

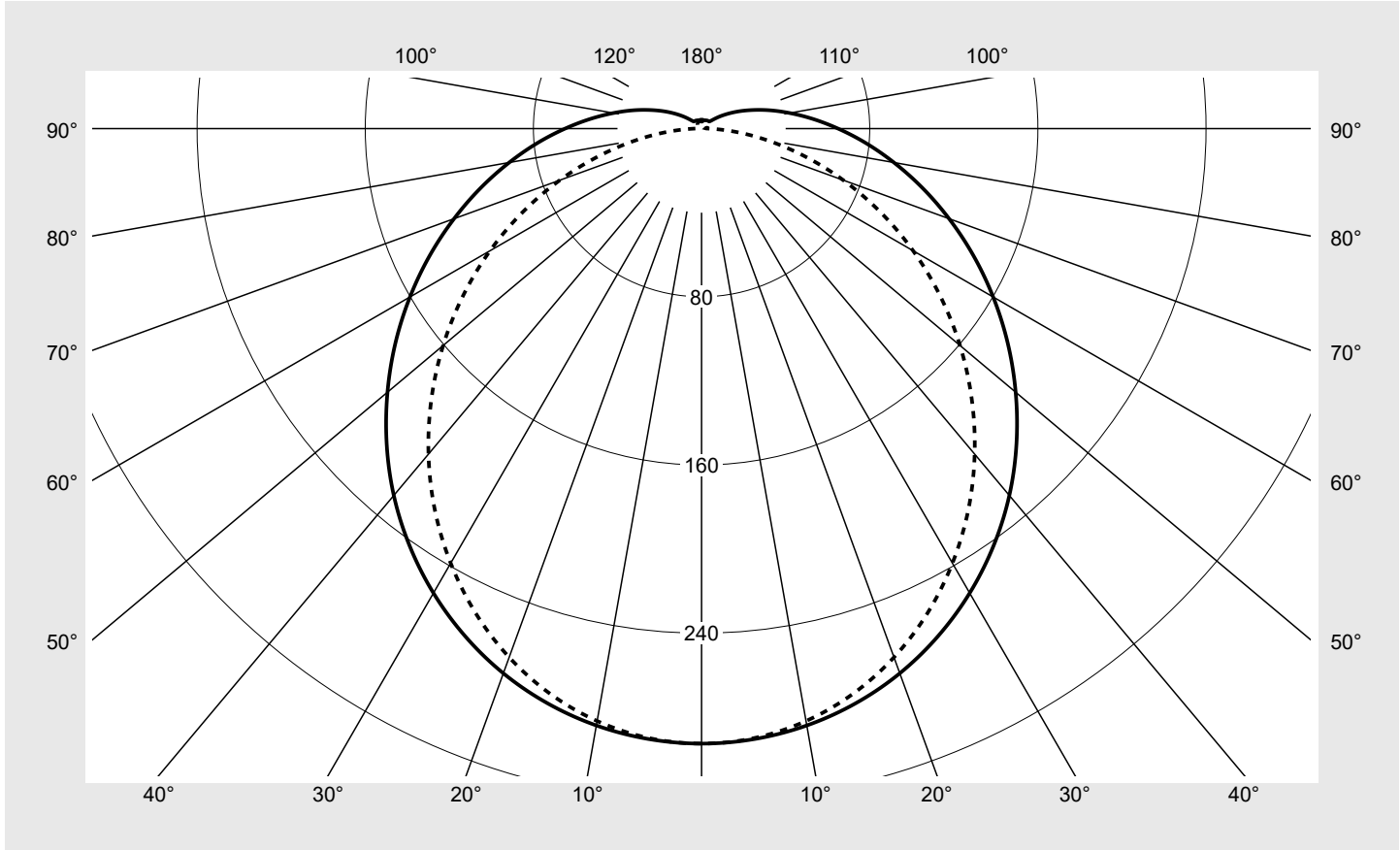


# Photometric test report

<b>Family</b> <b>Monsun® 31</b>	<b>Order number: 51FD20MN480A</b> <b>EAN: 4069025458360</b>	<b>LP number</b> <b>59822_1</b>
	<b>Version</b> damp-proof luminaire, cover, frosted, PC, diffuse beam <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG Multilumen <b>Rated values</b> Net luminous flux = 7970 lm Power consumption = 49.0 W Luminous efficacy = 162.7 lm/W	<b>serial documentation</b> <b>26.09.2025</b>
		

**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 293 cd/klm**



Classifications	
DIN 5040	A 3 1
CIE	N1=43 N2=72 N3=90 N4=93 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	92.6%
$\phi_o$	7.4%

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

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Table of values for luminous intensities		Maximum luminous intensity
		<b>siteco</b>

C-planes $\gamma$	0° 180°	Luminous intensity in cd/klm			90° 270°	Phi-zone	Total Phi-zone
		30° 150° 210° 330°	60° 120° 240° 300°				
0°	292.5	292.5	292.5	292.5	1.7	1.7	
5°	291.4	291.3	291.0	290.9	13.9	15.7	
10°	288.3	287.7	286.7	286.1	27.3	43.0	
15°	283.0	281.9	279.5	278.3	39.8	82.8	
20°	275.7	273.7	269.7	267.6	50.9	133.8	
25°	266.3	263.3	257.3	254.3	60.3	194.1	
30°	255.1	251.0	242.8	238.7	67.7	261.7	
35°	242.2	237.0	226.4	221.3	72.8	334.6	
40°	227.8	221.3	208.4	202.1	75.7	410.3	
45°	211.9	204.4	189.0	181.8	76.3	486.5	
50°	195.1	186.5	169.0	160.5	74.6	561.2	
55°	177.8	168.1	148.4	138.5	71.0	632.2	
60°	160.2	149.7	127.6	116.2	65.8	698.0	
65°	142.6	131.5	107.1	93.8	59.1	757.1	
70°	125.3	113.8	87.5	71.8	51.5	808.5	
75°	108.7	97.0	69.3	50.7	43.4	851.9	
80°	92.9	81.3	52.9	31.5	35.3	887.3	
85°	78.4	67.1	39.2	14.9	27.8	915.1	
90°	64.9	54.3	27.8	3.2	21.2	936.3	
95°	53.1	42.9	19.0	2.6	16.3	952.7	
100°	42.6	33.6	12.9	2.4	12.4	965.1	
105°	33.6	25.7	8.2	2.3	9.2	974.2	
110°	25.8	19.0	4.8	2.2	6.5	980.7	
115°	19.3	13.6	3.1	2.2	4.6	985.3	
120°	13.8	9.2	3.1	2.2	3.2	988.5	
125°	9.2	5.4	3.0	2.3	2.1	990.6	
130°	5.7	4.1	3.0	2.4	1.6	992.2	
135°	4.9	4.0	3.1	2.6	1.4	993.6	
140°	4.8	4.0	3.3	2.9	1.3	994.9	
145°	4.7	4.0	3.5	3.2	1.2	996.1	
150°	4.5	3.9	3.7	3.3	1.1	997.1	
155°	4.4	3.9	3.9	3.6	0.9	998.1	
160°	4.2	4.0	4.1	3.8	0.8	998.8	
165°	4.2	4.1	4.1	4.0	0.6	999.4	
170°	3.9	4.1	4.2	4.1	0.4	999.8	
175°	3.4	4.1	4.2	4.2	0.2	1000.0	
180°	4.0	4.0	4.0	4.0	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	21.3	23.0	21.6	23.3	23.6	20.7	22.4	21.0	22.7	23.1
	3H	23.3	24.9	23.6	25.2	25.5	22.2	23.8	22.6	24.2	24.5
	4H	24.2	25.8	24.6	26.1	26.5	22.9	24.4	23.2	24.7	25.1
	6H	25.2	26.6	25.6	27.0	27.4	23.3	24.8	23.7	25.1	25.5
	8H	25.7	27.0	26.1	27.4	27.8	23.5	24.9	24.0	25.3	25.7
	12H	26.1	27.4	26.6	27.8	28.2	23.7	25.0	24.1	25.3	25.8
4H	2H	22.0	23.5	22.4	23.8	24.2	21.5	23.0	21.9	23.4	23.8
	3H	24.2	25.5	24.6	25.9	26.3	23.3	24.6	23.7	25.0	25.4
	4H	25.3	26.5	25.8	26.9	27.4	24.0	25.2	24.5	25.6	26.1
	6H	26.5	27.5	26.9	28.0	28.4	24.7	25.7	25.1	26.2	26.6
	8H	27.0	28.0	27.5	28.4	28.9	24.9	25.9	25.4	26.3	26.8
	12H	27.6	28.5	28.1	28.9	29.4	25.1	26.0	25.5	26.4	26.9
8H	4H	25.7	26.7	26.2	27.1	27.6	24.6	25.6	25.1	26.0	26.5
	6H	27.0	27.9	27.5	28.3	28.8	25.4	26.3	25.9	26.7	27.2
	8H	27.7	28.5	28.2	29.0	29.5	25.8	26.5	26.3	27.0	27.5
	12H	28.5	29.1	29.0	29.6	30.1	26.1	26.7	26.6	27.2	27.7
12H	4H	25.8	26.7	26.2	27.1	27.6	24.8	25.6	25.2	26.1	26.6
	6H	27.2	27.9	27.7	28.4	28.9	25.7	26.4	26.2	26.9	27.4
	8H	27.9	28.6	28.4	29.1	29.6	26.1	26.7	26.6	27.2	27.8

<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1500</b>	<b>H(C0) = 28</b>	<b>H(C180) = 28</b>
			<b>B = 90</b>	<b>H(C90) = 0</b>	<b>H(C270) = 0</b>

C-planes	$\gamma$	0° 180°	Luminance in cd/m²			
			30° 150° 210° 330°	60° 120° 240° 300°	90° 270°	
	45°	13492.4	13445.0	13658.1	15174.8	
	50°	13069.9	12964.7	13091.9	14739.9	
	55°	12670.8	12497.6	12495.9	14252.1	
	60°	12290.7	12053.8	11869.3	13720.0	
	65°	11950.3	11643.6	11215.2	13099.6	
	70°	11661.5	11287.2	10578.2	12386.0	
	75°	11472.4	11030.4	9999.7	11565.4	
	80°	11427.7	10938.0	9558.6	10701.6	
	85°	11649.0	11137.9	9552.9	10071.2	

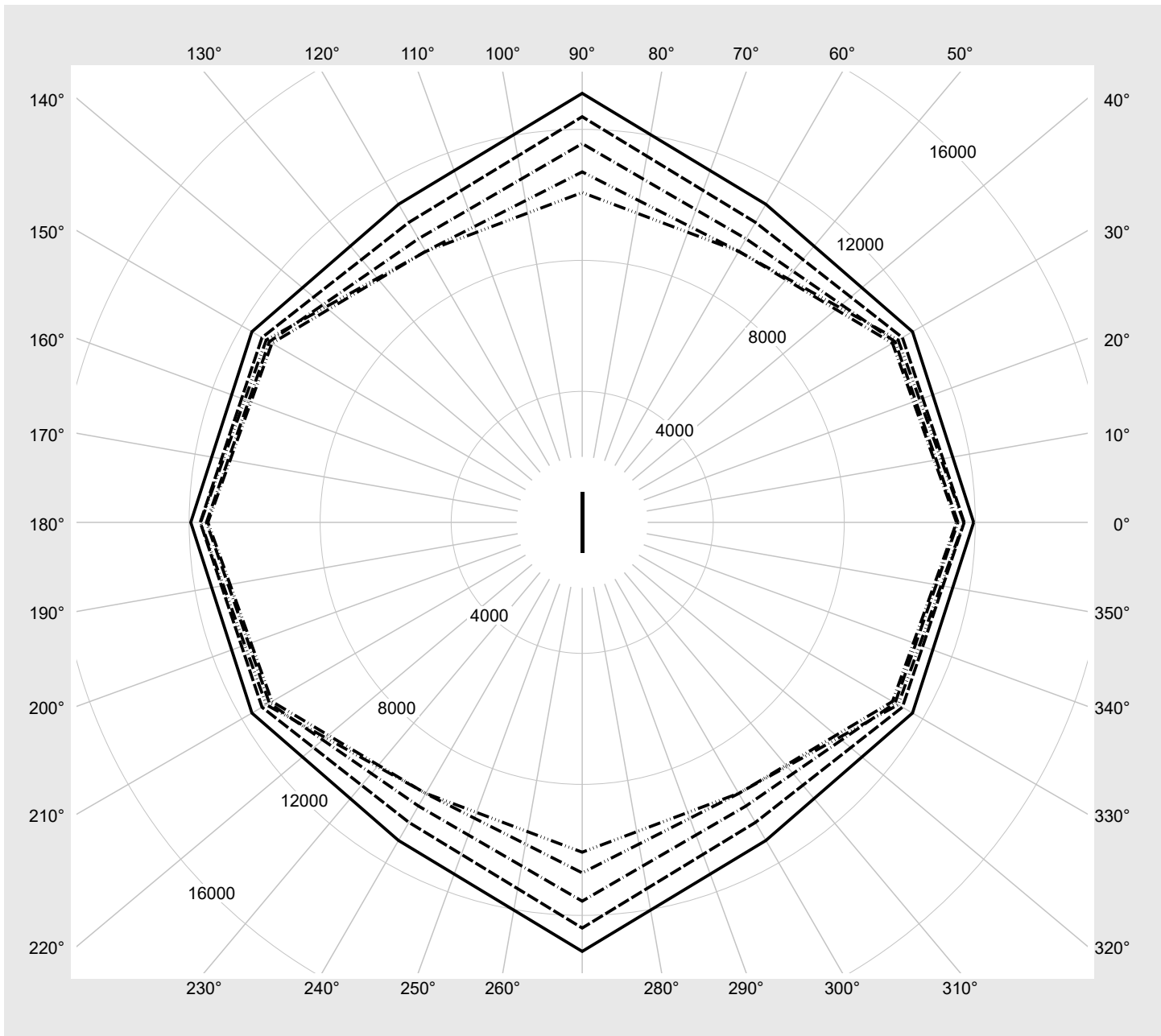
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**Luminance values in cd/m<sup>2</sup>**

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

**siteco**



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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	ON	ON	7970	49.0
2	OFF	ON	6820	41.0
1	ON	OFF	5640	34.0
0	OFF	OFF	4540	27.0