
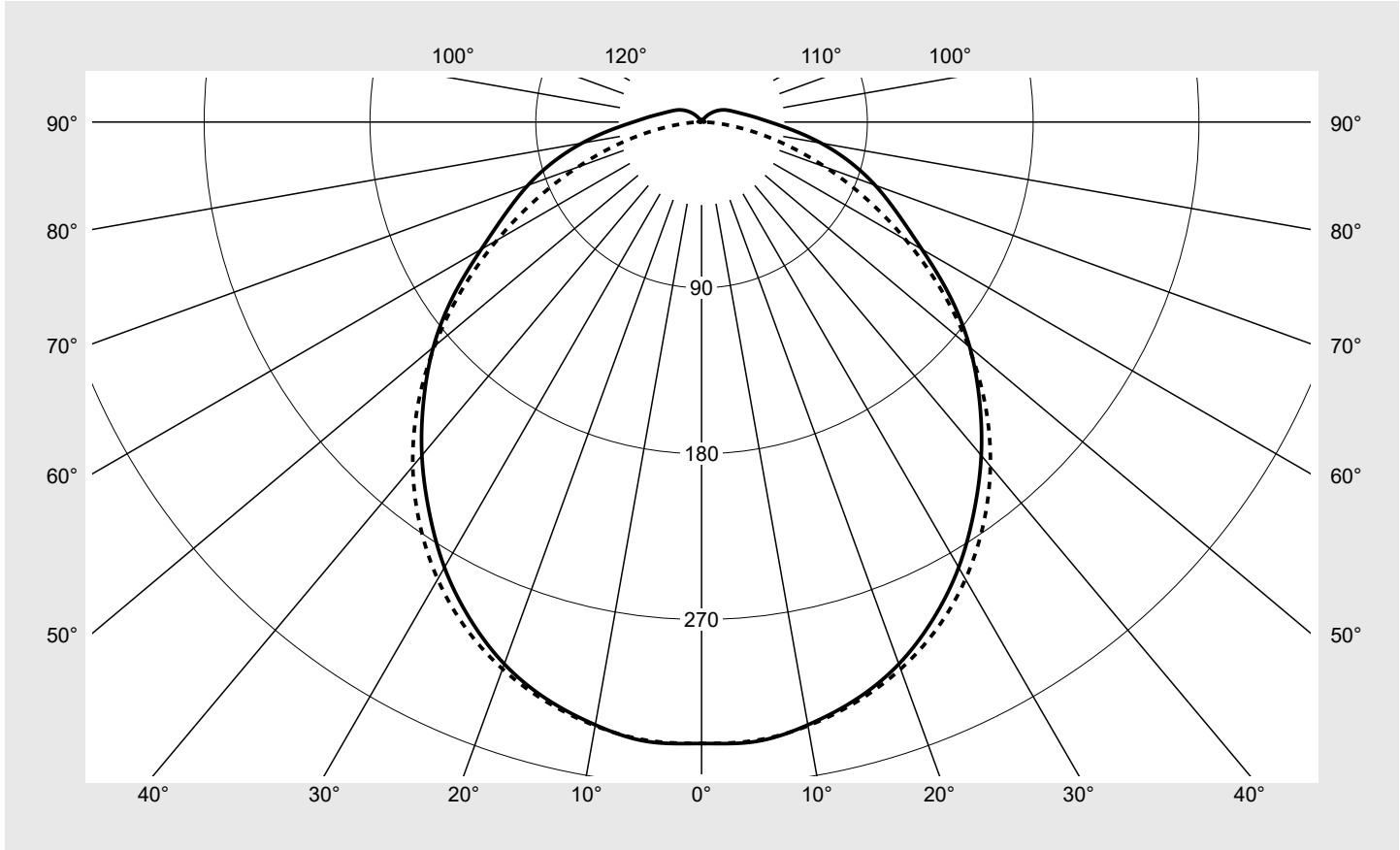


# Photometric test report

<b>Family</b> <b>Monsun® 12</b>	<b>Order number: 51FF40MP360H</b> <b>EAN: 4058352820209</b>	<b>LP number</b> <b>59020_4</b>
	<b>Version</b> prismatic diffuser, opal, PMMA, impact resistant, wide distribution <b>Lamps</b> LED 3000 K   CRI ≥ 80 <b>Controlgear</b> ECG Multilumen <b>Rated values</b> Net luminous flux = 5790 lm Power consumption = 33.6 W Luminous efficacy = 172.3 lm/W	<b>serial documentation</b> <b>13.03.2023</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	19.8	21.5	20.2	21.9	22.2	20.1	21.8	20.5	22.1	22.5
	3H	21.5	23.0	21.9	23.4	23.7	21.4	23.0	21.8	23.3	23.7
	4H	22.3	23.7	22.7	24.1	24.4	21.9	23.4	22.3	23.7	24.1
	6H	23.0	24.4	23.4	24.7	25.1	22.3	23.6	22.7	24.0	24.4
	8H	23.4	24.6	23.8	25.0	25.4	22.4	23.6	22.8	24.0	24.4
	12H	23.7	24.9	24.1	25.3	25.7	22.4	23.6	22.9	24.0	24.4
4H	2H	20.5	22.0	20.9	22.3	22.7	20.8	22.2	21.1	22.5	22.9
	3H	22.4	23.6	22.8	24.0	24.4	22.2	23.5	22.7	23.9	24.3
	4H	23.3	24.4	23.7	24.8	25.3	22.8	24.0	23.3	24.4	24.8
	6H	24.2	25.2	24.7	25.6	26.1	23.3	24.3	23.7	24.7	25.2
	8H	24.6	25.5	25.1	26.0	26.4	23.4	24.3	23.9	24.8	25.2
	12H	25.0	25.8	25.5	26.3	26.8	23.5	24.3	24.0	24.8	25.3
8H	4H	23.6	24.5	24.1	25.0	25.4	23.2	24.1	23.7	24.5	25.0
	6H	24.7	25.5	25.2	25.9	26.4	23.8	24.5	24.3	25.0	25.5
	8H	25.2	25.9	25.7	26.4	26.9	24.0	24.7	24.5	25.1	25.7
	12H	25.8	26.4	26.3	26.9	27.4	24.1	24.7	24.6	25.2	25.7
12H	4H	23.7	24.5	24.1	24.9	25.4	23.3	24.1	23.8	24.6	25.0
	6H	24.8	25.5	25.3	25.9	26.5	23.9	24.6	24.4	25.1	25.6
	8H	25.4	26.0	25.9	26.5	27.0	24.2	24.8	24.7	25.3	25.8

<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°	10172.4	10261.6	10366.0	10604.4	11159.9	11881.7	12731.9	
	50°	9611.5	9680.0	9782.0	9990.3	10430.8	11163.7	12123.5	
	55°	8926.8	9004.7	9169.8	9298.5	9678.6	10337.0	11376.2	
	60°	8151.8	8203.3	8351.4	8594.0	8868.6	9432.0	10489.2	
	65°	7658.0	7647.7	7612.8	7734.0	8043.5	8475.1	9519.9	
	70°	7380.4	7345.9	7046.9	6917.3	7119.9	7462.6	8456.4	
	75°	7077.3	7021.2	6692.5	6296.3	6185.6	6408.3	7291.3	
	80°	6699.7	6640.6	6430.7	5830.5	5277.2	5197.6	5911.5	
	85°	6319.9	6268.6	6169.8	5588.7	4538.2	3868.3	4194.7	

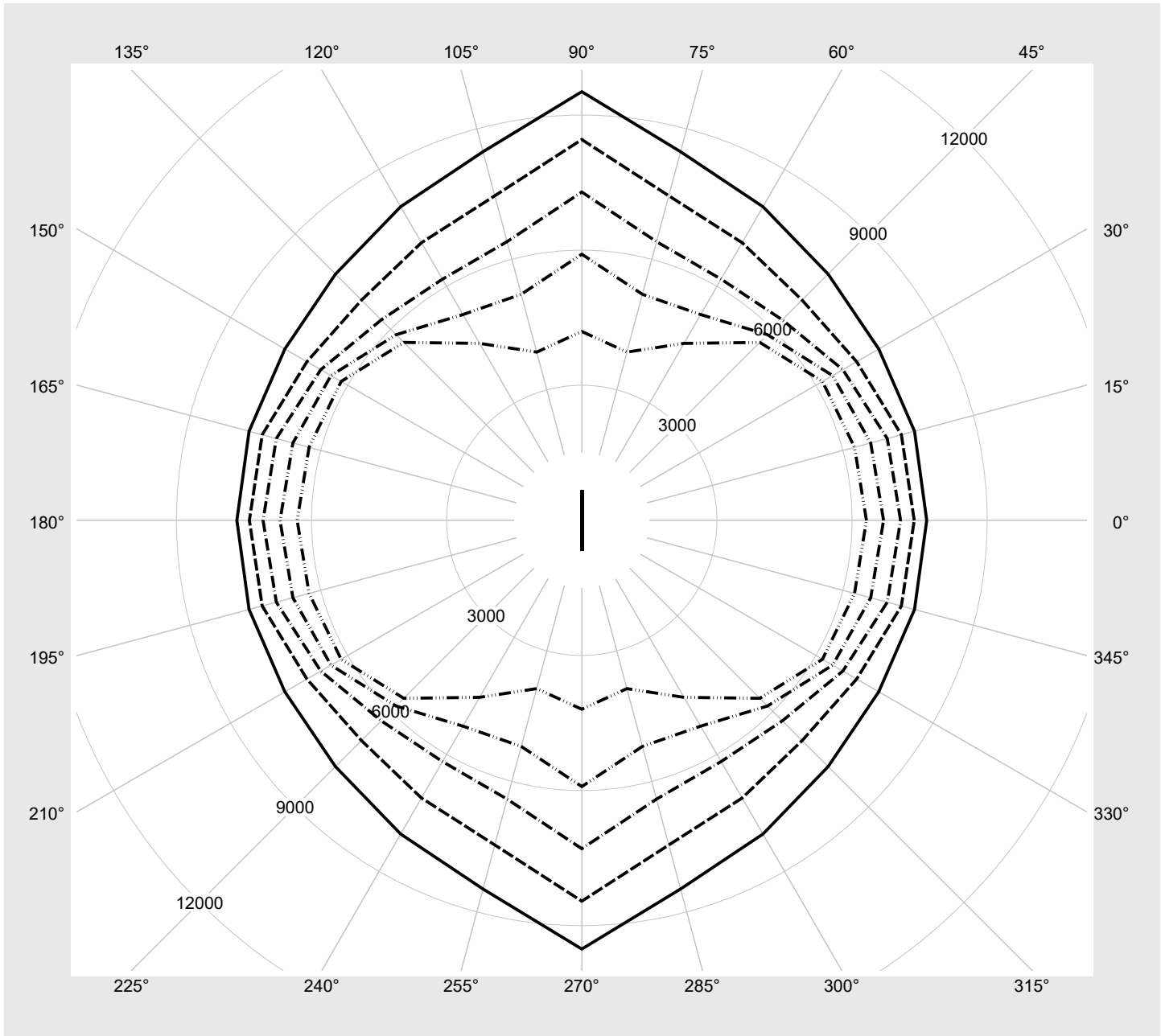
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**Luminance values in cd/m<sup>2</sup>**

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

**siteco**



## Photometric test report

Family  
Monsun® 12

Order number: 51FF40MP360H  
EAN: 4058352820209

LP number  
59020\_4

### Multilumen Table

environmental temperature: 25°C

siteco

DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
1	A	C	E	5790	33.6
2	A	C	F	5580	32.3
3	A	D	E	5290	30.6
4	A	D	F	5000	28.9
5	B	C	E	4710	27.2
6	B	C	F	4410	25.5
7	B	D	E	4110	23.8
8	B	D	F	3960	22.9