

Photometric test report

Family
Monsun® 21

Order number: **51FB10DP487C3H**
EAN: **4069025178145**

LP number
58939_144



Version prismatic diffuser, opal, PMMA, extremely wide distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI
Rated values Net luminous flux = 8090 lm
Power consumption = 49.9 W
Luminous efficacy = 162.1 lm/W

serial
documentation
08.05.2024

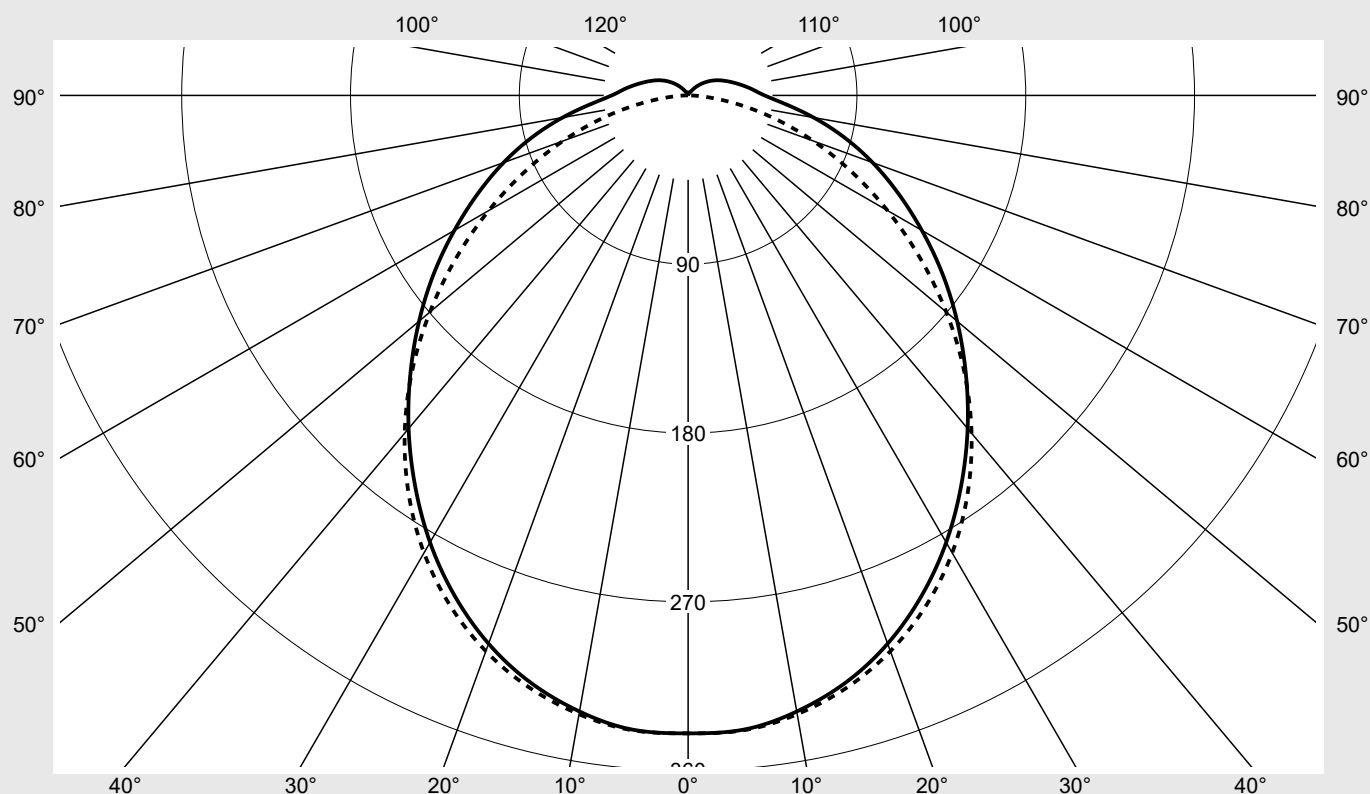
siteco

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	21.1	22.8	21.4	23.1	23.4	21.1	22.8	21.4	23.1	23.4		
	3H	22.8	24.4	23.2	24.7	25.1	22.4	24.0	22.8	24.3	24.7		
	4H	23.6	25.1	24.0	25.4	25.8	23.0	24.4	23.4	24.8	25.1		
	6H	24.4	25.7	24.8	26.1	26.5	23.3	24.7	23.7	25.1	25.4		
	8H	24.8	26.0	25.2	26.4	26.8	23.5	24.7	23.9	25.1	25.5		
	12H	25.1	26.3	25.5	26.7	27.1	23.5	24.7	23.9	25.1	25.5		
4H	2H	21.8	23.2	22.2	23.6	24.0	21.8	23.2	22.2	23.6	23.9		
	3H	23.7	25.0	24.1	25.4	25.8	23.3	24.6	23.8	25.0	25.4		
	4H	24.7	25.8	25.1	26.2	26.6	24.0	25.1	24.4	25.5	26.0		
	6H	25.6	26.6	26.0	27.0	27.5	24.5	25.5	24.9	25.9	26.3		
	8H	26.0	26.9	26.5	27.4	27.8	24.6	25.5	25.1	26.0	26.4		
	12H	26.4	27.2	26.9	27.7	28.2	24.7	25.5	25.2	26.0	26.5		
8H	4H	25.0	25.9	25.5	26.4	26.8	24.4	25.3	24.9	25.7	26.2		
	6H	26.1	26.9	26.6	27.3	27.8	25.0	25.8	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	27.2	27.8	27.7	28.3	28.8	25.4	26.0	25.9	26.5	27.0		
12H	4H	25.0	25.9	25.5	26.3	26.8	24.5	25.3	25.0	25.8	26.2		
	6H	26.2	26.9	26.7	27.3	27.8	25.2	25.8	25.7	26.3	26.8		
	8H	26.8	27.4	27.3	27.9	28.4	25.4	26.0	25.9	26.5	27.0		

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°		13949.5	14036.0	14138.6	14434.3	15057.3	15891.2	16993.6
50°		13230.2	13279.2	13378.5	13582.6	14096.2	14888.2	16096.1
55°		12545.4	12560.0	12636.9	12736.5	13133.5	13825.6	15098.5
60°		11868.6	11858.7	11879.3	11917.0	12178.7	12750.2	14034.2
65°		11273.6	11246.5	11151.4	11080.6	11236.2	11666.3	12919.4
70°		10762.8	10702.0	10424.3	10227.4	10245.6	10524.8	11721.9
75°		10230.1	10133.5	9744.8	9349.5	9117.6	9211.6	10298.1
80°		9665.6	9505.1	9115.6	8412.9	7827.0	7566.5	8421.5
85°		9253.7	9057.8	8634.2	7753.2	6590.4	5647.0	5881.4

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Luminance values in cd/m²

γ 65°

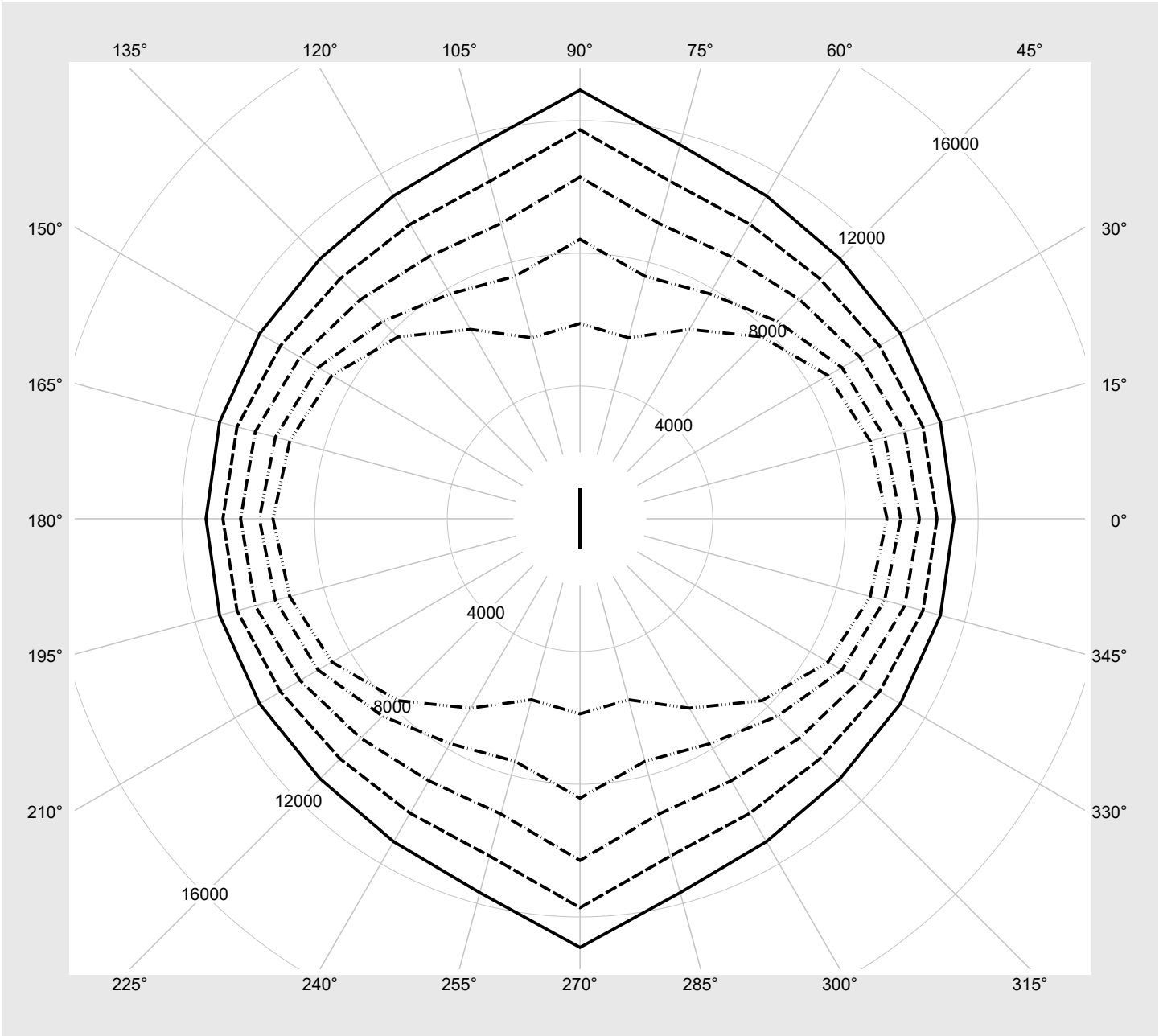
γ 70°

γ 75°

γ 80°

γ 85°

siteco



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Family Monsun® 21	Order number: 51FB10DP487C3H EAN: 4069025178145	LP number 58939_144
Dimming levels table environmental temperature: 25°C		

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	8090	49.9
95	240	252	7671	47.4
90	227	250	7279	45.2
85	214	248	6883	42.9
80	201	245	6486	40.6
75	187	243	6055	38.2
70	174	240	5651	35.8
65	161	237	5244	33.5
60	149	234	4865	31.6
55	136	231	4452	29.4
50	123	227	4037	27.2
45	111	224	3651	25.1
40	98	219	3230	22.8
35	86	214	2840	20.7
30	73	208	2414	18.3
25	61	202	2020	16.1
20	49	194	1625	13.9
15	37	183	1226	11.8
10	25	169	825	9.7
5	12	142	389	7.5
2	6	117	187	6.6