

Photometric test report

Family
Monsun® 21



Order number: 51FB10MP680C
EAN: 4069025178220

Version

Lamps

Controlgear

Rated values

prismatic diffuser, opal, PMMA, extremely wide distribution

LED 6500 K | CRI ≥ 80

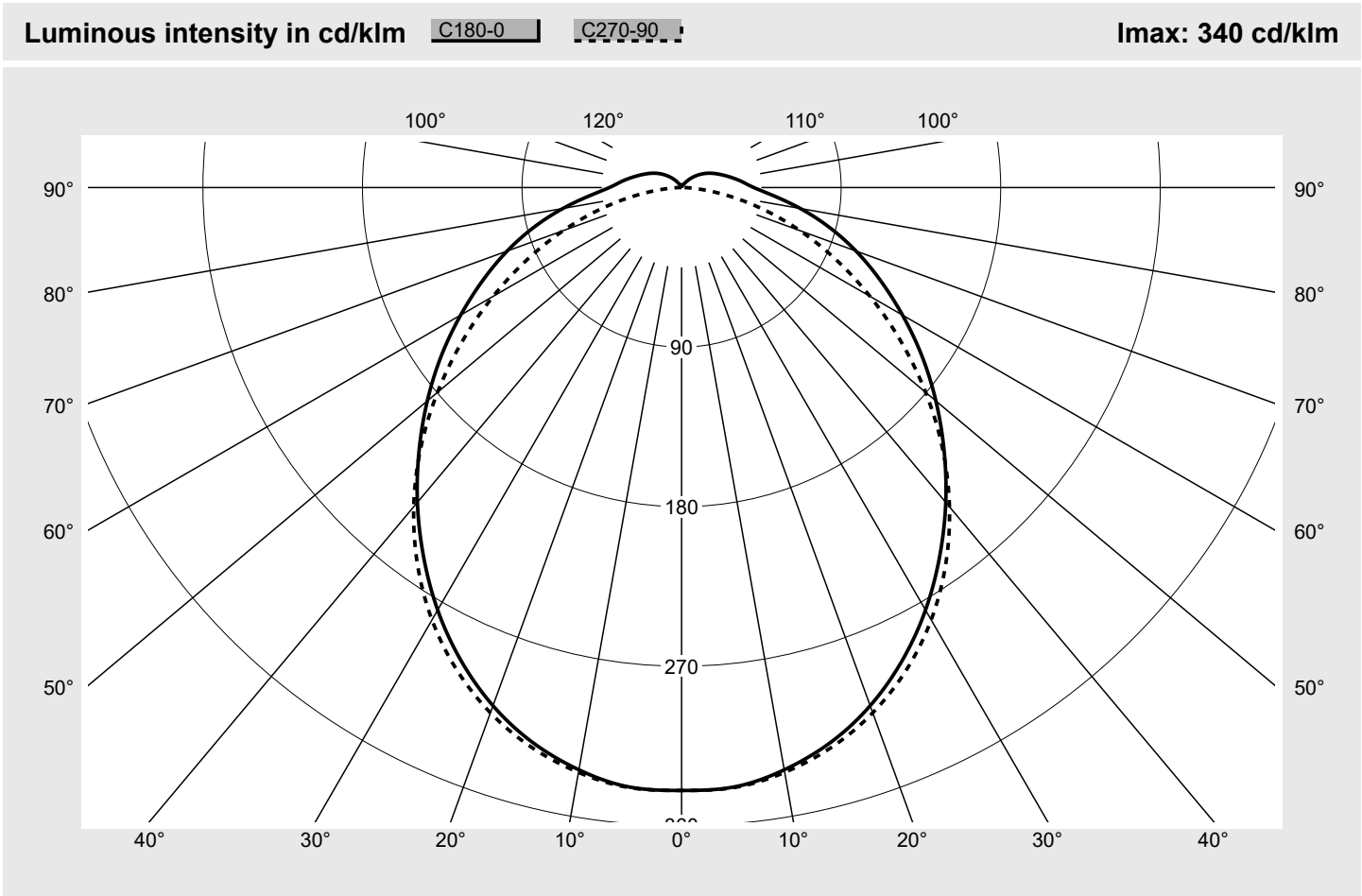
ECG Multilumen

Net luminous flux = 8200 lm
Power consumption = 46.9 W
Luminous efficacy = 174.8 lm/W

LP number
58939_130

serial
documentation
08.05.2024

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
		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	21.1	22.8	21.5	23.1	23.5	21.1	22.8	21.5	23.1	23.4
	3H	22.9	24.4	23.2	24.7	25.1	22.5	24.0	22.9	24.4	24.7
	4H	23.7	25.1	24.1	25.5	25.9	23.0	24.5	23.4	24.8	25.2
	6H	24.4	25.8	24.9	26.2	26.5	23.4	24.7	23.8	25.1	25.5
	8H	24.8	26.1	25.2	26.4	26.8	23.5	24.8	23.9	25.2	25.6
	12H	25.1	26.3	25.6	26.7	27.1	23.6	24.8	24.0	25.2	25.6
4H	2H	21.8	23.3	22.2	23.6	24.0	21.8	23.3	22.2	23.6	24.0
	3H	23.8	25.0	24.2	25.4	25.8	23.4	24.6	23.8	25.0	25.4
	4H	24.7	25.9	25.2	26.3	26.7	24.0	25.2	24.5	25.6	26.0
	6H	25.6	26.6	26.1	27.1	27.5	24.5	25.5	25.0	25.9	26.4
	8H	26.1	27.0	26.5	27.4	27.9	24.7	25.6	25.1	26.0	26.5
	12H	26.5	27.3	27.0	27.7	28.2	24.8	25.6	25.2	26.0	26.5
8H	4H	25.0	26.0	25.5	26.4	26.9	24.4	25.4	24.9	25.8	26.3
	6H	26.1	26.9	26.6	27.4	27.9	25.1	25.8	25.5	26.3	26.8
	8H	26.7	27.4	27.2	27.8	28.3	25.3	26.0	25.8	26.4	27.0
	12H	27.2	27.8	27.7	28.3	28.8	25.4	26.0	25.9	26.5	27.0
12H	4H	25.1	25.9	25.6	26.4	26.9	24.5	25.3	25.0	25.8	26.3
	6H	26.2	26.9	26.7	27.4	27.9	25.2	25.9	25.7	26.4	26.9
	8H	26.8	27.4	27.3	27.9	28.4	25.5	26.1	26.0	26.6	27.1

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°	14139.2	14226.8	14330.9	14630.5	15262.0	16107.3	17224.7
50°	13410.1	13459.8	13560.4	13767.3	14287.9	15090.6	16315.0
55°	12716.0	12730.8	12808.8	12909.7	13312.1	14013.6	15303.8
60°	12030.0	12019.9	12040.8	12079.0	12344.3	12923.5	14225.0
65°	11426.9	11399.4	11303.0	11231.3	11389.0	11824.9	13095.1
70°	10909.1	10847.5	10566.0	10366.4	10384.9	10667.9	11881.3
75°	10369.2	10271.3	9877.3	9476.6	9241.6	9336.9	10438.2
80°	9797.0	9634.4	9239.5	8527.3	7933.4	7669.4	8536.0
85°	9379.5	9180.9	8751.6	7858.6	6680.0	5723.8	5961.4

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Luminance values in cd/m²

γ 65°

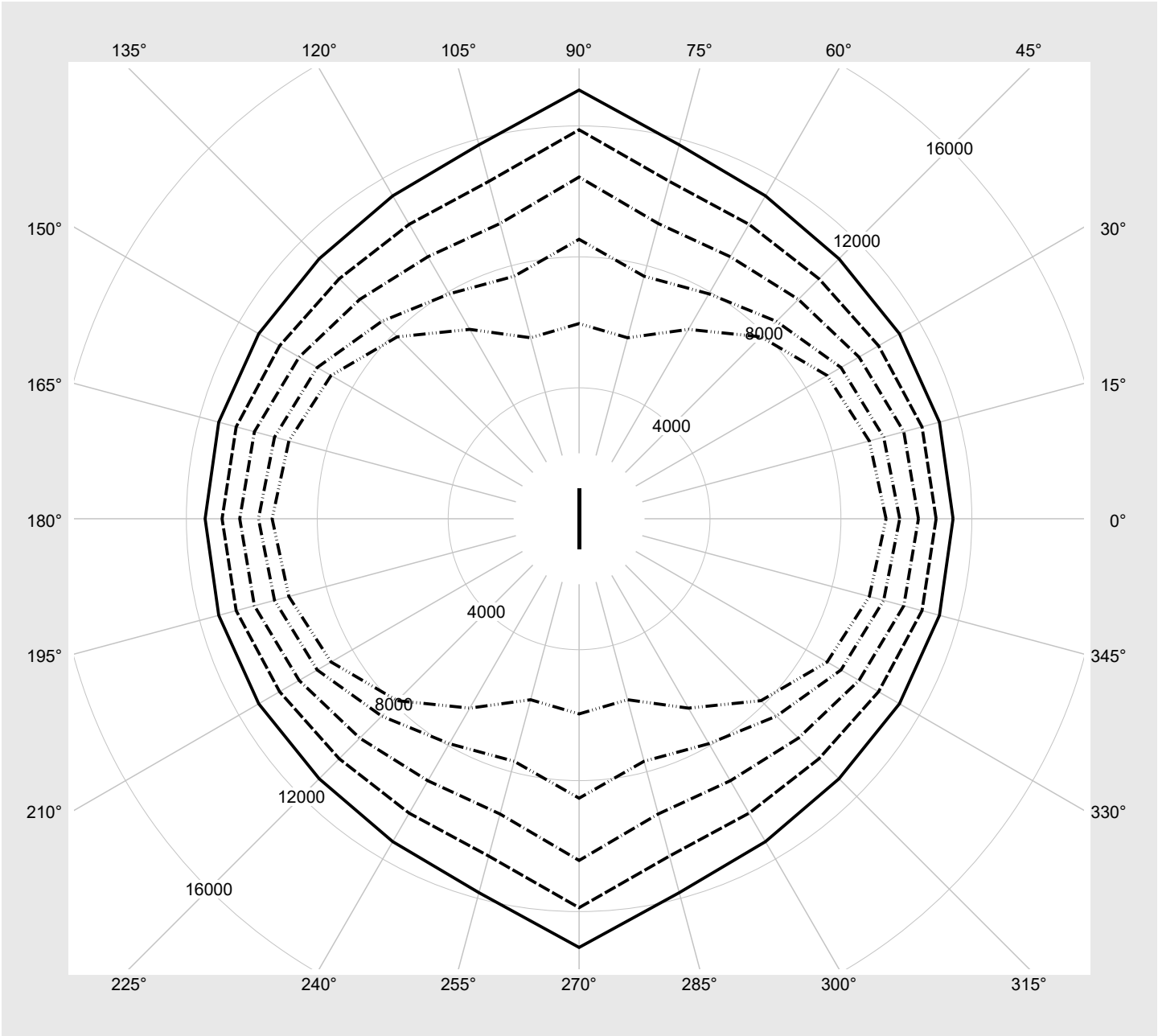
γ 70°

γ 75°

γ 80°

γ 85°

siteco



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Family Monsun® 21	Order number: 51FB10MP680C EAN: 4069025178220	LP number 58939_130
Multilumen Table	environmental temperature: 25°C	siteco

DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
1	A	C	E	8200	46.9
2	A	C	F	7430	42.1
3	A	D	E	6850	38.7
4	A	D	F	6200	35.0
5	B	C	E	5620	31.6
6	B	C	F	5030	28.2
7	B	D	E	4430	24.9
8	B	D	F	3890	21.9