

Photometric test report

Family
Monsun® 11**Order number: 51FE10DP480S**
EAN: 4069025242396**LP number**
59015_9**serial**
documentation
20.08.2024

siteco

Version prismatic diffuser, opal, PMMA, wide distribution

Lamps LED 4000 K | CRI ≥ 80

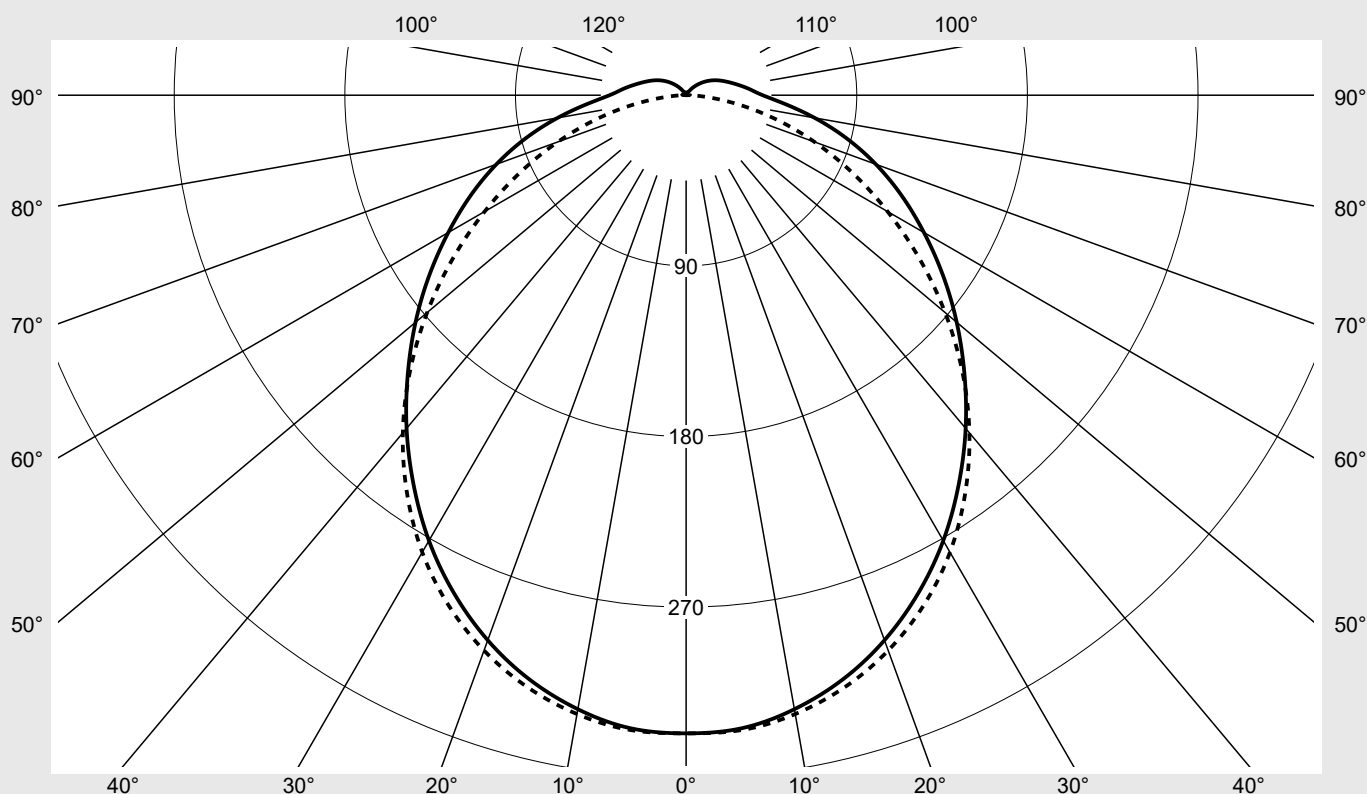
Controlgear ECG-DALI

Rated values Net luminous flux = 8000 lm
Power consumption = 41.0 W
Luminous efficacy = 195.1 lm/W

**Luminous intensity in cd/klm**

C180-0

C270-90

Imax: 337 cd/klm**Classifications**

DIN 5040 A 4 1
CIE N1=47 N2=76 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°	336.6	336.6	336.6	336.6	336.6	336.6	336.6	2.0	2.0
5°	335.2	335.1	333.2	334.3	335.7	335.7	336.1	16.0	18.0
10°	328.8	330.1	328.0	329.4	330.8	330.9	331.4	31.4	49.4
15°	319.0	321.3	319.3	320.8	322.3	322.7	323.3	45.6	95.0
20°	305.9	308.9	307.1	308.7	310.4	311.0	311.7	58.0	152.9
25°	289.8	293.4	291.5	293.1	295.0	295.9	296.7	68.0	221.0
30°	271.3	275.1	273.1	274.3	276.2	277.4	278.4	75.4	296.4
35°	250.7	254.3	252.4	252.9	254.4	255.5	256.6	79.8	376.2
40°	229.4	232.7	230.3	229.8	230.5	231.3	232.4	81.4	457.6
45°	207.6	210.4	207.6	205.2	204.9	204.7	206.0	80.1	537.6
50°	186.3	188.5	185.0	181.0	178.9	177.2	178.3	76.5	614.1
55°	165.3	166.9	162.7	157.6	153.3	149.9	150.2	71.0	685.1
60°	144.9	145.8	140.7	134.7	128.7	123.6	122.7	63.9	748.9
65°	125.5	125.6	119.9	112.7	105.4	99.0	96.8	55.8	804.7
70°	106.5	105.7	100.0	91.3	83.0	75.5	72.0	46.8	851.5
75°	87.5	86.0	80.8	71.2	61.8	53.7	49.1	37.2	888.7
80°	68.8	66.9	62.0	52.7	42.3	33.4	27.9	27.5	916.2
85°	52.2	50.3	45.3	36.7	26.2	16.7	10.8	18.8	935.0
90°	40.4	38.9	34.5	26.5	16.4	7.3	2.2	13.2	948.3
95°	34.1	32.8	29.3	22.8	14.2	5.7	1.9	11.2	959.5
100°	29.1	28.1	25.5	19.6	11.7	4.0	1.6	9.4	968.8
105°	25.0	24.3	21.6	16.3	9.2	2.6	1.4	7.7	976.5
110°	21.5	21.0	18.2	13.2	6.8	1.5	1.2	6.2	982.7
115°	18.5	17.9	15.1	10.5	4.8	1.3	1.2	4.9	987.6
120°	15.6	14.8	12.2	7.9	3.1	1.3	1.1	3.8	991.4
125°	12.7	11.9	9.4	5.6	1.7	1.1	1.0	2.7	994.1
130°	9.8	9.0	6.8	3.5	1.4	1.1	1.0	1.9	996.0
135°	7.0	6.3	4.4	1.9	1.4	1.1	1.0	1.2	997.3
140°	4.5	3.9	2.4	1.7	1.3	1.1	1.0	0.8	998.1
145°	2.3	2.1	1.9	1.6	1.4	1.2	1.2	0.5	998.6
150°	1.9	1.9	1.8	1.5	1.4	1.3	1.2	0.4	999.0
155°	1.8	1.7	1.6	1.5	1.4	1.3	1.3	0.3	999.3
160°	1.6	1.6	1.5	1.4	1.3	1.3	1.3	0.3	999.6
165°	1.4	1.4	1.4	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	1.3	1.3	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	21.1	22.8	21.4	23.1	23.4	21.0	22.7	21.4	23.0	23.4
	3H	22.9	24.4	23.2	24.8	25.1	22.4	24.0	22.8	24.3	24.7
	4H	23.7	25.2	24.1	25.5	25.9	23.0	24.4	23.4	24.8	25.2
	6H	24.4	25.8	24.9	26.2	26.6	23.4	24.7	23.8	25.1	25.5
	8H	24.8	26.1	25.2	26.5	26.9	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	21.7	23.2	22.1	23.5	23.9
	3H	23.8	25.0	24.2	25.4	25.8	23.3	24.6	23.8	25.0	25.4
	4H	24.8	25.9	25.2	26.3	26.7	24.0	25.2	24.5	25.6	26.0
	6H	25.7	26.7	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	27.8	28.2	24.8	25.6	25.3	26.1	26.6
8H	4H	25.1	26.0	25.5	26.5	26.9	24.4	25.4	24.9	25.8	26.3
	6H	26.2	26.9	26.7	27.4	27.9	25.1	25.9	25.6	26.3	26.8
	8H	26.7	27.4	27.2	27.9	28.4	25.3	26.0	25.8	26.5	27.0
	12H	27.2	27.8	27.8	28.3	28.9	25.5	26.1	26.0	26.6	27.1
12H	4H	25.1	26.0	25.6	26.4	26.9	24.5	25.4	25.0	25.8	26.3
	6H	26.3	26.9	26.8	27.4	27.9	25.3	25.9	25.8	26.4	26.9
	8H	26.9	27.4	27.4	27.9	28.5	25.5	26.1	26.0	26.6	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°		13676.5	13914.5	13969.6	14221.5	14800.8	15570.9	16628.4
50°		13017.4	13226.9	13241.3	13407.8	13902.7	14628.3	15793.6
55°		12394.4	12578.8	12539.3	12638.8	13006.2	13644.9	14867.0
60°		11814.7	11963.6	11851.0	11873.2	12118.0	12652.2	13875.7
65°		11316.4	11400.0	11222.2	11125.8	11234.7	11669.3	12878.0
70°		10827.5	10836.3	10614.2	10326.2	10302.5	10581.2	11755.6
75°		10285.4	10211.5	9998.0	9516.2	9251.6	9365.1	10448.7
80°		9677.9	9520.7	9290.1	8690.9	8051.5	7797.1	8656.5
85°		9208.1	9011.1	8668.2	7960.4	6932.6	5974.5	6243.2

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Luminance values in cd/m²

γ 65°

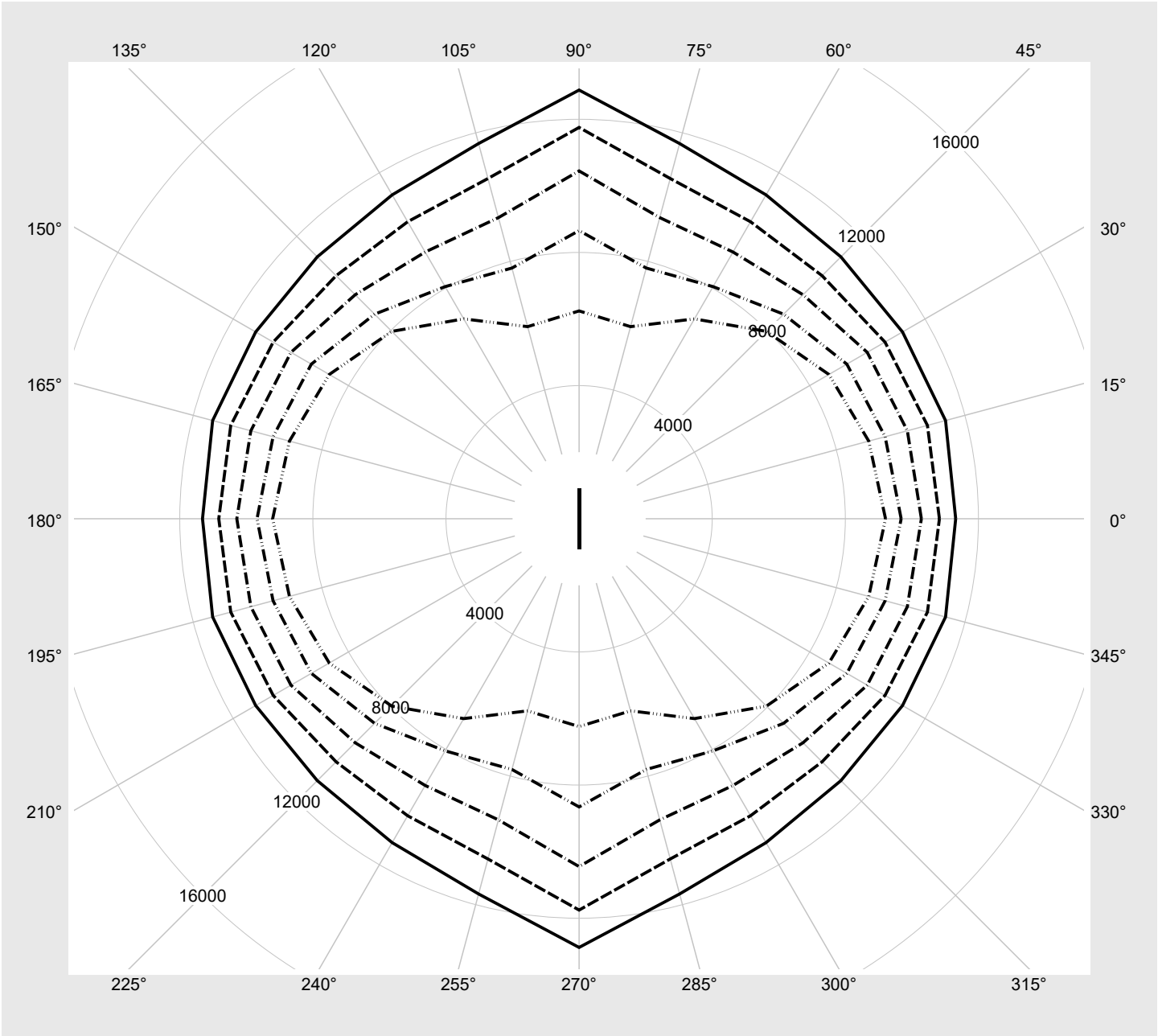
γ 70°

γ 75°

γ 80°

γ 85°

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Family Monsun® 11	Order number: 51FE10DP480S EAN: 4069025242396	LP number 59015_9
Dimming levels table		environmental temperature: 25°C
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	8000	41.0
95	241	252	7608	39.0
90	228	250	7215	37.0
85	214	248	6788	34.8
80	201	245	6392	32.8
75	188	243	5991	30.7
70	175	240	5589	28.7
65	162	238	5185	26.7
60	150	235	4810	24.8
55	137	231	4401	22.8
50	124	228	3990	20.7
45	112	224	3611	18.8
40	99	219	3196	16.8
35	87	215	2811	14.9
30	74	209	2390	12.8
25	62	202	2001	10.9
20	50	194	1609	8.9
15	38	184	1214	6.9
10	25	169	787	4.7
5	13	145	389	2.5
3	8	127	222	1.6