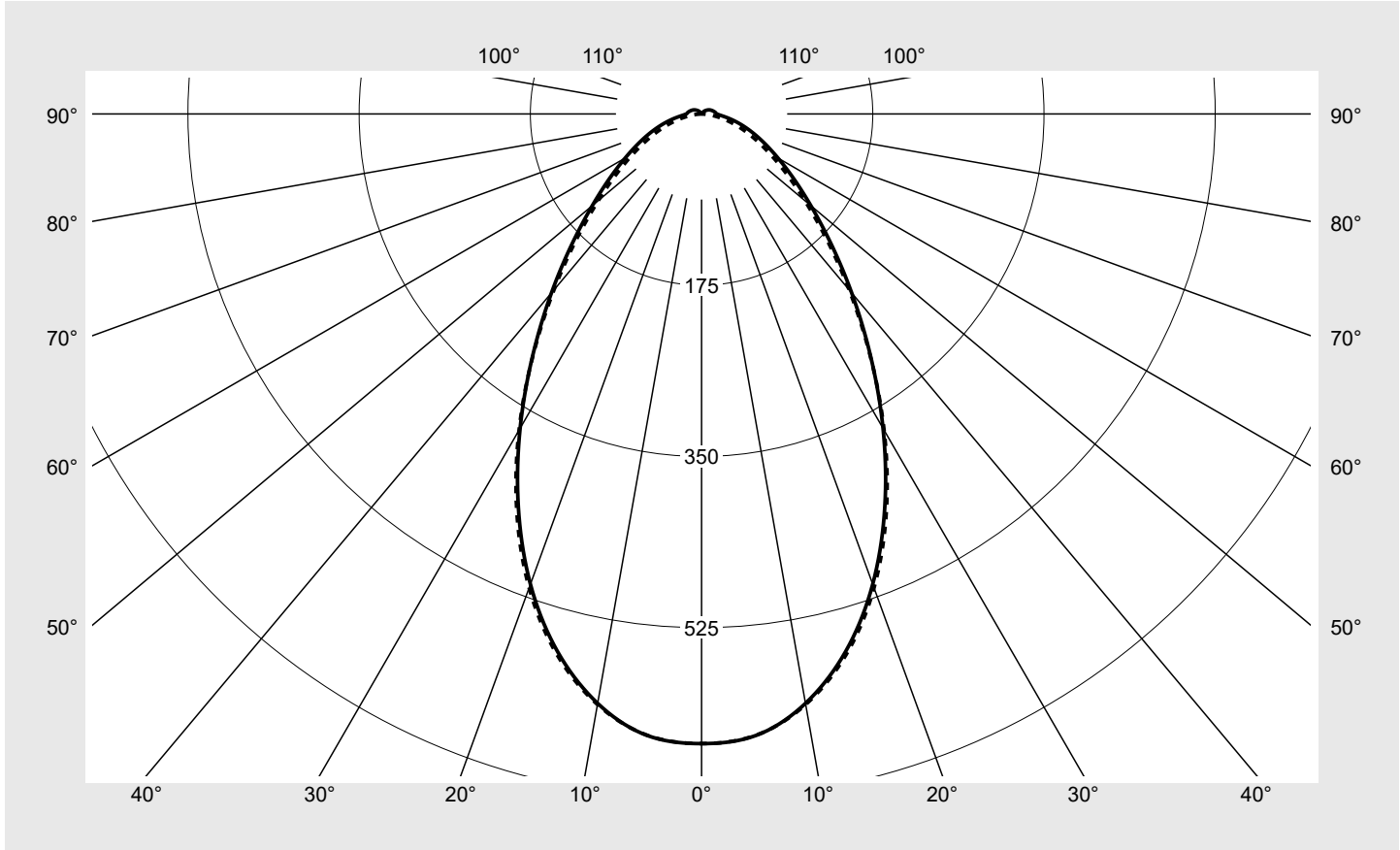


# Photometric test report

<b>Family</b> <b>Monsun® 21</b>	<b>Order number: 51FB12MP480B</b> <b>EAN: 4058352520116</b>	<b>LP number</b> <b>59014_7</b>
	<b>Version</b> prismatic diffuser, opal, PMMA, medium distribution	<b>serial documentation</b> <b>12.01.2023</b>
	<b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG Multilumen <b>Rated values</b> Net luminous flux = 8100 lm Power consumption = 53.6 W Luminous efficacy = 151.1 lm/W	
		

**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 643 cd/klm**



Classifications	
DIN 5040	A 5 1
CIE	N1=65 N2=88 N3=97 N4=97 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	97.2%
$\phi_o$	2.8%

**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 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°	643.5	643.5	643.5	643.5	643.5	643.5	643.5	3.8	3.8
5°	637.6	635.4	631.6	634.4	637.3	637.0	637.4	30.4	34.2
10°	611.6	610.1	606.4	609.4	612.4	612.4	612.8	58.1	92.3
15°	568.8	568.0	564.7	567.5	570.7	571.1	571.7	80.7	173.0
20°	511.5	511.1	508.3	510.7	513.9	514.6	515.3	96.0	269.0
25°	443.2	443.1	440.7	442.6	445.5	446.1	447.1	102.8	371.8
30°	371.0	371.1	368.7	369.7	371.9	372.2	373.1	101.7	473.5
35°	300.7	300.7	298.6	298.4	299.2	299.0	299.8	94.1	567.6
40°	238.7	238.3	236.6	235.1	234.9	234.3	234.7	83.1	650.7
45°	186.7	186.0	184.5	182.3	181.1	179.9	180.6	70.9	721.6
50°	145.8	145.0	143.8	141.4	139.3	137.5	137.9	59.4	781.0
55°	114.7	113.7	112.7	110.1	107.4	105.2	105.3	49.3	830.4
60°	90.2	89.4	88.3	85.7	82.9	80.3	79.9	40.5	870.8
65°	71.0	70.3	69.1	66.5	63.6	60.7	59.7	32.8	903.6
70°	55.2	54.7	53.0	50.5	47.5	44.4	43.0	25.7	929.3
75°	41.7	41.3	39.3	36.7	33.4	30.3	28.5	19.1	948.3
80°	30.0	29.4	27.6	24.6	21.1	17.9	15.8	12.9	961.2
85°	20.6	20.0	18.3	15.2	11.4	8.0	5.8	7.8	969.1
90°	15.7	15.1	13.3	10.2	6.4	3.0	0.9	5.1	974.2
95°	14.4	13.8	12.1	9.2	5.6	2.3	0.8	4.6	978.8
100°	13.2	12.6	10.9	8.1	4.8	1.7	0.7	4.1	982.9
105°	12.0	11.4	9.7	7.0	3.9	1.1	0.7	3.5	986.3
110°	10.8	10.1	8.4	5.9	3.0	0.8	0.6	2.9	989.2
115°	9.6	8.9	7.3	4.9	2.3	0.8	0.7	2.4	991.7
120°	8.3	7.6	6.1	3.9	1.6	0.8	0.7	1.9	993.6
125°	6.9	6.2	4.8	2.9	1.1	0.8	0.8	1.5	995.1
130°	5.5	4.9	3.7	2.2	1.1	1.0	0.9	1.1	996.2
135°	4.3	3.8	2.8	1.6	1.3	1.1	1.1	0.9	997.1
140°	3.1	2.8	2.1	1.6	1.5	1.3	1.3	0.7	997.7
145°	2.3	2.1	1.9	1.8	1.6	1.5	1.5	0.6	998.3
150°	2.1	2.0	2.0	1.8	1.6	1.6	1.6	0.5	998.8
155°	2.1	2.0	1.9	1.8	1.7	1.6	1.6	0.4	999.2
160°	1.9	1.9	1.8	1.7	1.6	1.6	1.6	0.3	999.5
165°	1.6	1.7	1.7	1.6	1.6	1.6	1.6	0.2	999.8
170°	1.5	1.6	1.6	1.6	1.6	1.6	1.6	0.1	999.9
175°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.1	1000.0
180°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.0	1000.0

## Photometric test report

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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	19.1	20.7	19.5	21.0	21.3	19.3	20.8	19.6	21.1	21.4
	3H	20.1	21.5	20.5	21.8	22.2	20.2	21.5	20.6	21.9	22.2
	4H	20.6	21.8	21.0	22.2	22.6	20.5	21.8	20.9	22.2	22.5
	6H	21.0	22.1	21.4	22.5	22.9	20.8	21.9	21.2	22.3	22.7
	8H	21.2	22.2	21.6	22.6	23.0	20.9	22.0	21.3	22.3	22.7
	12H	21.3	22.3	21.8	22.7	23.1	20.9	21.9	21.4	22.3	22.7
4H	2H	19.6	20.8	20.0	21.2	21.6	19.7	21.0	20.1	21.3	21.7
	3H	20.8	21.8	21.2	22.2	22.6	20.8	21.8	21.2	22.2	22.6
	4H	21.3	22.3	21.8	22.7	23.1	21.3	22.2	21.7	22.6	23.0
	6H	21.9	22.7	22.3	23.1	23.6	21.6	22.4	22.0	22.8	23.3
	8H	22.1	22.8	22.5	23.3	23.7	21.7	22.4	22.2	22.9	23.4
	12H	22.3	22.9	22.8	23.4	23.9	21.8	22.4	22.2	22.9	23.4
8H	4H	21.6	22.3	22.0	22.7	23.2	21.5	22.2	21.9	22.7	23.1
	6H	22.2	22.8	22.7	23.3	23.8	21.9	22.5	22.4	23.0	23.5
	8H	22.5	23.0	23.0	23.5	24.0	22.0	22.6	22.5	23.1	23.6
	12H	22.8	23.2	23.3	23.7	24.3	22.2	22.6	22.7	23.1	23.6
12H	4H	21.6	22.2	22.1	22.7	23.2	21.5	22.2	22.0	22.6	23.1
	6H	22.2	22.8	22.7	23.3	23.8	22.0	22.5	22.5	23.0	23.5
	8H	22.6	23.0	23.1	23.5	24.1	22.2	22.6	22.7	23.1	23.6

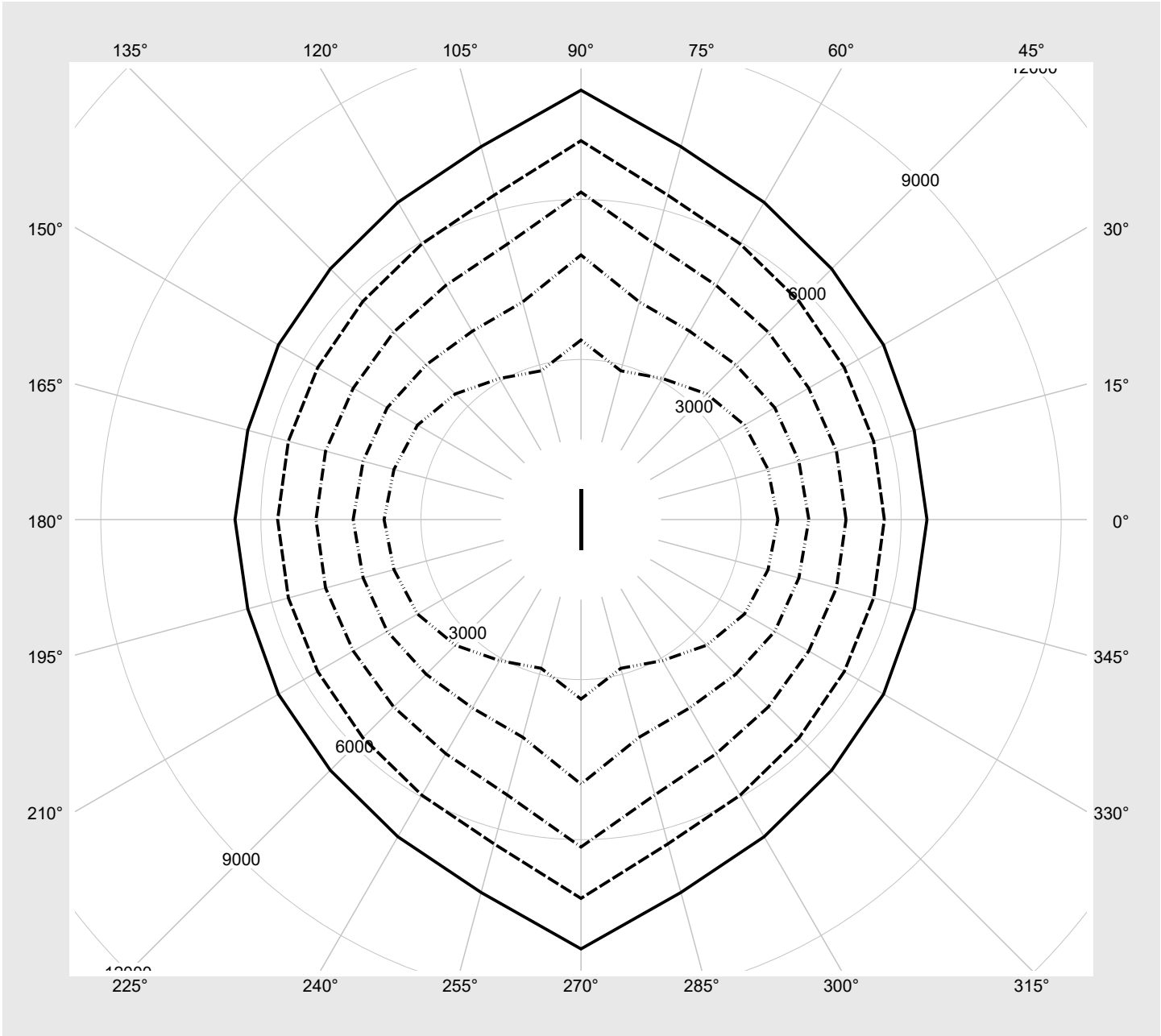
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1590</b>	<b>H(C0) = 21</b>	<b>H(C180) = 21</b>
			<b>B = 87</b>	<b>H(C90) = 21</b>	<b>H(C270) = 21</b>

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°		12454.8	12459.2	12568.5	12793.4	13248.9	13857.4	14759.5	
50°		10316.0	10303.2	10424.7	10606.9	10961.1	11495.1	12364.8	
55°		8704.3	8674.7	8792.6	8937.2	9227.9	9699.4	10554.2	
60°		7450.7	7425.6	7529.4	7650.2	7899.3	8315.3	9148.3	
65°		6484.6	6466.1	6547.8	6645.2	6864.9	7236.2	8047.8	
70°		5685.7	5678.1	5698.1	5782.7	5965.6	6293.5	7100.6	
75°		4967.1	4956.4	4928.6	4966.5	5068.0	5344.1	6137.7	
80°		4270.2	4227.6	4193.7	4102.3	4075.8	4223.1	4958.5	
85°		3690.6	3629.7	3539.4	3330.9	3053.3	2886.6	3364.6	

**Photometric test report**

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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	<b>sITeco</b>
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DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
1	A	C	E	8100	53.6
2	A	C	F	7320	47.6
3	A	D	E	6760	43.5
4	A	D	F	6120	39.0
5	B	C	E	5550	35.0
6	B	C	F	4960	31.0
7	B	D	E	4360	27.1
8	B	D	F	3820	23.6