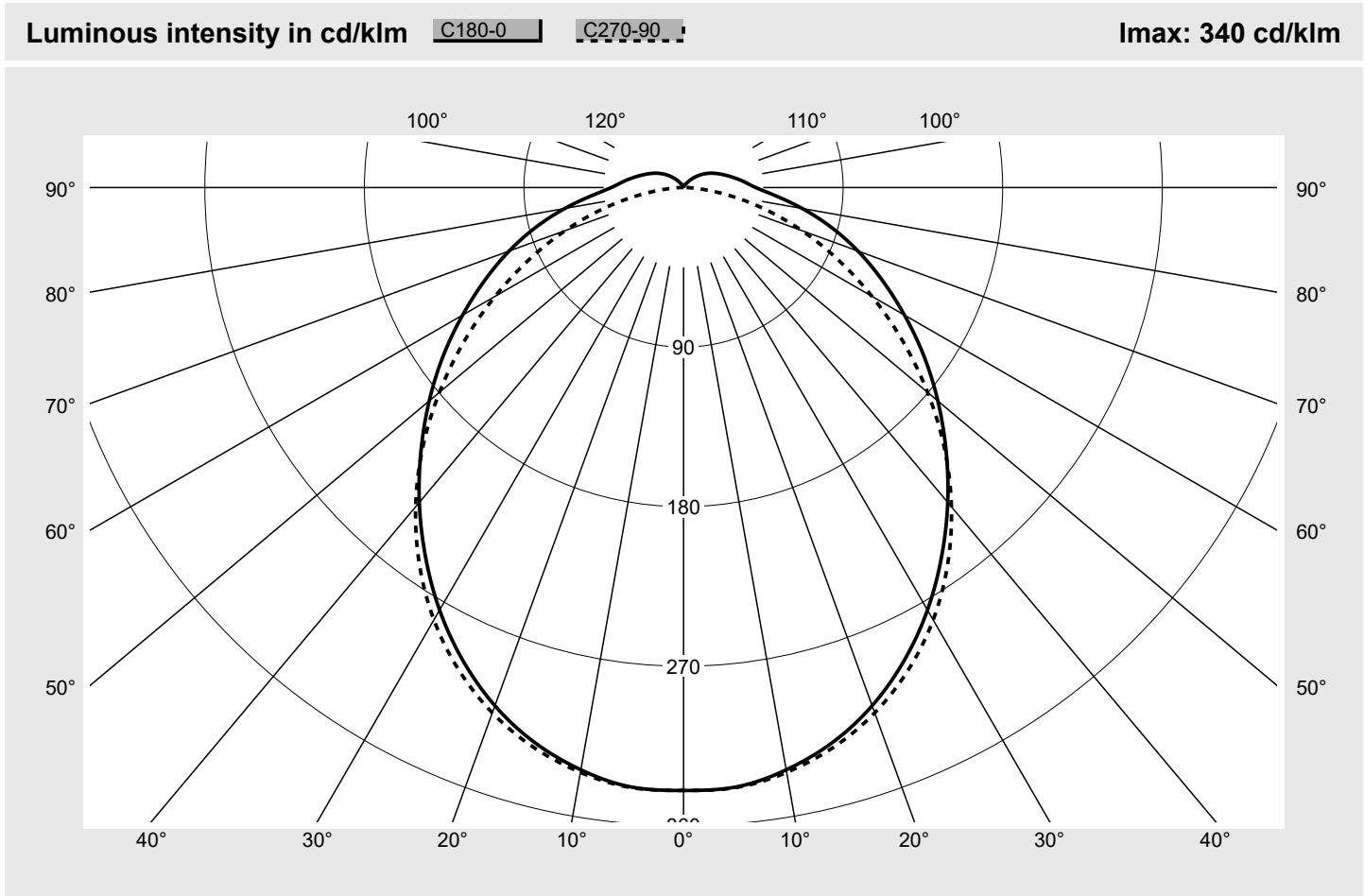


Photometric test report

Family Monsun® 21	Order number: 51FB107P437C3G EAN: 4069025177766	LP number 58939_132
	Version prismatic diffuser, opal, PMMA, extremely wide distribution	serial documentation 08.05.2024
	Lamps LED 4000 K CRI ≥ 80	
	Controlgear ECG	
	Setting emergency light operation: 3 h	
	Rated values Net luminous flux = 910 lm Power consumption = 7.1 W Luminous efficacy = 128.2 lm/W	





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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Family Monsun® 21	Order number: 51FB107P437C3G EAN: 4069025177766	LP number 58939_132
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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Family Monsun® 21	Order number: 51FB107P437C3G EAN: 4069025177766	LP number 58939_132
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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	13.5	15.2	13.8	15.5	15.8	13.5	15.2	13.8	15.5	15.8
	3H	15.2	16.8	15.6	17.1	17.5	14.9	16.4	15.2	16.7	17.1
	4H	16.1	17.5	16.4	17.9	18.2	15.4	16.8	15.8	17.2	17.6
	6H	16.8	18.1	17.2	18.5	18.9	15.7	17.1	16.1	17.5	17.9
	8H	17.2	18.4	17.6	18.8	19.2	15.9	17.1	16.3	17.5	17.9
	12H	17.5	18.7	17.9	19.1	19.5	15.9	17.1	16.4	17.5	17.9
4H	2H	14.2	15.6	14.6	16.0	16.4	14.2	15.6	14.6	16.0	16.3
	3H	16.1	17.4	16.5	17.8	18.2	15.7	17.0	16.2	17.4	17.8
	4H	17.1	18.2	17.5	18.6	19.1	16.4	17.5	16.8	17.9	18.4
	6H	18.0	19.0	18.5	19.4	19.9	16.9	17.9	17.3	18.3	18.7
	8H	18.4	19.3	18.9	19.8	20.2	17.0	17.9	17.5	18.4	18.9
	12H	18.8	19.6	19.3	20.1	20.6	17.1	17.9	17.6	18.4	18.9
8H	4H	17.4	18.3	17.9	18.8	19.2	16.8	17.7	17.3	18.2	18.6
	6H	18.5	19.3	19.0	19.7	20.2	17.4	18.2	17.9	18.7	19.1
	8H	19.0	19.7	19.5	20.2	20.7	17.6	18.3	18.1	18.8	19.3
	12H	19.6	20.2	20.1	20.7	21.2	17.8	18.4	18.3	18.9	19.4
12H	4H	17.5	18.3	17.9	18.7	19.2	16.9	17.7	17.4	18.2	18.7
	6H	18.6	19.3	19.1	19.7	20.3	17.6	18.2	18.1	18.7	19.2
	8H	19.2	19.8	19.7	20.3	20.8	17.8	18.4	18.4	18.9	19.5

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	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°	1569.1	1578.8	1590.4	1623.6	1693.7	1787.5	1911.5	
50°	1488.2	1493.7	1504.9	1527.8	1585.6	1674.7	1810.6	
55°	1411.2	1412.8	1421.5	1432.7	1477.3	1555.2	1698.3	
60°	1335.0	1333.9	1336.2	1340.5	1369.9	1434.2	1578.6	
65°	1268.1	1265.1	1254.4	1246.4	1263.9	1312.3	1453.2	
70°	1210.6	1203.8	1172.6	1150.4	1152.5	1183.9	1318.5	
75°	1150.7	1139.9	1096.1	1051.7	1025.6	1036.2	1158.4	
80°	1087.2	1069.2	1025.4	946.3	880.4	851.1	947.3	
85°	1040.9	1018.9	971.2	872.1	741.3	635.2	661.6	

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Family
Monsun® 21

Order number: 51FB107P437C3G
EAN: 4069025177766

LP number
58939_132

Luminance values in cd/m²

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

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