

Photometric test report

Family
Monsun® 21

Order number: 51FB10DP437C3H
EAN: 4069025177988

LP number
58939_139



Version prismatic diffuser, opal, PMMA, extremely wide distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI
Setting emergency light operation: 3 h
Rated values Net luminous flux = 930 lm
 Power consumption = 6.2 W
 Luminous efficacy = 150 lm/W

serial
documentation
08.05.2024

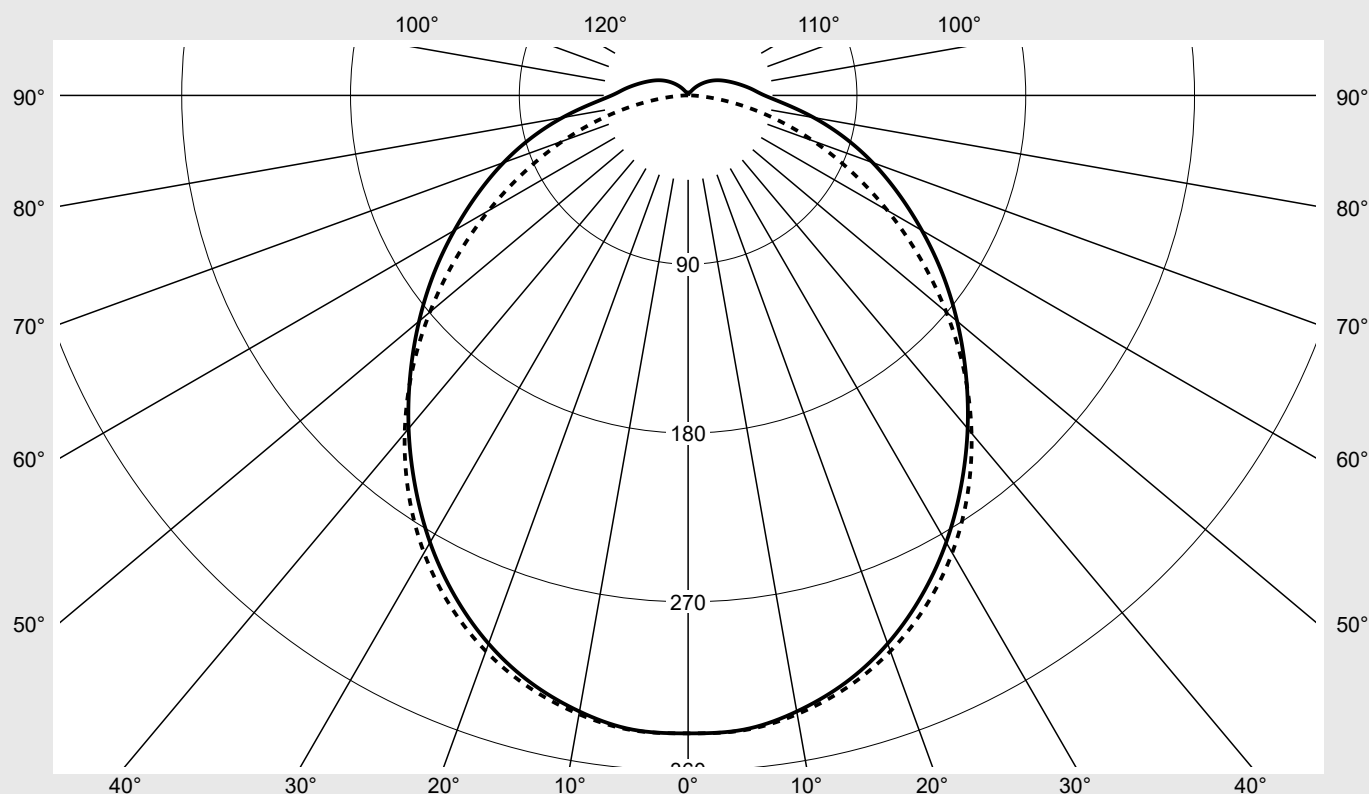
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Luminous intensity in cd/klm

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	13.6	15.3	13.9	15.6	15.9	13.6	15.3	13.9	15.6	15.9
	3H	15.3	16.8	15.7	17.2	17.5	14.9	16.5	15.3	16.8	17.2
	4H	16.1	17.6	16.5	17.9	18.3	15.5	16.9	15.8	17.3	17.6
	6H	16.9	18.2	17.3	18.6	19.0	15.8	17.2	16.2	17.5	17.9
	8H	17.3	18.5	17.7	18.9	19.3	16.0	17.2	16.4	17.6	18.0
	12H	17.6	18.7	18.0	19.1	19.6	16.0	17.2	16.4	17.6	18.0
4H	2H	14.3	15.7	14.7	16.1	16.4	14.3	15.7	14.6	16.1	16.4
	3H	16.2	17.5	16.6	17.8	18.2	15.8	17.1	16.2	17.5	17.9
	4H	17.2	18.3	17.6	18.7	19.1	16.5	17.6	16.9	18.0	18.4
	6H	18.1	19.1	18.5	19.5	19.9	16.9	17.9	17.4	18.4	18.8
	8H	18.5	19.4	19.0	19.8	20.3	17.1	18.0	17.6	18.5	18.9
	12H	18.9	19.7	19.4	20.2	20.7	17.2	18.0	17.7	18.5	19.0
8H	4H	17.5	18.4	17.9	18.8	19.3	16.9	17.8	17.3	18.2	18.7
	6H	18.6	19.3	19.1	19.8	20.3	17.5	18.3	18.0	18.7	19.2
	8H	19.1	19.8	19.6	20.3	20.8	17.7	18.4	18.2	18.9	19.4
	12H	19.7	20.2	20.2	20.7	21.3	17.9	18.5	18.4	19.0	19.5
12H	4H	17.5	18.4	18.0	18.8	19.3	17.0	17.8	17.5	18.2	18.7
	6H	18.7	19.3	19.2	19.8	20.3	17.7	18.3	18.2	18.8	19.3
	8H	19.3	19.8	19.8	20.3	20.9	17.9	18.5	18.4	19.0	19.5

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°			1603.6	1613.5	1625.3	1659.3	1730.9	1826.8
			1520.9	1526.5	1537.9	1561.4	1620.5	1711.5
			1442.2	1443.9	1452.7	1464.1	1509.8	1589.3
			1364.4	1363.2	1365.6	1369.9	1400.0	1465.7
65° 70° 75° 80°			1296.0	1292.9	1281.9	1273.8	1291.7	1341.1
			1237.3	1230.3	1198.3	1175.7	1177.8	1209.9
			1176.0	1164.9	1120.2	1074.8	1048.1	1058.9
			1111.1	1092.7	1047.9	967.1	899.8	869.8
85°			1063.8	1041.3	992.6	891.3	757.6	649.2

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Luminance values in cd/m²

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

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