	/	= 15	= 0.15
MEW5:					
Satisfy or not:	✓	✓	✓	✓	✓

Road 1 Spot illuminance result



unit Candela/m², rate 1 : 186

Reseau: 10 x 6 spot  
 position: (-60.000 m, 1.750 m, 1.500 m)  
 Tar: R1, q0: 0.100, Tar (wet): W1, q0 (wet): 0.110

	Average illuminance [cd/m²]	U0	UI	TI [%]	U0 (wet)
The actual value is calculated:	1.5	0.60	0.8	5	0.29
According to the level set of values	= 0.5	= 0.35	✓ /	= 4.5	= 0.15
MEW5:					
Satisfy or not:					

Road 1 Spot illuminance result



6.417	0.91	1.05	1.43	1.59	1.86	1.77	1.46	1.28	1.15	0.91
5.250	1.33	1.42	1.85	1.63	1.85	1.79	1.74	1.49	1.44	1.30
4.083	1.56	1.75	1.77	1.85	1.78	1.79	1.70	1.63	1.70	1.54
2.917	1.73	1.74	1.61	1.51	1.59	1.51	1.44	1.56	1.52	1.73
1.750	1.56	1.47	1.41	1.36	1.35	1.34	1.42	1.56	1.41	1.53
0.583	1.28	1.31	1.23	1.20	1.18	1.16	1.25	1.24	1.18	1.27
m	1.000	3.000	5.000	7.000	9.000	11.000	13.000	15.000	17.000	19.000

: Candela/m²

Reseau: 10 x 6 spot  
 position: (-60.000 m, 1.750 m, 1.500 m)  
 Tar: R1, q0: 0.100, Tar (wet): W1, q0 (wet): 0.110

	Average illuminance [cd/m²]	U0	UI	TI [%]	U0 (wet)
The actual value is calculated:	1.5	0.60	0.8	5	0.29
According to the level set of values	= 0.5	= 0.35	/	= 15	= 0.15
MEWS:					
Satisfy or not:	✓	✓	✓	✓	✓