

Photometric test report

Family
Monsun® 11

Order number: **51FG20DL440L**
EAN: **4069025705389**

LP number
59394_87



Version prismatic diffuser, opal, polycarbonate, wide distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI
Rated values Net luminous flux = 4500 lm
Power consumption = 26.7 W
Luminous efficacy = 168.5 lm/W

serial
documentation
20.02.2026

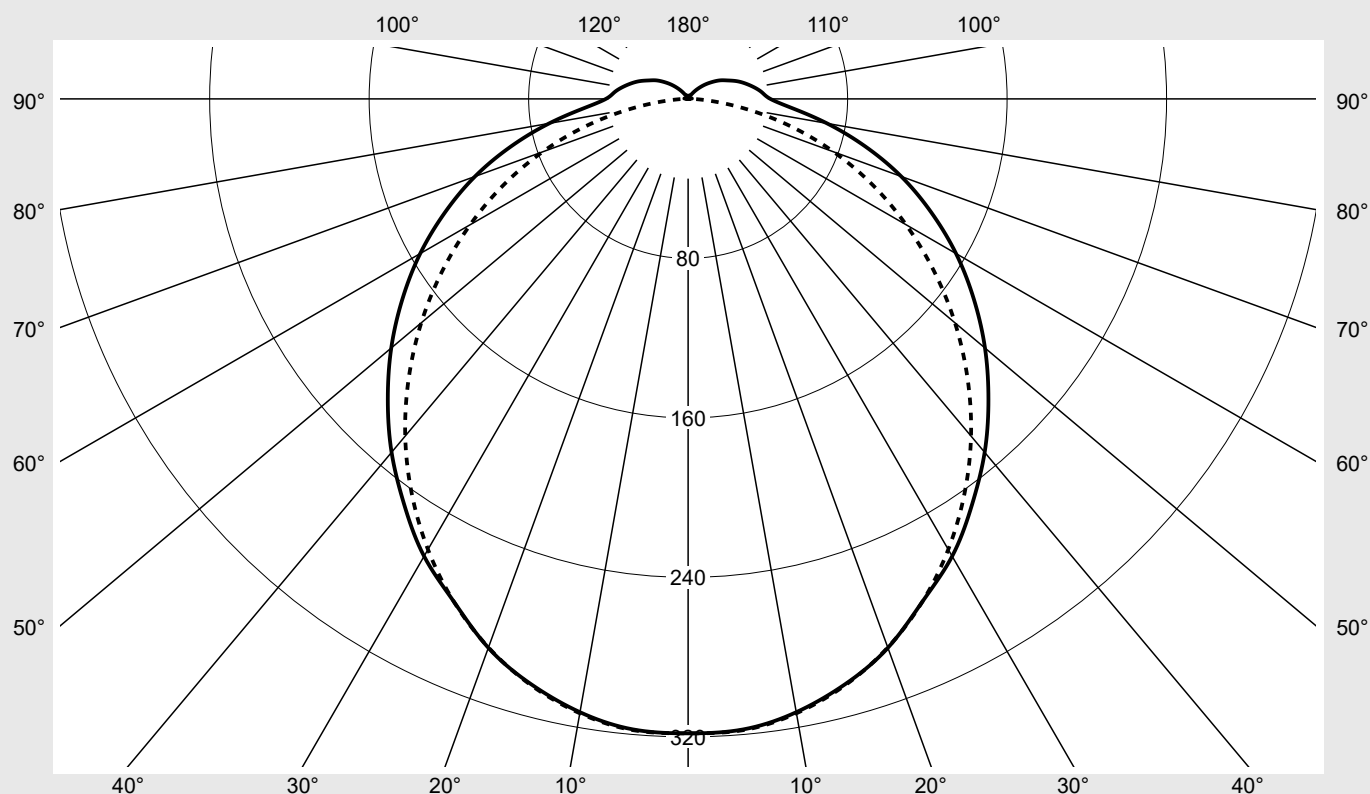
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Luminous intensity in cd/klm

C180-0

C270-90

Imax: 318 cd/klm



Classifications

DIN 5040 A 4 1
CIE N1=45 N2=75 N3=93
N4=94 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 93.7%
 ϕ_o 6.3%

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°	318.2	318.2	318.2	318.2	318.2	318.2	318.2	1.9	1.9
5°	317.5	317.5	315.1	315.9	316.6	317.2	317.8	15.1	17.0
10°	312.4	312.6	310.3	310.8	311.5	312.2	312.9	29.7	46.7
15°	304.0	304.5	302.1	302.5	303.1	303.6	304.5	43.0	89.7
20°	293.0	293.3	291.0	291.0	291.4	291.9	292.8	54.7	144.5
25°	278.2	280.0	277.5	276.9	276.9	277.3	278.2	64.3	208.8
30°	264.9	265.0	262.4	260.7	260.0	260.0	261.0	71.8	280.6
35°	248.3	248.5	245.7	243.1	241.2	240.6	241.7	76.7	357.3
40°	231.4	230.9	227.8	224.4	221.2	219.7	220.8	79.3	436.6
45°	213.0	212.5	208.9	204.3	200.0	197.3	198.2	79.4	515.9
50°	194.4	193.4	189.5	184.3	178.4	174.4	174.7	77.3	593.2
55°	174.9	174.0	169.9	163.6	156.5	151.3	150.6	73.2	666.4
60°	155.2	153.6	149.3	142.2	134.7	128.1	126.2	67.1	733.5
65°	134.5	133.3	127.9	120.6	112.6	105.3	102.1	59.5	793.0
70°	113.8	111.2	106.2	98.6	90.1	81.8	77.7	50.1	843.1
75°	91.9	90.6	84.2	76.2	67.3	58.7	53.5	39.7	882.8
80°	70.8	68.8	62.9	54.4	45.2	36.1	30.1	28.6	911.4
85°	52.2	50.3	44.7	36.3	26.8	17.6	11.2	18.9	930.2
90°	41.3	39.2	33.7	25.7	16.7	7.7	2.0	13.2	943.5
95°	37.2	35.5	30.5	23.1	14.2	5.7	1.8	11.7	955.1
100°	33.6	31.9	27.2	20.0	11.9	4.1	1.6	10.1	965.3
105°	29.8	28.2	23.6	17.2	9.5	2.6	1.4	8.5	973.8
110°	26.0	24.2	20.2	14.2	7.2	1.5	1.2	7.0	980.8
115°	21.9	20.5	16.9	11.4	5.1	1.4	1.2	5.5	986.3
120°	18.6	17.0	13.7	8.7	3.2	1.3	1.1	4.3	990.6
125°	14.8	13.4	10.4	6.0	1.7	1.3	1.1	3.1	993.6
130°	11.3	10.0	7.4	3.7	1.5	1.3	1.1	2.1	995.7
135°	7.8	6.8	4.7	1.9	1.5	1.3	1.0	1.3	997.1
140°	4.8	4.0	2.4	1.7	1.5	1.2	1.0	0.8	997.9
145°	2.3	2.1	1.9	1.7	1.5	1.3	1.2	0.5	998.4
150°	2.0	2.0	1.9	1.7	1.5	1.4	1.3	0.5	998.9
155°	1.9	1.9	1.8	1.7	1.5	1.4	1.3	0.4	999.3
160°	1.8	1.8	1.8	1.6	1.5	1.5	1.4	0.3	999.6
165°	1.7	1.7	1.6	1.5	1.5	1.5	1.4	0.2	999.8
170°	1.5	1.6	1.5	1.5	1.5	1.5	1.4	0.1	999.9
175°	1.5	1.5	1.5	1.5	1.5	1.5	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	20.1	21.8	20.4	22.1	22.4	19.8	21.5	20.1	21.8	22.1
	3H	21.9	23.5	22.3	23.8	24.2	21.3	22.9	21.7	23.3	23.6
	4H	22.7	24.2	23.1	24.6	24.9	22.0	23.4	22.3	23.8	24.2
	6H	23.5	24.8	23.9	25.2	25.6	22.4	23.8	22.8	24.1	24.5
	8H	23.8	25.1	24.2	25.5	25.9	22.5	23.8	22.9	24.2	24.6
	12H	24.1	25.3	24.5	25.7	26.1	22.6	23.8	23.0	24.2	24.6
4H	2H	20.8	22.3	21.2	22.6	23.0	20.6	22.1	21.0	22.4	22.8
	3H	22.8	24.1	23.2	24.5	24.9	22.3	23.6	22.8	24.0	24.4
	4H	23.8	25.0	24.2	25.4	25.8	23.1	24.2	23.5	24.6	25.1
	6H	24.7	25.7	25.1	26.1	26.6	23.6	24.6	24.0	25.0	25.5
	8H	25.1	26.0	25.5	26.5	26.9	23.8	24.7	24.2	25.1	25.6
	12H	25.5	26.3	25.9	26.7	27.2	23.9	24.7	24.3	25.2	25.7
8H	4H	24.1	25.1	24.6	25.5	26.0	23.5	24.4	24.0	24.9	25.3
	6H	25.2	26.0	25.7	26.4	26.9	24.2	25.0	24.7	25.4	25.9
	8H	25.7	26.4	26.2	26.9	27.4	24.4	25.1	24.9	25.6	26.1
	12H	26.2	26.8	26.7	27.3	27.8	24.6	25.2	25.1	25.7	26.2
12H	4H	24.2	25.0	24.7	25.5	26.0	23.6	24.4	24.1	24.9	25.4
	6H	25.3	26.0	25.8	26.5	27.0	24.3	25.0	24.8	25.5	26.0
	8H	25.8	26.4	26.3	26.9	27.5	24.6	25.2	25.1	25.7	26.2

Luminance table		Max. for $\gamma \geq 65^\circ$			Photometric dimensions in mm:	L = 1299 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°	9664.2	9670.9	9663.2	9732.7	9925.0	10303.6	10984.4	
50°	9351.9	9336.5	9325.0	9378.4	9521.9	9882.7	10620.3	
55°	9030.7	9020.1	9002.0	9013.4	9109.6	9448.2	10215.5	
60°	8715.1	8671.1	8637.7	8606.1	8696.4	8984.1	9779.1	
65°	8350.3	8323.8	8225.3	8172.0	8232.6	8495.7	9301.7	
70°	7963.9	7839.2	7745.1	7653.0	7654.2	7843.8	8660.7	
75°	7438.4	7392.8	7156.7	6980.1	6885.8	6993.4	7759.4	
80°	6849.6	6720.1	6461.9	6134.2	5878.0	5742.2	6324.5	
85°	6339.5	6190.6	5859.0	5383.1	4816.4	4238.3	4314.6	

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Luminance values in cd/m²

γ 65°

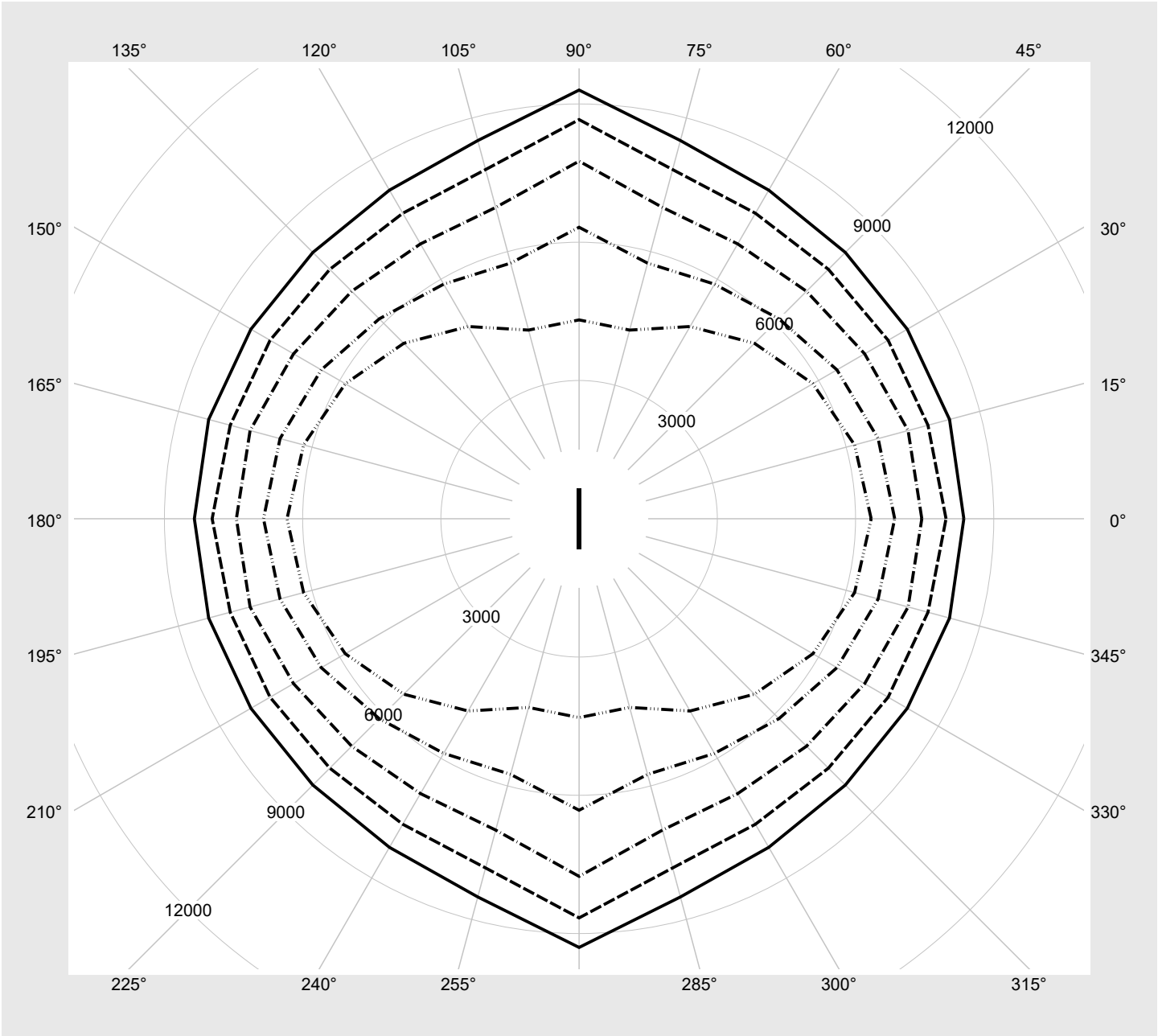
γ 70°

γ 75°

γ 80°

γ 85°

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Family Monsun® 11	Order number: 51FG20DL440L EAN: 4069025705389	LP number 59394_87
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	4500	26.7
95	240	252	4268	25.3
90	227	250	4050	24.0
85	214	248	3830	22.7
80	200	245	3592	21.2
75	187	243	3370	19.9
70	174	240	3146	18.5
65	161	237	2920	17.2
60	148	234	2693	15.7
55	136	231	2481	14.6
50	123	227	2251	13.3
45	110	223	2018	12.0
40	98	219	1802	10.8
35	85	214	1566	9.4
30	73	208	1347	8.3
25	61	202	1127	7.1
20	49	194	905	5.8
15	37	183	680	4.6
10	25	169	455	3.3
5	13	145	228	1.9
3	8	127	132	1.3