

## 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

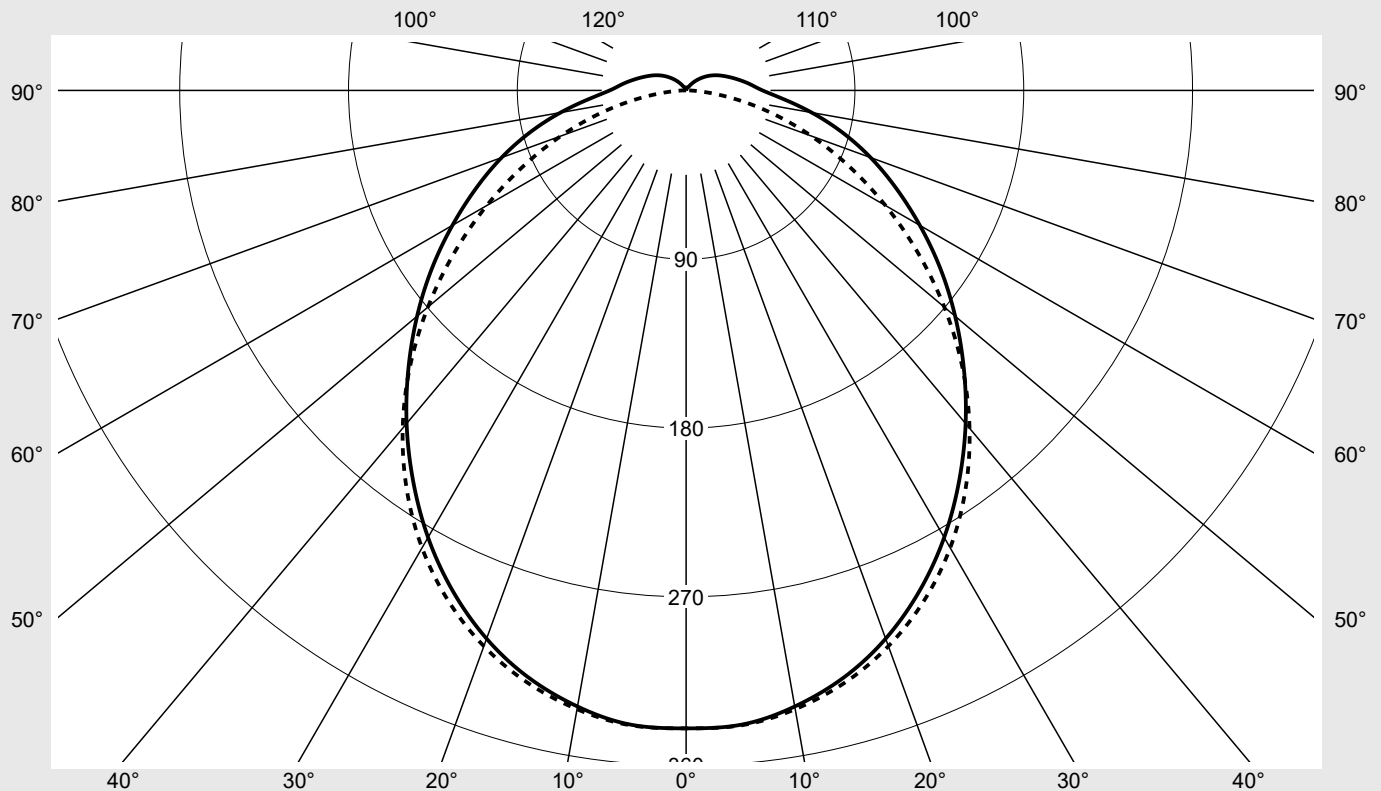
sitEco

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

$\eta_{LB}$  100.0%  
 $\phi_u$  94.2%  
 $\phi_o$  5.8%

### Measurement conditions

DIN EN 13032 and DIN 5032

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<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>siteco</b>

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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<b>UGR-Table</b>	<b>Standard room</b>	<b>siteco</b>
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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

<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1590</b>	<b>H(C0) = 21</b>	<b>H(C180) = 21</b>
			<b>B = 87</b>	<b>H(C90) = 21</b>	<b>H(C270) = 21</b>

C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>								
		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/m<sup>2</sup>**

$\gamma$  65°   
   $\gamma$  70°   
   $\gamma$  75°   
   $\gamma$  80°   
   $\gamma$  85°

