
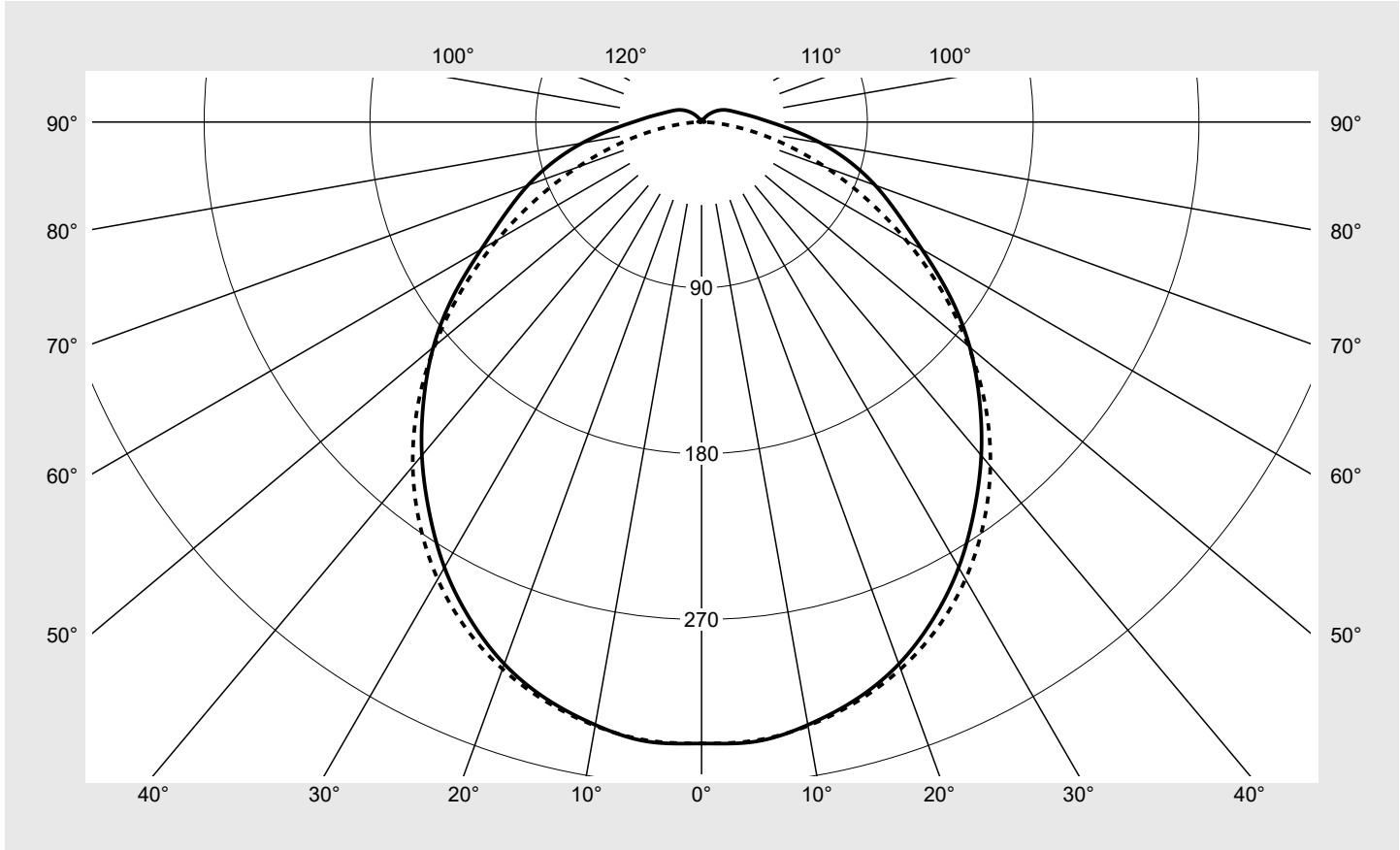


# Photometric test report

<b>Family</b> <b>Monsun® 12</b>	<b>Order number: 51FF40MP460H</b> <b>EAN: 4058352376188</b>	<b>LP number</b> <b>59020_3</b>
	<b>Version</b> prismatic diffuser, opal, PMMA, impact resistant, wide distribution <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG Multilumen <b>Rated values</b> Net luminous flux = 6110 lm Power consumption = 33.5 W Luminous efficacy = 182.4 lm/W	<b>serial documentation</b> <b>07.05.2020</b>
		

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 338 cd/klm**



Classifications	
DIN 5040	A 4 1
CIE	N1=47 N2=77 N3=93 N4=95 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	94.8%
$\phi_o$	5.2%

**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 $\gamma$	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°	337.3	337.3	337.3	337.3	337.3	337.3	337.3	2.0	2.0
5°	337.5	336.4	334.5	335.8	337.2	336.9	336.9	16.1	18.1
10°	332.2	331.9	329.8	331.2	333.0	332.9	332.8	31.6	49.7
15°	324.3	324.6	322.6	323.9	325.4	325.8	325.7	46.0	95.7
20°	313.1	314.1	312.1	313.6	315.1	315.7	315.9	58.9	154.6
25°	297.5	298.9	297.5	299.8	301.9	302.4	303.0	69.5	224.1
30°	279.2	281.0	279.9	281.8	284.8	285.5	286.5	77.5	301.6
35°	257.9	260.0	259.0	261.1	264.4	265.2	266.6	82.4	384.0
40°	236.2	237.9	236.5	237.1	240.1	242.3	243.9	84.2	468.2
45°	213.3	214.4	212.9	211.4	213.4	215.8	217.9	82.9	551.1
50°	190.1	190.6	188.8	186.3	185.4	186.8	189.1	78.9	630.0
55°	164.5	165.1	164.4	160.2	157.7	156.9	158.8	72.3	702.3
60°	138.1	138.1	137.0	134.7	130.2	127.4	128.2	63.3	765.6
65°	117.3	116.4	112.4	108.2	104.2	99.4	98.8	53.7	819.3
70°	100.3	99.0	91.7	84.5	79.3	73.6	71.6	44.1	863.5
75°	83.2	81.7	74.7	65.1	57.1	50.8	47.3	34.8	898.3
80°	65.8	64.5	59.3	48.9	38.3	30.8	26.4	25.9	924.2
85°	49.5	48.3	44.5	35.6	23.7	15.0	10.1	17.9	942.1
90°	37.1	36.3	33.4	26.4	15.8	6.7	2.1	12.6	954.7
95°	29.4	28.9	27.0	22.0	13.4	5.0	1.8	10.2	964.9
100°	23.9	23.5	21.8	17.7	11.0	3.7	1.6	8.1	973.0
105°	20.2	19.6	17.9	14.3	8.4	2.4	1.4	6.5	979.5
110°	17.5	16.7	15.0	11.5	6.2	1.4	1.2	5.2	984.7
115°	15.3	14.5	12.7	9.2	4.4	1.2	1.1	4.2	988.8
120°	13.2	12.3	10.5	7.1	2.9	1.2	1.0	3.2	992.1
125°	11.0	10.1	8.2	5.1	1.7	1.1	1.0	2.4	994.5
130°	8.6	7.8	6.1	3.4	1.3	1.0	1.0	1.7	996.2
135°	6.4	5.7	4.2	2.0	1.3	1.0	1.0	1.2	997.3
140°	4.2	3.7	2.5	1.6	1.3	1.1	1.1	0.7	998.1
145°	2.4	2.1	1.8	1.6	1.3	1.1	1.1	0.5	998.6
150°	1.9	1.8	1.7	1.5	1.2	1.2	1.2	0.4	999.0
155°	1.7	1.7	1.6	1.5	1.3	1.3	1.3	0.3	999.4
160°	1.6	1.6	1.5	1.3	1.3	1.3	1.3	0.3	999.6
165°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.2	999.8
170°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.1	999.9
175°	1.3	1.3	1.3	1.3	1.3	1.4	1.4	0.1	1000.0
180°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	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	20.0	21.7	20.4	22.0	22.4	20.3	22.0	20.7	22.3	22.6
	3H	21.7	23.2	22.0	23.5	23.9	21.6	23.2	22.0	23.5	23.8
	4H	22.5	23.9	22.9	24.3	24.6	22.1	23.6	22.5	23.9	24.3
	6H	23.2	24.6	23.6	24.9	25.3	22.4	23.8	22.8	24.2	24.5
	8H	23.6	24.8	24.0	25.2	25.6	22.6	23.8	23.0	24.2	24.6
	12H	23.9	25.1	24.3	25.5	25.9	22.6	23.8	23.0	24.2	24.6
4H	2H	20.7	22.2	21.1	22.5	22.9	20.9	22.4	21.3	22.7	23.1
	3H	22.5	23.8	23.0	24.2	24.6	22.4	23.7	22.9	24.1	24.5
	4H	23.5	24.6	23.9	25.0	25.4	23.0	24.2	23.5	24.6	25.0
	6H	24.4	25.4	24.9	25.8	26.3	23.5	24.5	23.9	24.9	25.3
	8H	24.8	25.7	25.3	26.2	26.6	23.6	24.5	24.1	25.0	25.4
	12H	25.2	26.0	25.7	26.5	27.0	23.7	24.5	24.2	25.0	25.5
8H	4H	23.8	24.7	24.3	25.1	25.6	23.4	24.3	23.9	24.7	25.2
	6H	24.9	25.7	25.4	26.1	26.6	24.0	24.7	24.4	25.2	25.7
	8H	25.4	26.1	25.9	26.6	27.1	24.2	24.8	24.7	25.3	25.8
	12H	26.0	26.6	26.5	27.1	27.6	24.3	24.9	24.8	25.4	25.9
12H	4H	23.8	24.7	24.3	25.1	25.6	23.5	24.3	24.0	24.7	25.2
	6H	25.0	25.6	25.5	26.1	26.6	24.1	24.8	24.6	25.3	25.8
	8H	25.6	26.2	26.1	26.7	27.2	24.4	24.9	24.9	25.4	26.0

<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°		10734.6	10828.7	10938.9	11190.4	11776.7	12538.3	13435.5	
50°		10142.7	10215.0	10322.7	10542.4	11007.3	11780.7	12793.5	
55°		9420.2	9502.4	9676.6	9812.4	10213.5	10908.3	12005.0	
60°		8602.3	8656.6	8813.0	9068.9	9358.7	9953.3	11068.9	
65°		8081.2	8070.3	8033.6	8161.4	8488.0	8943.5	10046.1	
70°		7788.3	7751.9	7436.3	7299.6	7513.4	7875.0	8923.8	
75°		7468.4	7409.2	7062.4	6644.3	6527.4	6762.4	7694.3	
80°		7070.0	7007.6	6786.1	6152.7	5568.9	5484.8	6238.3	
85°		6669.2	6615.0	6510.8	5897.6	4789.0	4082.1	4426.5	

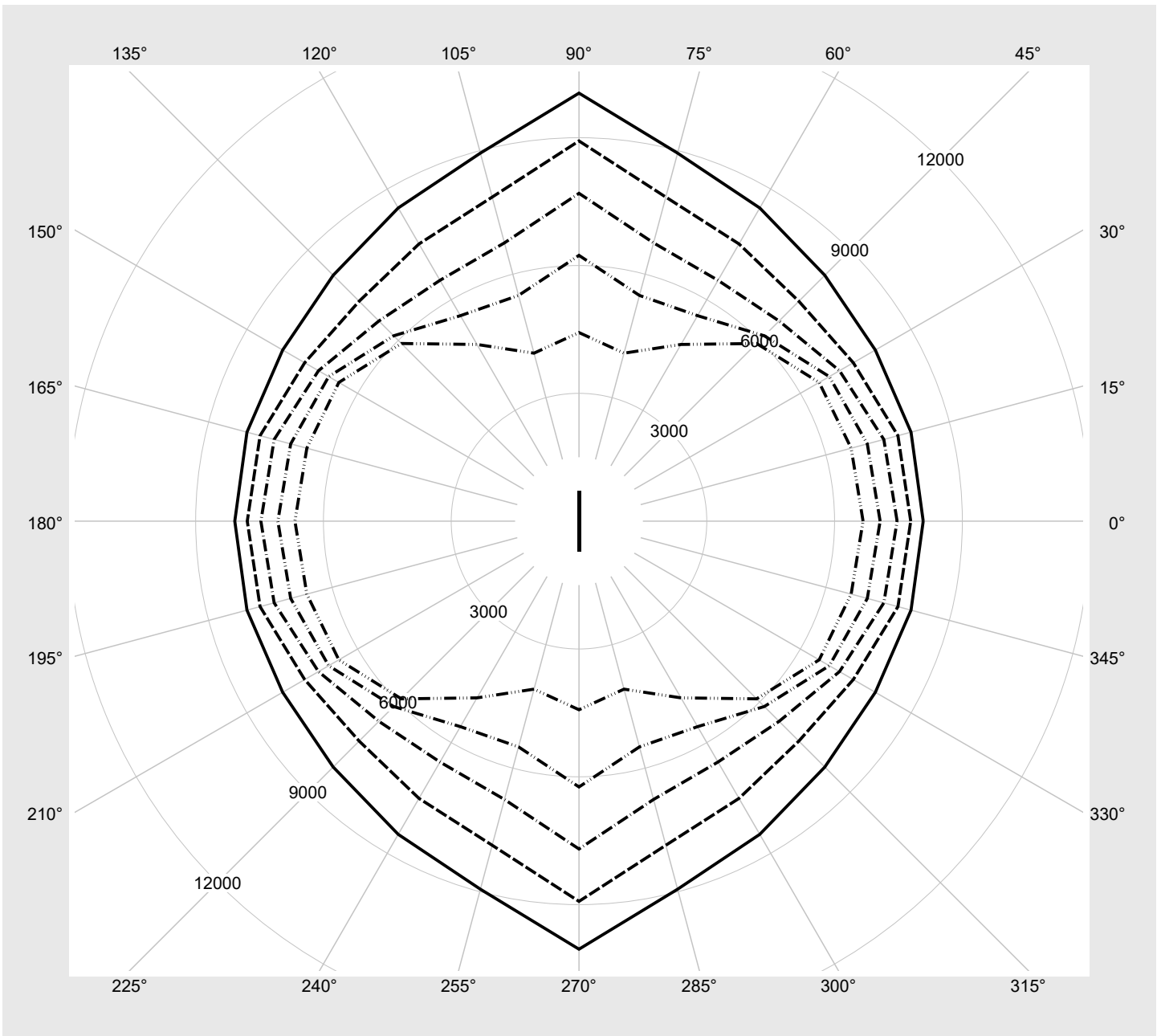
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**Luminance values in cd/m<sup>2</sup>**

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



## Photometric test report

Family  
Monsun® 12

Order number: 51FF40MP460H  
EAN: 4058352376188

LP number  
59020\_3

### Multilumen Table

environmental temperature: 25°C

siteco

DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
1	A	C	E	6110	33.5
2	A	C	F	5880	32.2
3	A	D	E	5580	30.5
4	A	D	F	5270	28.8
5	B	C	E	4960	27.1
6	B	C	F	4650	25.4
7	B	D	E	4340	23.7
8	B	D	F	4180	22.9