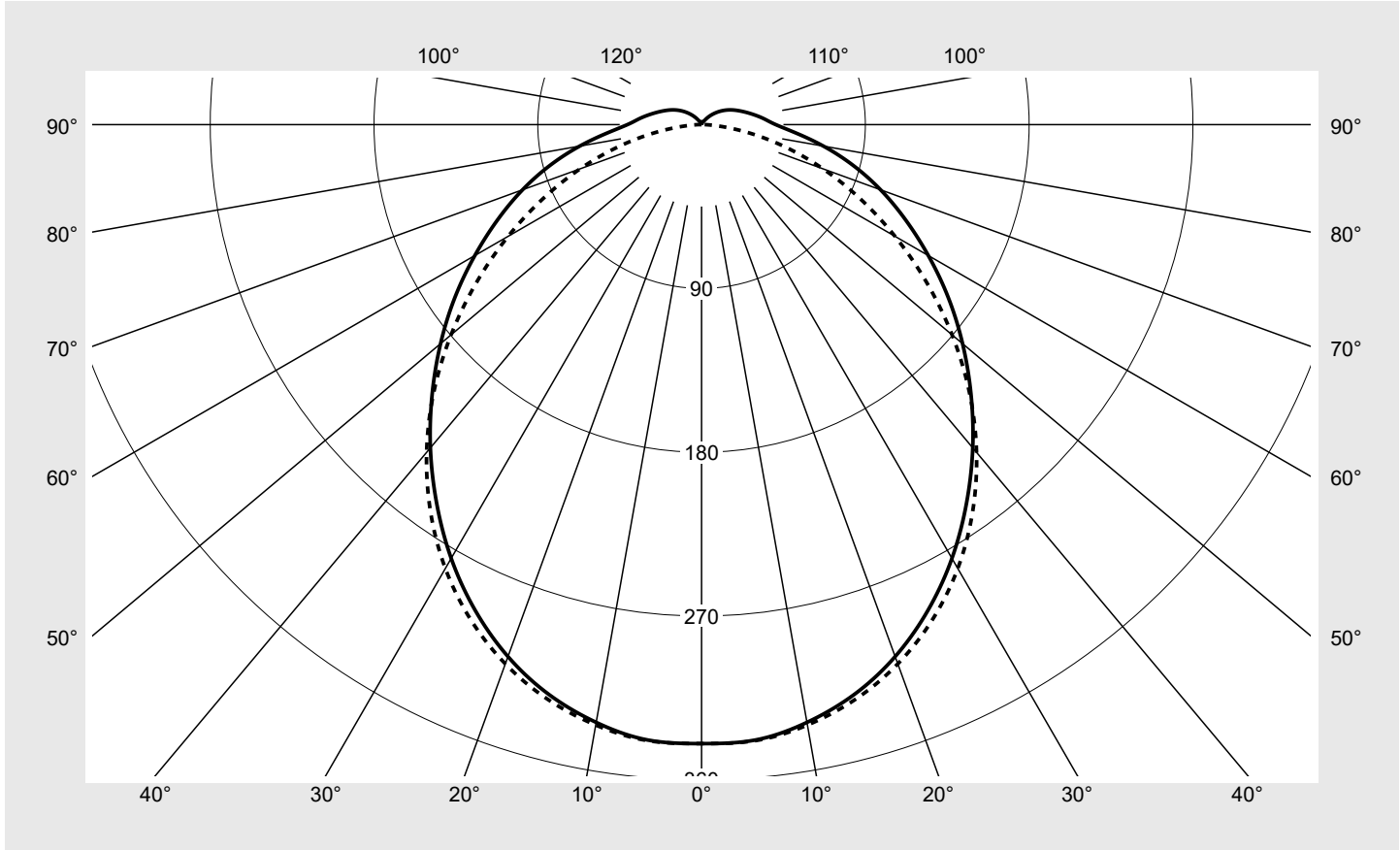


Photometric test report

Family Monsun® 12	Order number: 51FE107P440J EAN: 4058352538999	LP number 58939_71
	Version prismatic diffuser, opal, PMMA, wide distribution	serial documentation 20.07.2021
	Lamps LED 4000 K CRI ≥ 80	
	Controlgear ECG	
	Rated values Net luminous flux = 4200 lm Power consumption = 24.2 W Luminous efficacy = 173.6 lm/W	
		

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

Photometric test report

Family Monsun® 12	Order number: 51FE107P440J EAN: 4058352538999	LP number 58939_71
Table of values for luminous intensities		Maximum luminous intensity
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C-planes γ	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-zone	Total Phi-zone
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			
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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Family Monsun® 12	Order number: 51FE107P440J EAN: 4058352538999	LP number 58939_71
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UGR-Table	Standard room	siteco
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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	18.8	20.5	19.2	20.8	21.1	18.8	20.5	19.1	20.8	21.1
	3H	20.5	22.1	20.9	22.4	22.8	20.2	21.7	20.5	22.0	22.4
	4H	21.4	22.8	21.8	23.2	23.5	20.7	22.2	21.1	22.5	22.9
	6H	22.1	23.5	22.5	23.8	24.2	21.1	22.4	21.5	22.8	23.2
	8H	22.5	23.7	22.9	24.1	24.5	21.2	22.5	21.6	22.8	23.2
	12H	22.8	24.0	23.2	24.4	24.8	21.2	22.5	21.7	22.8	23.3
4H	2H	19.5	21.0	19.9	21.3	21.7	19.5	20.9	19.9	21.3	21.7
	3H	21.4	22.7	21.9	23.1	23.5	21.1	22.3	21.5	22.7	23.1
	4H	22.4	23.5	22.8	23.9	24.4	21.7	22.8	22.1	23.2	23.7
	6H	23.3	24.3	23.8	24.7	25.2	22.2	23.2	22.6	23.6	24.1
	8H	23.7	24.6	24.2	25.1	25.6	22.3	23.3	22.8	23.7	24.2
	12H	24.2	25.0	24.6	25.4	25.9	22.4	23.3	22.9	23.7	24.2
8H	4H	22.7	23.6	23.2	24.1	24.6	22.1	23.0	22.6	23.5	23.9
	6H	23.8	24.6	24.3	25.0	25.5	22.7	23.5	23.2	24.0	24.5
	8H	24.3	25.0	24.8	25.5	26.0	23.0	23.6	23.4	24.1	24.6
	12H	24.9	25.5	25.4	26.0	26.5	23.1	23.7	23.6	24.2	24.7
12H	4H	22.8	23.6	23.2	24.0	24.5	22.2	23.0	22.7	23.5	24.0
	6H	23.9	24.6	24.4	25.1	25.6	22.9	23.6	23.4	24.0	24.6
	8H	24.5	25.1	25.0	25.6	26.1	23.2	23.7	23.7	24.2	24.8

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1590	H(C0) = 21	H(C180) = 21
			B = 87	H(C90) = 21	H(C270) = 21

C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		7242.0	7286.9	7340.2	7493.7	7817.1	8250.1	8822.4	
50°		6868.6	6894.0	6945.6	7051.5	7318.2	7729.3	8356.4	
55°		6513.1	6520.6	6560.6	6612.3	6818.4	7177.7	7838.5	
60°		6161.7	6156.5	6167.2	6186.8	6322.7	6619.4	7286.0	
65°		5852.8	5838.7	5789.3	5752.6	5833.4	6056.7	6707.2	
70°		5587.6	5556.0	5411.9	5309.6	5319.1	5464.0	6085.5	
75°		5311.1	5260.9	5059.1	4853.9	4733.5	4782.3	5346.4	
80°		5018.0	4934.7	4732.4	4367.6	4063.4	3928.2	4372.1	
85°		4804.1	4702.4	4482.5	4025.1	3421.5	2931.7	3053.4	

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Luminance values in cd/m²

γ 65°	γ 70°	γ 75°	γ 80°	γ 85°
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