

Photometric test report

Family
Monsun® 11



Order number: 51FP20DP460L007
EAN: 4069025268914

Version

Lamps

Controlgear

Rated values

prismatic diffuser, opal, polycarbonate, wide distribution

LED 4000 K | CRI ≥ 80

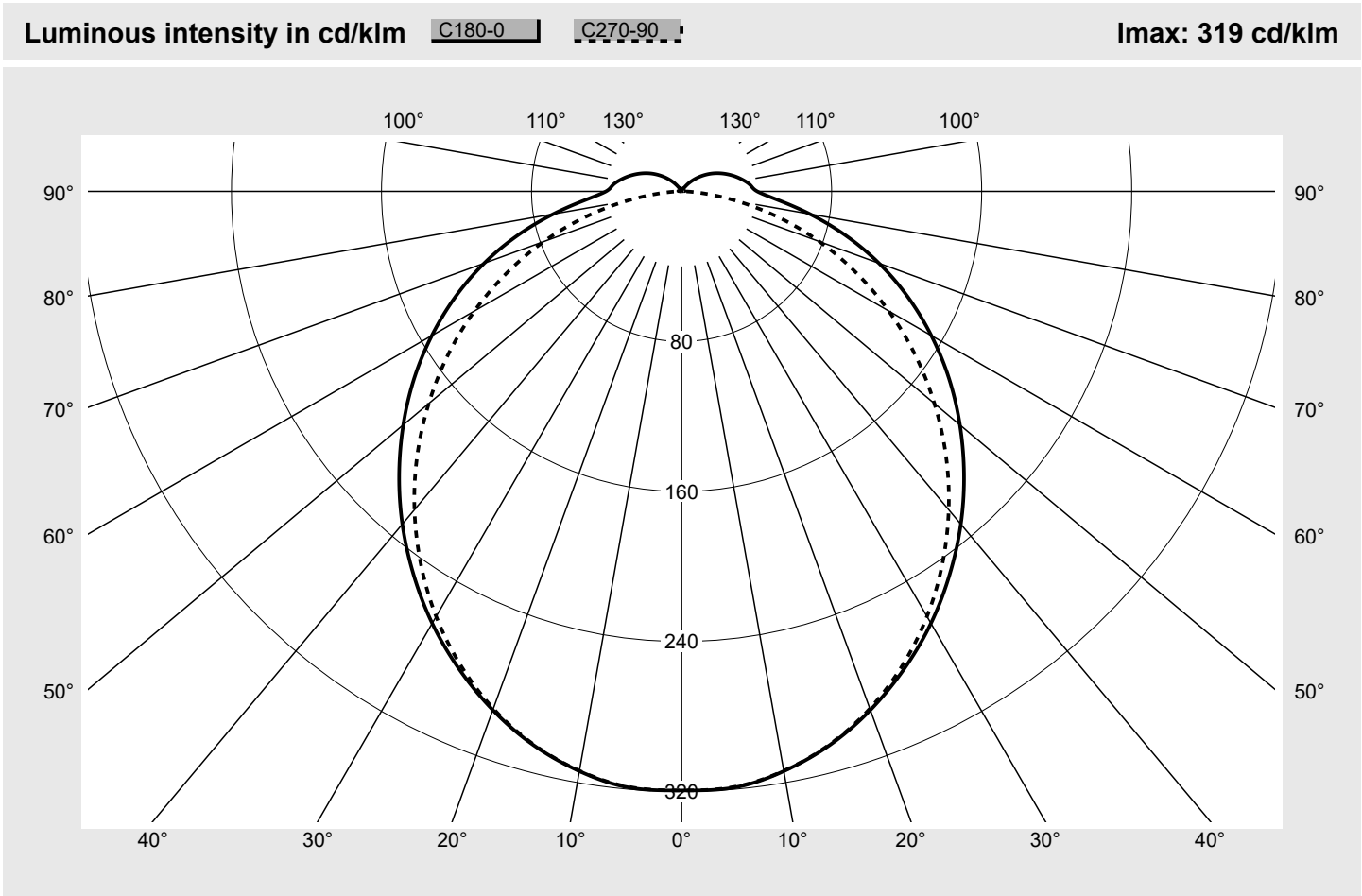
ECG-DALI

Net luminous flux = 5450 lm
Power consumption = 31.5 W
Luminous efficacy = 173 lm/W

LP number
59060_146

serial
documentation
30.09.2024

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: 51FP20DP460L007 EAN: 4069025268914	LP number 59060_146
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: 51FP20DP460L007 EAN: 4069025268914							LP number 59060_146	
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
Reflection factor of walls		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3
Reflection factor of floor		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	20.3	22.0	22.3	19.8	21.5	20.2	21.8
	3H	21.8	23.4	22.2	23.7	24.1	21.4	22.9	21.7	23.3
	4H	22.6	24.1	23.0	24.5	24.8	22.0	23.5	22.4	23.8
	6H	23.4	24.7	23.8	25.1	25.5	22.4	23.8	22.8	24.1
	8H	23.7	25.0	24.1	25.4	25.8	22.5	23.8	23.0	24.2
	12H	24.0	25.2	24.4	25.6	26.0	22.6	23.8	23.0	24.2
4H	2H	20.7	22.2	21.1	22.6	22.9	20.6	22.1	21.0	22.4
	3H	22.7	24.0	23.2	24.4	24.8	22.3	23.6	22.8	24.0
	4H	23.7	24.9	24.1	25.3	25.7	23.1	24.2	23.5	24.6
	6H	24.6	25.6	25.0	26.0	26.5	23.6	24.6	24.1	25.0
	8H	25.0	25.9	25.4	26.3	26.8	23.8	24.7	24.2	25.2
	12H	25.3	26.2	25.8	26.6	27.1	23.9	24.7	24.4	25.2
8H	4H	24.0	25.0	24.5	25.4	25.9	23.5	24.4	24.0	24.9
	6H	25.1	25.9	25.6	26.3	26.8	24.2	25.0	24.7	25.4
	8H	25.6	26.3	26.1	26.7	27.3	24.4	25.1	24.9	25.6
	12H	26.1	26.7	26.6	27.2	27.7	24.6	25.2	25.1	25.7
12H	4H	24.1	24.9	24.6	25.4	25.9	23.6	24.4	24.1	24.9
	6H	25.2	25.9	25.7	26.3	26.9	24.3	25.0	24.8	25.5
	8H	25.7	26.3	26.2	26.8	27.3	24.6	25.2	25.1	25.7

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° 50° 55° 60°	γ	9558.0	9544.8	9555.5	9643.3	9904.7	10311.5	10963.1
		9220.8	9193.8	9208.3	9271.9	9500.7	9893.0	10618.5
		8893.5	8849.9	8863.1	8889.6	9083.7	9446.3	10252.9
		8543.5	8500.4	8496.8	8495.9	8651.6	8977.7	9822.6
65° 70° 75° 80° 85°	γ	8175.6	8129.8	8092.5	8067.0	8192.0	8464.9	9315.1
		7757.0	7706.4	7598.7	7552.1	7621.8	7842.7	8689.8
		7245.7	7181.1	7002.5	6893.9	6861.6	6990.0	7781.7
		6649.3	6531.9	6330.6	6057.6	5871.5	5790.0	6426.7
		6162.6	5997.7	5715.3	5302.6	4800.8	4290.6	4445.2

Photometric test report

Family
Monsun® 11

Order number: 51FP20DP460L007
EAN: 4069025268914

LP number
59060_146

Luminance values in cd/m²

γ 65°

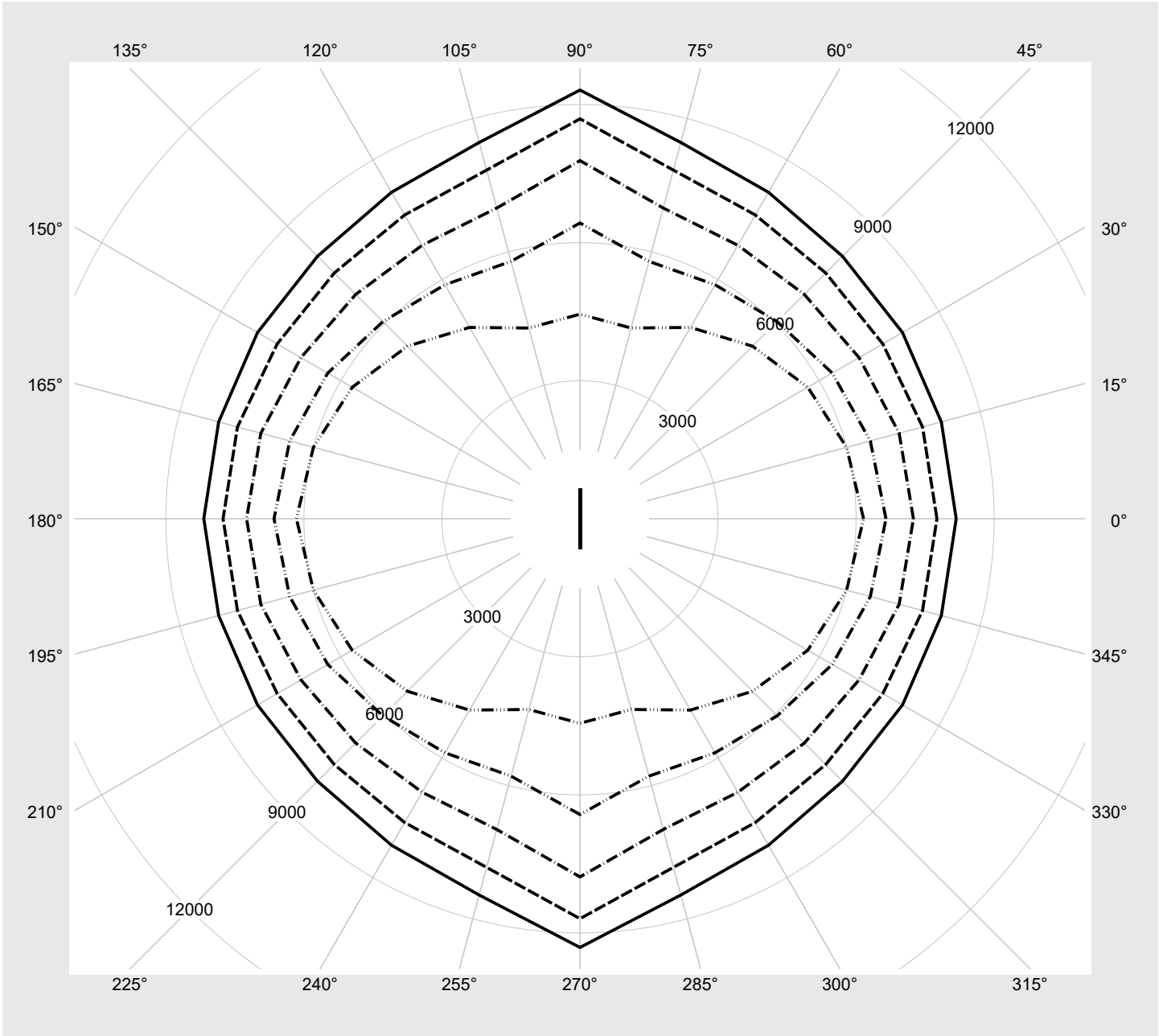
γ 70°

γ 75°

γ 80°

γ 85°

siteco



Photometric test report

Family Monsun® 11	Order number: 51FP20DP460L007 EAN: 4069025268914	LP number 59060_146
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	5450	31.5
95	241	252	5186	30.0
90	227	250	4900	28.4
85	214	248	4634	27.0
80	201	245	4366	25.5
75	188	243	4095	24.0
70	175	240	3824	22.5
65	162	238	3550	21.0
60	149	234	3275	19.4
55	136	231	2998	17.9
50	123	227	2720	16.3
45	111	224	2461	14.8
40	98	219	2179	13.2
35	86	214	1917	11.6
30	73	208	1632	10.0
25	61	202	1366	8.5
20	49	194	1097	7.2
15	37	183	826	5.8
10	25	169	554	4.4
5	13	145	279	3.2
3	8	127	164	2.9