

Photometric test report

Family
Monsun® 21

Order number: **51FB10MP380C**
EAN: **4069025178183**

LP number
58939_128



Version prismatic diffuser, opal, PMMA, extremely wide distribution
Lamps LED 3000 K | CRI ≥ 80
Controlgear ECG Multilumen
Rated values Net luminous flux = 8490 lm
Power consumption = 49.1 W
Luminous efficacy = 172.9 lm/W

serial
documentation
08.05.2024

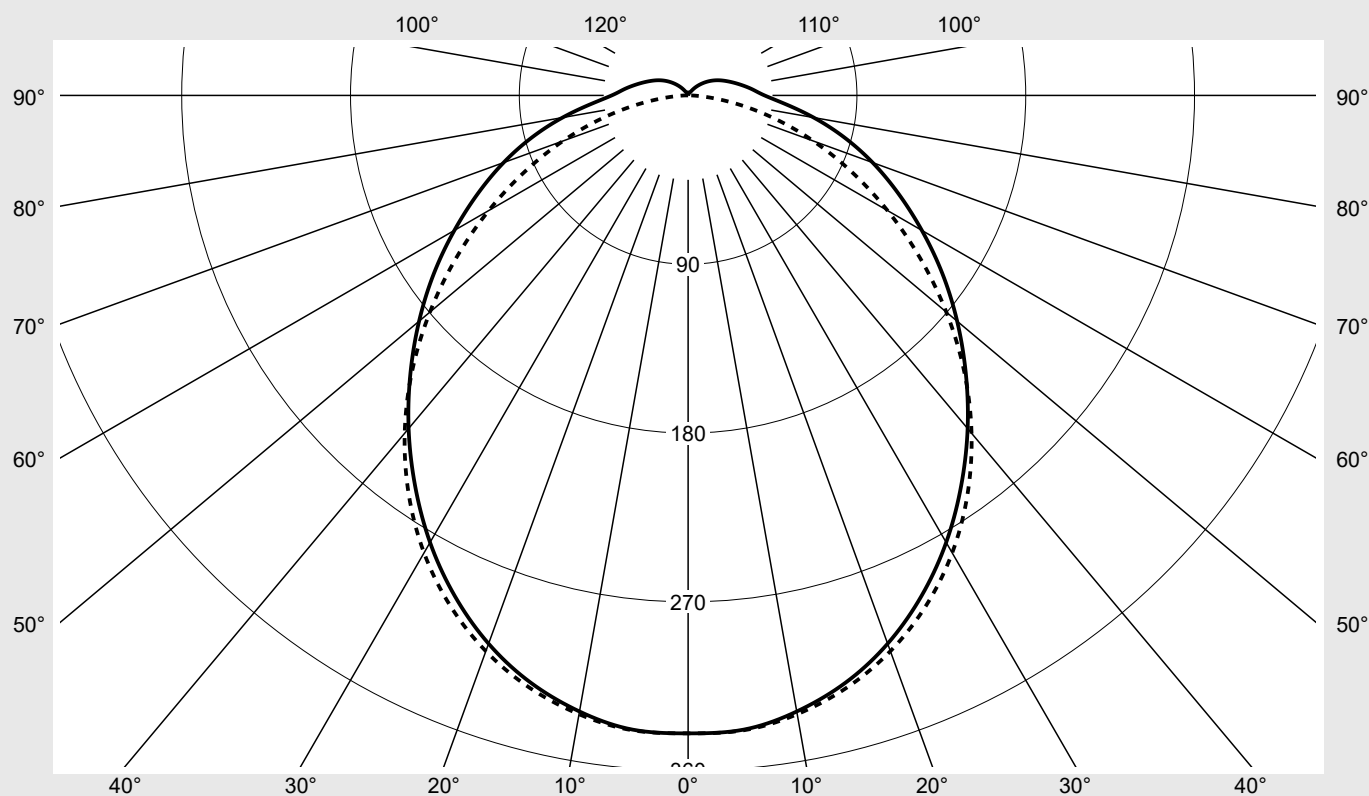
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 340 cd/klm



Classifications

DIN 5040 A 4 1
CIE N1=47 N2=77 N3=93
N4=94 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 94.2%
 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	21.3	23.0	21.6	23.3	23.6	21.2	22.9	21.6	23.2	23.6
	3H	23.0	24.5	23.4	24.9	25.2	22.6	24.2	23.0	24.5	24.8
	4H	23.8	25.3	24.2	25.6	26.0	23.1	24.6	23.5	24.9	25.3
	6H	24.6	25.9	25.0	26.3	26.7	23.5	24.9	23.9	25.2	25.6
	8H	24.9	26.2	25.4	26.6	27.0	23.6	24.9	24.1	25.3	25.7
	12H	25.2	26.4	25.7	26.8	27.2	23.7	24.9	24.1	25.3	25.7
4H	2H	21.9	23.4	22.3	23.8	24.1	21.9	23.4	22.3	23.7	24.1
	3H	23.9	25.1	24.3	25.5	25.9	23.5	24.8	23.9	25.1	25.5
	4H	24.8	26.0	25.3	26.4	26.8	24.2	25.3	24.6	25.7	26.1
	6H	25.8	26.7	26.2	27.2	27.6	24.6	25.6	25.1	26.1	26.5
	8H	26.2	27.1	26.6	27.5	28.0	24.8	25.7	25.2	26.1	26.6
	12H	26.6	27.4	27.1	27.9	28.3	24.9	25.7	25.4	26.2	26.6
8H	4H	25.2	26.1	25.6	26.5	27.0	24.6	25.5	25.0	25.9	26.4
	6H	26.3	27.0	26.7	27.5	28.0	25.2	25.9	25.7	26.4	26.9
	8H	26.8	27.5	27.3	28.0	28.5	25.4	26.1	25.9	26.6	27.1
	12H	27.3	27.9	27.9	28.4	29.0	25.6	26.1	26.1	26.6	27.2
12H	4H	25.2	26.0	25.7	26.5	27.0	24.7	25.5	25.1	25.9	26.4
	6H	26.3	27.0	26.8	27.5	28.0	25.3	26.0	25.8	26.5	27.0
	8H	26.9	27.5	27.4	28.0	28.6	25.6	26.2	26.1	26.7	27.2

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°		14639.2	14730.0	14837.7	15147.9	15801.8	16676.9	17833.8
50°		13884.3	13935.8	14039.9	14254.1	14793.2	15624.3	16891.9
55°		13165.7	13181.0	13261.7	13366.2	13782.9	14509.2	15845.0
60°		12455.5	12445.0	12466.6	12506.2	12780.8	13380.6	14728.1
65°		11831.0	11802.6	11702.7	11628.5	11791.8	12243.1	13558.2
70°		11294.9	11231.1	10939.7	10733.0	10752.1	11045.2	12301.4
75°		10736.0	10634.6	10226.6	9811.8	9568.4	9667.1	10807.3
80°		10143.5	9975.1	9566.3	8828.8	8213.9	7940.7	8837.9
85°		9711.2	9505.6	9061.1	8136.6	6916.2	5926.2	6172.2

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Luminance values in cd/m²

γ 65°

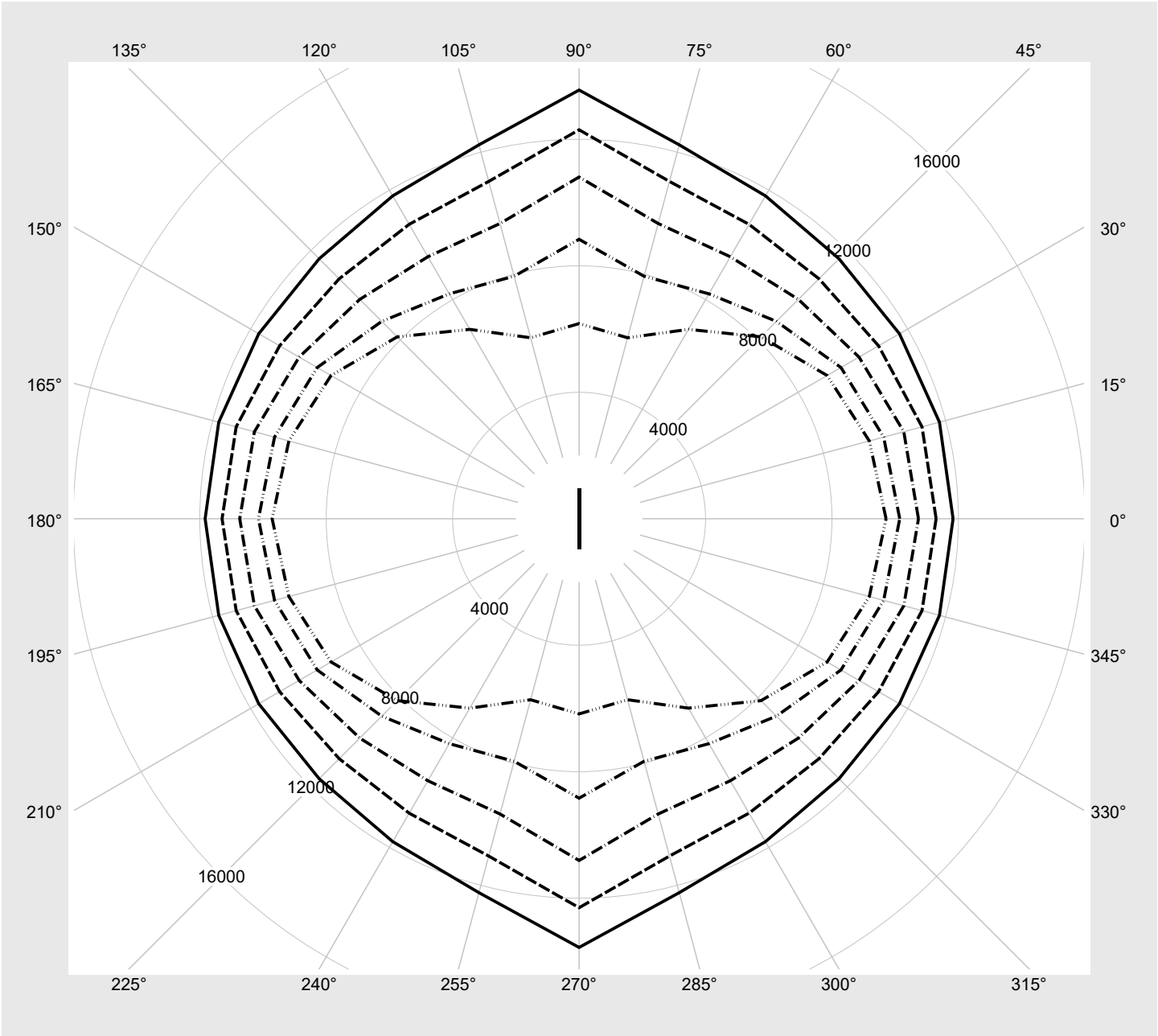
γ 70°

γ 75°

γ 80°

γ 85°

siteco



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Family Monsun® 21	Order number: 51FB10MP380C EAN: 4069025178183	LP number 58939_128
Multilumen Table	environmental temperature: 25°C	siteco

DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
1	A	C	E	8490	49.1
2	A	C	F	7590	43.4
3	A	D	E	7020	40.0
4	A	D	F	6380	36.2
5	B	C	E	5810	32.8
6	B	C	F	5150	29.1
7	B	D	E	4560	25.7
8	B	D	F	4030	22.7