

Photometric test report

Family
Monsun® 11



Order number: **51FE107P660M**
EAN: **4069025280190**

Version

Lamps

Controlgear

Rated values

prismatic diffuser, opal, PMMA, wide distribution

LED 6500 K | CRI ≥ 80

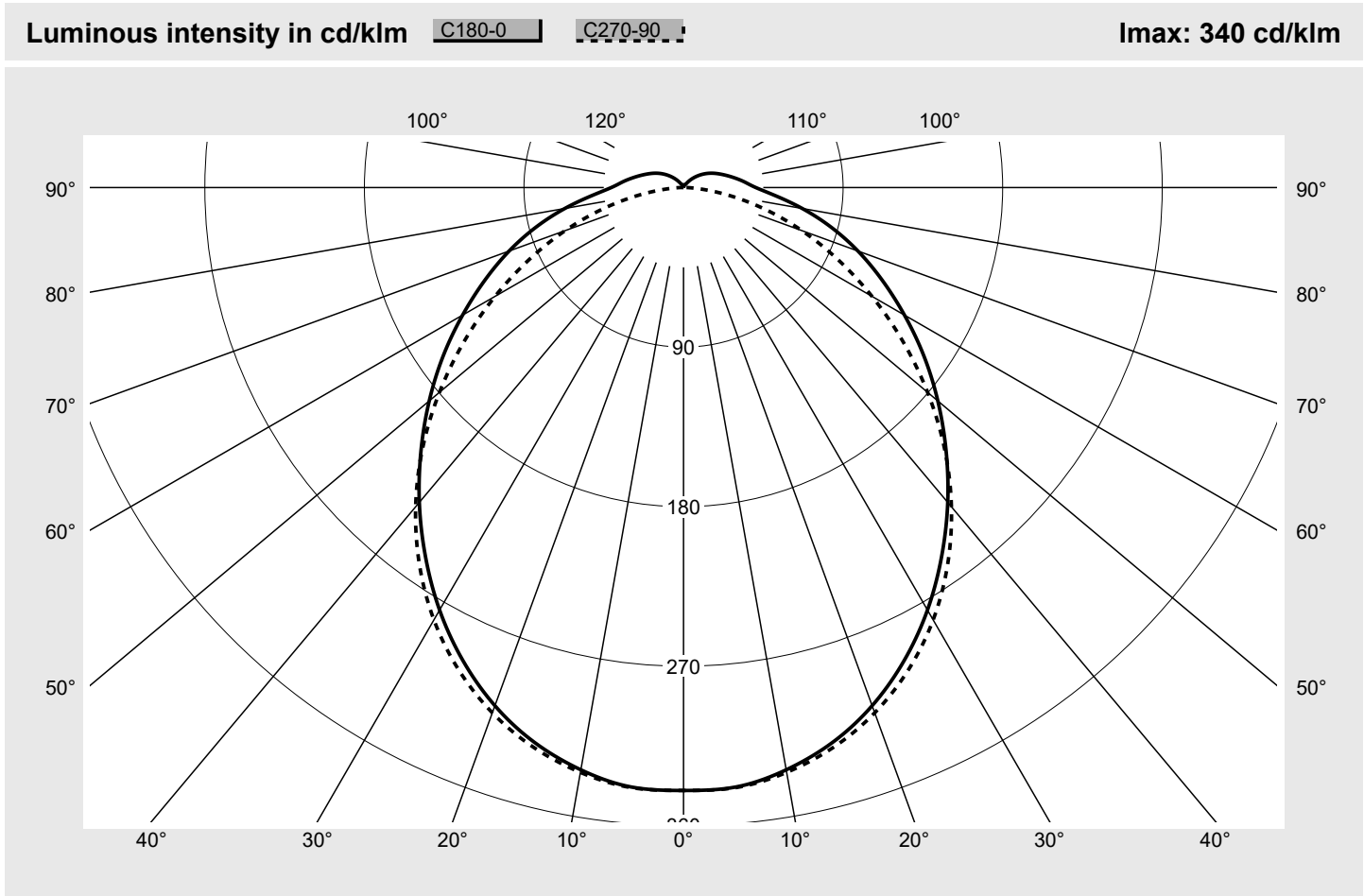
ECG

Net luminous flux = 5950 lm
Power consumption = 32.8 W
Luminous efficacy = 181.4 lm/W

LP number
58939_180

serial
documentation
30.09.2024





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
		siteco

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	20.0	21.7	20.4	22.0	22.3	20.0	21.7	20.4	22.0	22.3
	3H	21.8	23.3	22.1	23.6	24.0	21.4	22.9	21.8	23.3	23.6
	4H	22.6	24.0	23.0	24.4	24.7	21.9	23.4	22.3	23.7	24.1
	6H	23.3	24.7	23.7	25.0	25.4	22.3	23.6	22.7	24.0	24.4
	8H	23.7	25.0	24.1	25.3	25.7	22.4	23.7	22.8	24.1	24.5
	12H	24.0	25.2	24.4	25.6	26.0	22.5	23.7	22.9	24.1	24.5
4H	2H	20.7	22.2	21.1	22.5	22.9	20.7	22.2	21.1	22.5	22.9
	3H	22.6	23.9	23.1	24.3	24.7	22.3	23.5	22.7	23.9	24.3
	4H	23.6	24.7	24.0	25.1	25.6	22.9	24.1	23.4	24.5	24.9
	6H	24.5	25.5	25.0	25.9	26.4	23.4	24.4	23.8	24.8	25.3
	8H	24.9	25.9	25.4	26.3	26.8	23.5	24.5	24.0	24.9	25.4
	12H	25.4	26.2	25.8	26.6	27.1	23.6	24.5	24.1	24.9	25.4
8H	4H	23.9	24.9	24.4	25.3	25.8	23.3	24.2	23.8	24.7	25.1
	6H	25.0	25.8	25.5	26.3	26.8	23.9	24.7	24.4	25.2	25.7
	8H	25.6	26.2	26.0	26.7	27.2	24.2	24.9	24.7	25.3	25.8
	12H	26.1	26.7	26.6	27.2	27.7	24.3	24.9	24.8	25.4	25.9
12H	4H	24.0	24.8	24.5	25.3	25.7	23.4	24.2	23.9	24.7	25.2
	6H	25.1	25.8	25.6	26.3	26.8	24.1	24.8	24.6	25.2	25.8
	8H	25.7	26.3	26.2	26.8	27.3	24.4	25.0	24.9	25.4	26.0

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° 50° 55° 60°	γ	10259.5	10323.1	10398.6	10616.0	11074.3	11687.6	12498.4
		9730.5	9766.5	9839.5	9989.7	10367.4	10949.9	11838.3
		9226.8	9237.6	9294.2	9367.4	9659.4	10168.4	11104.6
		8729.1	8721.8	8736.9	8764.6	8957.1	9377.5	10321.8
65° 70° 75° 80° 85°	γ	8291.5	8271.5	8201.6	8149.5	8264.0	8580.3	9501.9
		7915.8	7871.0	7666.8	7522.0	7535.4	7740.7	8621.2
		7524.0	7453.0	7167.0	6876.3	6705.8	6774.9	7574.0
		7108.8	6990.8	6704.3	6187.5	5756.5	5565.0	6193.8
		6805.9	6661.8	6350.3	5702.3	4847.1	4153.2	4325.6

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Luminance values in cd/m²		siteco
γ 65° γ 70° γ 75° γ 80° γ 85°		

