

Photometric test report

Family
Monsun® 12

Order number: 51FP10DP460HR
EAN: 4058352376348

LP number
58939_37



Version prismatic diffuser, opal, PMMA, wide distribution, changeover relay
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI
Setting equivalent power supply (DC)
Rated values Net luminous flux = 890 lm
Power consumption = 6.9 W
Luminous efficacy = 129 lm/W

serial
documentation
10.05.2021

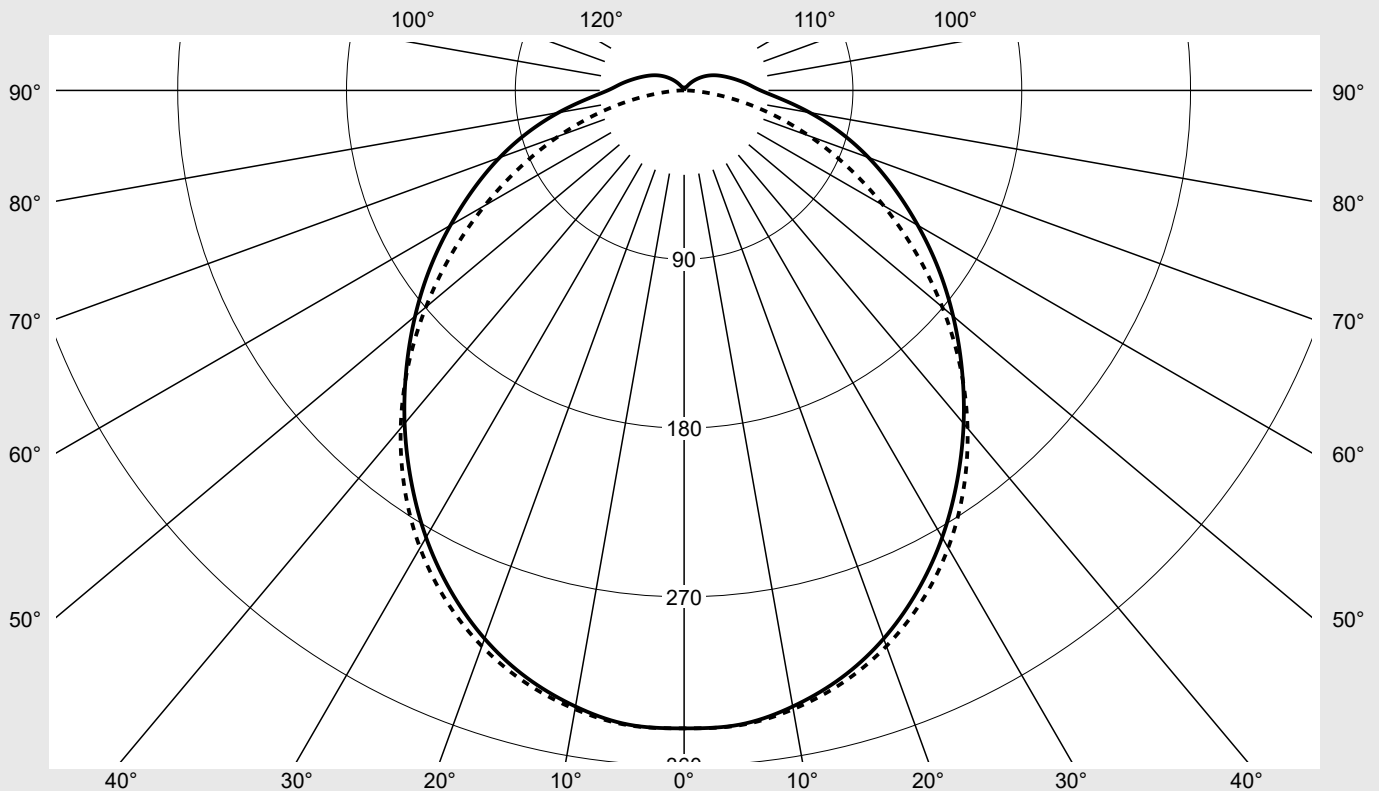
sitEco

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 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	13.4	15.1	13.8	15.4	15.7	13.4	15.1	13.8	15.4	15.7
	3H	15.2	16.7	15.5	17.0	17.4	14.8	16.3	15.2	16.7	17.0
	4H	16.0	17.4	16.4	17.8	18.1	15.3	16.8	15.7	17.1	17.5
	6H	16.7	18.1	17.1	18.4	18.8	15.7	17.0	16.1	17.4	17.8
	8H	17.1	18.4	17.5	18.7	19.1	15.8	17.1	16.2	17.4	17.9
	12H	17.4	18.6	17.8	19.0	19.4	15.9	17.1	16.3	17.5	17.9
4H	2H	14.1	15.6	14.5	15.9	16.3	14.1	15.6	14.5	15.9	16.3
	3H	16.0	17.3	16.5	17.7	18.1	15.7	16.9	16.1	17.3	17.7
	4H	17.0	18.1	17.4	18.5	19.0	16.3	17.5	16.8	17.9	18.3
	6H	17.9	18.9	18.4	19.3	19.8	16.8	17.8	17.2	18.2	18.7
	8H	18.3	19.3	18.8	19.7	20.2	16.9	17.9	17.4	18.3	18.8
	12H	18.8	19.6	19.2	20.0	20.5	17.0	17.9	17.5	18.3	18.8
8H	4H	17.3	18.3	17.8	18.7	19.2	16.7	17.6	17.2	18.1	18.5
	6H	18.4	19.2	18.9	19.7	20.1	17.3	18.1	17.8	18.6	19.1
	8H	19.0	19.6	19.4	20.1	20.6	17.6	18.2	18.1	18.7	19.2
	12H	19.5	20.1	20.0	20.6	21.1	17.7	18.3	18.2	18.8	19.3
12H	4H	17.4	18.2	17.9	18.7	19.1	16.8	17.6	17.3	18.1	18.6
	6H	18.5	19.2	19.0	19.7	20.2	17.5	18.2	18.0	18.6	19.2
	8H	19.1	19.7	19.6	20.2	20.7	17.8	18.4	18.3	18.8	19.4

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
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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°		1534.6	1544.1	1555.4	1587.9	1656.5	1748.2	1869.5	
50°		1455.5	1460.9	1471.8	1494.3	1550.8	1637.9	1770.8	
55°		1380.1	1381.8	1390.2	1401.2	1444.9	1521.0	1661.0	
60°		1305.7	1304.6	1306.9	1311.0	1339.8	1402.7	1543.9	
65°		1240.2	1237.3	1226.8	1219.0	1236.1	1283.4	1421.3	
70°		1184.0	1177.3	1146.8	1125.1	1127.1	1157.9	1289.6	
75°		1125.4	1114.8	1072.0	1028.6	1003.0	1013.4	1132.9	
80°		1063.3	1045.7	1002.8	925.5	861.1	832.4	926.5	
85°		1018.0	996.5	949.9	852.9	725.0	621.2	647.0	

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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**

