
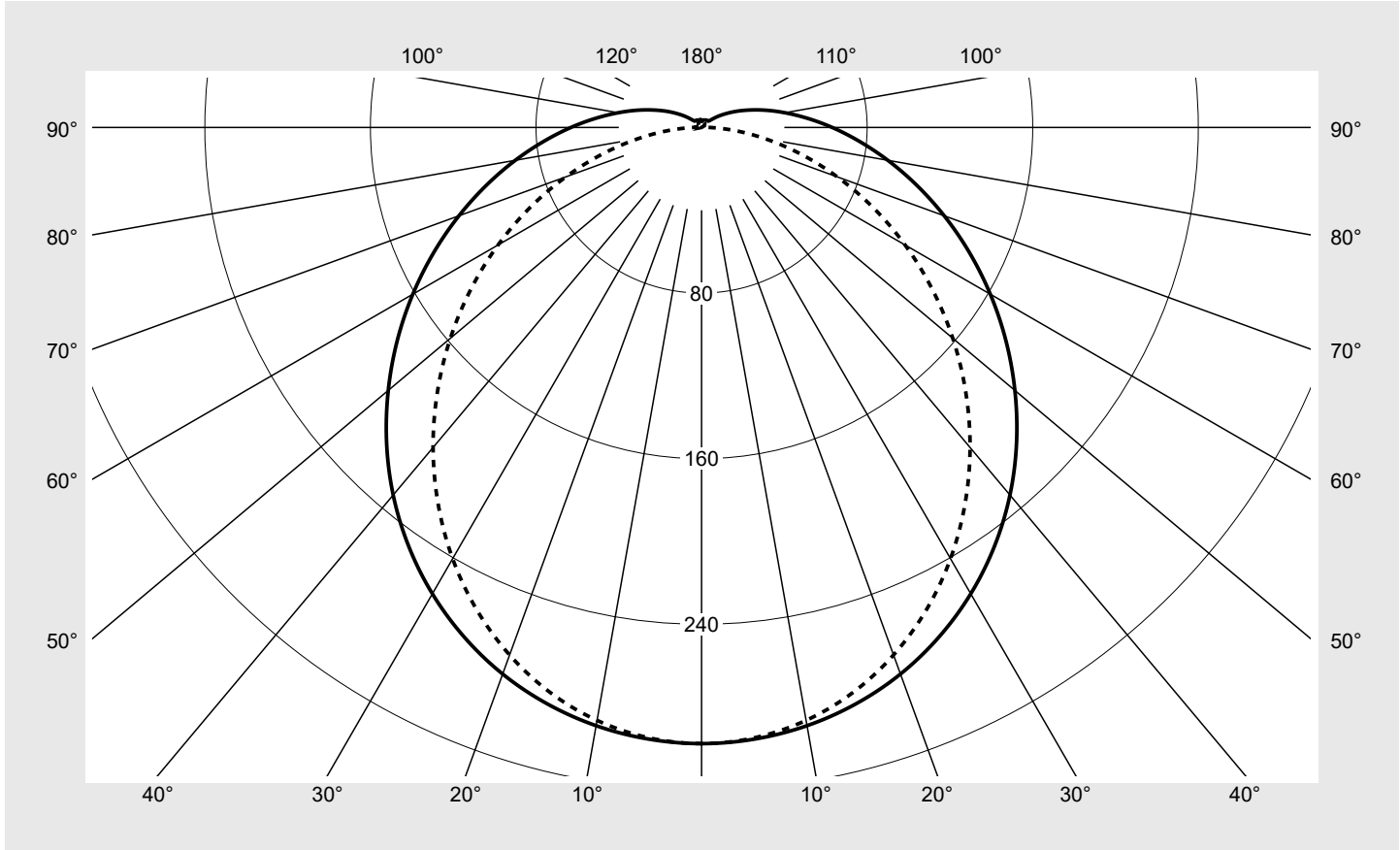


# Photometric test report

<b>Family</b> <b>Monsun® 31</b>	<b>Order number: 51FD20MK450A</b> <b>EAN: 4069025458339</b>	<b>LP number</b> <b>59821_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 = 5060 lm Power consumption = 31.0 W Luminous efficacy = 163.2 lm/W	<b>serial documentation</b> <b>26.09.2025</b>
		

**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 298 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%
$\phi_u$	92.9%
$\phi_o$	7.1%

**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°	297.7	297.7	297.7	297.7	1.8	1.8	
5°	296.6	296.5	296.1	295.9	14.2	15.9	
10°	293.5	292.8	291.5	290.9	27.8	43.7	
15°	288.3	286.8	284.0	282.6	40.5	84.2	
20°	281.0	278.6	273.7	271.2	51.8	136.0	
25°	271.5	268.0	260.8	257.1	61.2	197.2	
30°	260.1	255.4	245.6	240.6	68.6	265.9	
35°	246.8	240.8	228.4	221.9	73.7	339.6	
40°	231.8	224.7	209.5	201.8	76.5	416.1	
45°	215.2	207.1	189.4	180.5	76.8	492.9	
50°	197.6	188.4	168.6	158.4	74.9	567.8	
55°	179.5	169.3	147.4	136.0	71.0	638.8	
60°	161.1	150.2	126.4	113.5	65.5	704.3	
65°	142.7	131.4	105.7	91.4	58.6	762.9	
70°	124.8	113.3	86.1	69.8	50.9	813.8	
75°	107.5	96.1	68.1	49.6	42.9	856.7	
80°	91.4	80.2	52.2	31.1	34.8	891.5	
85°	76.5	65.9	38.5	15.2	27.3	918.9	
90°	63.1	52.9	27.5	3.9	20.8	939.7	
95°	51.2	41.7	18.8	2.8	15.9	955.6	
100°	40.9	32.4	12.7	1.8	12.0	967.6	
105°	32.1	24.7	8.1	1.2	8.7	976.3	
110°	24.6	18.3	4.7	1.2	6.2	982.5	
115°	18.4	13.0	2.9	1.4	4.3	986.8	
120°	13.1	8.8	2.7	1.6	3.0	989.7	
125°	8.8	5.2	2.7	1.7	2.0	991.7	
130°	5.3	3.8	2.6	1.9	1.4	993.1	
135°	4.4	3.7	2.7	2.1	1.2	994.4	
140°	4.4	3.6	2.8	2.4	1.1	995.5	
145°	4.3	3.6	3.0	2.7	1.1	996.6	
150°	4.1	3.4	3.2	2.9	0.9	997.5	
155°	3.9	3.4	3.4	3.2	0.8	998.3	
160°	3.9	3.5	3.5	3.4	0.7	998.9	
165°	3.7	3.6	3.6	3.6	0.5	999.5	
170°	3.5	3.7	3.8	3.8	0.4	999.8	
175°	3.1	3.7	3.8	3.9	0.2	1000.0	
180°	3.7	3.7	3.7	3.7	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	20.5	22.3	20.9	22.6	22.9	19.8	21.5	20.1	21.9	22.2
	3H	22.5	24.1	22.9	24.4	24.8	21.3	22.9	21.7	23.2	23.6
	4H	23.4	24.9	23.8	25.3	25.7	21.9	23.4	22.3	23.8	24.2
	6H	24.4	25.8	24.8	26.1	26.5	22.4	23.8	22.8	24.2	24.6
	8H	24.8	26.1	25.3	26.5	26.9	22.6	24.0	23.0	24.3	24.7
	12H	25.3	26.5	25.7	26.9	27.3	22.7	24.0	23.2	24.4	24.8
4H	2H	21.2	22.7	21.6	23.1	23.4	20.7	22.2	21.0	22.5	22.9
	3H	23.4	24.7	23.8	25.1	25.5	22.4	23.7	22.8	24.1	24.5
	4H	24.5	25.7	24.9	26.1	26.5	23.1	24.3	23.6	24.7	25.2
	6H	25.6	26.7	26.1	27.1	27.5	23.7	24.8	24.2	25.2	25.7
	8H	26.2	27.1	26.6	27.6	28.0	24.0	25.0	24.4	25.4	25.9
	12H	26.7	27.6	27.2	28.0	28.5	24.2	25.1	24.6	25.5	26.0
8H	4H	24.9	25.9	25.3	26.3	26.8	23.7	24.7	24.2	25.1	25.6
	6H	26.2	27.0	26.7	27.5	28.0	24.5	25.3	25.0	25.8	26.3
	8H	26.9	27.6	27.4	28.1	28.6	24.9	25.6	25.3	26.1	26.6
	12H	27.6	28.2	28.1	28.7	29.2	25.2	25.8	25.7	26.3	26.8
12H	4H	24.9	25.8	25.4	26.3	26.8	23.8	24.7	24.3	25.2	25.6
	6H	26.3	27.0	26.8	27.5	28.0	24.8	25.5	25.3	26.0	26.5
	8H	27.1	27.7	27.6	28.2	28.7	25.2	25.8	25.7	26.3	26.8

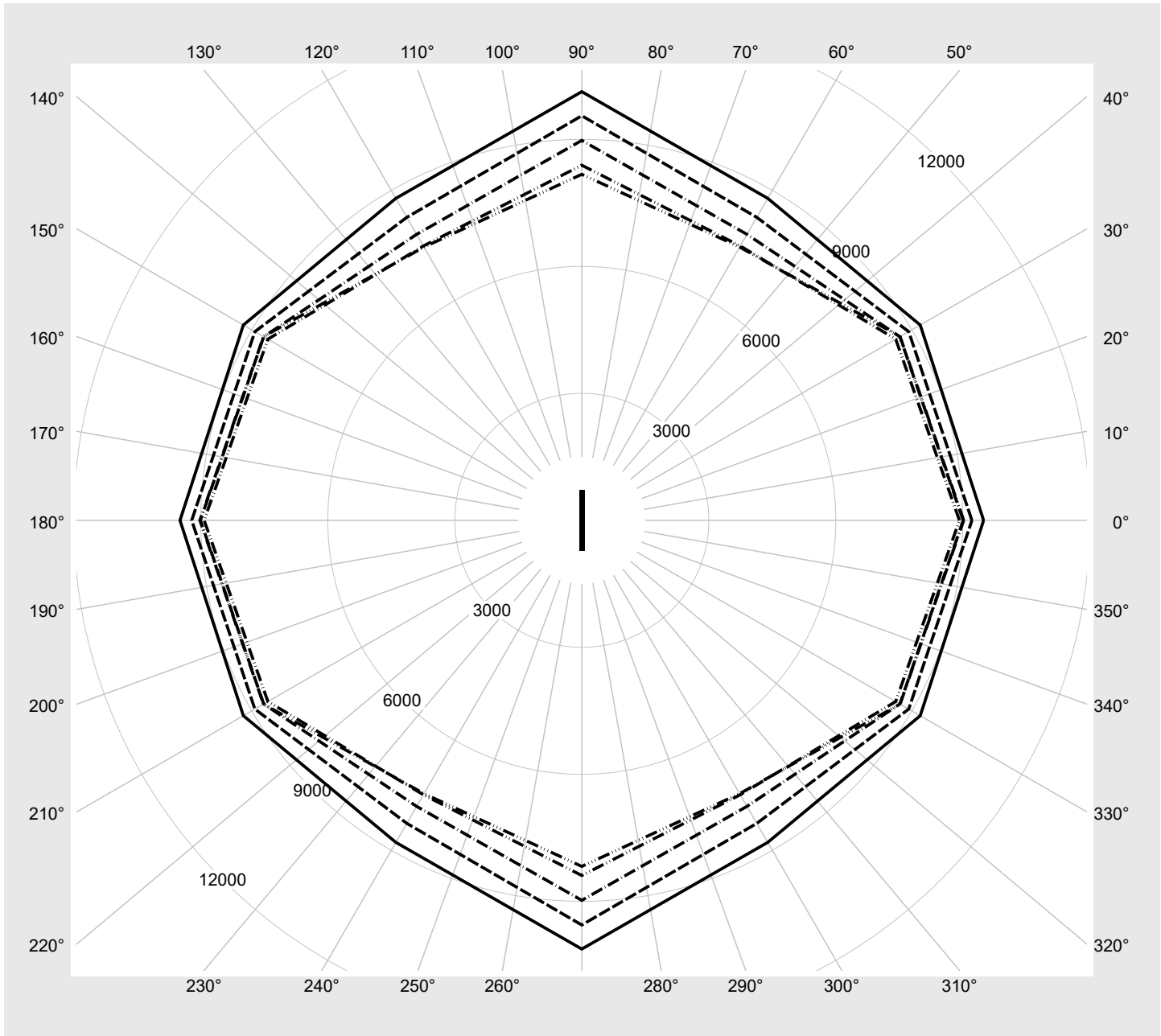
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1200</b>	<b>H(C0) = 28</b>	<b>H(C180) = 28</b>
			<b>B = 90</b>	<b>H(C90) = 0</b>	<b>H(C270) = 0</b>

C-planes	$\gamma$	0° 180°	Luminance in cd/m²			
			30° 150° 210° 330°	60° 120° 240° 300°	90° 270°	
	45°	10877.3	10808.6	10862.3	11956.8	
	50°	10508.3	10395.3	10368.5	11548.3	
	55°	10152.0	9987.7	9853.5	11106.4	
	60°	9809.0	9596.5	9329.2	10640.0	
	65°	9490.6	9230.1	8784.1	10127.6	
	70°	9214.2	8916.5	8266.2	9559.0	
	75°	9008.4	8675.4	7802.3	8976.5	
	80°	8919.7	8561.2	7484.9	8390.3	
	85°	9020.5	8681.6	7455.3	8175.3	

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**Luminance values in cd/m<sup>2</sup>**     γ 65°   γ 70°   γ 75°   γ 80°   γ 85°     **siteco**



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<b>Multilumen Table</b>	environmental temperature: 25°C	
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DIP-Step	Switch Setting		Luminous flux [lm]	Power consumption [W]
	1	2		
3	ON	ON	5060	31.0
2	OFF	ON	4380	26.0
1	ON	OFF	3630	22.0
0	OFF	OFF	2930	18.0