

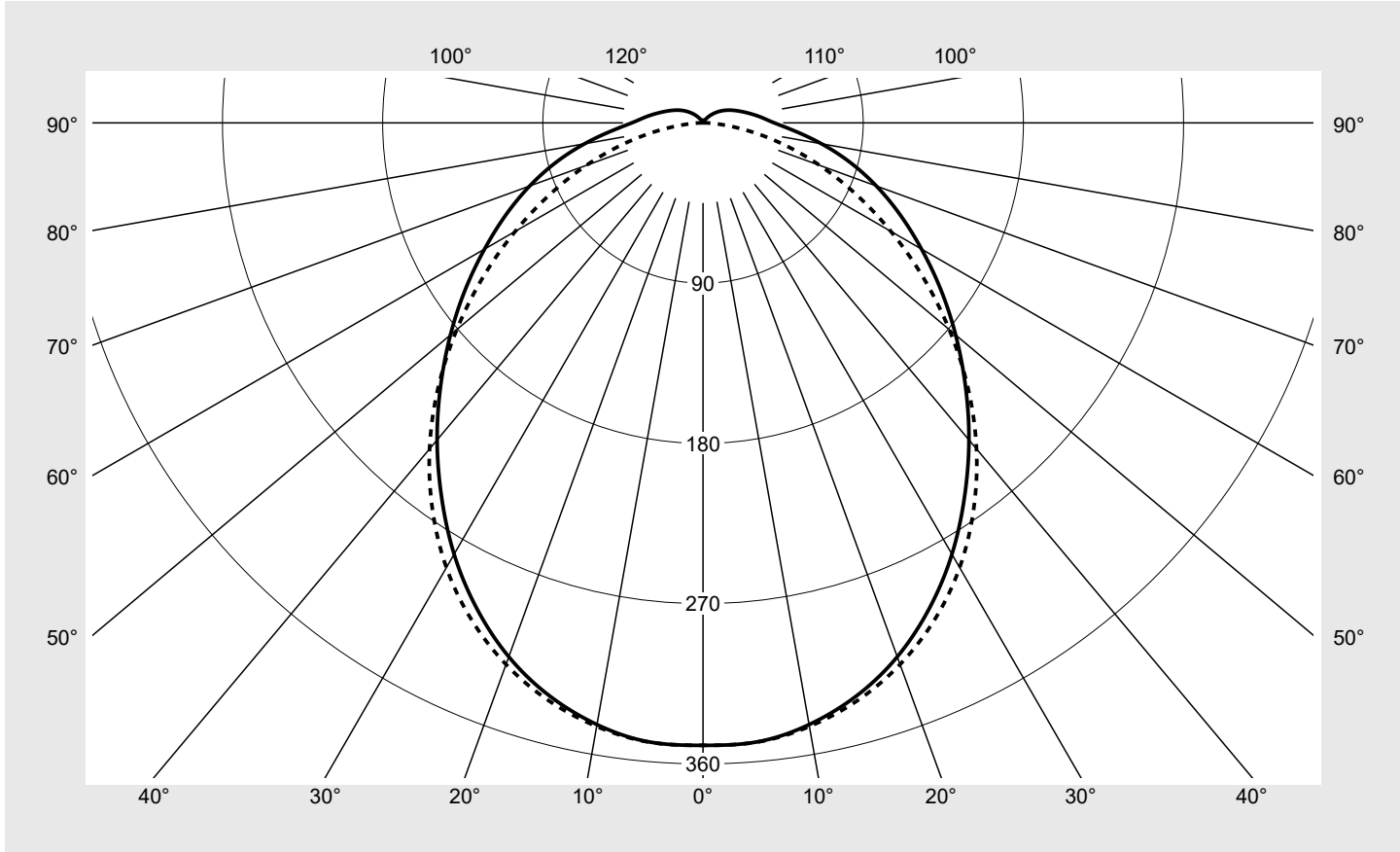


# Photometric test report

<b>Family</b> <b>Monsun® 21</b>	<b>Order number: 51FB30DP460B</b> <b>EAN: 4058352520314</b>	<b>LP number</b> <b>59013_8</b>
	<b>Version</b> prismatic diffuser, opal, PA, wide distribution <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI <b>Rated values</b> Net luminous flux = 5740 lm Power consumption = 39.4 W Luminous efficacy = 145.7 lm/W	<b>serial documentation</b> <b>17.06.2021</b>
		

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 350 cd/klm**



Classifications	
DIN 5040	A 4 1
CIE	N1=48 N2=77 N3=93 N4=95 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	94.6%
$\phi_o$	5.4%

**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°	349.6	349.6	349.6	349.6	349.6	349.6	349.6	2.1	2.1
5°	349.0	348.0	345.9	347.3	348.9	348.8	349.1	16.6	18.7
10°	343.1	342.7	340.7	342.3	343.9	344.0	344.2	32.6	51.4
15°	333.2	333.4	331.6	333.4	335.2	335.4	335.8	47.4	98.7
20°	319.1	319.9	318.4	320.5	322.7	323.2	323.7	60.2	158.9
25°	300.9	302.3	301.1	303.5	306.2	307.2	307.9	70.4	229.4
30°	279.7	281.4	280.3	282.7	285.9	287.4	288.4	77.7	307.1
35°	256.2	258.1	257.1	258.9	262.0	263.8	265.1	81.8	388.9
40°	232.4	233.8	232.7	233.2	235.7	237.7	239.0	82.7	471.6
45°	208.5	209.2	207.5	206.2	207.4	208.7	210.5	80.7	552.2
50°	185.3	185.4	183.1	180.1	179.1	179.0	180.6	76.3	628.5
55°	163.0	162.4	159.5	154.8	151.6	149.7	150.8	70.0	698.5
60°	141.8	140.8	136.8	130.7	125.6	121.9	121.9	62.3	760.8
65°	122.2	120.9	115.6	108.1	101.6	96.2	94.8	53.9	814.7
70°	103.6	102.2	95.5	87.0	79.2	72.5	69.8	44.9	859.6
75°	85.5	83.7	76.7	67.5	58.3	50.8	46.8	35.6	895.2
80°	67.6	65.6	59.5	49.4	39.4	31.1	26.3	26.3	921.4
85°	51.6	49.7	44.2	34.8	24.1	15.2	9.9	18.1	939.5
90°	40.0	38.5	33.8	25.4	15.4	6.7	1.8	12.9	952.4
95°	33.4	32.2	28.6	21.7	12.9	4.9	1.6	10.7	963.1
100°	28.1	27.1	23.9	18.1	10.6	3.5	1.4	8.8	971.9
105°	23.6	22.7	19.8	14.8	8.2	2.2	1.2	7.1	979.0
110°	20.0	18.9	16.3	11.8	6.0	1.3	1.1	5.6	984.5
115°	16.9	15.8	13.4	9.2	4.2	1.2	1.1	4.4	988.9
120°	14.0	13.0	10.7	6.9	2.6	1.1	1.0	3.3	992.2
125°	11.3	10.3	8.1	4.8	1.5	1.1	0.9	2.4	994.6
130°	8.7	7.8	5.8	3.1	1.3	1.0	1.0	1.7	996.2
135°	6.2	5.5	3.8	1.8	1.4	1.0	1.0	1.1	997.4
140°	4.0	3.4	2.2	1.6	1.4	1.1	1.1	0.7	998.1
145°	2.3	2.0	1.8	1.6	1.4	1.2	1.2	0.5	998.6
150°	1.9	1.9	1.8	1.6	1.3	1.2	1.2	0.4	999.0
155°	1.8	1.8	1.6	1.5	1.3	1.3	1.3	0.3	999.3
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	1.4	1.4	1.4	0.1	1000.0
180°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	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	21.8	22.1	19.8	21.5	20.2	21.8	22.2
	3H	21.5	23.1	21.9	23.4	23.8	21.2	22.7	21.6	23.1	23.4
	4H	22.4	23.8	22.8	24.2	24.5	21.7	23.1	22.1	23.5	23.9
	6H	23.1	24.5	23.5	24.8	25.2	22.0	23.4	22.5	23.8	24.1
	8H	23.5	24.7	23.9	25.1	25.5	22.2	23.4	22.6	23.8	24.2
	12H	23.8	25.0	24.2	25.4	25.8	22.2	23.4	22.7	23.8	24.2
4H	2H	20.5	21.9	20.9	22.3	22.7	20.5	22.0	20.9	22.3	22.7
	3H	22.4	23.7	22.8	24.1	24.5	22.0	23.3	22.5	23.7	24.1
	4H	23.4	24.5	23.8	24.9	25.4	22.7	23.8	23.1	24.2	24.6
	6H	24.3	25.3	24.8	25.7	26.2	23.1	24.1	23.6	24.6	25.0
	8H	24.7	25.6	25.2	26.1	26.6	23.3	24.2	23.7	24.6	25.1
	12H	25.2	26.0	25.6	26.4	26.9	23.4	24.2	23.9	24.7	25.1
8H	4H	23.7	24.6	24.2	25.1	25.5	23.1	24.0	23.5	24.4	24.9
	6H	24.8	25.6	25.3	26.0	26.5	23.7	24.4	24.2	24.9	25.4
	8H	25.3	26.0	25.8	26.5	27.0	23.9	24.6	24.4	25.1	25.6
	12H	25.9	26.5	26.4	27.0	27.5	24.0	24.6	24.6	25.1	25.7
12H	4H	23.8	24.6	24.2	25.0	25.5	23.2	24.0	23.7	24.4	24.9
	6H	24.9	25.6	25.4	26.0	26.6	23.8	24.5	24.3	25.0	25.5
	8H	25.5	26.1	26.0	26.6	27.1	24.1	24.7	24.6	25.2	25.7

<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°		9854.1	9927.6	10016.8	10255.7	10751.2	11391.4	12193.6	
50°		9289.3	9333.8	9404.6	9572.4	9988.1	10602.6	11478.0	
55°		8770.3	8783.2	8823.0	8906.6	9227.5	9778.5	10706.7	
60°		8296.2	8287.5	8264.0	8269.6	8484.8	8952.1	9887.5	
65°		7907.3	7874.3	7761.1	7660.9	7771.9	8136.6	9050.1	
70°		7559.6	7513.2	7272.3	7063.7	7050.3	7291.0	8166.9	
75°		7208.5	7129.8	6810.9	6471.4	6265.0	6355.8	7153.2	
80°		6816.8	6698.6	6393.3	5842.8	5383.4	5203.9	5842.3	
85°		6531.3	6393.9	6075.2	5414.8	4563.5	3891.2	4115.0	

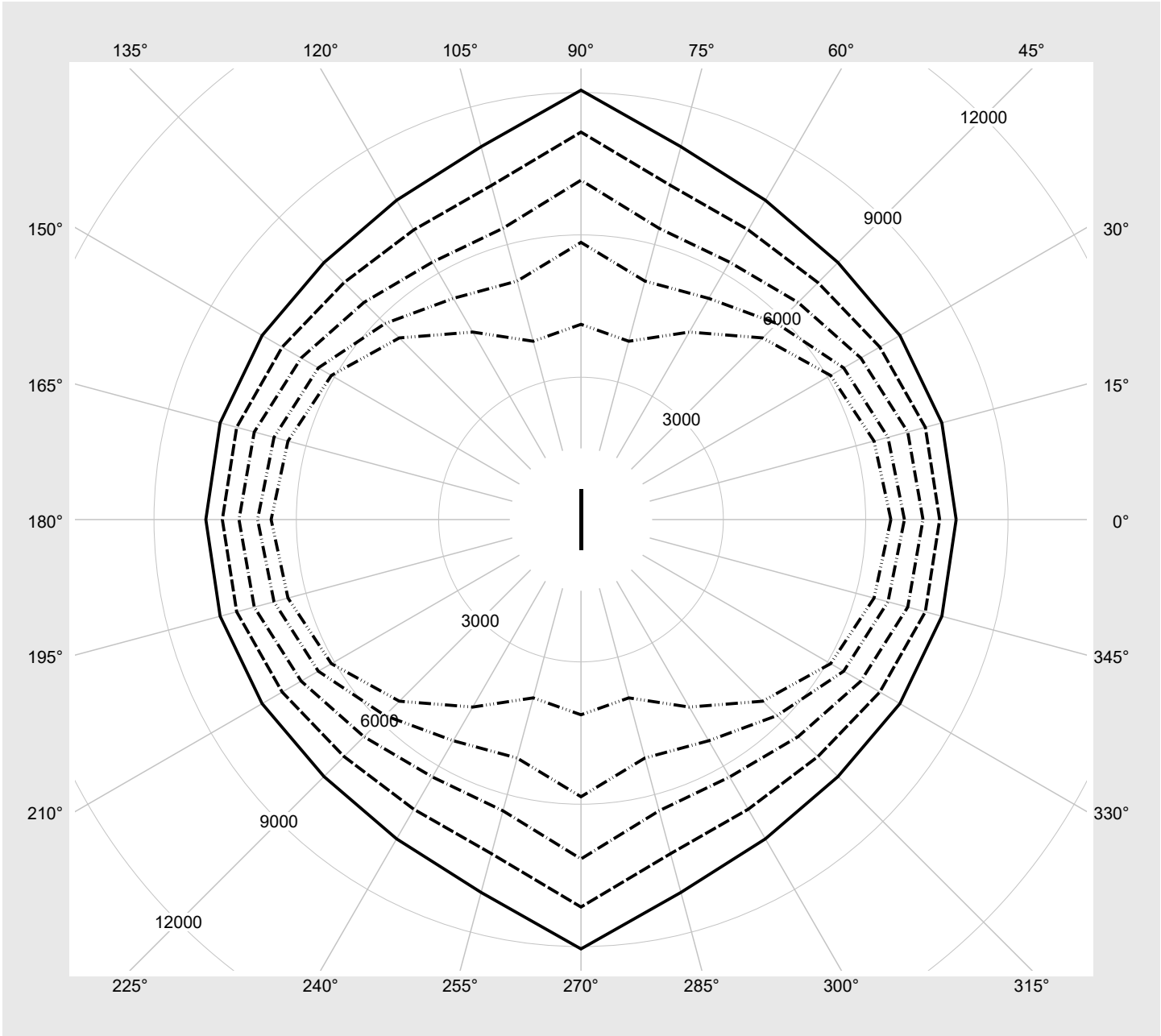
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**Luminance values in cd/m<sup>2</sup>**

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



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<b>Dimming levels table</b>	environmental temperature: 25°C	<b>sITeco</b>
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	5740	39.4
95	240	252	5445	37.2
90	227	250	5168	35.1
85	213	248	4870	33.0
80	200	245	4588	31.0
75	187	243	4304	29.1
70	174	240	4018	27.1
65	161	237	3730	25.1
60	148	234	3439	23.2
55	136	231	3168	21.5
50	123	227	2873	19.6
45	110	223	2575	17.7
40	98	219	2299	16.0
35	85	214	1998	14.1
30	73	208	1718	12.4
25	61	202	1438	10.6
20	49	194	1154	8.8
15	37	183	869	7.2
10	25	169	581	5.6
5	13	145	292	4.0
3	7	122	146	3.2