

Photometric test report

Family
Monsun® 21

Order number: 51FB12MP480C
EAN: 4069025178244

LP number
59014_8



Version prismatic diffuser, opal, PMMA, wide distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG Multilumen
Rated values Net luminous flux = 8380 lm
Power consumption = 45.2 W
Luminous efficacy = 185.4 lm/W

serial
documentation
08.05.2024

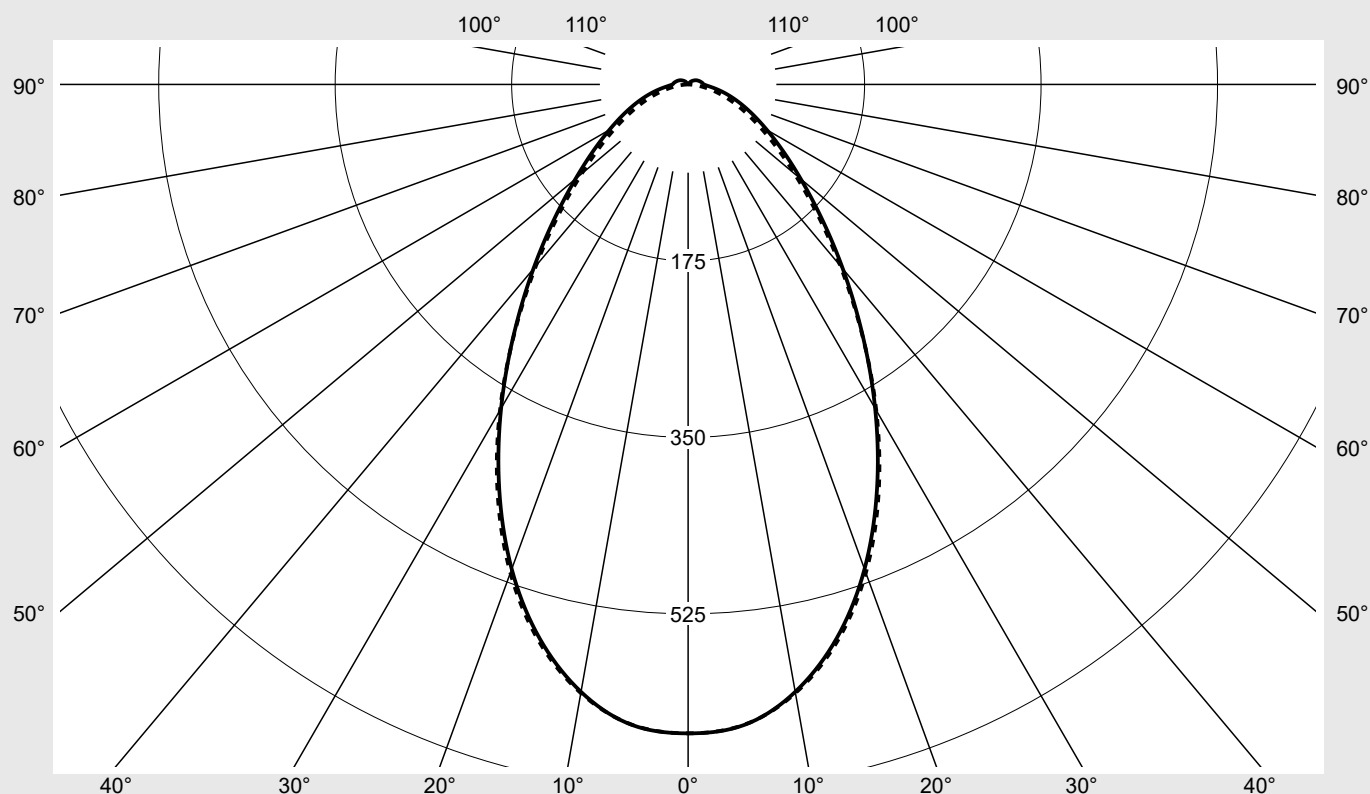
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 643 cd/klm



Classifications

DIN 5040 A 5 1
CIE N1=65 N2=88 N3=97
N4=97 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 97.2%
 ϕ_o 2.8%

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°	643.5	643.5	643.5	643.5	643.5	643.5	643.5	3.8	3.8
5°	637.6	635.4	631.6	634.4	637.3	637.0	637.4	30.4	34.2
10°	611.6	610.1	606.4	609.4	612.4	612.4	612.8	58.1	92.3
15°	568.8	568.0	564.7	567.5	570.7	571.1	571.7	80.7	173.0
20°	511.5	511.1	508.3	510.7	513.9	514.6	515.3	96.0	269.0
25°	443.2	443.1	440.7	442.6	445.5	446.1	447.1	102.8	371.8
30°	371.0	371.1	368.7	369.7	371.9	372.2	373.1	101.7	473.5
35°	300.7	300.7	298.6	298.4	299.2	299.0	299.8	94.1	567.6
40°	238.7	238.3	236.6	235.1	234.9	234.3	234.7	83.1	650.7
45°	186.7	186.0	184.5	182.3	181.1	179.9	180.6	70.9	721.6
50°	145.8	145.0	143.8	141.4	139.3	137.5	137.9	59.4	781.0
55°	114.7	113.7	112.7	110.1	107.4	105.2	105.3	49.3	830.4
60°	90.2	89.4	88.3	85.7	82.9	80.3	79.9	40.5	870.8
65°	71.0	70.3	69.1	66.5	63.6	60.7	59.7	32.8	903.6
70°	55.2	54.7	53.0	50.5	47.5	44.4	43.0	25.7	929.3
75°	41.7	41.3	39.3	36.7	33.4	30.3	28.5	19.1	948.3
80°	30.0	29.4	27.6	24.6	21.1	17.9	15.8	12.9	961.2
85°	20.6	20.0	18.3	15.2	11.4	8.0	5.8	7.8	969.1
90°	15.7	15.1	13.3	10.2	6.4	3.0	0.9	5.1	974.2
95°	14.4	13.8	12.1	9.2	5.6	2.3	0.8	4.6	978.8
100°	13.2	12.6	10.9	8.1	4.8	1.7	0.7	4.1	982.9
105°	12.0	11.4	9.7	7.0	3.9	1.1	0.7	3.5	986.3
110°	10.8	10.1	8.4	5.9	3.0	0.8	0.6	2.9	989.2
115°	9.6	8.9	7.3	4.9	2.3	0.8	0.7	2.4	991.7
120°	8.3	7.6	6.1	3.9	1.6	0.8	0.7	1.9	993.6
125°	6.9	6.2	4.8	2.9	1.1	0.8	0.8	1.5	995.1
130°	5.5	4.9	3.7	2.2	1.1	1.0	0.9	1.1	996.2
135°	4.3	3.8	2.8	1.6	1.3	1.1	1.1	0.9	997.1
140°	3.1	2.8	2.1	1.6	1.5	1.3	1.3	0.7	997.7
145°	2.3	2.1	1.9	1.8	1.6	1.5	1.5	0.6	998.3
150°	2.1	2.0	2.0	1.8	1.6	1.6	1.6	0.5	998.8
155°	2.1	2.0	1.9	1.8	1.7	1.6	1.6	0.4	999.2
160°	1.9	1.9	1.8	1.7	1.6	1.6	1.6	0.3	999.5
165°	1.6	1.7	1.7	1.6	1.6	1.6	1.6	0.2	999.8
170°	1.5	1.6	1.6	1.6	1.6	1.6	1.6	0.1	999.9
175°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.1	1000.0
180°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	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	19.3	20.8	19.6	21.1	21.4	19.4	20.9	19.8	21.2	21.5
	3H	20.3	21.6	20.6	21.9	22.3	20.3	21.7	20.7	22.0	22.3
	4H	20.7	22.0	21.1	22.3	22.7	20.7	21.9	21.1	22.3	22.6
	6H	21.1	22.2	21.5	22.6	23.0	20.9	22.1	21.3	22.4	22.8
	8H	21.3	22.3	21.7	22.7	23.1	21.0	22.1	21.5	22.5	22.9
	12H	21.5	22.4	21.9	22.8	23.2	21.1	22.0	21.5	22.4	22.8
4H	2H	19.7	21.0	20.1	21.3	21.7	19.8	21.1	20.2	21.4	21.8
	3H	20.9	22.0	21.3	22.3	22.8	20.9	22.0	21.3	22.4	22.8
	4H	21.5	22.4	21.9	22.8	23.3	21.4	22.3	21.8	22.7	23.2
	6H	22.0	22.8	22.4	23.2	23.7	21.7	22.5	22.2	23.0	23.4
	8H	22.2	22.9	22.7	23.4	23.9	21.8	22.6	22.3	23.0	23.5
	12H	22.4	23.1	22.9	23.5	24.0	21.9	22.5	22.4	23.0	23.5
8H	4H	21.7	22.4	22.1	22.9	23.3	21.6	22.3	22.1	22.8	23.3
	6H	22.3	22.9	22.8	23.4	23.9	22.0	22.6	22.5	23.1	23.6
	8H	22.6	23.1	23.1	23.6	24.1	22.2	22.7	22.7	23.2	23.7
	12H	22.9	23.3	23.4	23.8	24.4	22.3	22.7	22.8	23.2	23.8
12H	4H	21.7	22.4	22.2	22.8	23.3	21.6	22.3	22.1	22.7	23.2
	6H	22.4	22.9	22.9	23.4	23.9	22.1	22.6	22.6	23.1	23.6
	8H	22.7	23.1	23.2	23.6	24.2	22.3	22.7	22.8	23.2	23.8

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°	12885.3	12889.9	13002.9	13235.6	13706.8	14336.5	15269.7
50°	10672.6	10659.4	10785.1	10973.5	11340.0	11892.4	12792.3
55°	9005.2	8974.6	9096.6	9246.1	9546.9	10034.7	10919.1
60°	7708.2	7682.2	7789.6	7914.7	8172.4	8602.7	9464.5
65°	6708.7	6689.7	6774.1	6874.9	7102.3	7486.3	8326.0
70°	5882.2	5874.3	5895.0	5982.6	6171.8	6511.0	7346.0
75°	5138.8	5127.8	5099.0	5138.2	5243.2	5528.8	6349.8
80°	4417.9	4373.8	4338.6	4244.2	4216.7	4369.1	5129.9
85°	3818.2	3755.1	3661.7	3446.0	3158.8	2986.4	3480.9

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Luminance values in cd/m²

γ 65°

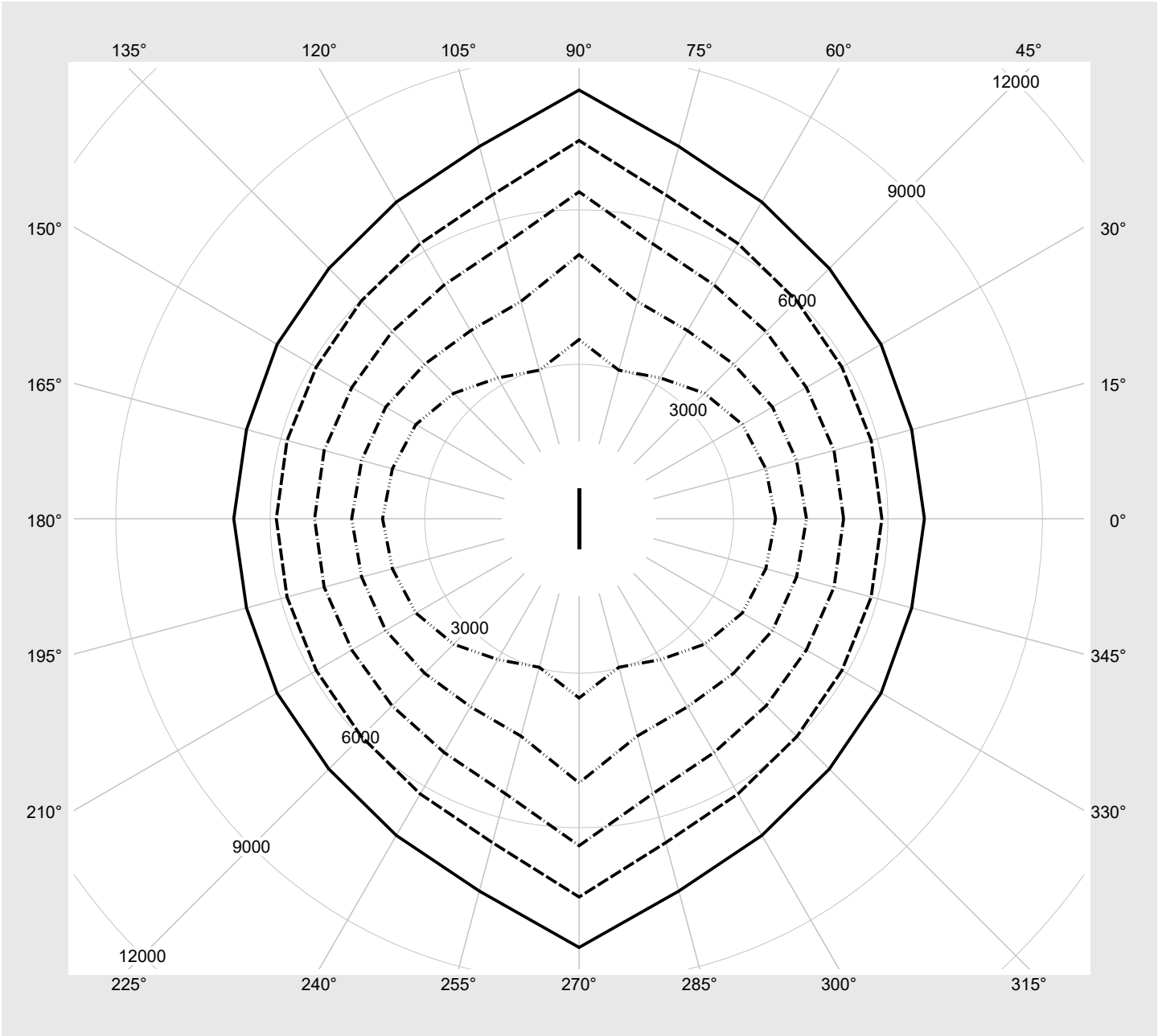
γ 70°

γ 75°

γ 80°

γ 85°

siteco



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Family Monsun® 21	Order number: 51FB12MP480C EAN: 4069025178244	LP number 59014_8
Multilumen Table	environmental temperature: 25°C	siteco

DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
1	A	C	E	8380	45.2
2	A	C	F	7560	40.5
3	A	D	E	7030	37.5
4	A	D	F	6330	33.7
5	B	C	E	5790	30.8
6	B	C	F	5160	27.4
7	B	D	E	4530	24.1
8	B	D	F	4120	21.9