

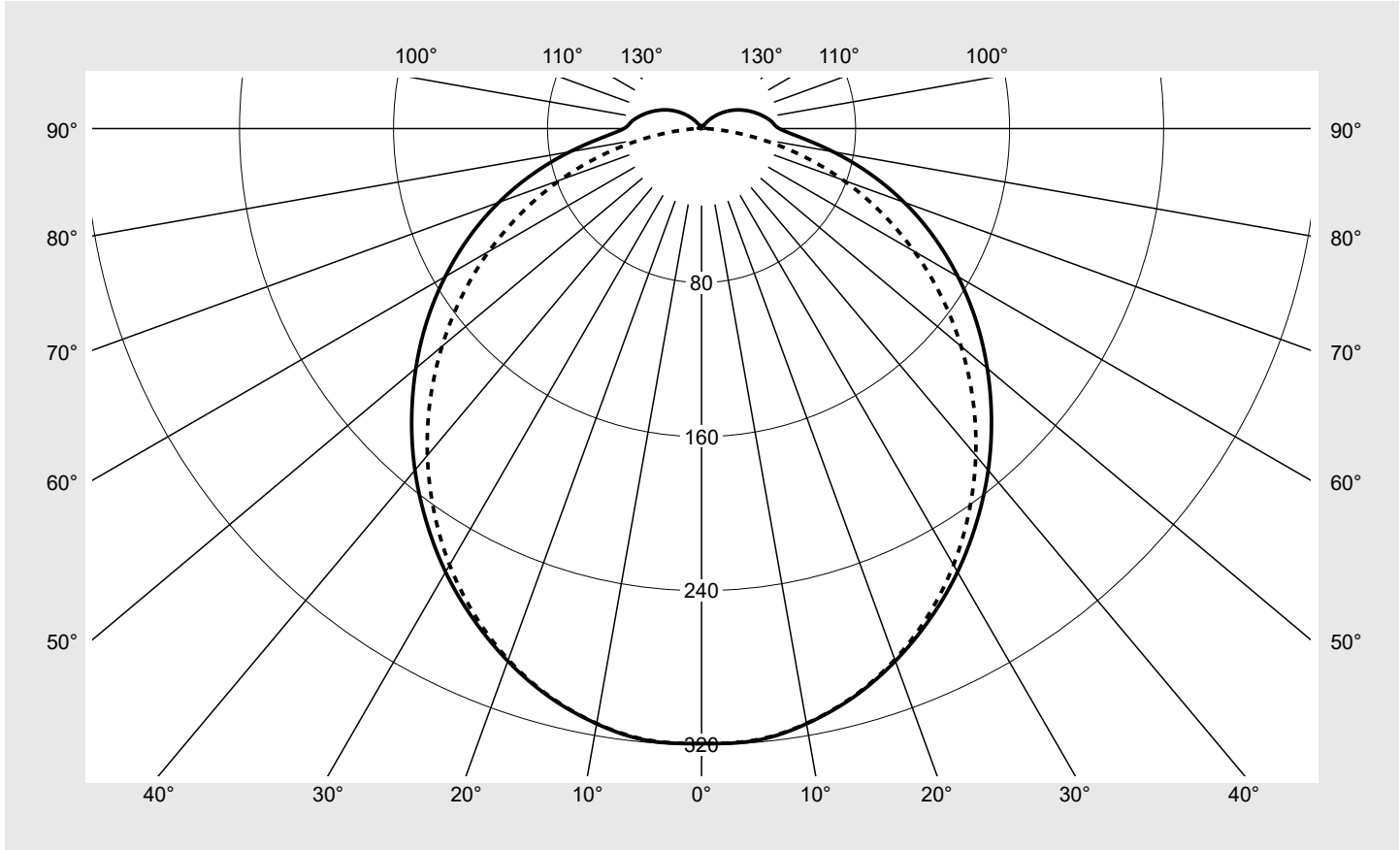


# Photometric test report

<b>Family</b> <b>Monsun® 12</b>	<b>Order number: 51FP20MP4B0Q</b> <b>EAN: 4058352389836</b>	<b>LP number</b> <b>59060_42</b>
	<b>Version</b> prismatic diffuser, opal, polycarbonate, wide distribution <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG Multilumen <b>Rated values</b> Net luminous flux = 10910 lm Power consumption = 66.2 W Luminous efficacy = 164.8 lm/W	<b>serial documentation</b> <b>26.08.2020</b>  

**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 319 cd/klm**



Classifications	
DIN 5040	A 4 1
CIE	N1=45 N2=75 N3=93 N4=94 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	93.7%
$\phi_o$	6.3%

**Measurement conditions**  
DIN EN 13032 and DIN 5032

## Photometric test report

<b>Family</b> <b>Monsun® 12</b>	<b>Order number: 51FP20MP4B0Q</b> <b>EAN: 4058352389836</b>	<b>LP number</b> <b>59060_42</b>
<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°	319.4	319.4	319.4	319.4	319.4	319.4	319.4	1.9	1.9
5°	319.1	317.8	316.0	317.2	318.6	318.6	318.8	15.2	17.1
10°	313.9	312.8	311.0	312.1	313.5	313.5	313.7	29.8	46.9
15°	305.6	304.7	302.7	303.7	305.0	304.9	305.2	43.2	90.1
20°	294.3	293.5	291.4	292.2	293.3	293.1	293.5	54.9	145.0
25°	280.9	280.2	277.7	277.9	278.8	278.5	278.8	64.6	209.6
30°	265.9	265.3	262.4	261.6	261.9	261.4	261.7	72.0	281.6
35°	249.2	248.5	245.6	243.7	242.9	242.2	242.4	77.0	358.5
40°	231.6	230.8	227.5	224.6	222.7	221.4	221.6	79.5	438.0
45°	212.9	211.8	208.5	204.2	201.3	199.0	199.4	79.5	517.5
50°	193.7	192.3	188.8	183.7	179.4	175.9	176.0	77.3	594.9
55°	174.1	172.4	168.8	162.7	157.2	152.3	152.1	73.1	667.9
60°	153.8	152.1	148.1	141.4	134.9	128.8	127.5	66.9	734.9
65°	133.1	131.4	127.0	119.9	112.8	105.5	102.8	59.2	794.0
70°	112.0	110.4	105.0	98.0	90.2	82.2	78.2	49.9	843.9
75°	90.5	88.8	83.0	75.7	67.3	58.8	53.6	39.3	883.2
80°	69.4	67.4	62.0	54.0	45.3	36.4	30.4	28.3	911.6
85°	51.2	49.1	43.8	35.9	26.7	17.7	11.3	18.6	930.2
90°	40.3	38.3	33.0	25.3	16.4	7.5	1.9	12.9	943.1
95°	36.9	35.1	30.2	22.8	14.1	5.6	1.6	11.6	954.7
100°	33.7	31.9	27.1	20.1	11.9	4.0	1.5	10.1	964.8
105°	30.1	28.5	23.8	17.3	9.5	2.6	1.3	8.6	973.4
110°	26.5	24.6	20.5	14.4	7.3	1.5	1.2	7.1	980.4
115°	22.8	21.1	17.3	11.6	5.2	1.3	1.2	5.7	986.1
120°	19.1	17.5	14.1	8.9	3.4	1.3	1.1	4.4	990.5
125°	15.4	13.9	10.8	6.2	1.7	1.2	1.0	3.2	993.6
130°	11.8	10.5	7.7	3.9	1.4	1.2	1.0	2.2	995.8
135°	8.3	7.2	5.0	2.0	1.4	1.2	1.1	1.4	997.2
140°	5.1	4.3	2.5	1.6	1.3	1.1	1.0	0.8	998.0
145°	2.4	2.0	1.8	1.6	1.4	1.2	1.2	0.5	998.5
150°	1.9	1.9	1.8	1.5	1.4	1.3	1.2	0.4	999.0
155°	1.8	1.8	1.6	1.5	1.4	1.3	1.3	0.4	999.3
160°	1.6	1.6	1.5	1.5	1.4	1.4	1.3	0.3	999.6
165°	1.5	1.5	1.4	1.4	1.4	1.4	1.3	0.2	999.8
170°	1.4	1.4	1.4	1.4	1.4	1.4	1.3	0.1	999.9
175°	1.3	1.3	1.3	1.4	1.4	1.4	1.3	0.1	1000.0
180°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.0	1000.0

## Photometric test report

Family <b>Monsun® 12</b>	Order number: <b>51FP20MP4B0Q</b> EAN: <b>4058352389836</b>	LP number <b>59060_42</b>
-----------------------------	--	------------------------------

UGR-Table	Standard room	siteco								
-----------	---------------	--------	--	--	--	--	--	--	--	--

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	22.4	24.1	22.8	24.4	24.8	22.2	23.9	22.6	24.3	24.6
	3H	24.2	25.8	24.6	26.1	26.5	23.8	25.3	24.1	25.7	26.0
	4H	25.0	26.5	25.4	26.9	27.2	24.4	25.9	24.8	26.2	26.6
	6H	25.8	27.1	26.2	27.5	27.9	24.8	26.2	25.2	26.5	26.9
	8H	26.1	27.4	26.5	27.8	28.2	24.9	26.2	25.4	26.6	27.0
	12H	26.4	27.6	26.8	28.0	28.4	25.0	26.2	25.4	26.6	27.1
4H	2H	23.1	24.6	23.5	25.0	25.3	23.0	24.5	23.4	24.8	25.2
	3H	25.1	26.4	25.6	26.8	27.2	24.7	26.0	25.2	26.4	26.8
	4H	26.1	27.3	26.5	27.7	28.1	25.5	26.6	25.9	27.0	27.5
	6H	27.0	28.0	27.4	28.4	28.9	26.0	27.0	26.5	27.5	27.9
	8H	27.4	28.3	27.8	28.7	29.2	26.2	27.1	26.6	27.6	28.0
	12H	27.7	28.6	28.2	29.0	29.5	26.3	27.1	26.8	27.6	28.1
8H	4H	26.4	27.4	26.9	27.8	28.3	25.9	26.8	26.4	27.3	27.8
	6H	27.5	28.3	28.0	28.7	29.2	26.6	27.4	27.1	27.8	28.3
	8H	28.0	28.7	28.5	29.2	29.7	26.8	27.5	27.3	28.0	28.5
	12H	28.5	29.1	29.0	29.6	30.1	27.0	27.6	27.5	28.1	28.6
12H	4H	26.5	27.3	27.0	27.8	28.3	26.0	26.8	26.5	27.3	27.8
	6H	27.6	28.3	28.1	28.7	29.3	26.7	27.4	27.2	27.9	28.4
	8H	28.1	28.7	28.6	29.2	29.8	27.0	27.6	27.5	28.1	28.7

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

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°		19133.5	19107.1	19128.6	19304.4	19827.6	20641.8	21946.4	
50°		18458.6	18404.5	18433.5	18560.7	19018.9	19804.1	21256.5	
55°		17803.3	17716.0	17742.5	17795.5	18184.1	18909.8	20524.6	
60°		17102.8	17016.4	17009.3	17007.3	17319.1	17971.9	19663.3	
65°		16366.2	16274.5	16199.9	16148.8	16399.0	16945.3	18647.3	
70°		15528.3	15427.0	15211.3	15118.0	15257.5	15699.8	17395.6	
75°		14504.7	14375.4	14017.9	13800.4	13735.8	13992.9	15577.8	
80°		13310.7	13075.8	12672.9	12126.4	11753.7	11590.5	12865.1	
85°		12336.6	12006.5	11441.0	10615.0	9610.4	8589.0	8898.6	

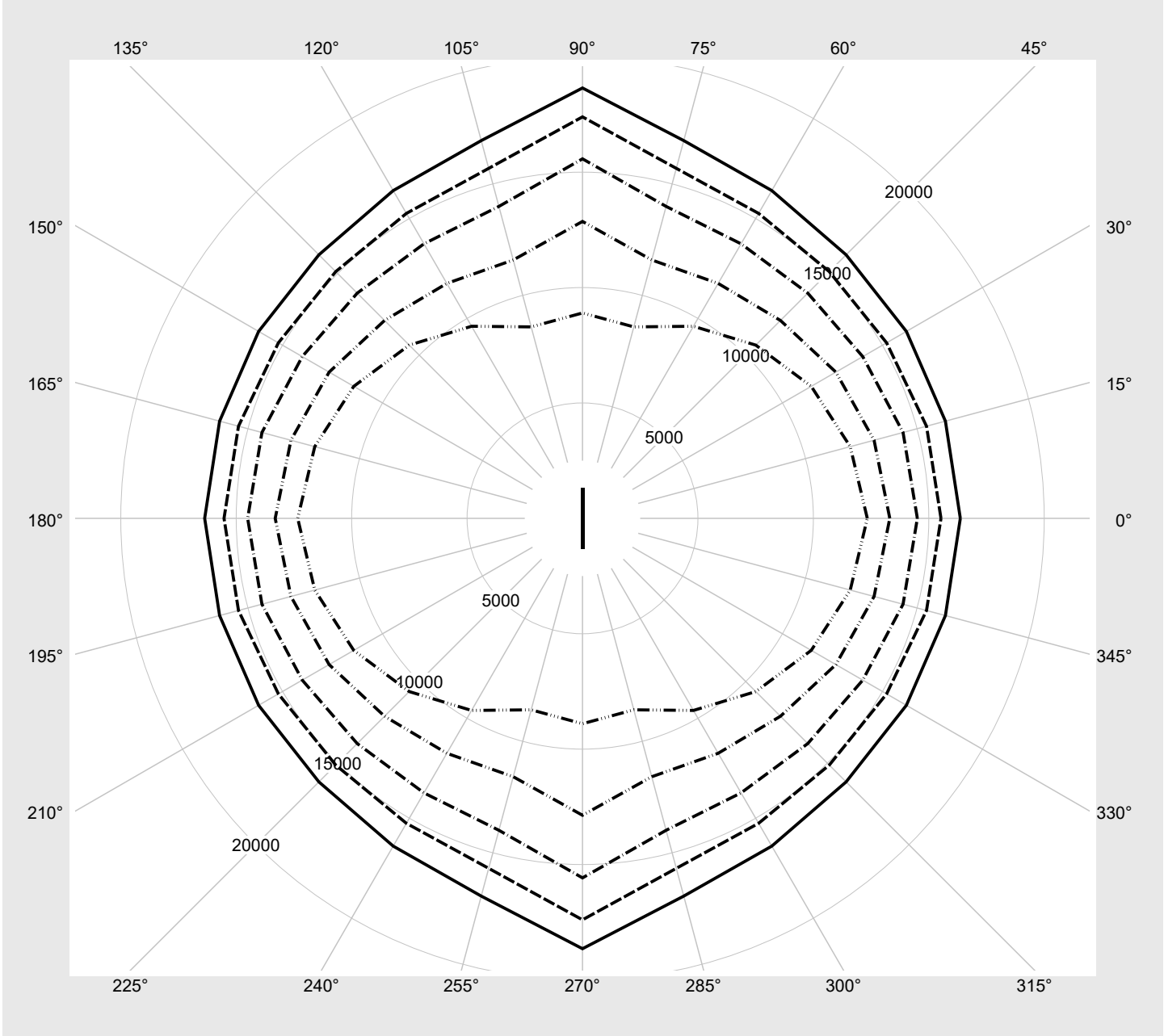
**Photometric test report**

<b>Family</b> <b>Monsun® 12</b>	<b>Order number: 51FP20MP4B0Q</b> <b>EAN: 4058352389836</b>	<b>LP number</b> <b>59060_42</b>
------------------------------------	--	-------------------------------------



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

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



## Photometric test report

Family  
Monsun® 12

Order number: 51FP20MP4B0Q  
EAN: 4058352389836

LP number  
59060\_42

### Multilumen Table

environmental temperature: 25°C

siteco

DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
1	A	C	E	10910	66.2
2	A	C	F	10300	62.3
3	A	D	E	9760	58.8
4	A	D	F	9290	55.8
5	B	C	E	8740	52.3
6	B	C	F	8260	49.4
7	B	D	E	7840	46.8
8	B	D	F	7290	43.4