

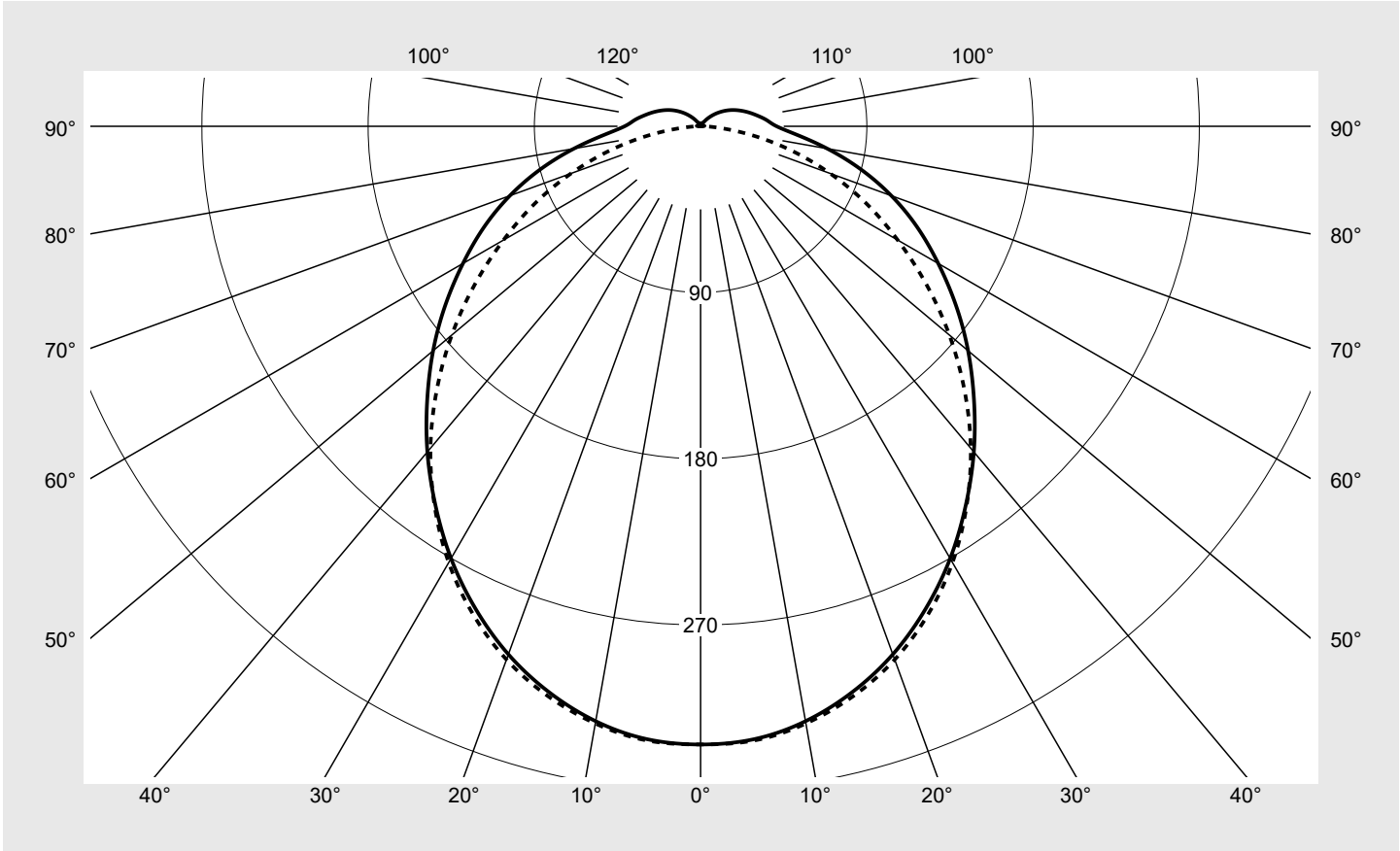


# Photometric test report

<b>Family</b> <b>Monsun® 21</b>	<b>Order number: 51FB10ML660J</b> <b>EAN: 4058352757185</b>	<b>LP number</b> <b>59393_5</b>
	<b>Version</b> prismatic diffuser, opal, PMMA, extremely wide distribution <b>Lamps</b> LED 6500 K   CRI ≥ 80 <b>Controlgear</b> ECG Multilumen <b>Rated values</b> Net luminous flux = 6000 lm Power consumption = 37.4 W Luminous efficacy = 160.4 lm/W	<b>serial documentation</b> <b>08.02.2023</b>
		

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 335 cd/klm**



Classifications	
DIN 5040	A 4 1
CIE	N1=46 N2=76 N3=93 N4=94 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	93.9%
$\phi_o$	6.1%

**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°	334.7	334.7	334.7	334.7	334.7	334.7	334.7	2.0	2.0
5°	333.1	333.6	331.1	331.9	332.7	333.2	333.8	15.9	17.9
10°	327.1	327.9	325.6	326.0	327.2	327.9	328.3	31.1	49.0
15°	317.2	318.4	316.4	316.9	317.9	318.6	319.4	45.1	94.1
20°	304.3	305.5	304.0	304.0	305.5	306.0	307.3	57.2	151.3
25°	288.3	289.5	288.3	288.0	289.4	289.8	291.5	67.0	218.3
30°	270.2	271.6	270.4	269.7	270.4	271.0	272.7	74.2	292.5
35°	250.3	251.6	250.4	249.2	249.0	249.3	251.0	78.6	371.1
40°	230.1	230.9	229.3	227.2	226.1	225.6	227.5	80.3	451.4
45°	209.3	209.8	207.4	204.4	202.0	200.5	202.0	79.4	530.9
50°	189.0	188.7	186.0	181.6	177.7	174.7	175.8	76.4	607.2
55°	168.7	168.2	164.8	159.1	153.5	149.2	149.2	71.4	678.6
60°	148.6	147.7	143.7	136.7	130.2	124.3	123.2	64.8	743.4
65°	129.5	127.8	123.0	114.9	108.3	100.8	99.1	57.1	800.4
70°	109.9	108.0	102.2	93.4	85.8	77.4	74.6	48.0	848.4
75°	89.7	87.9	81.7	72.5	63.8	55.3	51.1	38.1	886.5
80°	69.6	67.6	61.9	52.4	43.1	34.0	28.9	27.7	914.2
85°	52.2	49.9	44.6	35.4	25.7	16.3	10.6	18.5	932.7
90°	41.2	39.2	34.0	25.7	16.3	7.4	2.3	13.2	945.9
95°	36.2	34.5	30.1	22.6	13.9	5.6	2.0	11.4	957.3
100°	31.8	30.4	26.2	19.4	11.5	4.0	1.7	9.7	967.1
105°	27.9	26.5	22.5	16.5	9.2	2.5	1.5	8.1	975.2
110°	24.2	22.6	19.2	13.5	6.9	1.5	1.3	6.6	981.8
115°	20.8	19.1	16.0	10.8	4.9	1.4	1.2	5.2	987.0
120°	17.3	15.9	12.9	8.1	3.1	1.3	1.2	4.0	991.0
125°	13.9	12.5	9.8	5.6	1.6	1.3	1.1	2.9	993.8
130°	10.5	9.4	7.0	3.5	1.5	1.3	1.1	2.0	995.8
135°	7.3	6.4	4.4	1.9	1.5	1.2	1.0	1.3	997.1
140°	4.5	3.8	2.3	1.7	1.5	1.2	1.1	0.8	997.9
145°	2.3	2.1	1.9	1.7	1.5	1.3	1.2	0.5	998.4
150°	2.0	2.0	1.9	1.7	1.5	1.4	1.3	0.5	998.9
155°	1.9	1.9	1.8	1.7	1.5	1.4	1.4	0.4	999.3
160°	1.8	1.8	1.7	1.6	1.5	1.5	1.4	0.3	999.6
165°	1.7	1.7	1.6	1.5	1.5	1.5	1.4	0.2	999.8
170°	1.5	1.5	1.5	1.5	1.5	1.5	1.4	0.1	999.9
175°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.1	1000.0
180°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.0	1000.0

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UGR-Table	Standard room	<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	20.9	22.6	21.2	22.9	23.2	20.7	22.4	21.1	22.7	23.0
	3H	22.7	24.2	23.1	24.6	24.9	22.2	23.7	22.6	24.1	24.4
	4H	23.5	25.0	23.9	25.3	25.7	22.8	24.2	23.1	24.6	24.9
	6H	24.3	25.6	24.7	26.0	26.4	23.1	24.5	23.6	24.9	25.3
	8H	24.6	25.9	25.1	26.3	26.7	23.3	24.6	23.7	25.0	25.4
	12H	24.9	26.1	25.4	26.5	26.9	23.3	24.6	23.8	25.0	25.4
4H	2H	21.6	23.1	22.0	23.4	23.8	21.5	22.9	21.8	23.3	23.6
	3H	23.6	24.9	24.0	25.2	25.7	23.1	24.4	23.5	24.8	25.2
	4H	24.6	25.7	25.0	26.1	26.6	23.8	25.0	24.3	25.4	25.8
	6H	25.5	26.5	25.9	26.9	27.4	24.3	25.3	24.8	25.8	26.2
	8H	25.9	26.8	26.4	27.3	27.7	24.5	25.4	24.9	25.9	26.3
	12H	26.3	27.1	26.8	27.6	28.0	24.6	25.4	25.1	25.9	26.4
8H	4H	24.9	25.8	25.4	26.3	26.8	24.2	25.2	24.7	25.6	26.1
	6H	26.0	26.8	26.5	27.2	27.7	24.9	25.7	25.4	26.1	26.6
	8H	26.5	27.2	27.0	27.7	28.2	25.1	25.8	25.6	26.3	26.8
	12H	27.0	27.6	27.5	28.1	28.6	25.3	25.9	25.8	26.4	26.9
12H	4H	25.0	25.8	25.4	26.2	26.7	24.3	25.2	24.8	25.6	26.1
	6H	26.1	26.8	26.6	27.2	27.8	25.1	25.7	25.6	26.2	26.7
	8H	26.6	27.2	27.1	27.7	28.3	25.3	25.9	25.8	26.4	27.0

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:		L = 1299	H(C0) = 21	H(C180) = 21
				B = 87	H(C90) = 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°		12659.5	12729.7	12797.0	12979.9	13365.1	13964.8	14927.0	
50°		12125.3	12150.4	12203.7	12326.5	12650.6	13200.9	14246.5	
55°		11610.9	11630.8	11640.9	11686.9	11914.2	12427.8	13498.6	
60°		11124.3	11113.9	11085.0	11036.7	11212.7	11622.5	12727.8	
65°		10718.0	10642.6	10545.1	10376.2	10551.5	10849.3	12030.6	
70°		10256.8	10146.1	9931.9	9660.1	9716.4	9887.2	11091.1	
75°		9675.9	9557.3	9255.7	8853.3	8713.9	8785.0	9889.3	
80°		8987.1	8816.0	8476.8	7878.4	7470.9	7195.6	8093.3	
85°		8455.9	8189.5	7808.2	6989.9	6169.9	5245.8	5468.5	

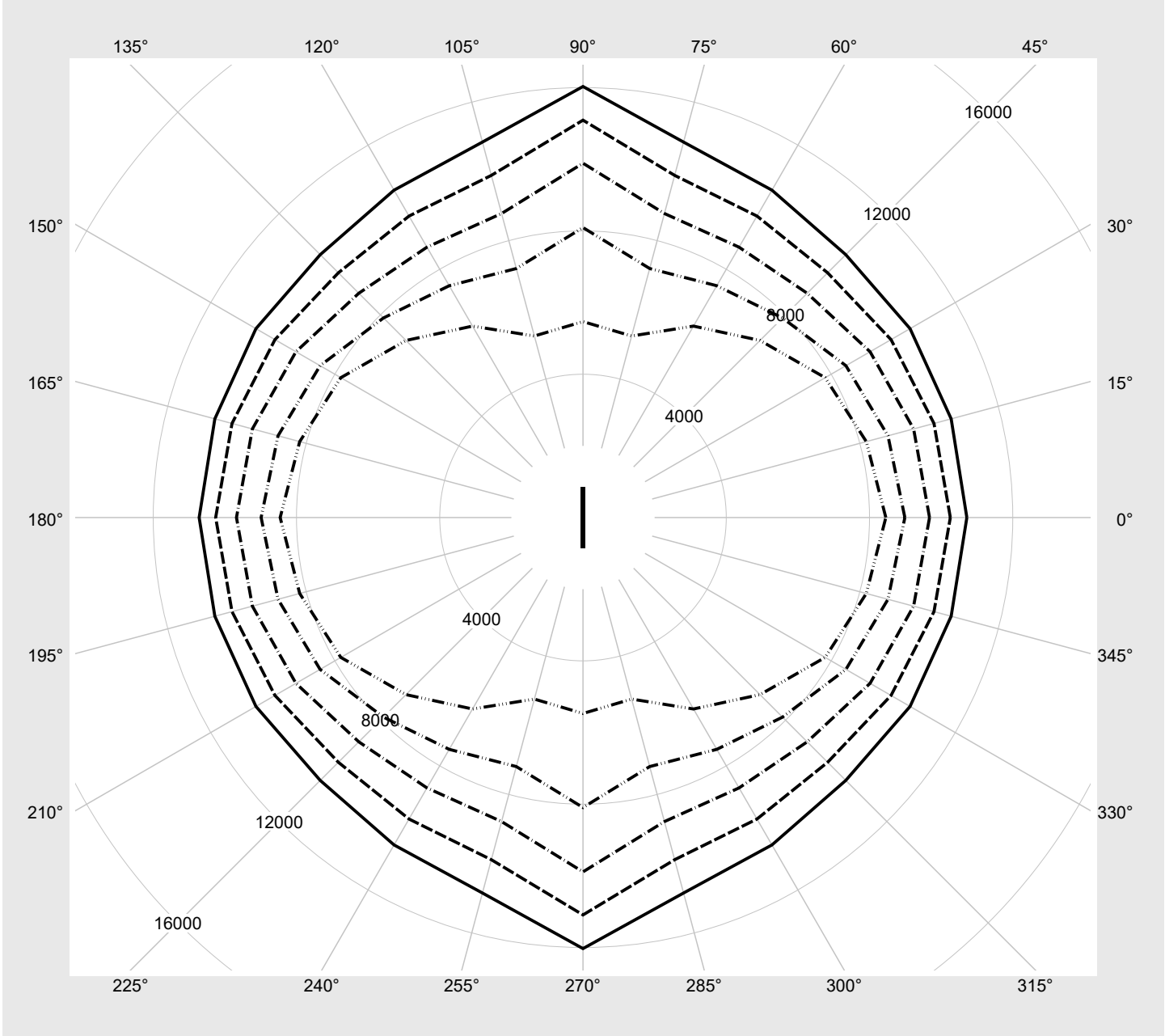
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**Luminance values in cd/m<sup>2</sup>**

$\gamma$ 65°	$\gamma$ 70°	$\gamma$ 75°	$\gamma$ 80°	$\gamma$ 85°
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<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	3870	23.6
2	A	C	F	4020	24.8
3	A	D	E	4430	27.4
4	A	D	F	4640	28.7
5	B	C	E	5050	31.3
6	B	C	F	5460	33.9
7	B	D	E	5730	35.6
8	B	D	F	6000	37.4