

Photometric test report

Family
Monsun® 11



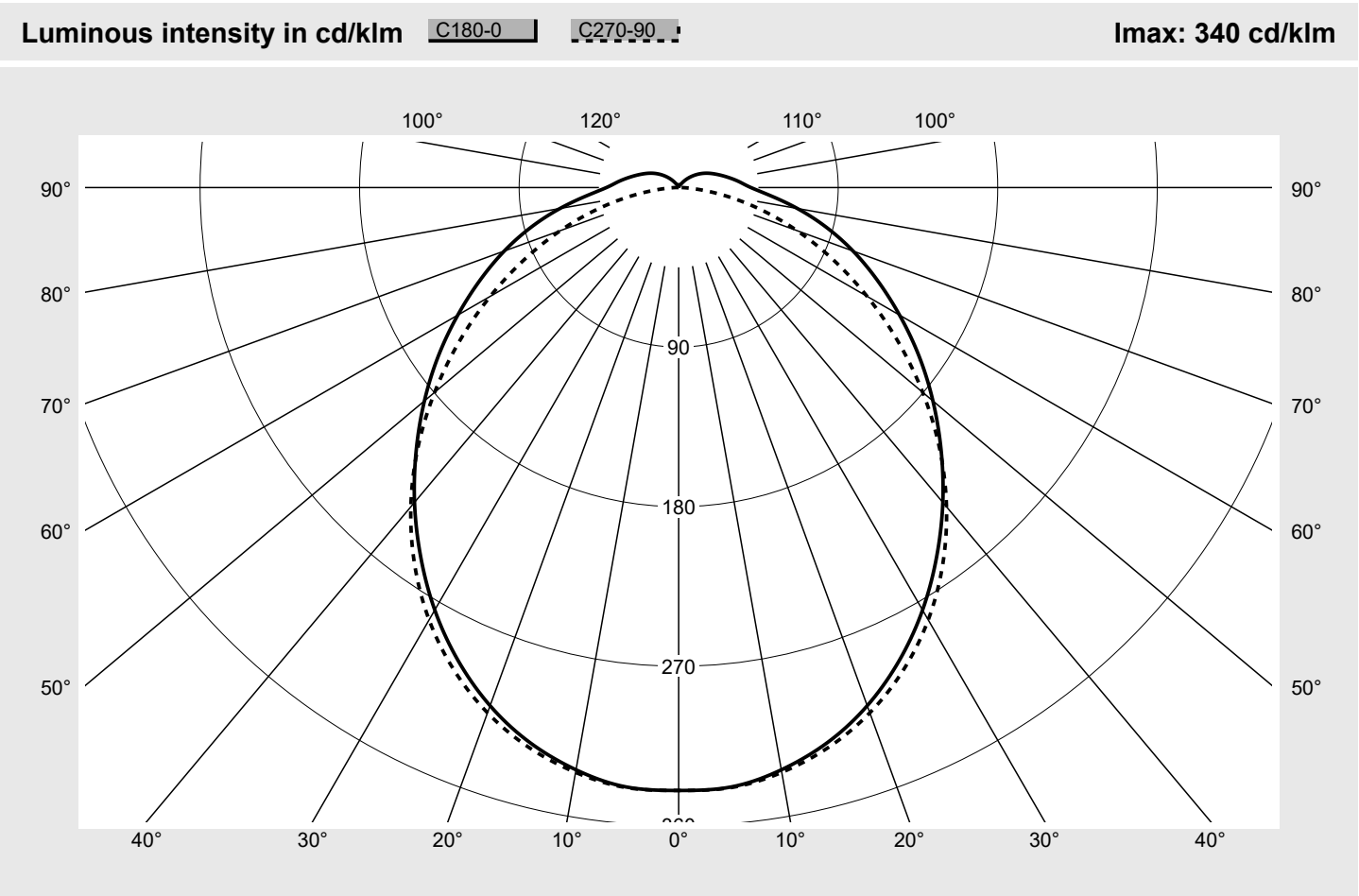
Order number: 51FE107P640M
EAN: 4069025280176

Version
prismatic diffuser, opal, PMMA, wide distribution
Lamps
LED 6500 K | CRI ≥ 80
Controlgear
ECG
Rated values
Net luminous flux = 4140 lm
Power consumption = 22.6 W
Luminous efficacy = 183.2 lm/W

LP number
58939_179

serial
documentation
30.09.2024

siteco



Classifications		Luminaire light output ratios	
DIN 5040	A 4 1	η_{LB}	100.0%
CIE	N1=47 N2=77 N3=93	ϕ_u	94.2%
	N4=94 N5=100	ϕ_o	5.8%

Measurement conditions	
DIN EN 13032 and DIN 5032	

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Table of values for luminous intensities		Maximum luminous intensity

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C- planes	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm							Luminous flux in lm/klm	
0°	340.1	340.1	340.1	340.1	340.1	340.1	340.1	2.0	2.0
5°	339.4	338.3	336.5	337.9	339.5	339.4	339.8	16.2	18.2
10°	333.5	333.0	331.2	332.8	334.6	334.7	335.0	31.7	49.9
15°	324.2	324.2	322.5	324.2	326.1	326.4	326.9	46.1	96.0
20°	311.0	311.6	310.1	311.9	314.1	314.7	315.3	58.6	154.6
25°	294.4	295.4	294.1	296.0	298.4	299.4	300.2	68.7	223.4
30°	275.2	276.6	275.1	276.8	279.4	280.7	281.6	76.1	299.5
35°	253.9	255.2	253.8	254.9	257.1	258.4	259.7	80.5	380.0
40°	231.8	232.9	231.3	231.1	232.5	233.8	235.1	81.9	461.9
45°	209.4	209.9	207.8	205.9	206.1	206.6	208.2	80.4	542.4
50°	187.2	187.1	184.8	181.3	179.3	178.3	179.7	76.6	619.0
55°	165.5	164.8	162.1	157.0	153.1	150.2	150.9	70.7	689.7
60°	143.9	142.9	139.5	133.7	127.9	123.2	122.7	63.3	753.0
65°	123.6	122.5	117.8	111.0	104.2	97.9	96.0	54.9	808.0
70°	104.7	103.3	97.1	89.4	81.7	74.3	71.0	45.8	853.8
75°	86.1	84.4	77.8	69.2	60.2	52.2	47.8	36.3	890.0
80°	68.0	66.1	60.2	50.5	40.7	32.1	26.9	26.7	916.7
85°	51.8	50.0	44.6	35.3	24.7	15.7	10.1	18.3	935.0
90°	40.8	39.2	34.4	26.0	15.9	6.9	1.8	13.1	948.2
95°	34.8	33.5	29.7	22.7	13.6	5.1	1.6	11.2	959.3
100°	29.9	28.8	25.4	19.2	11.3	3.7	1.4	9.4	968.7
105°	25.7	24.7	21.4	16.1	8.8	2.4	1.2	7.7	976.4
110°	22.1	20.9	18.0	13.0	6.6	1.4	1.1	6.1	982.5
115°	19.0	17.8	15.0	10.4	4.7	1.2	1.1	4.9	987.4
120°	16.0	14.8	12.2	7.9	3.1	1.2	1.0	3.8	991.2
125°	13.0	11.9	9.4	5.6	1.7	1.1	0.9	2.7	993.9
130°	10.1	9.1	6.9	3.7	1.4	1.1	1.0	1.9	995.9
135°	7.3	6.5	4.6	2.1	1.4	1.1	1.1	1.3	997.1
140°	4.8	4.1	2.7	1.7	1.4	1.1	1.1	0.8	998.0
145°	2.6	2.3	1.9	1.7	1.4	1.2	1.2	0.5	998.5
150°	2.0	2.0	1.9	1.6	1.3	1.3	1.3	0.4	998.9
155°	1.9	1.9	1.7	1.6	1.4	1.4	1.4	0.4	999.3
160°	1.7	1.7	1.6	1.4	1.4	1.4	1.4	0.3	999.6
165°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.2	999.8
170°	1.3	1.4	1.4	1.4	1.4	1.4	1.4	0.1	999.9
175°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.1	1000.0
180°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0	1000.0

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UGR-Table			Standard room							siteco	
Reflection factor of ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Reflection factor of walls		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reflection factor of floor		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		View crosswise (C0)					View endwise (C90)				
x	y										
2H	2H	18.8	20.5	19.1	20.8	21.1	18.7	20.4	19.1	20.8	21.1
	3H	20.5	22.0	20.9	22.4	22.7	20.1	21.7	20.5	22.0	22.3
	4H	21.3	22.8	21.7	23.1	23.5	20.6	22.1	21.0	22.5	22.8
	6H	22.1	23.4	22.5	23.8	24.2	21.0	22.4	21.4	22.7	23.1
	8H	22.4	23.7	22.9	24.1	24.5	21.1	22.4	21.6	22.8	23.2
	12H	22.7	23.9	23.2	24.3	24.7	21.2	22.4	21.6	22.8	23.2
4H	2H	19.5	20.9	19.8	21.3	21.6	19.4	20.9	19.8	21.2	21.6
	3H	21.4	22.6	21.8	23.0	23.4	21.0	22.3	21.4	22.6	23.0
	4H	22.4	23.5	22.8	23.9	24.3	21.7	22.8	22.1	23.2	23.6
	6H	23.3	24.3	23.7	24.7	25.1	22.1	23.1	22.6	23.6	24.0
	8H	23.7	24.6	24.2	25.0	25.5	22.3	23.2	22.7	23.6	24.1
	12H	24.1	24.9	24.6	25.4	25.9	22.4	23.2	22.9	23.7	24.2
8H	4H	22.7	23.6	23.1	24.0	24.5	22.1	23.0	22.5	23.4	23.9
	6H	23.8	24.5	24.2	25.0	25.5	22.7	23.5	23.2	23.9	24.4
	8H	24.3	25.0	24.8	25.5	26.0	22.9	23.6	23.4	24.1	24.6
	12H	24.8	25.4	25.4	25.9	26.5	23.1	23.6	23.6	24.1	24.7
12H	4H	22.7	23.5	23.2	24.0	24.5	22.2	23.0	22.6	23.4	23.9
	6H	23.8	24.5	24.3	25.0	25.5	22.8	23.5	23.3	24.0	24.5
	8H	24.4	25.0	24.9	25.5	26.1	23.1	23.7	23.6	24.2	24.7

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 1590 B = 87	H(C0) = 21 H(C90) = 21	H(C180) = 21 H(C270) = 21
C-planes	γ	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
			Luminance in cd/m²					
45°		7138.6	7182.8	7235.3	7386.6	7705.5	8132.2	8696.4
50°		6770.4	6795.5	6846.3	6950.8	7213.6	7618.9	8237.1
55°		6420.0	6427.5	6466.9	6517.8	6721.0	7075.1	7726.6
60°		6073.7	6068.6	6079.1	6098.4	6232.3	6524.8	7181.9
65°		5769.2	5755.3	5706.6	5670.4	5750.0	5970.1	6611.4
70°		5507.8	5476.7	5334.5	5233.8	5243.1	5386.0	5998.6
75°		5235.2	5185.8	4986.8	4784.6	4665.9	4714.0	5270.0
80°		4946.3	4864.2	4664.8	4305.2	4005.4	3872.1	4309.6
85°		4735.5	4635.3	4418.5	3967.6	3372.6	2889.8	3009.8

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Luminance values in cd/m²

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

siteco

