

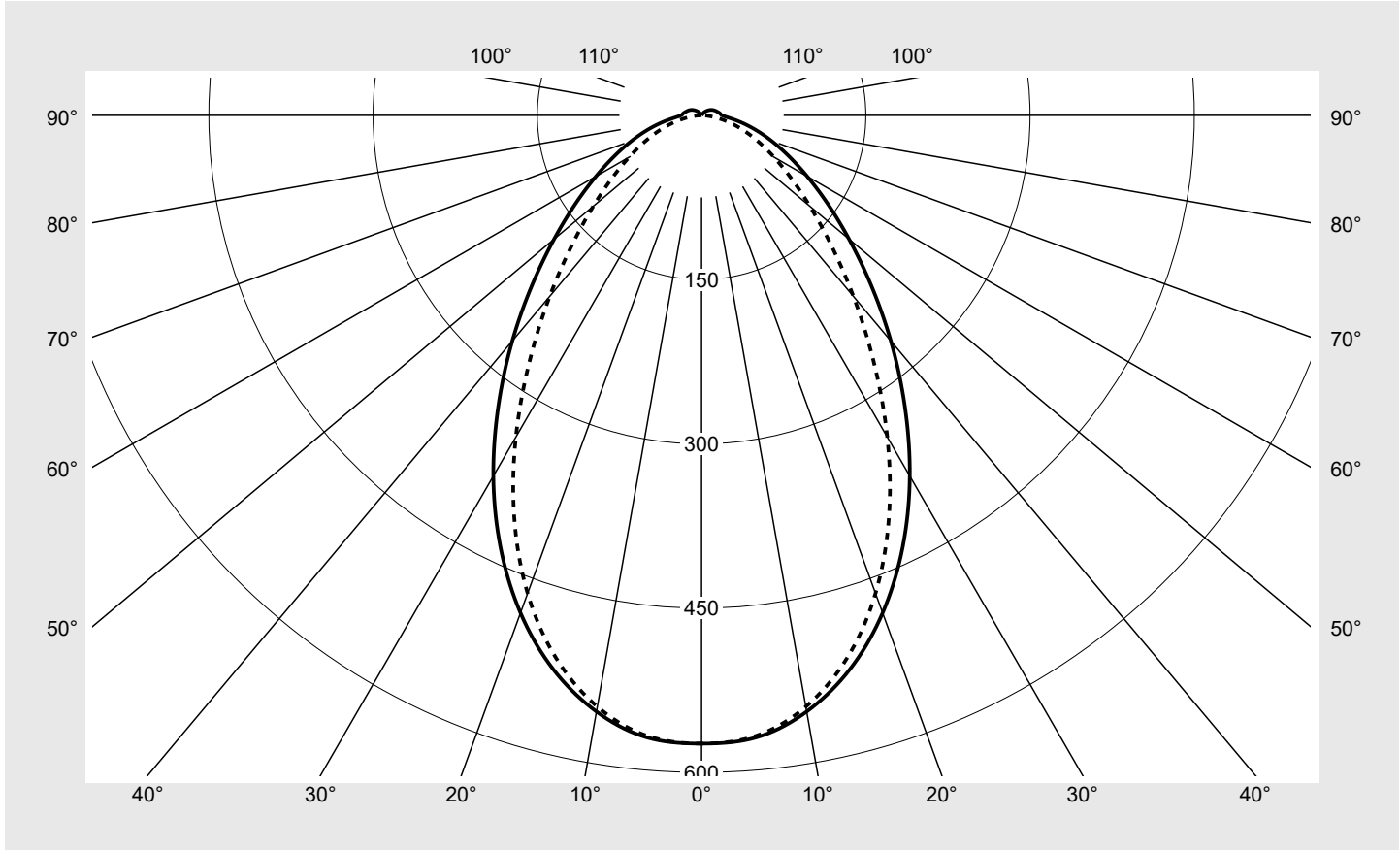


# Photometric test report

<b>Family</b> <b>Monsun® 12</b>	<b>Order number: 51FP12MP4B0Q</b> <b>EAN: 4058352376485</b>	<b>LP number</b> <b>59017_2</b>
	<b>Version</b> prismatic diffuser, opal, PMMA, medium distribution <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG Multilumen <b>Rated values</b> Net luminous flux = 11850 lm Power consumption = 66.2 W Luminous efficacy = 179 lm/W	<b>serial documentation</b> <b>08.04.2020</b>
		

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 574 cd/klm**



Classifications	
DIN 5040	A 5 1
CIE	N1=62 N2=86 N3=96 N4=97 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	96.8%
$\phi_o$	3.2%

**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°	573.7	573.7	573.7	573.7	573.7	573.7	573.7	3.4	3.4
5°	570.3	568.6	565.3	566.8	568.6	568.5	568.9	27.1	30.6
10°	552.9	551.6	547.6	548.1	548.9	548.2	548.3	52.3	82.8
15°	523.6	522.5	517.4	516.3	515.5	513.5	513.2	73.4	156.2
20°	483.5	482.3	475.8	472.1	469.2	465.4	464.5	88.7	244.9
25°	434.8	433.2	425.0	418.2	412.4	406.6	404.9	97.1	342.0
30°	380.4	378.4	368.5	358.6	349.5	341.7	339.2	98.5	440.5
35°	323.5	320.9	310.2	297.8	285.8	276.6	273.8	93.8	534.3
40°	268.9	265.8	255.1	241.2	228.3	218.7	215.7	85.2	619.6
45°	218.7	215.3	205.0	191.3	178.8	169.7	167.2	74.5	694.0
50°	175.8	172.3	163.5	150.9	139.4	131.2	129.1	63.7	757.7
55°	140.4	137.2	129.8	118.8	108.7	101.5	99.7	53.6	811.3
60°	111.3	108.7	102.5	93.3	84.6	78.2	76.4	44.4	855.7
65°	87.6	85.4	80.2	72.6	65.4	59.6	57.6	36.1	891.8
70°	67.9	66.3	61.5	55.4	49.2	44.0	41.8	28.4	920.2
75°	51.0	49.6	45.6	40.4	35.0	30.3	27.9	21.2	941.4
80°	36.3	35.1	32.0	27.3	22.3	18.0	15.5	14.5	955.9
85°	24.8	23.8	21.1	17.0	12.4	8.3	5.7	8.9	964.8
90°	18.7	17.8	15.3	11.6	7.2	3.2	0.9	5.9	970.7
95°	17.1	16.3	14.0	10.5	6.3	2.5	0.8	5.3	976.0
100°	15.6	14.8	12.6	9.3	5.4	1.8	0.7	4.7	980.7
105°	14.2	13.4	11.2	8.0	4.4	1.2	0.6	4.0	984.7
110°	12.8	12.0	9.8	6.8	3.4	0.8	0.6	3.4	988.1
115°	11.5	10.5	8.5	5.6	2.5	0.8	0.6	2.8	990.9
120°	9.9	9.0	7.2	4.5	1.8	0.8	0.7	2.3	993.2
125°	8.3	7.4	5.7	3.3	1.2	0.8	0.7	1.7	994.9
130°	6.6	5.9	4.3	2.4	1.2	0.9	0.9	1.3	996.2
135°	5.0	4.4	3.2	1.7	1.3	1.0	1.0	0.9	997.2
140°	3.5	3.0	2.2	1.6	1.4	1.2	1.2	0.7	997.8
145°	2.3	2.1	1.9	1.7	1.5	1.4	1.4	0.5	998.4
150°	2.0	2.0	1.9	1.7	1.5	1.4	1.4	0.5	998.9
155°	2.0	1.9	1.8	1.7	1.5	1.5	1.5	0.4	999.3
160°	1.8	1.8	1.7	1.6	1.5	1.5	1.5	0.3	999.6
165°	1.5	1.6	1.6	1.5	1.5	1.5	1.5	0.2	999.8
170°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.1	999.9
175°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.1	1000.0
180°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	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	21.5	23.0	21.8	23.3	23.6	20.4	21.9	20.8	22.2	22.6
	3H	22.6	23.9	22.9	24.3	24.6	21.3	22.7	21.7	23.0	23.4
	4H	23.1	24.3	23.4	24.7	25.1	21.7	23.0	22.1	23.3	23.7
	6H	23.5	24.6	23.9	25.0	25.4	21.9	23.1	22.3	23.5	23.9
	8H	23.7	24.7	24.1	25.1	25.5	22.0	23.1	22.5	23.5	23.9
	12H	23.8	24.8	24.3	25.2	25.6	22.1	23.1	22.5	23.5	23.9
4H	2H	21.8	23.1	22.2	23.5	23.8	21.0	22.2	21.4	22.6	23.0
	3H	23.1	24.2	23.6	24.6	25.0	22.1	23.1	22.5	23.5	23.9
	4H	23.7	24.7	24.2	25.1	25.6	22.5	23.5	23.0	23.9	24.3
	6H	24.3	25.1	24.7	25.6	26.0	22.9	23.7	23.3	24.1	24.6
	8H	24.5	25.3	25.0	25.7	26.2	23.0	23.7	23.4	24.2	24.7
	12H	24.8	25.4	25.2	25.9	26.4	23.0	23.7	23.5	24.2	24.7
8H	4H	23.9	24.7	24.4	25.1	25.6	22.8	23.6	23.3	24.0	24.5
	6H	24.6	25.2	25.1	25.7	26.2	23.3	23.9	23.8	24.4	24.9
	8H	24.9	25.5	25.4	25.9	26.5	23.4	24.0	23.9	24.5	25.0
	12H	25.2	25.7	25.7	26.2	26.7	23.5	24.0	24.0	24.5	25.0
12H	4H	23.9	24.6	24.4	25.1	25.6	22.9	23.6	23.4	24.0	24.5
	6H	24.6	25.2	25.1	25.7	26.2	23.4	23.9	23.9	24.4	24.9
	8H	25.0	25.4	25.5	25.9	26.5	23.5	24.0	24.1	24.5	25.1

<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°		21347.2	21092.4	20433.3	19635.8	19131.9	19115.6	19993.0	
50°		18193.5	17914.4	17335.9	16561.6	16053.3	16042.6	16940.5	
55°		15598.3	15315.3	14822.6	14119.0	13658.6	13684.7	14615.3	
60°		13449.2	13205.0	12780.1	12184.1	11798.3	11846.6	12797.5	
65°		11698.6	11487.9	11119.7	10614.3	10326.4	10397.7	11355.1	
70°		10219.8	10068.3	9678.6	9279.5	9039.3	9123.5	10105.6	
75°		8873.4	8725.4	8359.1	8005.1	7747.5	7822.0	8792.4	
80°		7568.5	7400.7	7105.7	6656.0	6298.6	6240.5	7117.8	
85°		6484.9	6305.9	5996.4	5467.9	4855.3	4372.0	4852.3	

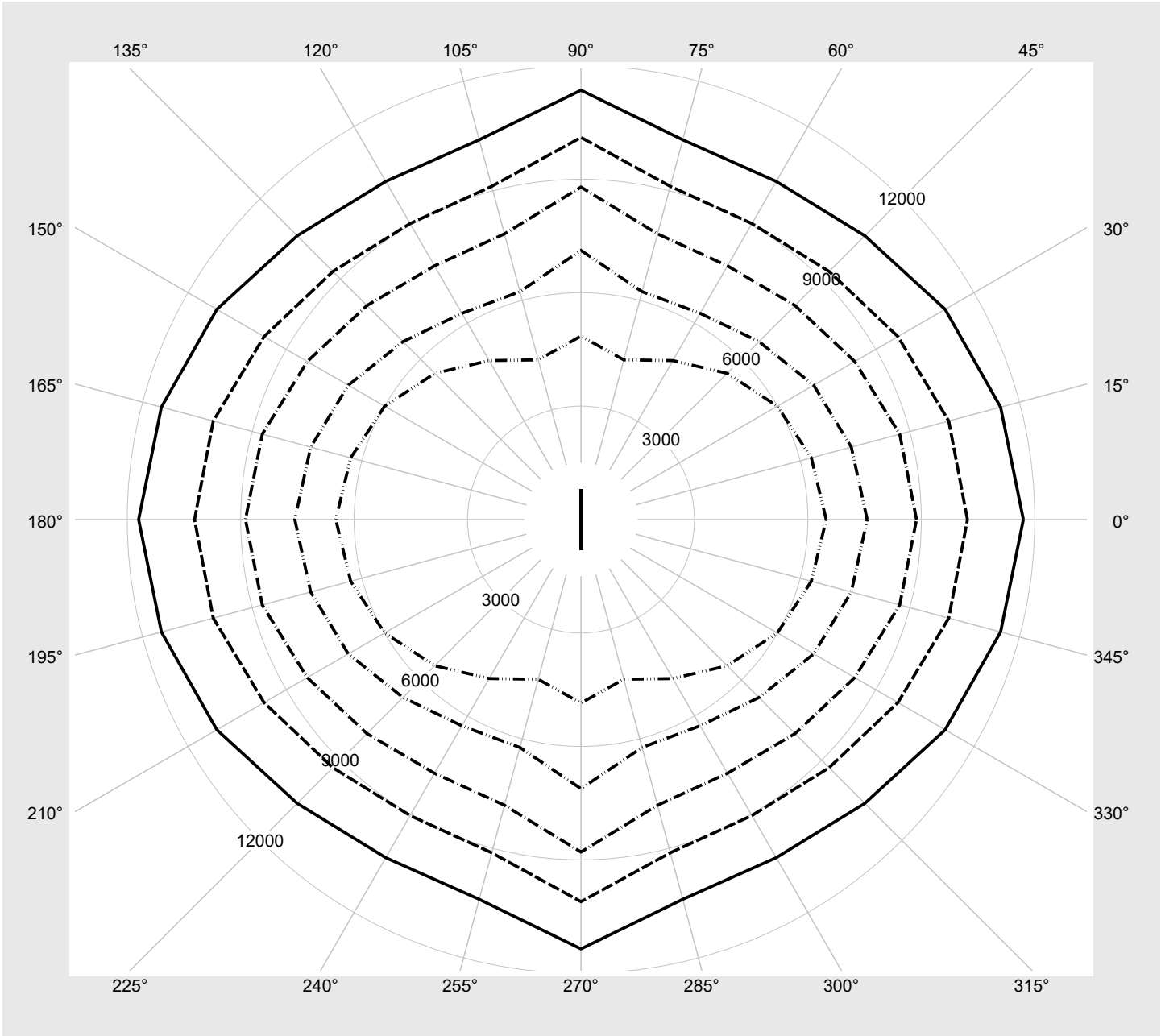
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**Luminance values in cd/m<sup>2</sup>**

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



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<b>Multilumen Table</b>	environmental temperature: 25°C	
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DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
1	A	C	E	11850	66.2
2	A	C	F	11190	62.3
3	A	D	E	10610	58.8
4	A	D	F	10090	55.8
5	B	C	E	9500	52.3
6	B	C	F	8970	49.4
7	B	D	E	8520	46.8
8	B	D	F	7920	43.4