

Photometric test report

Family
Monsun® 11

Order number: **51FE10DP440M**
EAN: **4069025268570**

LP number
58939_227

serial
documentation
29.01.2026

siteco



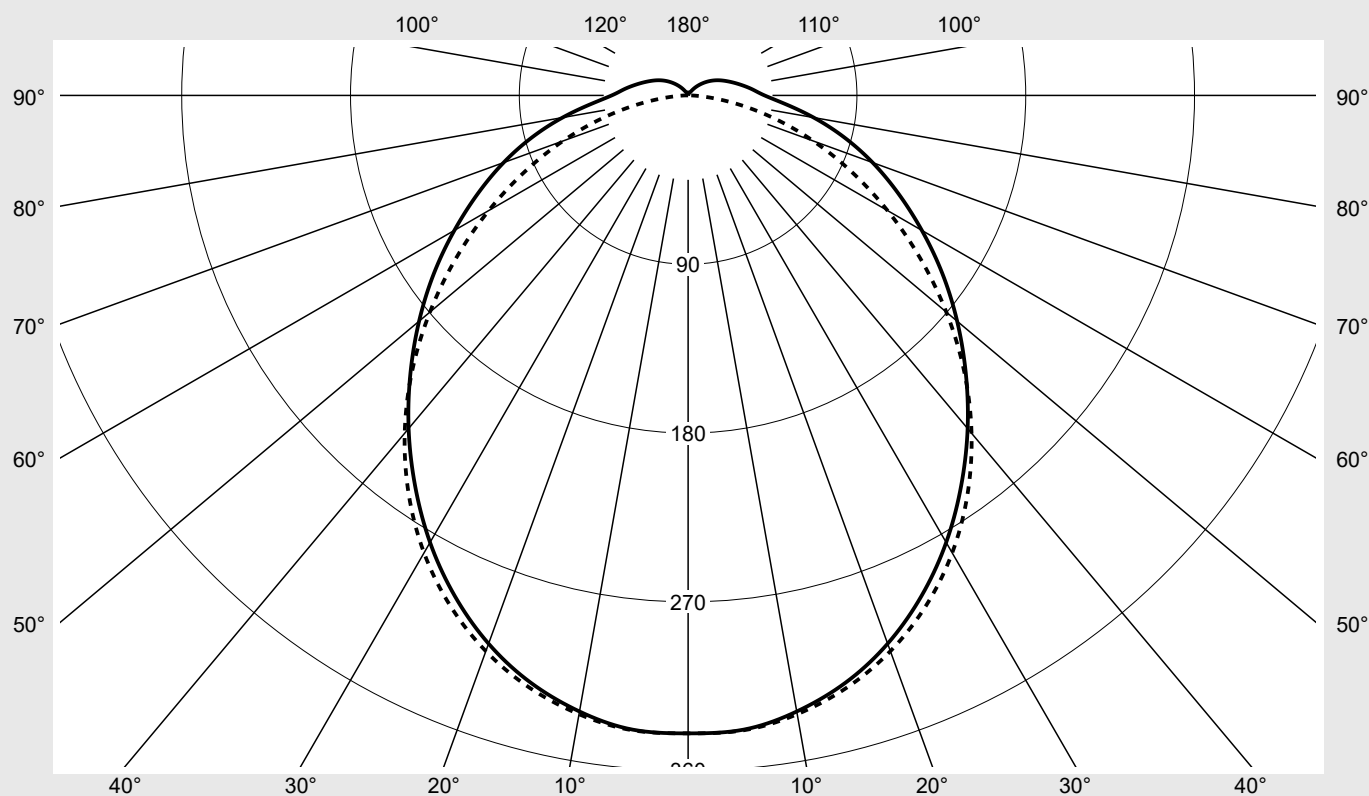
Version prismatic diffuser, opal, PMMA, wide distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI
Rated values Net luminous flux = 4200 lm
Power consumption = 21.8 W
Luminous efficacy = 192.7 lm/W

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	18.8	20.5	19.2	20.8	21.1	18.8	20.5	19.1	20.8	21.1
	3H	20.5	22.1	20.9	22.4	22.8	20.2	21.7	20.5	22.0	22.4
	4H	21.4	22.8	21.8	23.2	23.5	20.7	22.2	21.1	22.5	22.9
	6H	22.1	23.5	22.5	23.8	24.2	21.1	22.4	21.5	22.8	23.2
	8H	22.5	23.7	22.9	24.1	24.5	21.2	22.5	21.6	22.8	23.2
	12H	22.8	24.0	23.2	24.4	24.8	21.2	22.5	21.7	22.8	23.3
4H	2H	19.5	21.0	19.9	21.3	21.7	19.5	20.9	19.9	21.3	21.7
	3H	21.4	22.7	21.9	23.1	23.5	21.1	22.3	21.5	22.7	23.1
	4H	22.4	23.5	22.8	23.9	24.4	21.7	22.8	22.1	23.2	23.7
	6H	23.3	24.3	23.8	24.7	25.2	22.2	23.2	22.6	23.6	24.1
	8H	23.7	24.6	24.2	25.1	25.6	22.3	23.3	22.8	23.7	24.2
	12H	24.2	25.0	24.6	25.4	25.9	22.4	23.3	22.9	23.7	24.2
8H	4H	22.7	23.6	23.2	24.1	24.6	22.1	23.0	22.6	23.5	23.9
	6H	23.8	24.6	24.3	25.0	25.5	22.7	23.5	23.2	24.0	24.5
	8H	24.3	25.0	24.8	25.5	26.0	23.0	23.6	23.4	24.1	24.6
	12H	24.9	25.5	25.4	26.0	26.5	23.1	23.7	23.6	24.2	24.7
12H	4H	22.8	23.6	23.2	24.0	24.5	22.2	23.0	22.7	23.5	24.0
	6H	23.9	24.6	24.4	25.1	25.6	22.9	23.6	23.4	24.0	24.6
	8H	24.5	25.1	25.0	25.6	26.1	23.2	23.7	23.7	24.2	24.8

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	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°		7242.0	7286.9	7340.2	7493.7	7817.1	8250.1	8822.4
50°		6868.6	6894.0	6945.6	7051.5	7318.2	7729.3	8356.4
55°		6513.1	6520.6	6560.6	6612.3	6818.4	7177.7	7838.5
60°		6161.7	6156.5	6167.2	6186.8	6322.7	6619.4	7286.0
65°		5852.8	5838.7	5789.3	5752.6	5833.4	6056.7	6707.2
70°		5587.6	5556.0	5411.9	5309.6	5319.1	5464.0	6085.5
75°		5311.1	5260.9	5059.1	4853.9	4733.5	4782.3	5346.4
80°		5018.0	4934.7	4732.4	4367.6	4063.4	3928.2	4372.1
85°		4804.1	4702.4	4482.5	4025.1	3421.5	2931.7	3053.4

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Luminance values in cd/m²

γ 65°

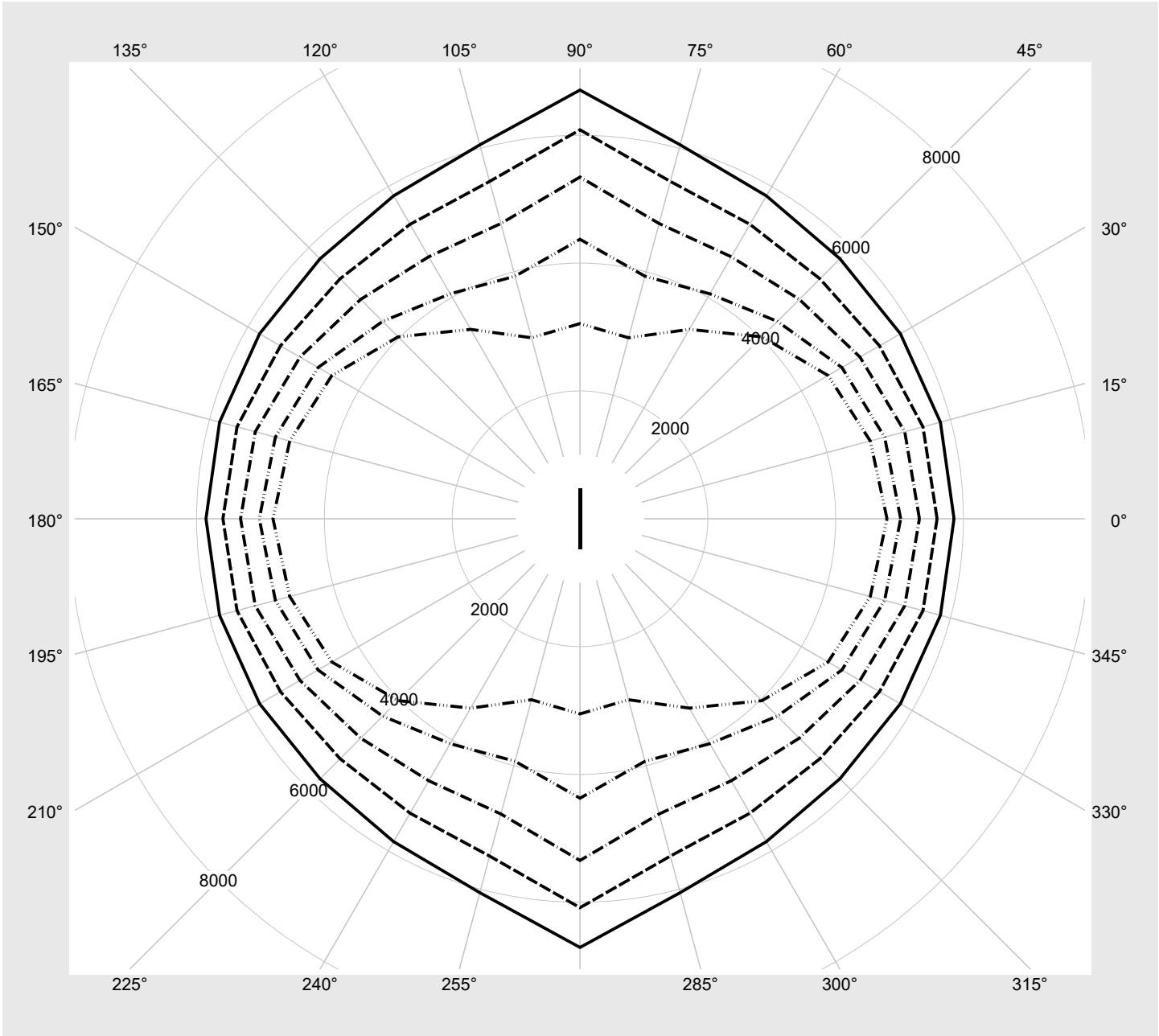
γ 70°

γ 75°

γ 80°

γ 85°

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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	4200	21.9
95	241	252	3994	20.8
90	228	250	3787	19.7
85	215	248	3578	18.5
80	201	245	3353	17.5
75	188	243	3142	16.4
70	176	241	2947	15.4
65	163	238	2734	14.4
60	150	235	2521	13.4
55	137	231	2307	12.3
50	124	228	2094	11.3
45	112	224	1894	10.4
40	99	219	1676	9.4
35	87	215	1474	8.4
30	74	209	1254	7.4
25	62	202	1050	6.5
20	50	194	844	5.6
15	38	184	638	4.7
10	25	169	413	3.6
5	13	145	204	2.5
4	11	139	169	2.3