

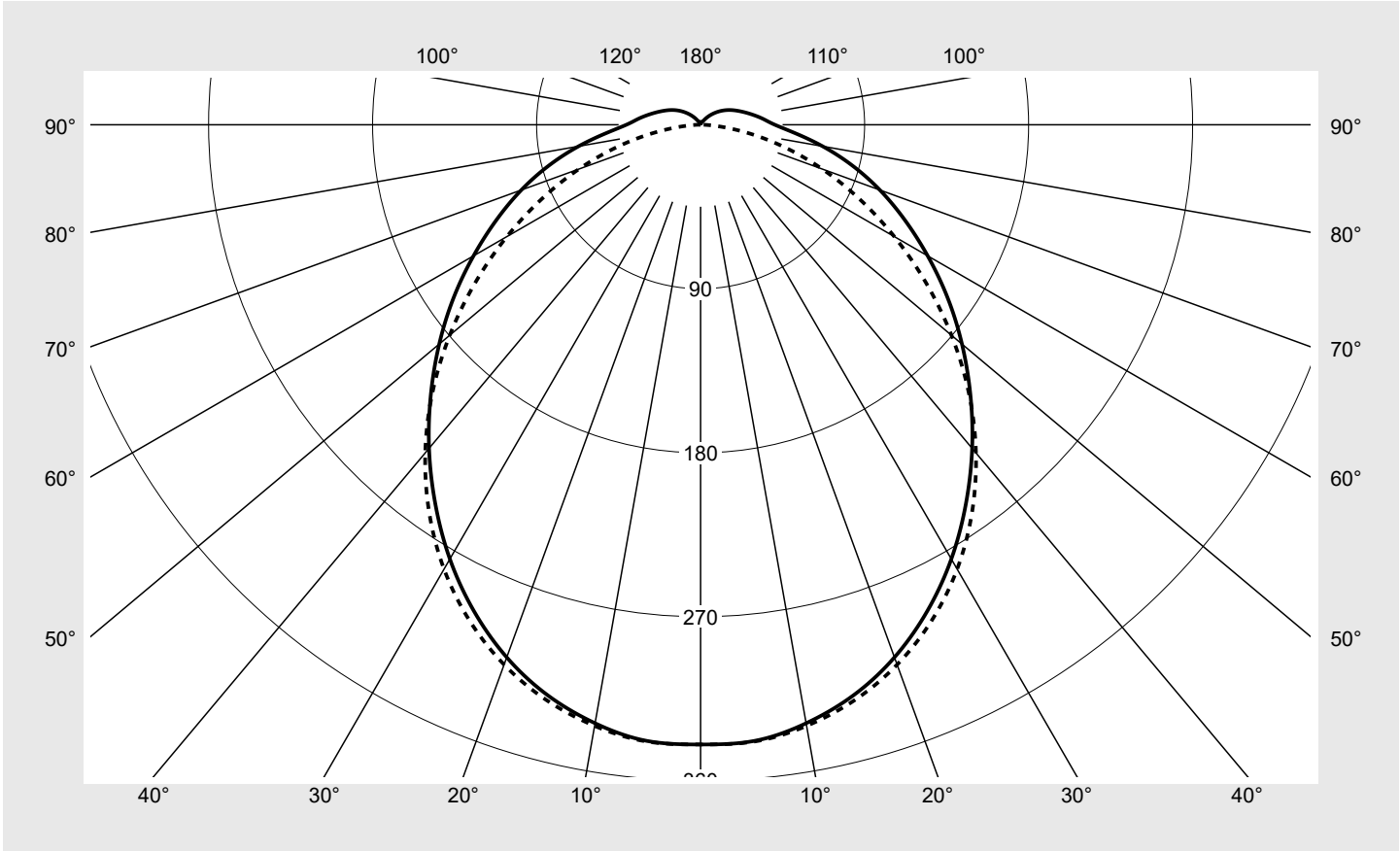


Photometric test report

Family Monsun® 21	Order number: 51FB10MP480C EAN: 4069025178206	LP number 58939_249
	Version prismatic diffuser, opal, PMMA, wide distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG Multilumen Rated values Net luminous flux = 8550 lm Power consumption = 47.3 W Luminous efficacy = 180.8 lm/W	serial documentation 06.02.2026
		

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									
Room dimensions		View crosswise (C0)					View endwise (C90)				
x	y										
2H	2H	21.3	23.0	21.6	23.3	23.6	21.3	23.0	21.6	23.3	23.6
	3H	23.0	24.6	23.4	24.9	25.2	22.6	24.2	23.0	24.5	24.9
	4H	23.8	25.3	24.2	25.6	26.0	23.2	24.6	23.6	25.0	25.3
	6H	24.6	25.9	25.0	26.3	26.7	23.5	24.9	23.9	25.2	25.6
	8H	25.0	26.2	25.4	26.6	27.0	23.7	24.9	24.1	25.3	25.7
	12H	25.3	26.5	25.7	26.8	27.3	23.7	24.9	24.1	25.3	25.7
4H	2H	22.0	23.4	22.4	23.8	24.2	22.0	23.4	22.4	23.8	24.1
	3H	23.9	25.2	24.3	25.5	25.9	23.5	24.8	24.0	25.2	25.6
	4H	24.9	26.0	25.3	26.4	26.8	24.2	25.3	24.6	25.7	26.1
	6H	25.8	26.8	26.2	27.2	27.7	24.6	25.7	25.1	26.1	26.5
	8H	26.2	27.1	26.7	27.6	28.0	24.8	25.7	25.3	26.2	26.6
	12H	26.6	27.4	27.1	27.9	28.4	24.9	25.7	25.4	26.2	26.7
8H	4H	25.2	26.1	25.7	26.6	27.0	24.6	25.5	25.1	25.9	26.4
	6H	26.3	27.0	26.8	27.5	28.0	25.2	26.0	25.7	26.4	26.9
	8H	26.8	27.5	27.3	28.0	28.5	25.4	26.1	25.9	26.6	27.1
	12H	27.4	28.0	27.9	28.4	29.0	25.6	26.2	26.1	26.7	27.2
12H	4H	25.2	26.1	25.7	26.5	27.0	24.7	25.5	25.2	26.0	26.4
	6H	26.4	27.0	26.9	27.5	28.0	25.4	26.0	25.9	26.5	27.0
	8H	27.0	27.6	27.5	28.0	28.6	25.6	26.2	26.1	26.7	27.2

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°		14742.7	14834.1	14942.5	15255.0	15913.4	16794.8	17959.9
50°		13982.4	14034.3	14139.2	14354.9	14897.7	15734.7	17011.3
55°		13258.7	13274.2	13355.5	13460.7	13880.3	14611.7	15957.0
60°		12543.5	12532.9	12554.7	12594.6	12871.1	13475.2	14832.1
65°		11914.6	11886.0	11785.4	11710.7	11875.1	12329.6	13654.0
70°		11374.8	11310.5	11017.0	10808.9	10828.1	11123.2	12388.4
75°		10811.8	10709.7	10298.9	9881.1	9636.0	9735.4	10883.7
80°		10215.2	10045.6	9633.9	8891.2	8272.0	7996.8	8900.3
85°		9779.8	9572.8	9125.2	8194.1	6965.1	5968.1	6215.8

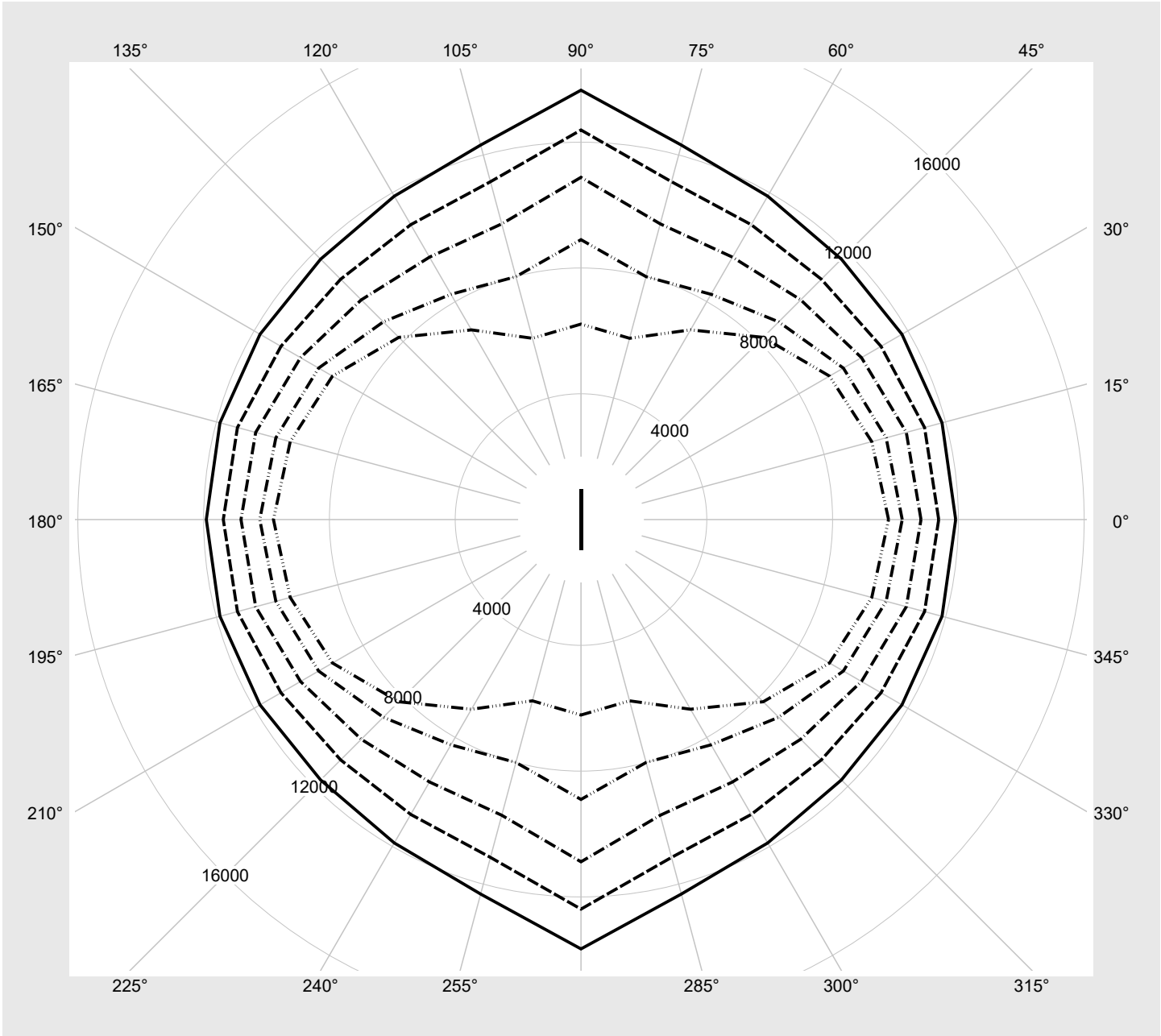
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

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Multilumen Table	environmental temperature: 25°C	
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DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
1	A	C	E	8550	47.3
2	A	C	F	7760	42.6
3	A	D	E	7160	39.2
4	A	D	F	6490	35.3
5	B	C	E	5890	32.0
6	B	C	F	5280	28.6
7	B	D	E	4660	25.3
8	B	D	F	4110	22.4