

Photometric test report

Family
Monsun® 11



Order number: 51FP10DP460L
EAN: 4069025268686

Version

Lamps

Controlgear

Rated values

prismatic diffuser, opal, PMMA, wide distribution

LED 4000 K | CRI ≥ 80

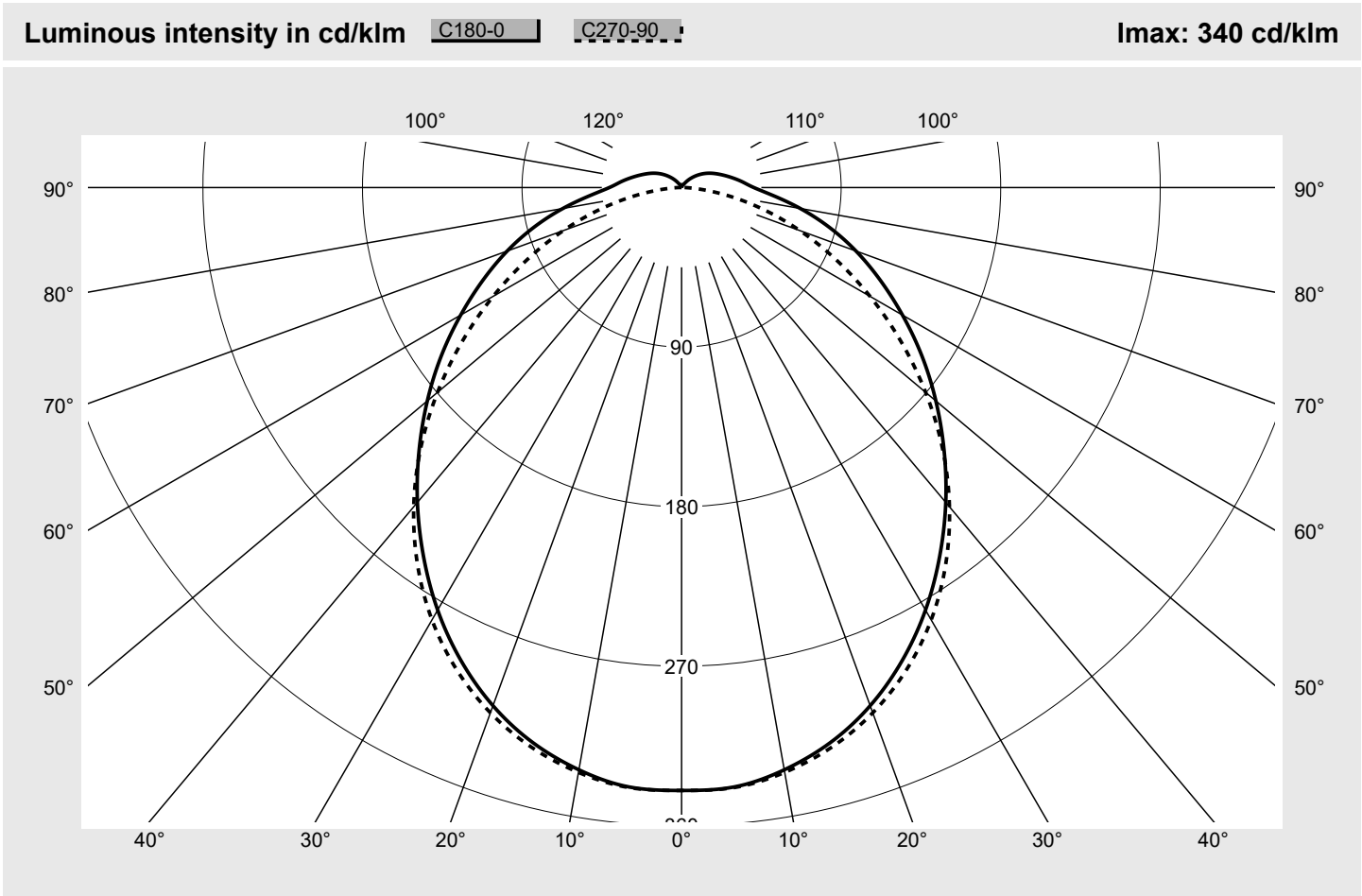
ECG-DALI

Net luminous flux = 6110 lm
Power consumption = 31.8 W
Luminous efficacy = 192.1 lm/W

LP number
58939_155

serial
documentation
30.09.2024

siteco



Classifications		Luminaire light output ratios	
DIN 5040	A 4 1	η_{LB}	100.0%
CIE	N1=47 N2=77 N3=93	ϕ_u	94.2%
	N4=94 N5=100	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	20.1	21.8	20.5	22.1	22.4	20.1	21.8	20.4	22.1	22.4
	3H	21.8	23.4	22.2	23.7	24.1	21.5	23.0	21.8	23.3	23.7
	4H	22.7	24.1	23.1	24.5	24.8	22.0	23.5	22.4	23.8	24.2
	6H	23.4	24.8	23.8	25.1	25.5	22.4	23.7	22.8	24.1	24.5
	8H	23.8	25.0	24.2	25.4	25.8	22.5	23.8	22.9	24.1	24.5
	12H	24.1	25.3	24.5	25.7	26.1	22.5	23.8	23.0	24.1	24.6
4H	2H	20.8	22.3	21.2	22.6	23.0	20.8	22.2	21.2	22.6	23.0
	3H	22.7	24.0	23.2	24.4	24.8	22.4	23.6	22.8	24.0	24.4
	4H	23.7	24.8	24.1	25.2	25.7	23.0	24.1	23.4	24.5	25.0
	6H	24.6	25.6	25.1	26.0	26.5	23.5	24.5	23.9	24.9	25.4
	8H	25.0	25.9	25.5	26.4	26.9	23.6	24.6	24.1	25.0	25.5
	12H	25.5	26.3	25.9	26.7	27.2	23.7	24.6	24.2	25.0	25.5
8H	4H	24.0	24.9	24.5	25.4	25.9	23.4	24.3	23.9	24.8	25.2
	6H	25.1	25.9	25.6	26.3	26.8	24.0	24.8	24.5	25.3	25.8
	8H	25.6	26.3	26.1	26.8	27.3	24.3	24.9	24.7	25.4	25.9
	12H	26.2	26.8	26.7	27.3	27.8	24.4	25.0	24.9	25.5	26.0
12H	4H	24.1	24.9	24.5	25.4	25.8	23.5	24.3	24.0	24.8	25.3
	6H	25.2	25.9	25.7	26.4	26.9	24.2	24.9	24.7	25.3	25.9
	8H	25.8	26.4	26.3	26.9	27.4	24.5	25.0	25.0	25.5	26.1

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°	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°	10535.4	10600.7	10678.2	10901.5	11372.1	12001.9	12834.5
	50°	9992.1	10029.2	10104.1	10258.3	10646.2	11244.3	12156.6
	55°	9475.0	9486.0	9544.1	9619.3	9919.1	10441.8	11403.2
	60°	8963.8	8956.3	8971.9	9000.3	9198.0	9629.6	10599.3
	65°	8514.4	8494.0	8422.1	8368.7	8486.2	8811.0	9757.4
	70°	8128.6	8082.7	7873.0	7724.2	7738.0	7948.9	8853.0
	75°	7726.3	7653.4	7359.8	7061.3	6886.1	6957.1	7777.7
	80°	7300.0	7178.8	6884.6	6353.8	5911.3	5714.7	6360.4
	85°	6988.9	6840.9	6521.0	5855.6	4977.4	4264.9	4441.9

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Luminance values in cd/m²

γ 65°

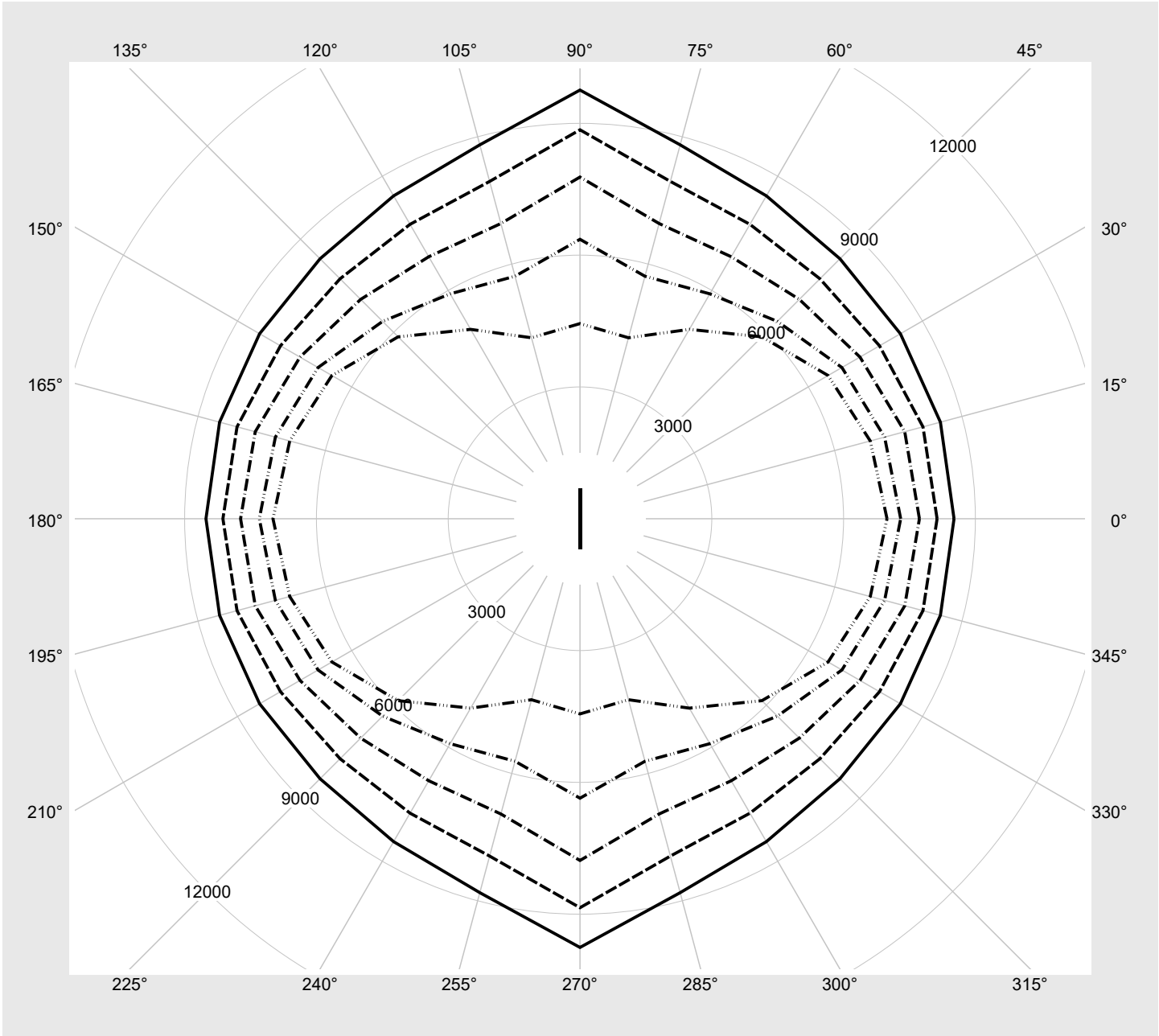
γ 70°

γ 75°

γ 80°

γ 85°

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Family Monsun® 11	Order number: 51FP10DP460L EAN: 4069025268686	LP number 58939_155
Dimming levels table environmental temperature: 25°C		

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	6110	31.8
95	241	252	5814	30.3
90	227	250	5494	28.7
85	214	248	5195	27.2
80	201	245	4895	25.8
75	188	243	4592	24.2
70	175	240	4287	22.7
65	162	238	3982	21.2
60	149	234	3673	19.6
55	136	231	3362	18.1
50	123	227	3050	16.4
45	111	224	2760	14.9
40	98	219	2443	13.3
35	86	214	2150	11.7
30	73	208	1830	10.1
25	61	202	1532	8.6
20	49	194	1231	7.2
15	37	183	927	5.8
10	25	169	621	4.4
5	13	145	313	3.2
3	8	127	184	2.9