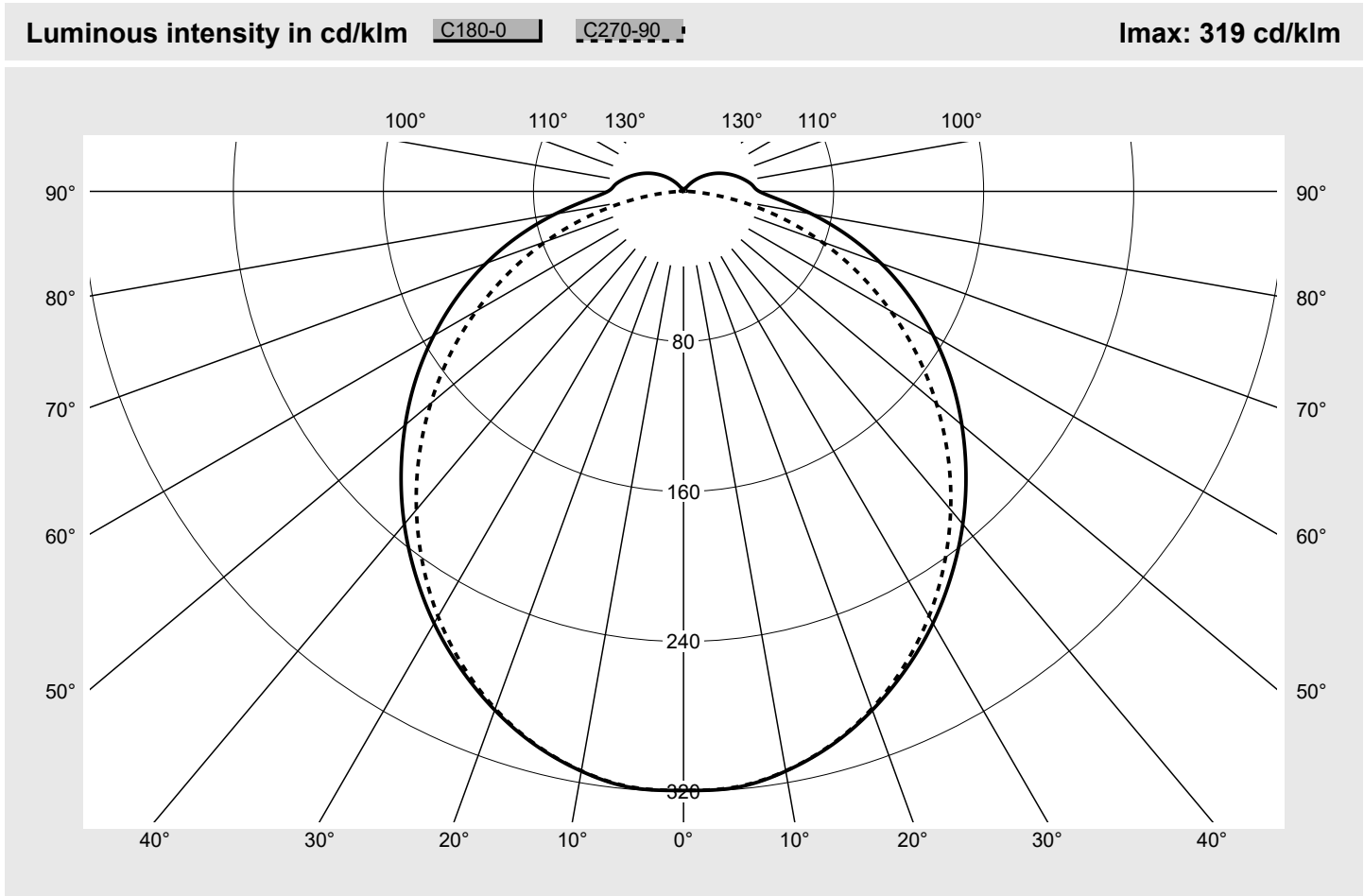


Photometric test report

Family Monsun® 11	Order number: 51FG20DP440L EAN: 4069025268631	LP number 59060_163
	Version	prismatic diffuser, opal, polycarbonate, wide distribution
	Lamps	LED 4000 K CRI ≥ 80
	Controlgear	ECG-DALI
	Rated values	Net luminous flux = 4840 lm Power consumption = 28.1 W Luminous efficacy = 172.2 lm/W
		serial documentation 10.10.2024
		siteco



Classifications		Luminaire light output ratios	
DIN 5040	A 4 1	η_{LB}	100.0%
CIE	N1=45 N2=75 N3=93	ϕ_u	93.7%
	N4=94 N5=100	ϕ_o	6.3%

Measurement conditions
DIN EN 13032 and DIN 5032

Photometric test report

Family Monsun® 11	Order number: 51FG20DP440L EAN: 4069025268631	LP number 59060_163
Table of values for luminous intensities		Maximum luminous intensity
		siteco

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°	319.4	319.4	319.4	319.4	319.4	319.4	319.4	1.9	1.9
5°	319.1	317.8	316.0	317.2	318.6	318.6	318.8	15.2	17.1
10°	313.9	312.8	311.0	312.1	313.5	313.5	313.7	29.8	46.9
15°	305.6	304.7	302.7	303.7	305.0	304.9	305.2	43.2	90.1
20°	294.3	293.5	291.4	292.2	293.3	293.1	293.5	54.9	145.0
25°	280.9	280.2	277.7	277.9	278.8	278.5	278.8	64.6	209.6
30°	265.9	265.3	262.4	261.6	261.9	261.4	261.7	72.0	281.6
35°	249.2	248.5	245.6	243.7	242.9	242.2	242.4	77.0	358.5
40°	231.6	230.8	227.5	224.6	222.7	221.4	221.6	79.5	438.0
45°	212.9	211.8	208.5	204.2	201.3	199.0	199.4	79.5	517.5
50°	193.7	192.3	188.8	183.7	179.4	175.9	176.0	77.3	594.9
55°	174.1	172.4	168.8	162.7	157.2	152.3	152.1	73.1	667.9
60°	153.8	152.1	148.1	141.4	134.9	128.8	127.5	66.9	734.9
65°	133.1	131.4	127.0	119.9	112.8	105.5	102.8	59.2	794.0
70°	112.0	110.4	105.0	98.0	90.2	82.2	78.2	49.9	843.9
75°	90.5	88.8	83.0	75.7	67.3	58.8	53.6	39.3	883.2
80°	69.4	67.4	62.0	54.0	45.3	36.4	30.4	28.3	911.6
85°	51.2	49.1	43.8	35.9	26.7	17.7	11.3	18.6	930.2
90°	40.3	38.3	33.0	25.3	16.4	7.5	1.9	12.9	943.1
95°	36.9	35.1	30.2	22.8	14.1	5.6	1.6	11.6	954.7
100°	33.7	31.9	27.1	20.1	11.9	4.0	1.5	10.1	964.8
105°	30.1	28.5	23.8	17.3	9.5	2.6	1.3	8.6	973.4
110°	26.5	24.6	20.5	14.4	7.3	1.5	1.2	7.1	980.4
115°	22.8	21.1	17.3	11.6	5.2	1.3	1.2	5.7	986.1
120°	19.1	17.5	14.1	8.9	3.4	1.3	1.1	4.4	990.5
125°	15.4	13.9	10.8	6.2	1.7	1.2	1.0	3.2	993.6
130°	11.8	10.5	7.7	3.9	1.4	1.2	1.0	2.2	995.8
135°	8.3	7.2	5.0	2.0	1.4	1.2	1.1	1.4	997.2
140°	5.1	4.3	2.5	1.6	1.3	1.1	1.0	0.8	998.0
145°	2.4	2.0	1.8	1.6	1.4	1.2	1.2	0.5	998.5
150°	1.9	1.9	1.8	1.5	1.4	1.3	1.2	0.4	999.0
155°	1.8	1.8	1.6	1.5	1.4	1.3	1.3	0.4	999.3
160°	1.6	1.6	1.5	1.5	1.4	1.4	1.3	0.3	999.6
165°	1.5	1.5	1.4	1.4	1.4	1.4	1.3	0.2	999.8
170°	1.4	1.4	1.4	1.4	1.4	1.4	1.3	0.1	999.9
175°	1.3	1.3	1.3	1.4	1.4	1.4	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

Photometric test report

Family Monsun® 11	Order number: 51FG20DP440L EAN: 4069025268631	LP number 59060_163
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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	19.6	21.3	19.9	21.6	21.9	19.4	21.1	19.7	21.4	21.7
	3H	21.4	23.0	21.8	23.3	23.6	20.9	22.5	21.3	22.9	23.2
	4H	22.2	23.7	22.6	24.0	24.4	21.6	23.0	21.9	23.4	23.8
	6H	22.9	24.3	23.3	24.7	25.1	22.0	23.4	22.4	23.7	24.1
	8H	23.3	24.6	23.7	24.9	25.3	22.1	23.4	22.5	23.8	24.2
	12H	23.6	24.8	24.0	25.2	25.6	22.2	23.4	22.6	23.8	24.2
4H	2H	20.3	21.8	20.7	22.1	22.5	20.2	21.7	20.6	22.0	22.4
	3H	22.3	23.6	22.7	24.0	24.4	21.9	23.2	22.3	23.6	24.0
	4H	23.3	24.4	23.7	24.8	25.3	22.7	23.8	23.1	24.2	24.6
	6H	24.2	25.2	24.6	25.6	26.0	23.2	24.2	23.6	24.6	25.1
	8H	24.5	25.5	25.0	25.9	26.4	23.4	24.3	23.8	24.7	25.2
	12H	24.9	25.7	25.4	26.2	26.7	23.5	24.3	23.9	24.8	25.3
8H	4H	23.6	24.6	24.1	25.0	25.5	23.1	24.0	23.6	24.5	24.9
	6H	24.7	25.4	25.1	25.9	26.4	23.8	24.6	24.3	25.0	25.5
	8H	25.2	25.9	25.6	26.3	26.8	24.0	24.7	24.5	25.2	25.7
	12H	25.7	26.3	26.2	26.7	27.3	24.2	24.8	24.7	25.3	25.8
12H	4H	23.7	24.5	24.2	25.0	25.5	23.2	24.0	23.7	24.5	25.0
	6H	24.8	25.4	25.2	25.9	26.4	23.9	24.6	24.4	25.1	25.6
	8H	25.3	25.9	25.8	26.4	26.9	24.2	24.8	24.7	25.3	25.8

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°	15°	30°	45°	60°	75°	90°					
		180°	165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°		270°				
Luminance in cd/m²													
45°		8488.2	8476.5	8486.0	8564.0	8796.1	9157.3	9736.1					
50°		8188.8	8164.8	8177.7	8234.1	8437.3	8785.7	9430.0					
55°		7898.1	7859.3	7871.1	7894.6	8067.0	8389.0	9105.3					
60°		7587.3	7549.0	7545.8	7544.9	7683.3	7972.9	8723.2					
65°		7260.5	7219.9	7186.7	7164.1	7275.1	7517.4	8272.5					
70°		6888.8	6843.9	6748.2	6706.8	6768.7	6964.9	7717.2					
75°		6434.7	6377.4	6218.8	6122.3	6093.6	6207.7	6910.8					
80°		5905.0	5800.8	5622.1	5379.6	5214.3	5141.9	5707.3					
85°		5472.9	5326.4	5075.6	4709.1	4263.5	3810.3	3947.7					

Photometric test report

Family
Monsun® 11

Order number: 51FG20DP440L
EAN: 4069025268631

LP number
59060_163

Luminance values in cd/m²

γ 65°

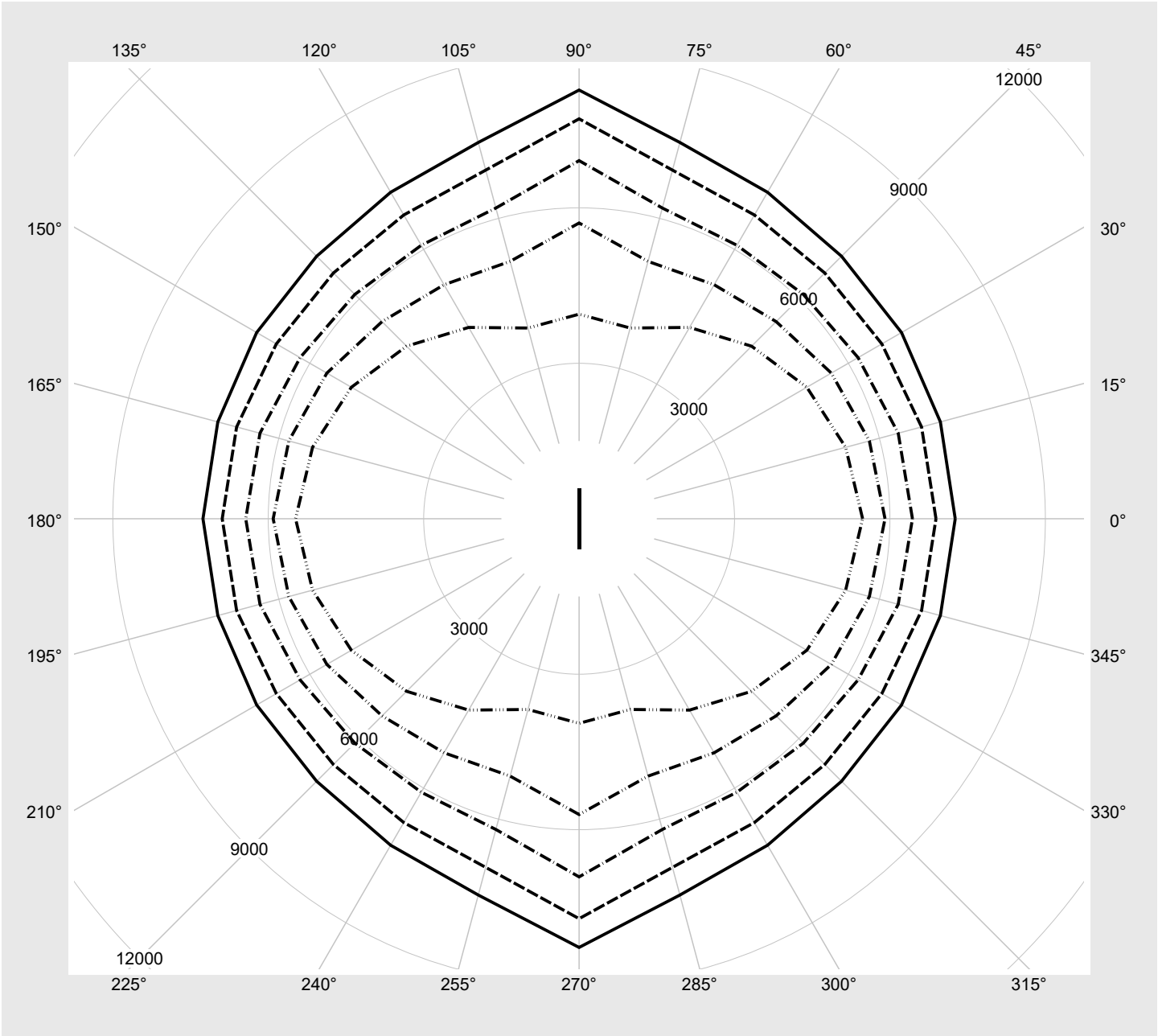
γ 70°

γ 75°

γ 80°

γ 85°

siteco



Photometric test report

Family Monsun® 11	Order number: 51FG20DP440L EAN: 4069025268631	LP number 59060_163
Dimming levels table		environmental temperature: 25°C
		siteco

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	4840	28.1
95	241	252	4604	26.9
90	227	250	4350	25.4
85	214	248	4111	24.1
80	201	245	3872	22.8
75	188	243	3632	21.5
70	175	240	3390	20.2
65	162	238	3145	18.7
60	149	234	2901	17.3
55	136	231	2655	15.9
50	124	228	2426	14.6
45	111	224	2177	13.2
40	99	219	1945	11.7
35	86	214	1695	10.4
30	74	209	1461	9.1
25	61	202	1205	7.7
20	49	194	967	6.5
15	37	183	728	5.3
10	25	169	486	4.1
5	13	145	244	3.1
3	9	132	163	2.9