
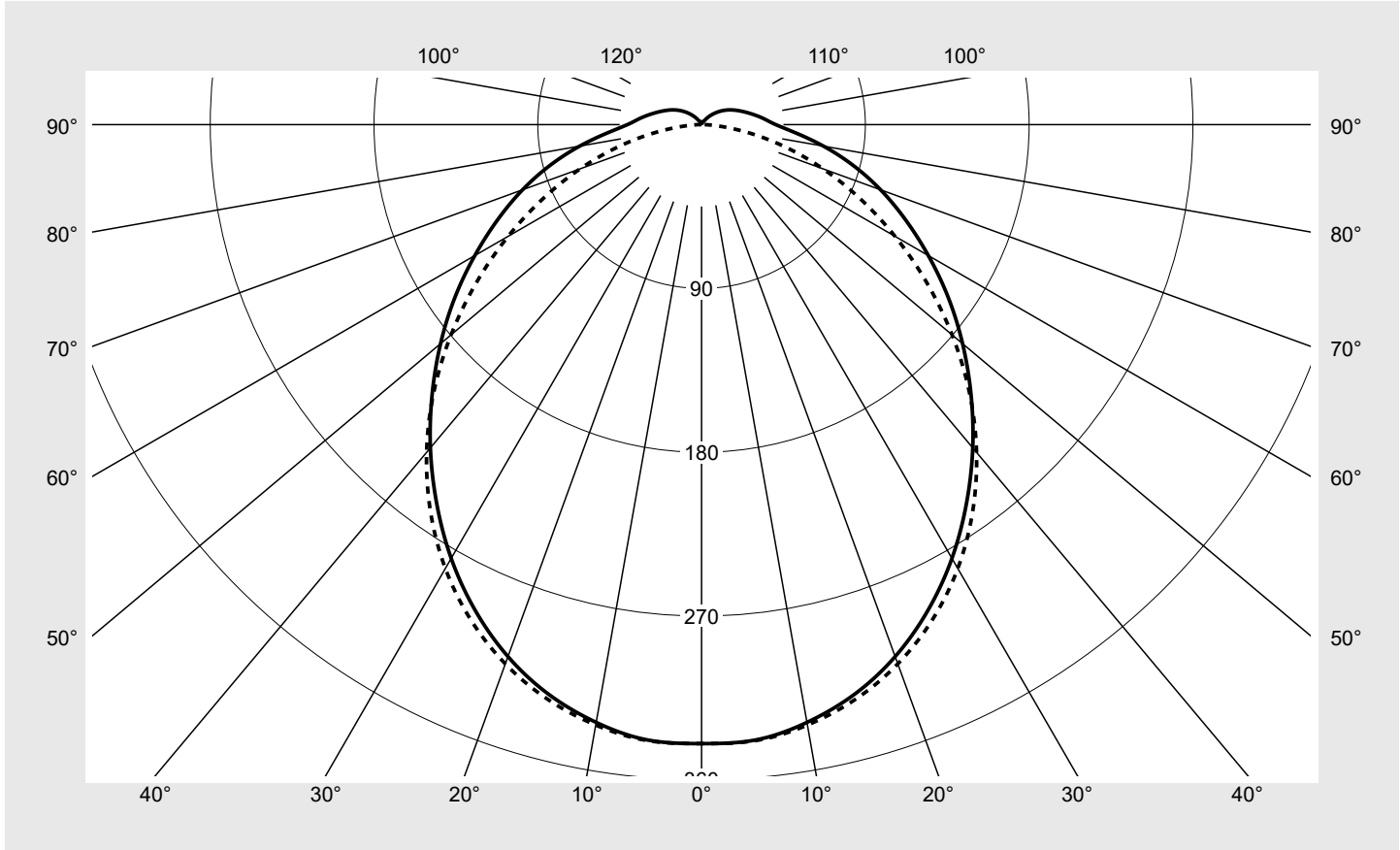


Photometric test report

Family Monsun® 12	Order number: 51FE107P480R EAN: 4058352539439	LP number 58939_84
	Version prismatic diffuser, opal, PMMA, wide distribution	serial documentation 21.10.2021
	Lamps LED 4000 K CRI ≥ 80	
	Controlgear ECG	Rated values Net luminous flux = 8000 lm Power consumption = 43.2 W Luminous efficacy = 185.2 lm/W
	Rated values	



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

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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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UGR-Table		Standard room									
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	21.0	22.7	21.4	23.1	23.4	21.0	22.7	21.4	23.0	23.4
	3H	22.8	24.3	23.2	24.7	25.0	22.4	24.0	22.8	24.3	24.6
	4H	23.6	25.1	24.0	25.4	25.8	22.9	24.4	23.3	24.7	25.1
	6H	24.4	25.7	24.8	26.1	26.5	23.3	24.6	23.7	25.0	25.4
	8H	24.7	26.0	25.1	26.4	26.8	23.4	24.7	23.8	25.1	25.5
	12H	25.0	26.2	25.5	26.6	27.0	23.5	24.7	23.9	25.1	25.5
4H	2H	21.7	23.2	22.1	23.5	23.9	21.7	23.2	22.1	23.5	23.9
	3H	23.7	24.9	24.1	25.3	25.7	23.3	24.5	23.7	24.9	25.3
	4H	24.6	25.8	25.1	26.2	26.6	23.9	25.1	24.4	25.5	25.9
	6H	25.6	26.5	26.0	27.0	27.4	24.4	25.4	24.9	25.8	26.3
	8H	26.0	26.9	26.4	27.3	27.8	24.6	25.5	25.0	25.9	26.4
	12H	26.4	27.2	26.9	27.7	28.1	24.7	25.5	25.1	26.0	26.4
8H	4H	25.0	25.9	25.4	26.3	26.8	24.4	25.3	24.8	25.7	26.2
	6H	26.0	26.8	26.5	27.3	27.8	25.0	25.7	25.5	26.2	26.7
	8H	26.6	27.3	27.1	27.8	28.3	25.2	25.9	25.7	26.4	26.9
	12H	27.1	27.7	27.6	28.2	28.7	25.3	25.9	25.9	26.4	27.0
12H	4H	25.0	25.8	25.5	26.3	26.8	24.5	25.3	24.9	25.7	26.2
	6H	26.1	26.8	26.6	27.3	27.8	25.1	25.8	25.6	26.3	26.8
	8H	26.7	27.3	27.2	27.8	28.3	25.4	26.0	25.9	26.5	27.0

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	0°	15°	30°	45°	60°	75°	90°
		180°	165°	150°	135°	120°	105°	270°
		195°	210°	225°	240°	255°	285°	
		345°	330°	315°	300°			
		Luminance in cd/m ²						
45°		13794.3	13879.8	13981.3	14273.7	14889.8	15714.4	16804.6
50°		13083.0	13131.5	13229.6	13431.5	13939.4	14722.5	15917.0
55°		12405.8	12420.3	12496.3	12594.8	12987.4	13671.8	14930.5
60°		11736.6	11726.7	11747.1	11784.4	12043.2	12608.3	13878.0
65°		11148.2	11121.4	11027.3	10957.3	11111.2	11536.5	12775.7
70°		10643.0	10582.9	10308.3	10113.6	10131.6	10407.7	11591.5
75°		10116.3	10020.8	9636.4	9245.5	9016.2	9109.2	10183.6
80°		9558.1	9399.4	9014.2	8319.3	7739.9	7482.4	8327.8
85°		9150.7	8957.0	8538.2	7667.0	6517.1	5584.2	5816.0

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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

siteco

