

Photometric test report

Family
Monsun® 11

Order number: 51FP10DP660L
EAN: 4069025268778

LP number
58939_190



Version prismatic diffuser, opal, PMMA, wide distribution
Lamps LED 6500 K | CRI ≥ 80
Controlgear ECG-DALI
Rated values Net luminous flux = 5970 lm
Power consumption = 34.1 W
Luminous efficacy = 175.1 lm/W

serial
documentation
20.02.2025

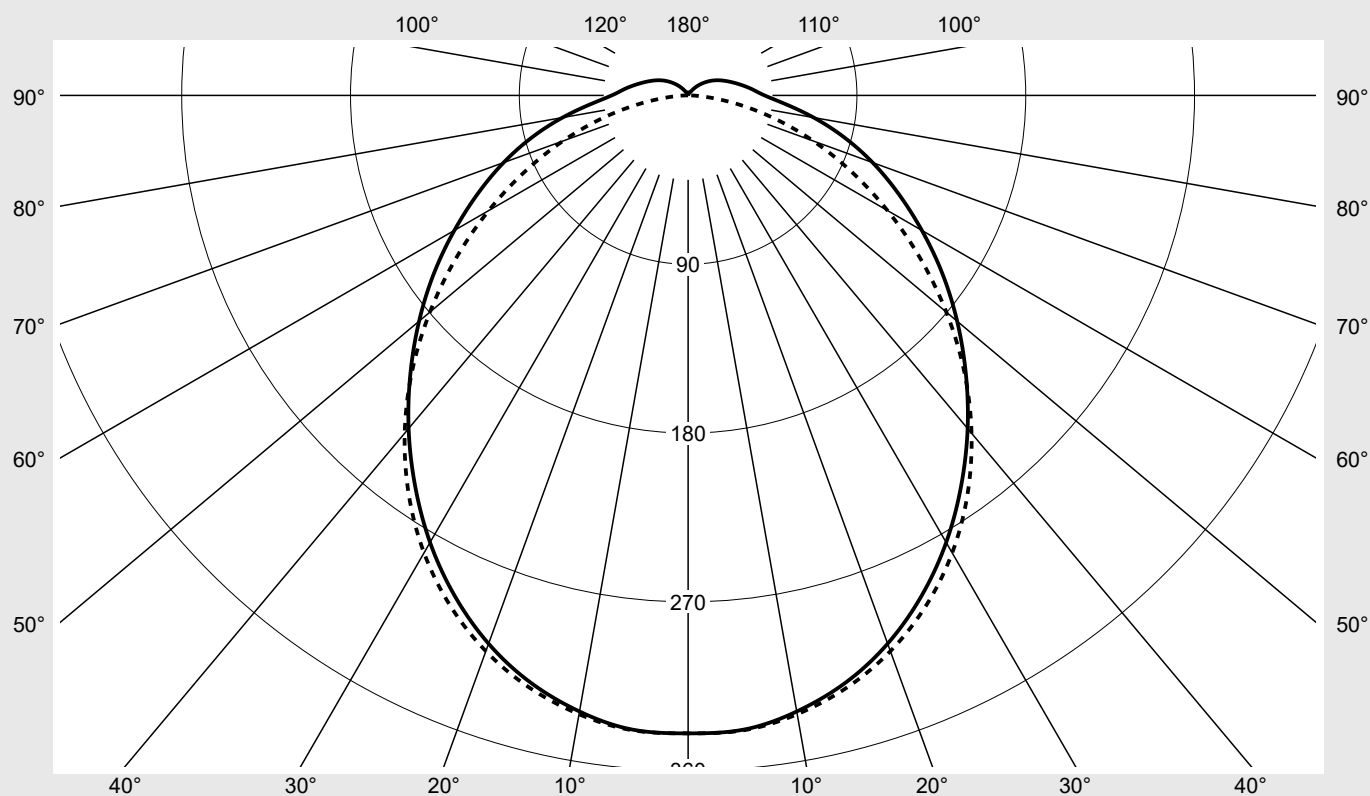
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Luminous intensity in cd/klm

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	20.0	21.7	20.4	22.0	22.4	20.0	21.7	20.4	22.0	22.3
	3H	21.8	23.3	22.1	23.6	24.0	21.4	22.9	21.8	23.3	23.6
	4H	22.6	24.0	23.0	24.4	24.8	21.9	23.4	22.3	23.7	24.1
	6H	23.3	24.7	23.7	25.0	25.4	22.3	23.6	22.7	24.0	24.4
	8H	23.7	25.0	24.1	25.3	25.7	22.4	23.7	22.8	24.1	24.5
	12H	24.0	25.2	24.5	25.6	26.0	22.5	23.7	22.9	24.1	24.5
4H	2H	20.7	22.2	21.1	22.5	22.9	20.7	22.2	21.1	22.5	22.9
	3H	22.7	23.9	23.1	24.3	24.7	22.3	23.5	22.7	23.9	24.3
	4H	23.6	24.8	24.1	25.2	25.6	22.9	24.1	23.4	24.5	24.9
	6H	24.5	25.5	25.0	26.0	26.4	23.4	24.4	23.9	24.8	25.3
	8H	25.0	25.9	25.4	26.3	26.8	23.6	24.5	24.0	24.9	25.4
	12H	25.4	26.2	25.9	26.6	27.1	23.7	24.5	24.1	24.9	25.4
8H	4H	23.9	24.9	24.4	25.3	25.8	23.3	24.3	23.8	24.7	25.2
	6H	25.0	25.8	25.5	26.3	26.8	24.0	24.7	24.4	25.2	25.7
	8H	25.6	26.3	26.1	26.7	27.2	24.2	24.9	24.7	25.3	25.9
	12H	26.1	26.7	26.6	27.2	27.7	24.3	24.9	24.8	25.4	25.9
12H	4H	24.0	24.8	24.5	25.3	25.8	23.4	24.2	23.9	24.7	25.2
	6H	25.1	25.8	25.6	26.3	26.8	24.1	24.8	24.6	25.3	25.8
	8H	25.7	26.3	26.2	26.8	27.3	24.4	25.0	24.9	25.5	26.0

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°		10294.0	10357.8	10433.6	10651.7	11111.5	11726.9	12540.4
50°		9763.2	9799.4	9872.6	10023.2	10402.3	10986.7	11878.1
55°		9257.9	9268.6	9325.4	9398.9	9691.9	10202.6	11141.9
60°		8758.4	8751.1	8766.3	8794.1	8987.2	9409.0	10356.5
65°		8319.4	8299.3	8229.1	8176.9	8291.7	8609.1	9533.9
70°		7942.4	7897.5	7692.6	7547.3	7560.7	7766.8	8650.1
75°		7549.3	7478.0	7191.1	6899.5	6728.3	6797.7	7599.5
80°		7132.7	7014.3	6726.8	6208.3	5775.9	5583.7	6214.6
85°		6828.7	6684.2	6371.6	5721.5	4863.4	4167.2	4340.2

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Luminance values in cd/m²

γ 65°

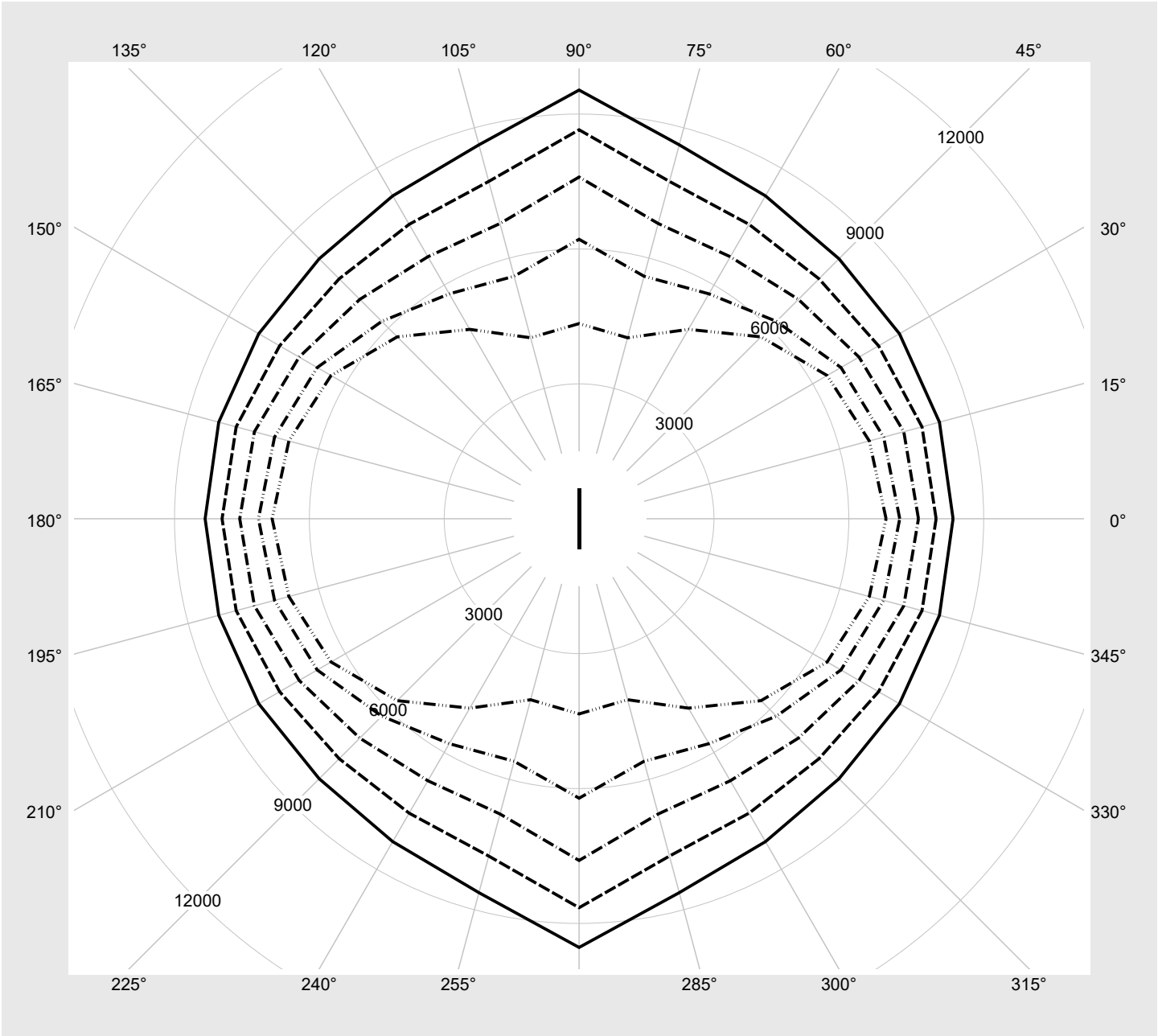
γ 70°

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	5970	34.1
95	241	252	5682	32.4
90	227	250	5371	30.6
85	214	248	5079	28.9
80	201	245	4786	27.4
75	187	243	4468	25.7
70	174	240	4169	24.1
65	161	237	3869	22.5
60	149	234	3592	21.0
55	136	231	3288	19.3
50	123	227	2982	17.5
45	111	224	2698	15.9
40	98	219	2388	14.2
35	86	214	2101	12.5
30	73	208	1790	10.8
25	61	202	1498	9.2
20	49	194	1204	7.6
15	36	182	884	6.0
10	24	168	586	4.5
5	12	142	287	3.2
3	7	122	162	2.9