

# Photometric test report

<b>Family</b> <b>Monsun® 12</b>	<b>Order number: 51FP108P460H</b> <b>EAN: 4058352389713</b>	<b>LP number</b> <b>58939_107</b>
	<b>Version</b> prismatic diffuser, opal, PMMA, wide distribution <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG <b>Rated values</b> Net luminous flux = 6100 lm Power consumption = 33.9 W Luminous efficacy = 179.9 lm/W	<b>serial documentation</b> <b>12.12.2023</b>
		

**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 $\gamma$	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	20.1	21.8	20.5	22.1	22.4	20.1	21.8	20.4	22.1	22.4
	3H	21.8	23.4	22.2	23.7	24.1	21.5	23.0	21.8	23.3	23.7
	4H	22.7	24.1	23.1	24.5	24.8	22.0	23.4	22.4	23.8	24.2
	6H	23.4	24.8	23.8	25.1	25.5	22.4	23.7	22.8	24.1	24.5
	8H	23.8	25.0	24.2	25.4	25.8	22.5	23.8	22.9	24.1	24.5
	12H	24.1	25.3	24.5	25.7	26.1	22.5	23.7	23.0	24.1	24.6
4H	2H	20.8	22.3	21.2	22.6	23.0	20.8	22.2	21.2	22.6	23.0
	3H	22.7	24.0	23.2	24.4	24.8	22.4	23.6	22.8	24.0	24.4
	4H	23.7	24.8	24.1	25.2	25.7	23.0	24.1	23.4	24.5	25.0
	6H	24.6	25.6	25.1	26.0	26.5	23.5	24.5	23.9	24.9	25.4
	8H	25.0	25.9	25.5	26.4	26.9	23.6	24.6	24.1	25.0	25.5
	12H	25.4	26.3	25.9	26.7	27.2	23.7	24.6	24.2	25.0	25.5
8H	4H	24.0	24.9	24.5	25.4	25.9	23.4	24.3	23.9	24.8	25.2
	6H	25.1	25.9	25.6	26.3	26.8	24.0	24.8	24.5	25.3	25.8
	8H	25.6	26.3	26.1	26.8	27.3	24.2	24.9	24.7	25.4	25.9
	12H	26.2	26.8	26.7	27.3	27.8	24.4	25.0	24.9	25.5	26.0
12H	4H	24.1	24.9	24.5	25.3	25.8	23.5	24.3	24.0	24.8	25.3
	6H	25.2	25.9	25.7	26.3	26.9	24.2	24.9	24.7	25.3	25.8
	8H	25.8	26.4	26.3	26.9	27.4	24.5	25.0	25.0	25.5	26.1

<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°		10518.2	10583.4	10660.8	10883.7	11353.5	11982.2	12813.5	
50°		9975.8	10012.7	10087.6	10241.5	10628.8	11225.9	12136.7	
55°		9459.4	9470.5	9528.5	9603.5	9902.9	10424.7	11384.5	
60°		8949.2	8941.6	8957.2	8985.6	9182.9	9613.9	10582.0	
65°		8500.5	8480.1	8408.3	8355.0	8472.3	8796.6	9741.5	
70°		8115.3	8069.5	7860.1	7711.6	7725.3	7935.9	8838.5	
75°		7713.7	7640.9	7347.7	7049.7	6874.8	6945.7	7765.0	
80°		7288.0	7167.0	6873.3	6343.4	5901.7	5705.3	6350.0	
85°		6977.4	6829.7	6510.4	5846.1	4969.3	4257.9	4434.7	

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**Luminance values in cd/m<sup>2</sup>**

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

**siteco**

