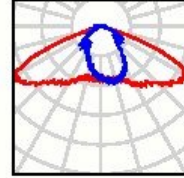


HB-30W / Lighting Distribution Curve

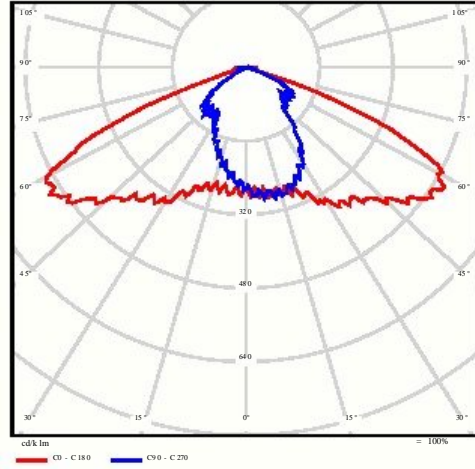
ITEM HB-066(30W)
Item No: HB-066
Total flux: 2422 lm
Power: 30.0 W
CIE: 100
CIE Flux : 40 80 98 100 100
Parts: 1 x LED (1.000).



HB-066(30W) / Distribution Curve

part 1:

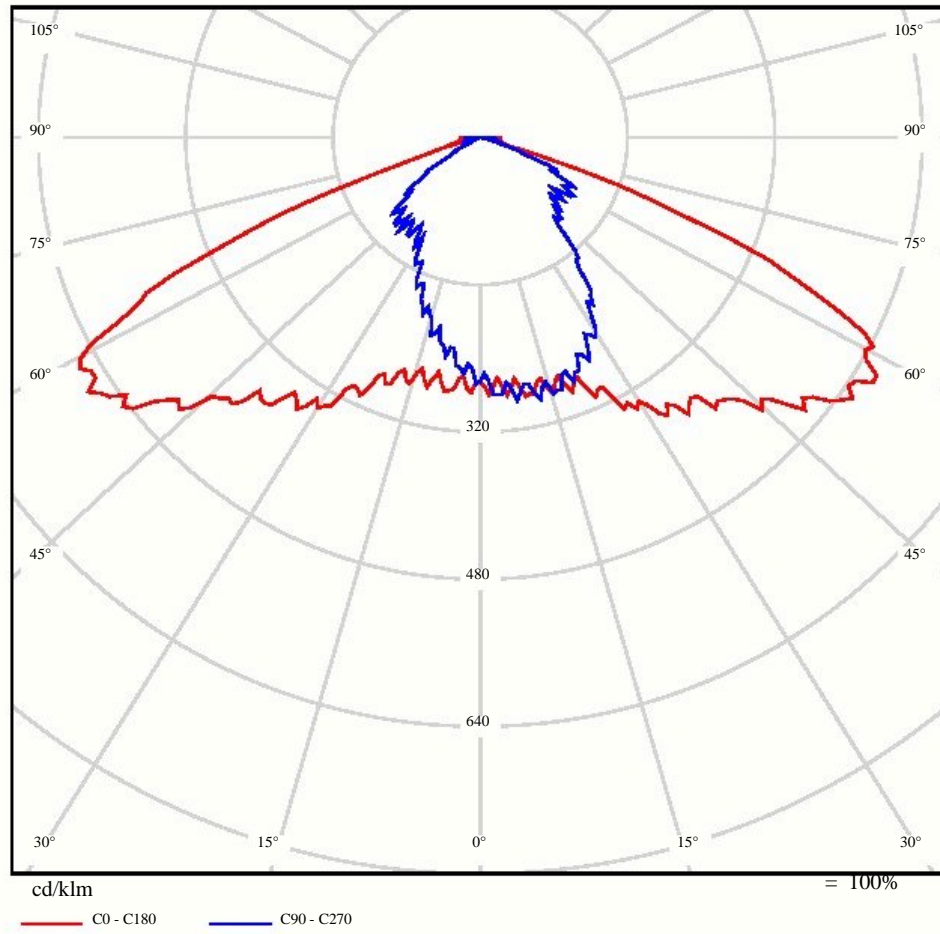
Lighting Distribution Curve



CIE: 100
CIE Flux : 40 80 98 100 100

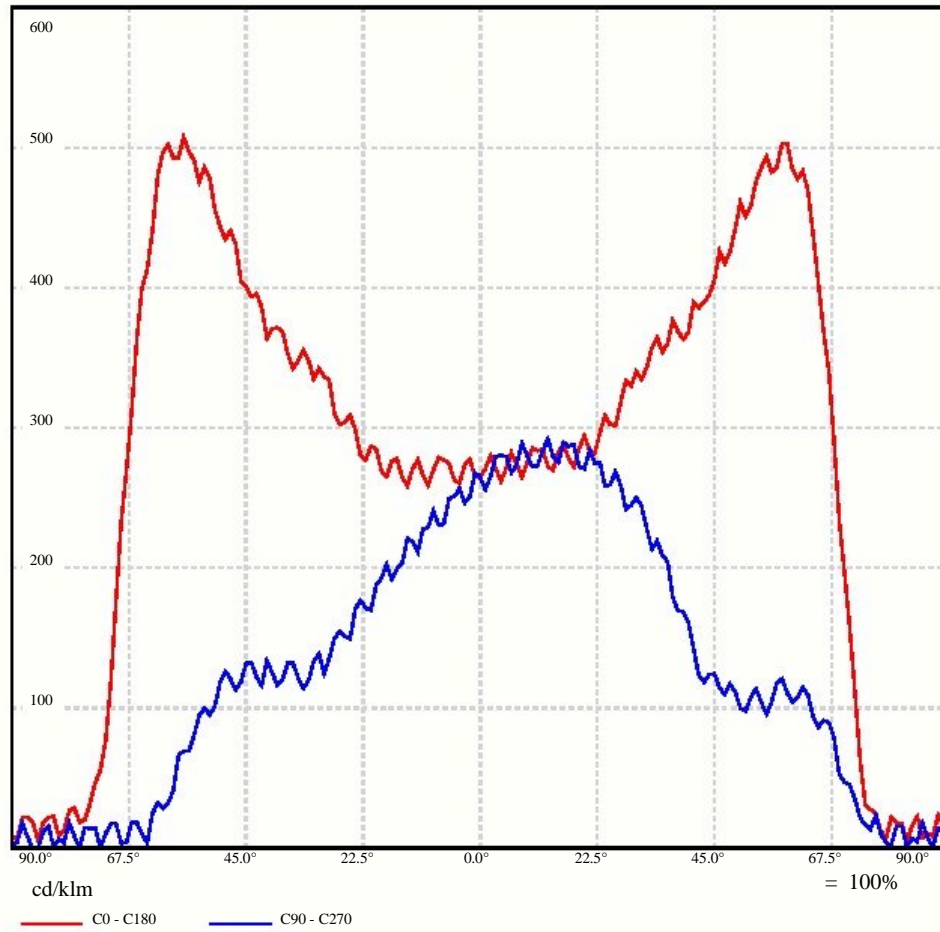
HB-066(30W) / Distribution Curve

HB-066(30W)
Parts: 1 x LED



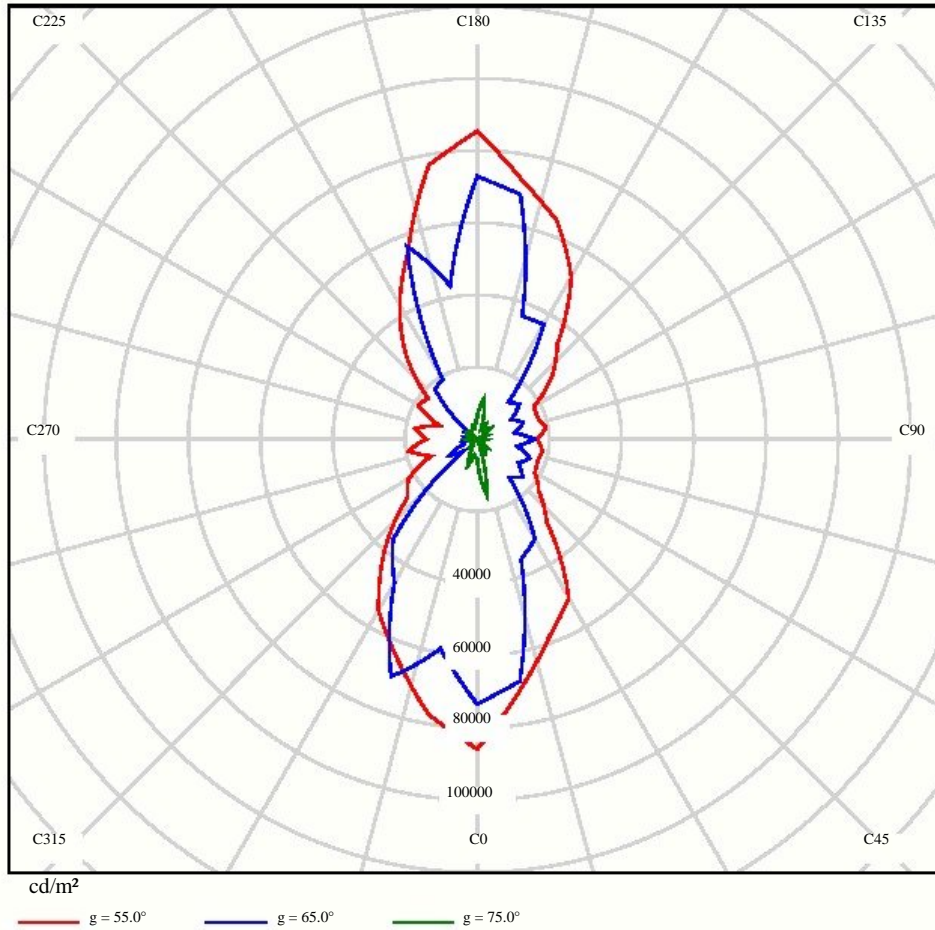
HB-066(30W) / Distribution Curve

HB-066(30W)
Parts: 1 x LED



HB-066(30W) / ILLUMINANCE

HB-066(30W)
Parts: 1 x LED

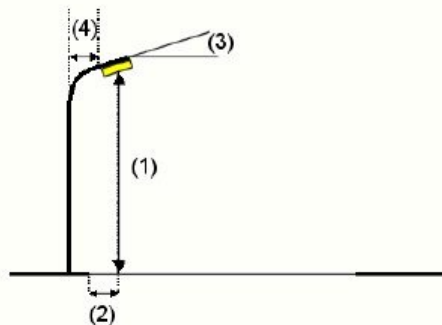
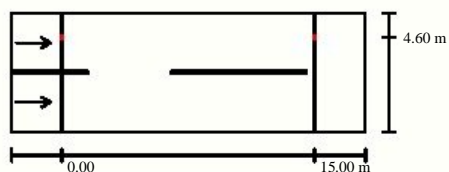


30W DEMO CASE

Street cross-section

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

Maintenance factor : 1.00

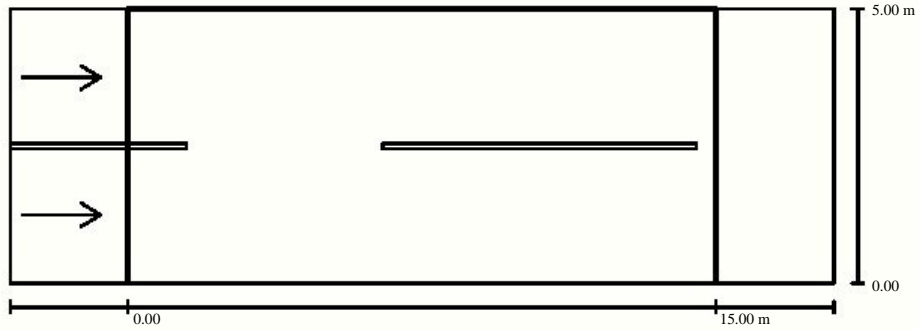


Lighting fixture:	HB-066(30W)
Total flux:	Max flux : 2422 lm
Power:	Angel 70°:389 cd/klm30.0 W
(1):5M	Angel 80°: 95 cd/klm
(2):1.532m	Angel 90°:27 cd/klm15.000 m
(3): 15.0 °	
(4): 1.500 m	G2.4.903 m
	D.6.1.426 m

5.000 m



30W LED Road Testing



Maintenance factor: 1.00

Rate 1:151

Reseau: 10 x 6 spot

Road 1.

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

MEW5

The actual value is calculated:

According to the level set of values:

Satisfy or not

Average illuminance [cd/m²]

1.4

= 0.5



U0

0.53

= 0.35



U1

0.8

/



TI [%]

7

= 15



Peripheral illumination coefficient

0.4

= 0.5



U0 (wet)

0.20

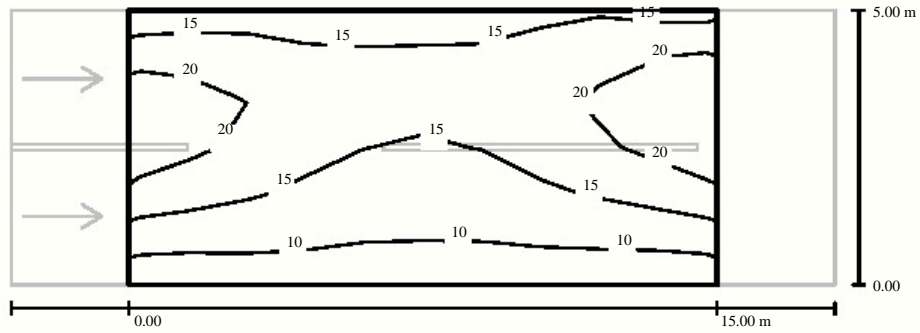
= 0.15



Run down box (2):

No	Run down box	position [m]	Average illuminance [cd/m ²]	U0	U1	TI [%]	U0 (wet)
1	box 1	(-60.000, 1.750, 1.500)	1.4	0.53	0.9	5	0.20
2	box 2	(-60.000, 5.250, 1.500)	1.4	0.54	0.8	7	0.21

30W Lighting Distribution

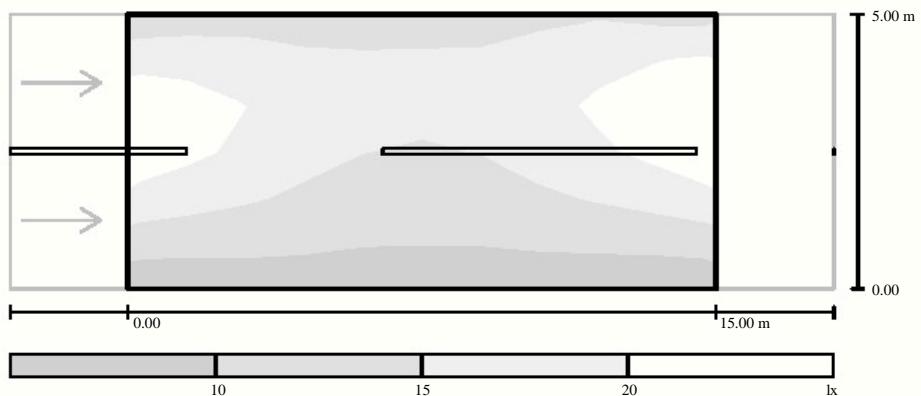


Unit Lux, Rate 1 : 151

Reseau: 10 x 6 spot

Average [lx]	Min [lx]	Max [lx]	Min / Average	Min / Max
15	8.47	24	0.549	0.349

30W LED Road 1 / G rayscale illuminance

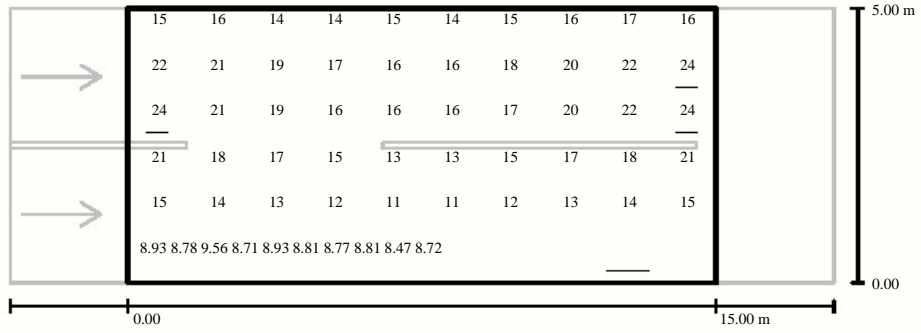


Reseau: 10 x 6 spot

Rate 1 : 151

Average [lx]	Min [lx]	Max [lx]	Min / Average	Min / Max
15	8.47	24	0.549	0.349

30W LED Road 1 / Spot illuminance result



Unit Lux, Rate 1 : 151

Reseau: 10 x 6 spot

Average [lx]	Min [lx]	Max [lx]	Min / Average	Min / Max
15	8.47	24	0.549	0.349

30W LED Road 1 / Spot illuminance result



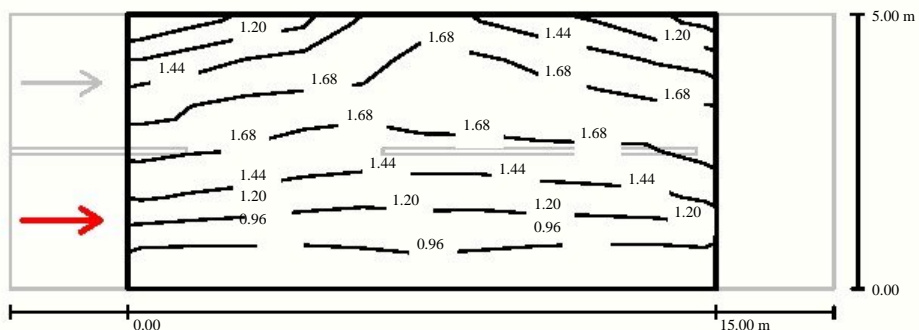
6.417	15	16	14	14	15	14	15	16	17	16
5.250	22	21	19	17	16	16	18	20	22	24
4.083	24	21	19	16	16	16	17	20	22	24
2.917	21	18	17	15	13	13	15	17	18	21
1.750	15	14	13	12	11	11	12	13	14	15
0.583	8.93	8.78	9.56	8.71	8.93	8.81	8.77	8.81	8.47	8.72
m	0.750	2.250	3.750	5.250	6.750	8.250	9.750	11.250	12.750	14.250

:

Reseau: 10 x 6 spot

Average [lx]	Min [lx]	Max [lx]	Min / Average	Min / Max
15	8.47	24	0.549	0.349

30W LED Road 1 Illuminance Curve

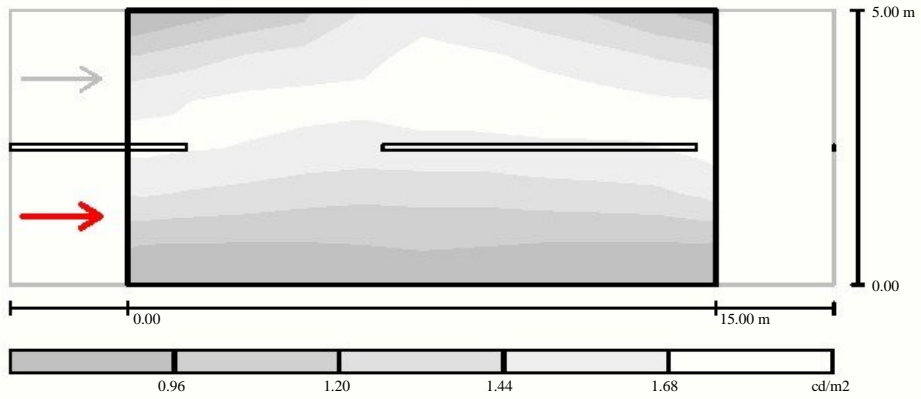


Unit Candela/m², Rate 1 : 151

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 ²]	U0	UI	TI [%]	U0 (wet)
The actual value is calculated:	1.4	0.53	0.9	5	0.20
According to the level set of values MEWS:	= 0.5	= 0.35	/	= 15	= 0.15
Satisfy or not:	✓	✓	✓	✓	✓

30W LED Road 1 / Grayscale result

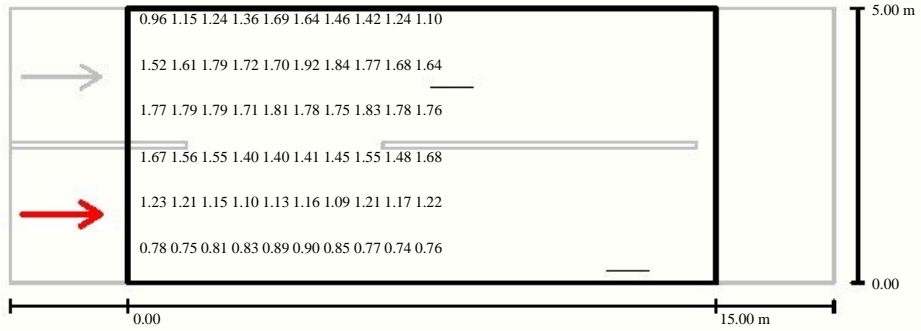


Rate 1 : 151

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 ²]	U0	UI	TI [%]	U0 (wet)
The actual value is calculated:	1.4	0.53	0.9	5	0.20
According to the level set of values	= 0.5	= 0.35	/	= 15	= 0.15
MEWS:					
Satisfy or not	✓	✓	✓	✓	✓

30W LED Road 1 / Spot Illumination



Unit Candela/m², Rate 1 : 151

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:	1.4	0.53	0.9	5	0.20
According to the level set of values	= 0.5	= 0.35	/	= 15	= 0.15
MEWS:					
Satisfy or not	✓	✓	✓	✓	✓

30W LED Road 1 Spot illuminance result



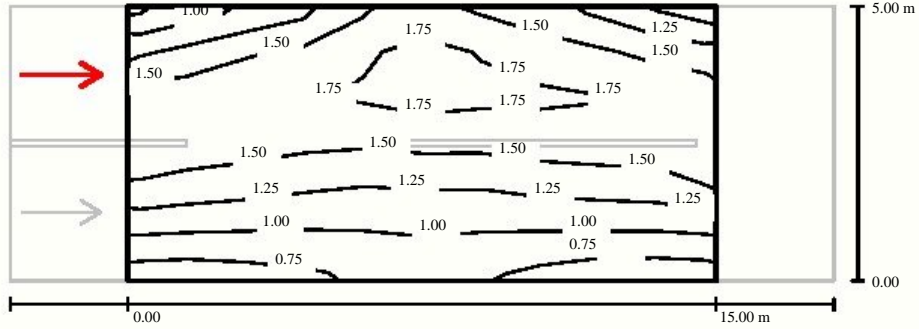
6.417	0.96	1.15	1.24	1.36	1.69	1.64	1.46	1.42	1.24	1.10
5.250	1.52	1.61	1.79	1.72	1.70	1.92	1.84	1.77	1.68	1.64
4.083	1.77	1.79	1.79	1.71	1.81	1.78	1.75	1.83	1.78	1.76
2.917	1.67	1.56	1.55	1.40	1.40	1.41	1.45	1.55	1.48	1.68
1.750	1.23	1.21	1.15	1.10	1.13	1.16	1.09	1.21	1.17	1.22
0.583	0.78	0.75	0.81	0.83	0.89	0.90	0.85	0.77	0.74	0.76
m	0.750	2.250	3.750	5.250	6.750	8.250	9.750	11.250	12.750	14.250

: 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:	1.4	0.53	0.9	5	0.20
According to the level set of values MEW5:	= 0.5	= 0.35	/	= 15	= 0.15
Satisfy or not	✓	✓	✓	✓	✓

30W LED Road 1 Average illuminance result

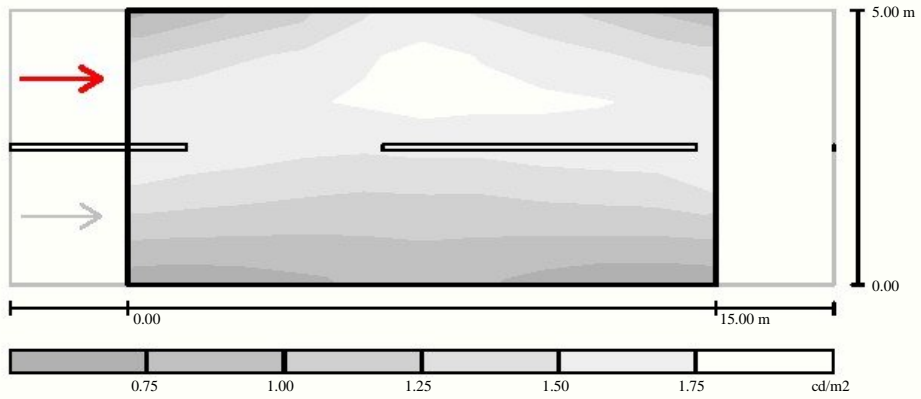


Unit Candela/m², rate 1 : 151

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

The actual value is calculated:	Average illuminance [cd/m²]	U0	UI	TI [%]	U0 (wet)
	1.4	0.54	0.8	7	0.21
According to the level set of values MEW5:	= 0.5	= 0.35	/	= 15	= 0.15
Satisfy or not	✓	✓	✓	✓	✓

30W LED Road 1 Gayscale illuminance result

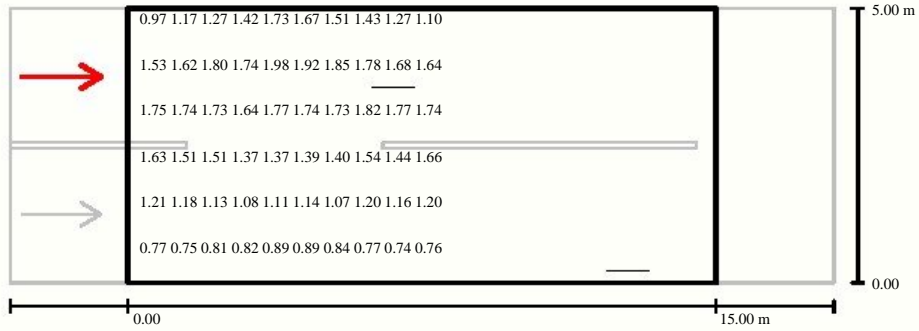


rate 1 : 151

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 ²]	U0	UI	TI [%]	U0 (wet)
The actual value is calculated:	1.4	0.54	0.8	7	0.21
According to the level set of values	= 0.5	= 0.35	/	= 15	= 0.15
MEWS:					
Satisfy or not	✓	✓	✓	✓	✓

30W LED Road 1 Spot illuminance result



Unit Candela/m², Rate 1 : 151

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:	1.4	0.54	0.8	7	0.21
According to the level set of values	= 0.5	= 0.35	/	= 15	= 0.15
MEW5:					
Satisfy or not:	✓	✓	✓	✓	✓

30W LED Road 1 Spot illuminance result



6.417	0.97	1.17	1.27	1.42	1.73	1.67	1.51	1.43	1.27	1.10
5.250	1.53	1.62	1.80	1.74	1.98	1.92	1.85	1.78	1.68	1.64
4.083	1.75	1.74	1.73	1.64	1.77	1.74	1.73	1.82	1.77	1.74
2.917	1.63	1.51	1.51	1.37	1.37	1.39	1.40	1.54	1.44	1.66
1.750	1.21	1.18	1.13	1.08	1.11	1.14	1.07	1.20	1.16	1.20
0.583	0.77	0.75	0.81	0.82	0.89	0.89	0.84	0.77	0.74	0.76
m	0.750	2.250	3.750	5.250	6.750	8.250	9.750	11.250	12.750	14.250

: 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:	1.4	0.54	0.8	7	0.21
According to the level set of values MEW5:	= 0.5	= 0.35	/	= 15	= 0.15
Satisfy or not	✓	✓	✓	✓	✓