

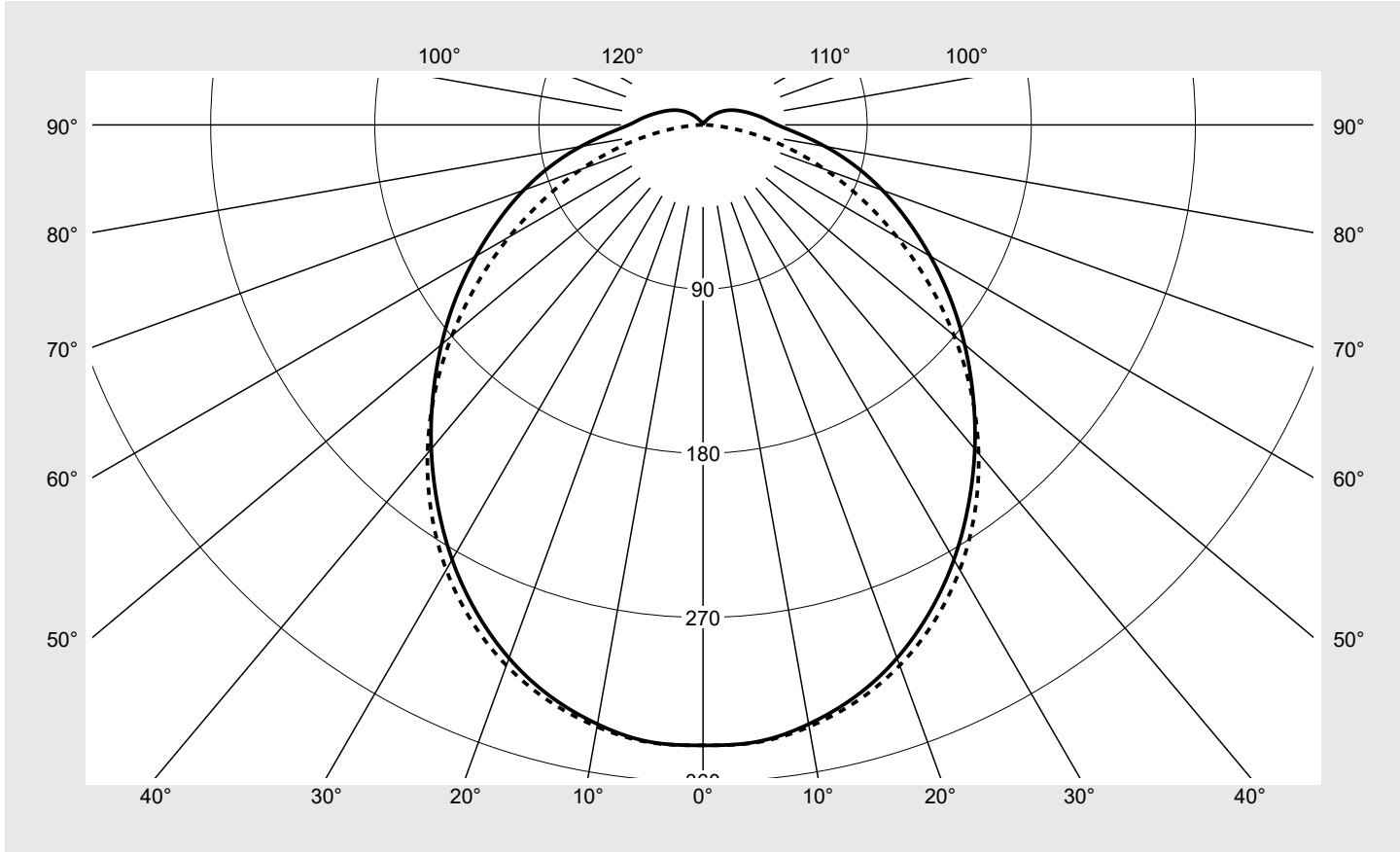


Photometric test report

Family Monsun® 21	Order number: 51FB10DP360B EAN: 4058352788004	LP number 58939_99
	Version prismatic diffuser, opal, PMMA, wide distribution Lamps LED 3000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 6060 lm Power consumption = 43.2 W Luminous efficacy = 140.3 lm/W	serial documentation 19.01.2023
		

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
		siteco

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	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	20.1	21.8	20.4	22.1	22.4	20.1	21.8	20.4	22.1	22.4
	3H	21.8	23.4	22.2	23.7	24.0	21.4	23.0	21.8	23.3	23.7
	4H	22.6	24.1	23.0	24.4	24.8	22.0	23.4	22.4	23.8	24.1
	6H	23.4	24.7	23.8	25.1	25.5	22.3	23.7	22.7	24.1	24.4
	8H	23.8	25.0	24.2	25.4	25.8	22.5	23.7	22.9	24.1	24.5
	12H	24.1	25.3	24.5	25.7	26.1	22.5	23.7	22.9	24.1	24.5
4H	2H	20.8	22.2	21.2	22.6	23.0	20.8	22.2	21.2	22.6	22.9
	3H	22.7	24.0	23.1	24.3	24.8	22.3	23.6	22.8	24.0	24.4
	4H	23.7	24.8	24.1	25.2	25.6	23.0	24.1	23.4	24.5	24.9
	6H	24.6	25.6	25.0	26.0	26.5	23.5	24.5	23.9	24.9	25.3
	8H	25.0	25.9	25.5	26.4	26.8	23.6	24.5	24.1	25.0	25.4
	12H	25.4	26.2	25.9	26.7	27.2	23.7	24.5	24.2	25.0	25.5
8H	4H	24.0	24.9	24.5	25.4	25.8	23.4	24.3	23.9	24.7	25.2
	6H	25.1	25.9	25.6	26.3	26.8	24.0	24.8	24.5	25.2	25.7
	8H	25.6	26.3	26.1	26.8	27.3	24.2	24.9	24.7	25.4	25.9
	12H	26.2	26.8	26.7	27.2	27.8	24.4	25.0	24.9	25.5	26.0
12H	4H	24.0	24.9	24.5	25.3	25.8	23.5	24.3	24.0	24.8	25.2
	6H	25.2	25.8	25.7	26.3	26.8	24.2	24.8	24.7	25.3	25.8
	8H	25.8	26.4	26.3	26.8	27.4	24.4	25.0	24.9	25.5	26.0

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	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°		10449.2	10514.0	10590.9	10812.3	11279.0	11903.7	12729.5	
50°		9910.4	9947.1	10021.4	10174.3	10559.1	11152.3	12057.1	
55°		9397.4	9408.4	9466.0	9540.6	9838.0	10356.4	11309.9	
60°		8890.5	8883.0	8898.4	8926.7	9122.7	9550.8	10512.6	
65°		8444.8	8424.5	8353.2	8300.2	8416.7	8738.9	9677.6	
70°		8062.1	8016.6	7808.5	7661.0	7674.7	7883.8	8780.5	
75°		7663.1	7590.8	7299.5	7003.5	6829.7	6900.2	7714.1	
80°		7240.2	7120.0	6828.2	6301.9	5863.0	5667.9	6308.3	
85°		6931.7	6784.9	6467.7	5807.7	4936.7	4230.0	4405.6	

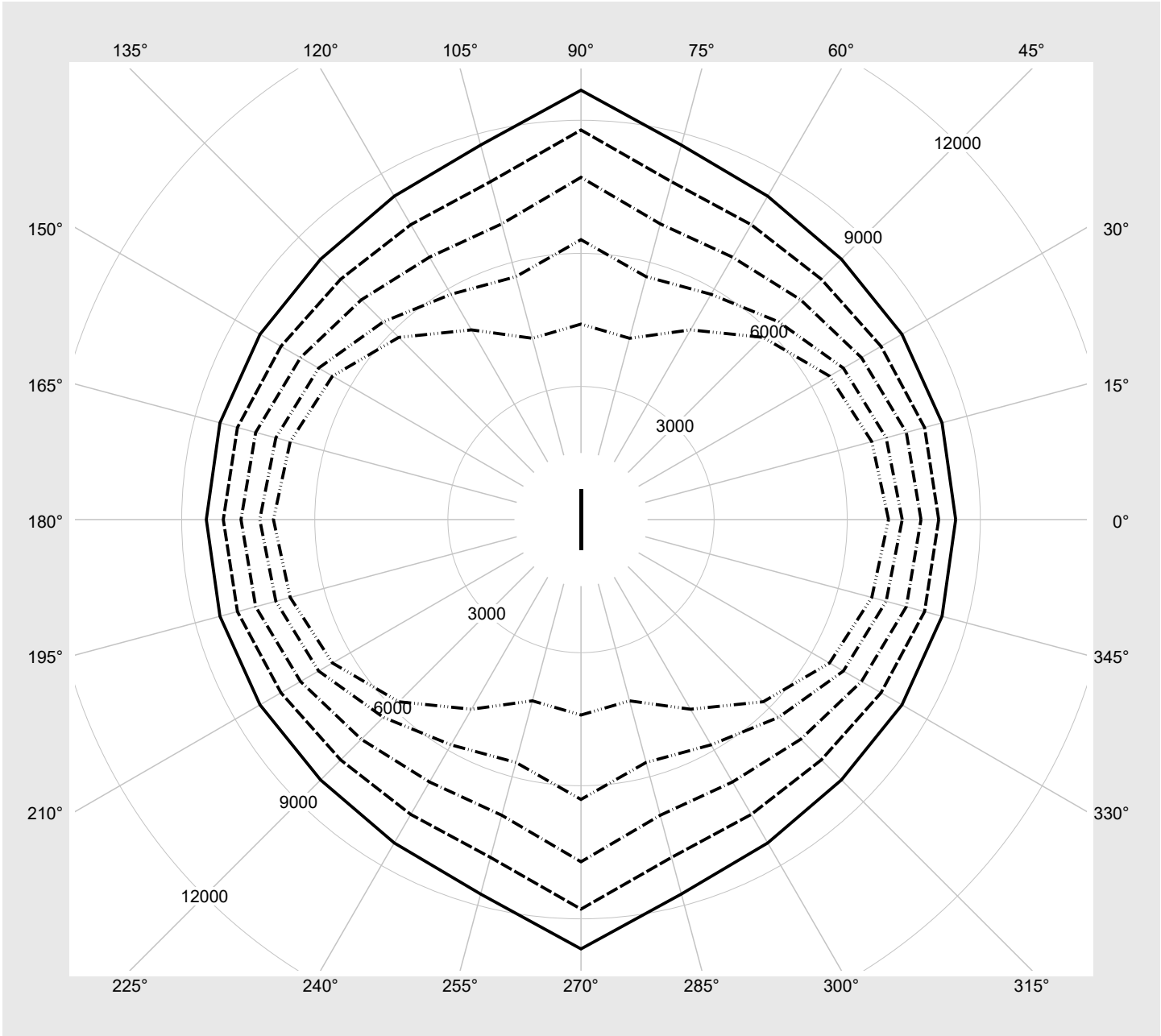
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Luminance values in cd/m²

γ 65°	γ 70°	γ 75°	γ 80°	γ 85°
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Dimming levels table	environmental temperature: 25°C	sITeco
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	6060	43.2
95	240	252	5751	40.8
90	227	250	5464	38.5
85	213	248	5148	36.2
80	200	245	4852	34.0
75	186	243	4534	31.7
70	173	240	4232	29.5
65	160	237	3929	27.3
60	148	234	3646	25.3
55	135	231	3337	23.2
50	122	227	3025	21.2
45	110	223	2735	19.3
40	97	219	2419	17.1
35	85	214	2124	15.3
30	73	208	1827	13.3
25	60	201	1505	11.3
20	48	193	1204	9.3
15	36	182	900	7.5
10	24	168	595	5.7
5	13	145	313	4.2
2	6	117	133	3.1