

Photometric test report

Family
Monsun® 21

Order number: **51FB10DP437C3H**
EAN: **4069025177988**

LP number
58939_140



Version prismatic diffuser, opal, PMMA, extremely wide distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI
Rated values Net luminous flux = 3860 lm
Power consumption = 25.5 W
Luminous efficacy = 151.4 lm/W

serial
documentation
08.05.2024

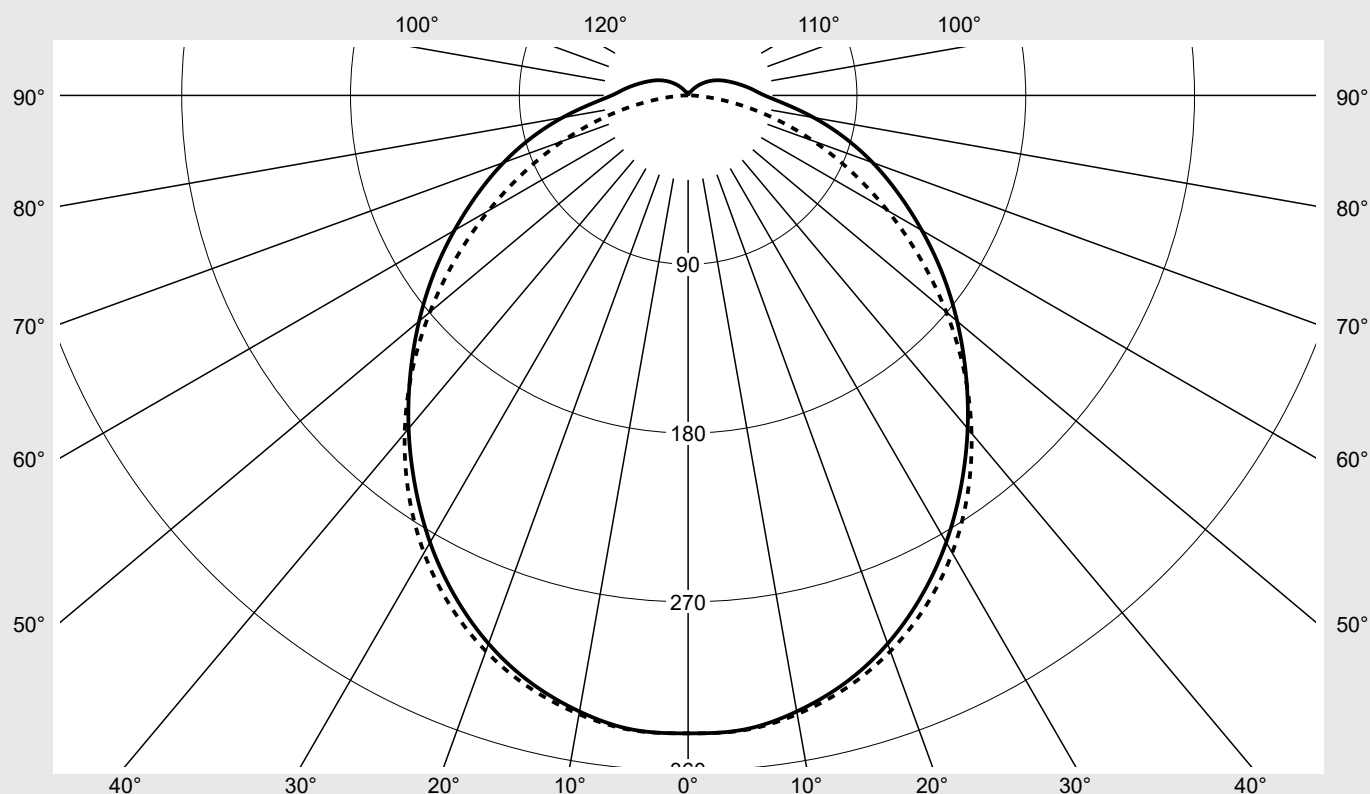
siteco

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	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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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	18.5	20.2	18.9	20.5	20.8	18.5	20.2	18.9	20.5	20.8
	3H	20.3	21.8	20.6	22.1	22.5	19.9	21.4	20.3	21.8	22.1
	4H	21.1	22.5	21.5	22.9	23.2	20.4	21.9	20.8	22.2	22.6
	6H	21.8	23.2	22.2	23.5	23.9	20.8	22.1	21.2	22.5	22.9
	8H	22.2	23.4	22.6	23.8	24.2	20.9	22.2	21.3	22.5	22.9
	12H	22.5	23.7	22.9	24.1	24.5	20.9	22.2	21.4	22.5	23.0
4H	2H	19.2	20.7	19.6	21.0	21.4	19.2	20.6	19.6	21.0	21.4
	3H	21.1	22.4	21.6	22.8	23.2	20.8	22.0	21.2	22.4	22.8
	4H	22.1	23.2	22.5	23.6	24.1	21.4	22.5	21.9	23.0	23.4
	6H	23.0	24.0	23.5	24.4	24.9	21.9	22.9	22.3	23.3	23.8
	8H	23.4	24.4	23.9	24.8	25.3	22.0	23.0	22.5	23.4	23.9
	12H	23.9	24.7	24.3	25.1	25.6	22.1	23.0	22.6	23.4	23.9
8H	4H	22.4	23.4	22.9	23.8	24.3	21.8	22.7	22.3	23.2	23.6
	6H	23.5	24.3	24.0	24.7	25.2	22.4	23.2	22.9	23.7	24.2
	8H	24.1	24.7	24.5	25.2	25.7	22.7	23.3	23.2	23.8	24.3
	12H	24.6	25.2	25.1	25.7	26.2	22.8	23.4	23.3	23.9	24.4
12H	4H	22.5	23.3	23.0	23.8	24.2	21.9	22.7	22.4	23.2	23.7
	6H	23.6	24.3	24.1	24.8	25.3	22.6	23.3	23.1	23.7	24.3
	8H	24.2	24.8	24.7	25.3	25.8	22.9	23.5	23.4	23.9	24.5

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	γ	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
			Luminance in cd/m²					
45° 50° 55° 60°			6655.8	6697.0	6746.0	6887.0	7184.3	7582.2
			6312.5	6335.9	6383.3	6480.7	6725.8	7103.6
			5985.8	5992.8	6029.5	6077.0	6266.4	6596.6
			5662.9	5658.1	5668.0	5686.0	5810.8	6083.5
65° 70° 75° 80°			5379.0	5366.1	5320.7	5286.9	5361.2	5566.4
			5135.3	5106.3	4973.8	4879.8	4888.5	5021.7
			4881.1	4835.0	4649.5	4461.0	4350.3	4395.2
			4611.8	4535.2	4349.3	4014.1	3734.5	3610.2
85°			4415.2	4321.8	4119.7	3699.3	3144.5	2694.4
								2806.2

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Luminance values in cd/m²

γ 65°

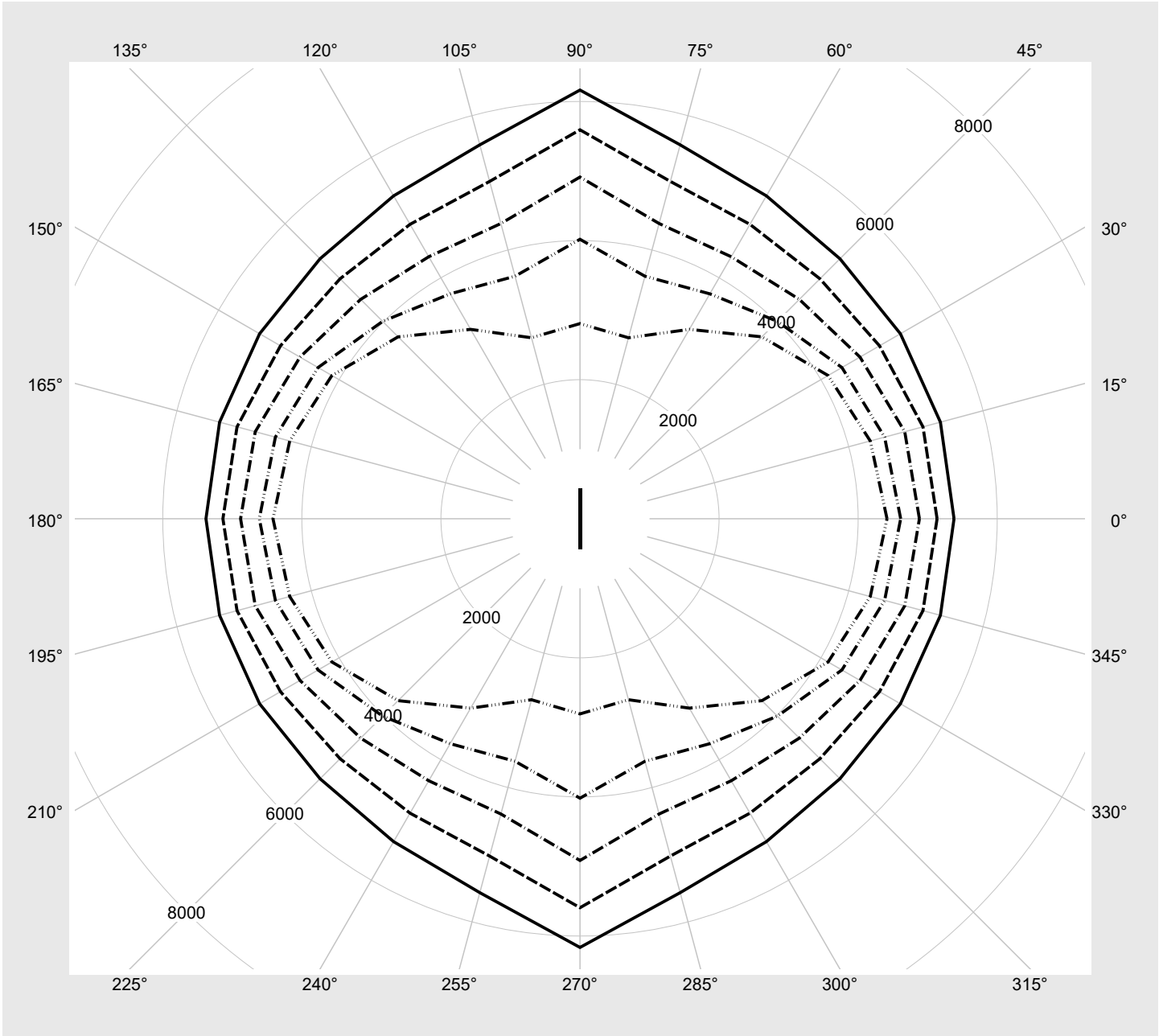
γ 70°

γ 75°

γ 80°

γ 85°

siteco



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Family Monsun® 21	Order number: 51FB10DP437C3H EAN: 4069025177988	LP number 58939_140
Dimming levels table		environmental temperature: 25°C 

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	3860	25.5
95	241	252	3666	24.5
90	228	250	3472	23.4
85	215	248	3277	22.5
80	202	246	3082	21.4
75	190	243	2901	20.5
70	177	241	2705	19.4
65	164	238	2508	18.3
60	151	235	2310	17.3
55	139	232	2127	16.2
50	126	228	1932	15.1
45	113	224	1733	14.2
40	101	220	1550	13.2
35	88	215	1349	12.1
30	76	210	1164	11.2
25	63	203	964	10.2
20	51	195	778	9.3
15	38	184	577	8.3
10	26	171	390	7.5
5	13	145	188	6.9
4	12	142	172	6.8