

Photometric test report

Family
Monsun® 11



Order number: **51FF40MP460L**
EAN: **4069025273956**

Version

Lamps

Controlgear

Rated values

prismatic diffuser, opal, PMMA, impact resistant, wide distribution

LED 4000 K | CRI ≥ 80

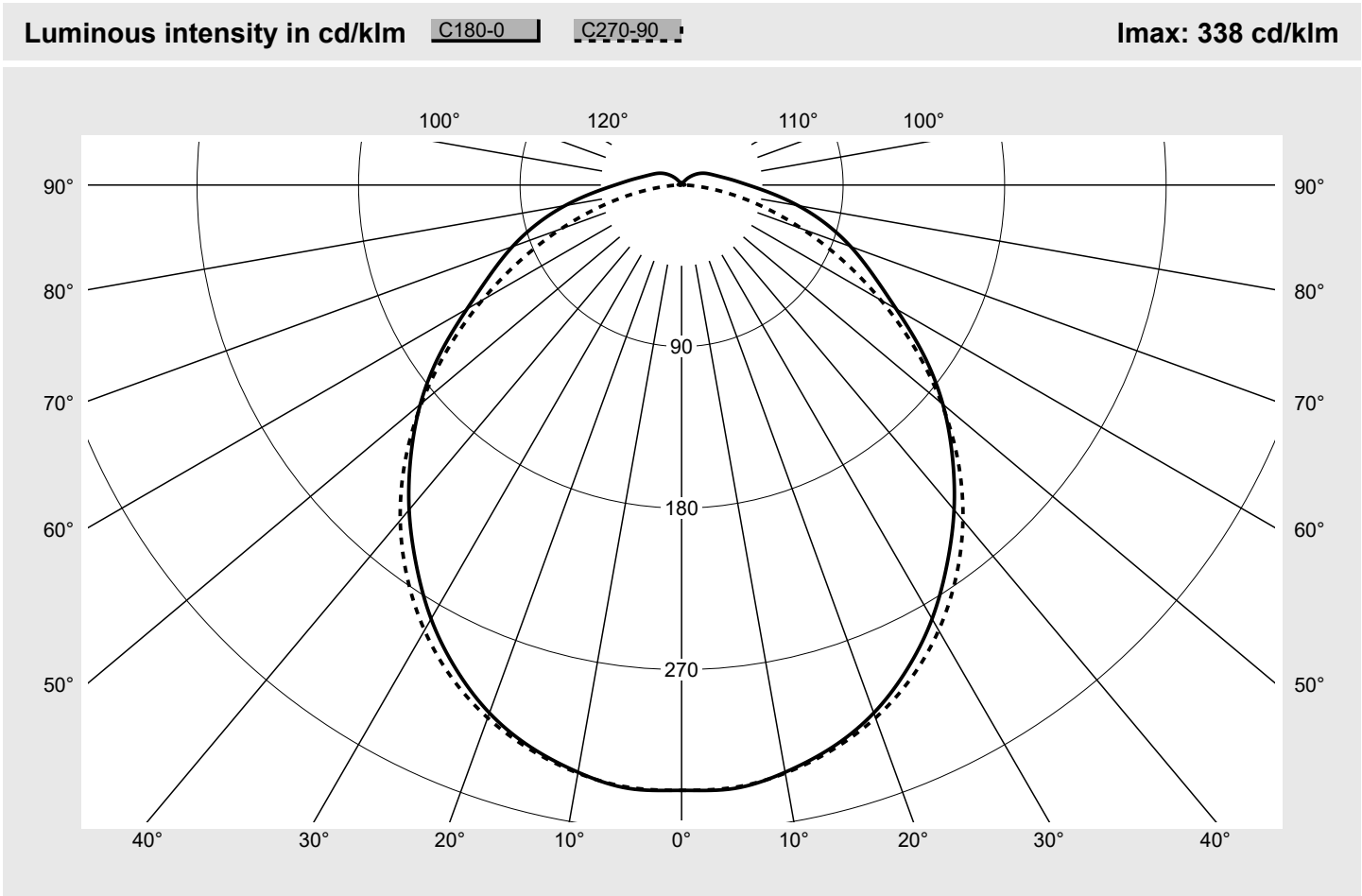
ECG Multilumen

Net luminous flux = 6110 lm
Power consumption = 31.5 W
Luminous efficacy = 194 lm/W

LP number
59020_9

serial
documentation
23.10.2024

siteco



Classifications		Luminaire light output ratios	
DIN 5040	A 4 1	η_{LB}	100.0%
CIE	N1=47 N2=77 N3=93	ϕ_u	94.8%
	N4=95 N5=100	ϕ_o	5.2%

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°	337.3	337.3	337.3	337.3	337.3	337.3	337.3	2.0	2.0
5°	337.5	336.4	334.5	335.8	337.2	336.9	336.9	16.1	18.1
10°	332.2	331.9	329.8	331.2	333.0	332.9	332.8	31.6	49.7
15°	324.3	324.6	322.6	323.9	325.4	325.8	325.7	46.0	95.7
20°	313.1	314.1	312.1	313.6	315.1	315.7	315.9	58.9	154.6
25°	297.5	298.9	297.5	299.8	301.9	302.4	303.0	69.5	224.1
30°	279.2	281.0	279.9	281.8	284.8	285.5	286.5	77.5	301.6
35°	257.9	260.0	259.0	261.1	264.4	265.2	266.6	82.4	384.0
40°	236.2	237.9	236.5	237.1	240.1	242.3	243.9	84.2	468.2
45°	213.3	214.4	212.9	211.4	213.4	215.8	217.9	82.9	551.1
50°	190.1	190.6	188.8	186.3	185.4	186.8	189.1	78.9	630.0
55°	164.5	165.1	164.4	160.2	157.7	156.9	158.8	72.3	702.3
60°	138.1	138.1	137.0	134.7	130.2	127.4	128.2	63.3	765.6
65°	117.3	116.4	112.4	108.2	104.2	99.4	98.8	53.7	819.3
70°	100.3	99.0	91.7	84.5	79.3	73.6	71.6	44.1	863.5
75°	83.2	81.7	74.7	65.1	57.1	50.8	47.3	34.8	898.3
80°	65.8	64.5	59.3	48.9	38.3	30.8	26.4	25.9	924.2
85°	49.5	48.3	44.5	35.6	23.7	15.0	10.1	17.9	942.1
90°	37.1	36.3	33.4	26.4	15.8	6.7	2.1	12.6	954.7
95°	29.4	28.9	27.0	22.0	13.4	5.0	1.8	10.2	964.9
100°	23.9	23.5	21.8	17.7	11.0	3.7	1.6	8.1	973.0
105°	20.2	19.6	17.9	14.3	8.4	2.4	1.4	6.5	979.5
110°	17.5	16.7	15.0	11.5	6.2	1.4	1.2	5.2	984.7
115°	15.3	14.5	12.7	9.2	4.4	1.2	1.1	4.2	988.8
120°	13.2	12.3	10.5	7.1	2.9	1.2	1.0	3.2	992.1
125°	11.0	10.1	8.2	5.1	1.7	1.1	1.0	2.4	994.5
130°	8.6	7.8	6.1	3.4	1.3	1.0	1.0	1.7	996.2
135°	6.4	5.7	4.2	2.0	1.3	1.0	1.0	1.2	997.3
140°	4.2	3.7	2.5	1.6	1.3	1.1	1.1	0.7	998.1
145°	2.4	2.1	1.8	1.6	1.3	1.1	1.1	0.5	998.6
150°	1.9	1.8	1.7	1.5	1.2	1.2	1.2	0.4	999.0
155°	1.7	1.7	1.6	1.5	1.3	1.3	1.3	0.3	999.4
160°	1.6	1.6	1.5	1.3	1.3	1.3	1.3	0.3	999.6
165°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.2	999.8
170°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.1	999.9
175°	1.3	1.3	1.3	1.3	1.3	1.4	1.4	0.1	1000.0
180°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	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	22.4	20.3	22.0	20.7	22.3	22.6
	3H	21.7	23.2	22.0	23.5	23.9	21.6	23.2	22.0	23.5	23.8
	4H	22.5	23.9	22.9	24.3	24.6	22.1	23.6	22.5	23.9	24.3
	6H	23.2	24.6	23.6	24.9	25.3	22.4	23.8	22.8	24.2	24.5
	8H	23.6	24.8	24.0	25.2	25.6	22.6	23.8	23.0	24.2	24.6
	12H	23.9	25.1	24.3	25.5	25.9	22.6	23.8	23.0	24.2	24.6
4H	2H	20.7	22.2	21.1	22.5	22.9	20.9	22.4	21.3	22.7	23.1
	3H	22.5	23.8	23.0	24.2	24.6	22.4	23.7	22.9	24.1	24.5
	4H	23.5	24.6	23.9	25.0	25.4	23.0	24.2	23.5	24.6	25.0
	6H	24.4	25.4	24.9	25.8	26.3	23.5	24.5	23.9	24.9	25.3
	8H	24.8	25.7	25.3	26.2	26.6	23.6	24.5	24.1	25.0	25.4
	12H	25.2	26.0	25.7	26.5	27.0	23.7	24.5	24.2	25.0	25.5
8H	4H	23.8	24.7	24.3	25.1	25.6	23.4	24.3	23.9	24.7	25.2
	6H	24.9	25.7	25.4	26.1	26.6	24.0	24.7	24.4	25.2	25.7
	8H	25.4	26.1	25.9	26.6	27.1	24.2	24.8	24.7	25.3	25.8
	12H	26.0	26.6	26.5	27.1	27.6	24.3	24.9	24.8	25.4	25.9
12H	4H	23.8	24.7	24.3	25.1	25.6	23.5	24.3	24.0	24.7	25.2
	6H	25.0	25.6	25.5	26.1	26.6	24.1	24.8	24.6	25.3	25.8
	8H	25.6	26.2	26.1	26.7	27.2	24.4	24.9	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	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
γ	Luminance in cd/m²						
45°	10734.6	10828.7	10938.9	11190.4	11776.7	12538.3	13435.5
50°	10142.7	10215.0	10322.7	10542.4	11007.3	11780.7	12793.5
55°	9420.2	9502.4	9676.6	9812.4	10213.5	10908.3	12005.0
60°	8602.3	8656.6	8813.0	9068.9	9358.7	9953.3	11068.9
65°	8081.2	8070.3	8033.6	8161.4	8488.0	8943.5	10046.1
70°	7788.3	7751.9	7436.3	7299.6	7513.4	7875.0	8923.8
75°	7468.4	7409.2	7062.4	6644.3	6527.4	6762.4	7694.3
80°	7070.0	7007.6	6786.1	6152.7	5568.9	5484.8	6238.3
85°	6669.2	6615.0	6510.8	5897.6	4789.0	4082.1	4426.5

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Luminance values in cd/m²

γ 65°

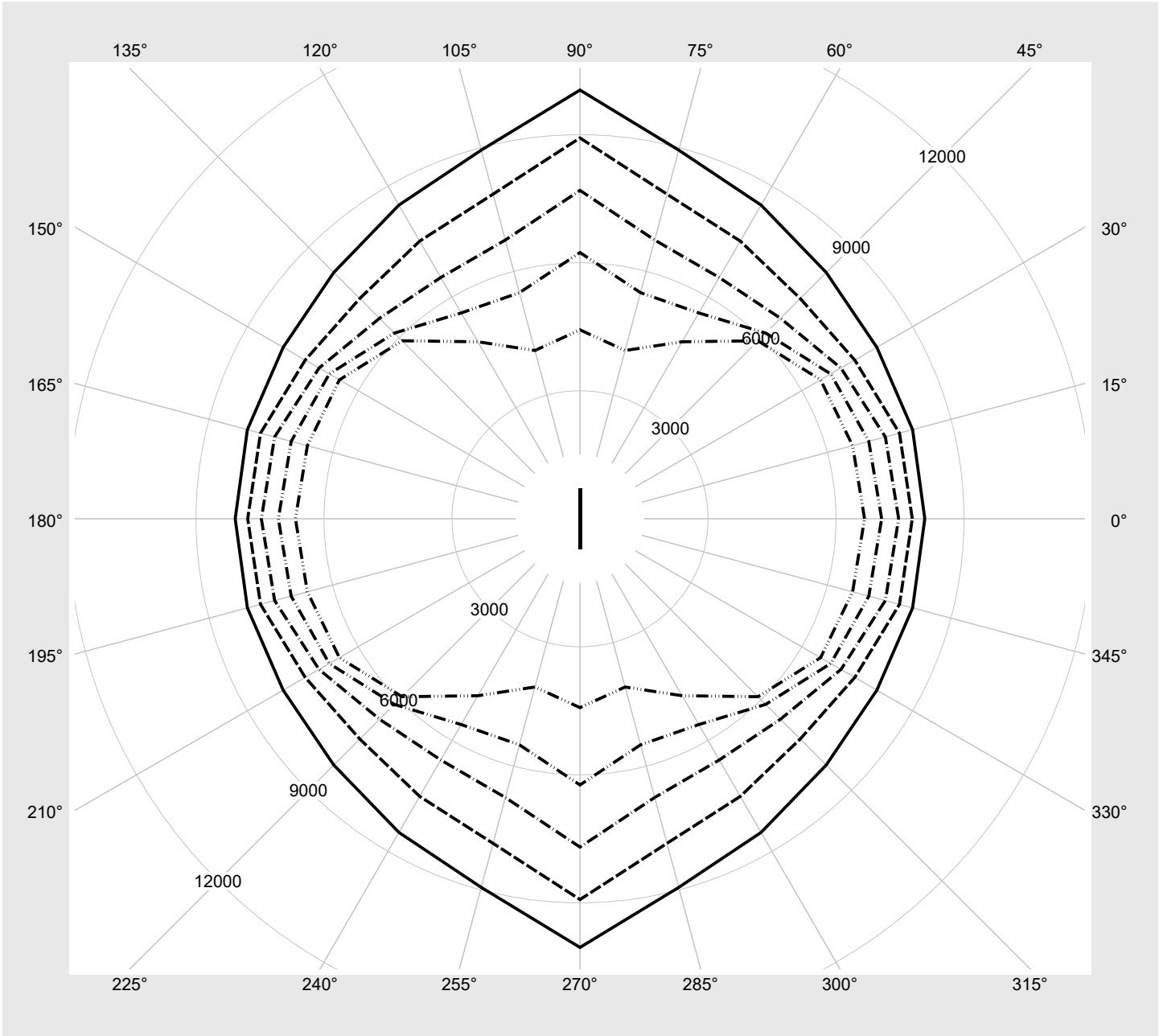
γ 70°

γ 75°

γ 80°

γ 85°

siteco



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Family Monsun® 11	Order number: 51FF40MP460L EAN: 4069025273956	LP number 59020_9
Multilumen Table	environmental temperature: 25°C	siteco

DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
1	A	C	E	6110	31.5
2	A	C	F	5880	30.3
3	A	D	E	5580	28.7
4	A	D	F	5270	27.0
5	B	C	E	4960	25.4
6	B	C	F	4650	23.8
7	B	D	E	4460	22.8
8	B	D	F	4280	21.9