
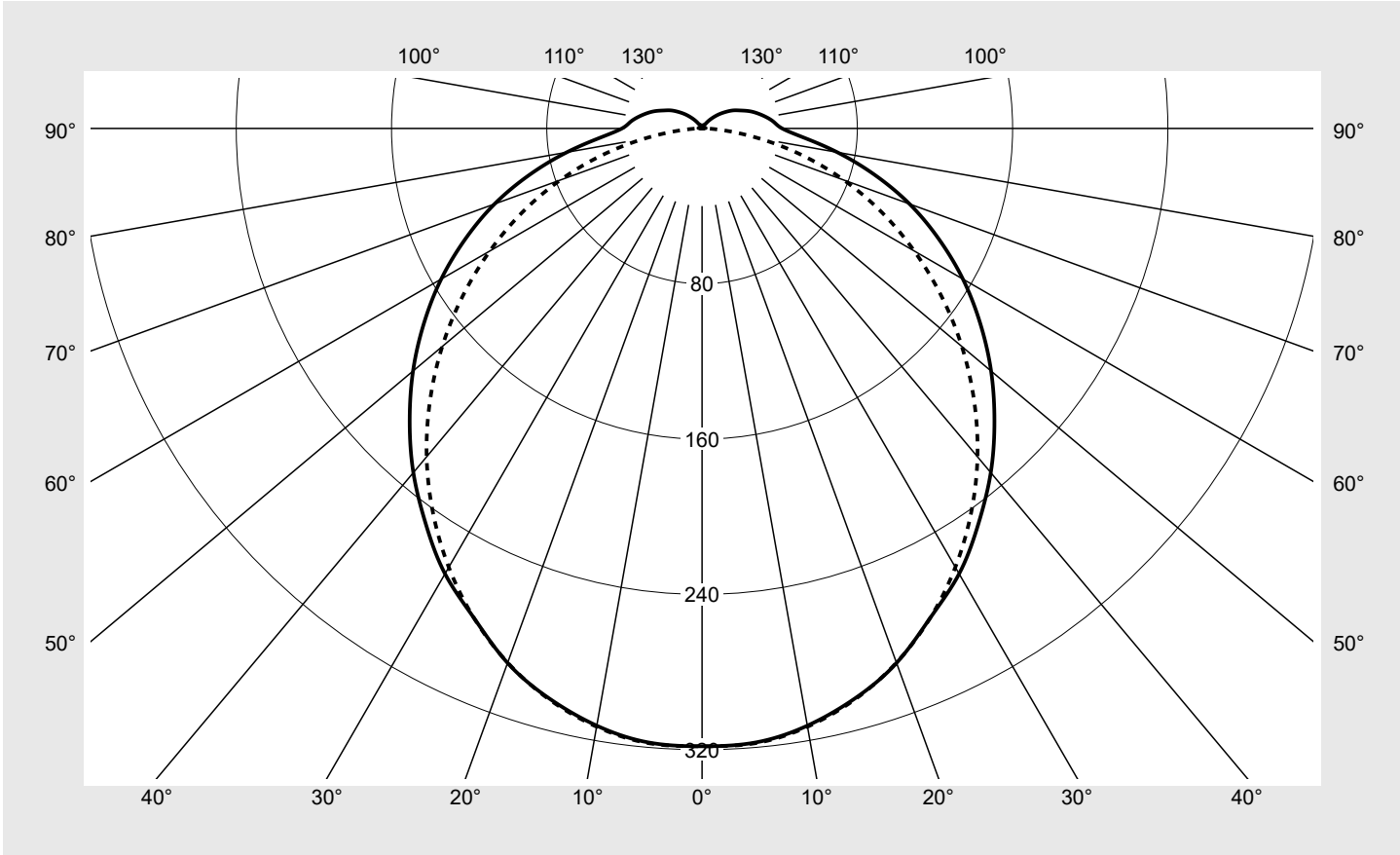


# Photometric test report

<b>Family</b> <b>Monsun® 21</b>	<b>Order number: 51FG20DL430K</b> <b>EAN: 4069025131805</b>	<b>LP number</b> <b>59394_27</b>
	<b>Version</b> prismatic diffuser, opal, polycarbonate, extremely wide distribution	<b>serial documentation</b> <b>04.09.2024</b>
	<b>Lamps</b> LED 4000 K   CRI ≥ 80	
	<b>Controlgear</b> ECG-DALI	
	<b>Rated values</b> Net luminous flux = 3850 lm Power consumption = 24.0 W Luminous efficacy = 160.4 lm/W	



Luminous intensity in cd/klm C180-0 C270-90 **Imax: 318 cd/klm**



Classifications	
DIN 5040	A 4 1
CIE	N1=45 N2=75 N3=93 N4=94 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	93.7%
$\phi_o$	6.3%

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°	318.2	318.2	318.2	318.2	318.2	318.2	318.2	1.9	1.9
5°	317.5	317.5	315.1	315.9	316.6	317.2	317.8	15.1	17.0
10°	312.4	312.6	310.3	310.8	311.5	312.2	312.9	29.7	46.7
15°	304.0	304.5	302.1	302.5	303.1	303.6	304.5	43.0	89.7
20°	293.0	293.3	291.0	291.0	291.4	291.9	292.8	54.7	144.5
25°	278.2	280.0	277.5	276.9	276.9	277.3	278.2	64.3	208.8
30°	264.9	265.0	262.4	260.7	260.0	260.0	261.0	71.8	280.6
35°	248.3	248.5	245.7	243.1	241.2	240.6	241.7	76.7	357.3
40°	231.4	230.9	227.8	224.4	221.2	219.7	220.8	79.3	436.6
45°	213.0	212.5	208.9	204.3	200.0	197.3	198.2	79.4	515.9
50°	194.4	193.4	189.5	184.3	178.4	174.4	174.7	77.3	593.2
55°	174.9	174.0	169.9	163.6	156.5	151.3	150.6	73.2	666.4
60°	155.2	153.6	149.3	142.2	134.7	128.1	126.2	67.1	733.5
65°	134.5	133.3	127.9	120.6	112.6	105.3	102.1	59.5	793.0
70°	113.8	111.2	106.2	98.6	90.1	81.8	77.7	50.1	843.1
75°	91.9	90.6	84.2	76.2	67.3	58.7	53.5	39.7	882.8
80°	70.8	68.8	62.9	54.4	45.2	36.1	30.1	28.6	911.4
85°	52.2	50.3	44.7	36.3	26.8	17.6	11.2	18.9	930.2
90°	41.3	39.2	33.7	25.7	16.7	7.7	2.0	13.2	943.5
95°	37.2	35.5	30.5	23.1	14.2	5.7	1.8	11.7	955.1
100°	33.6	31.9	27.2	20.0	11.9	4.1	1.6	10.1	965.3
105°	29.8	28.2	23.6	17.2	9.5	2.6	1.4	8.5	973.8
110°	26.0	24.2	20.2	14.2	7.2	1.5	1.2	7.0	980.8
115°	21.9	20.5	16.9	11.4	5.1	1.4	1.2	5.5	986.3
120°	18.6	17.0	13.7	8.7	3.2	1.3	1.1	4.3	990.6
125°	14.8	13.4	10.4	6.0	1.7	1.3	1.1	3.1	993.6
130°	11.3	10.0	7.4	3.7	1.5	1.3	1.1	2.1	995.7
135°	7.8	6.8	4.7	1.9	1.5	1.3	1.0	1.3	997.1
140°	4.8	4.0	2.4	1.7	1.5	1.2	1.0	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	1.3	0.4	999.3
160°	1.8	1.8	1.8	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	1.6	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	1.4	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	19.5	21.3	19.9	21.6	21.9	19.2	21.0	19.6	21.3	21.6
	3H	21.4	22.9	21.7	23.3	23.6	20.8	22.4	21.2	22.7	23.1
	4H	22.2	23.7	22.6	24.0	24.4	21.4	22.9	21.8	23.2	23.6
	6H	22.9	24.3	23.3	24.7	25.1	21.8	23.2	22.2	23.6	24.0
	8H	23.3	24.6	23.7	24.9	25.3	22.0	23.3	22.4	23.7	24.1
	12H	23.6	24.8	24.0	25.2	25.6	22.0	23.3	22.5	23.7	24.1
4H	2H	20.3	21.7	20.7	22.1	22.5	20.0	21.5	20.4	21.9	22.2
	3H	22.3	23.6	22.7	23.9	24.4	21.8	23.1	22.2	23.4	23.9
	4H	23.3	24.4	23.7	24.8	25.2	22.5	23.7	23.0	24.1	24.5
	6H	24.1	25.2	24.6	25.6	26.0	23.0	24.1	23.5	24.5	25.0
	8H	24.5	25.5	25.0	25.9	26.4	23.2	24.2	23.7	24.6	25.1
	12H	24.9	25.7	25.4	26.2	26.7	23.3	24.2	23.8	24.6	25.1
8H	4H	23.6	24.5	24.1	25.0	25.4	23.0	23.9	23.4	24.3	24.8
	6H	24.6	25.4	25.1	25.9	26.4	23.6	24.4	24.1	24.9	25.4
	8H	25.1	25.9	25.6	26.3	26.8	23.9	24.6	24.4	25.1	25.6
	12H	25.7	26.3	26.2	26.7	27.3	24.0	24.6	24.5	25.1	25.7
12H	4H	23.6	24.5	24.1	25.0	25.4	23.1	23.9	23.5	24.3	24.8
	6H	24.7	25.4	25.2	25.9	26.4	23.8	24.5	24.3	25.0	25.5
	8H	25.3	25.9	25.8	26.4	26.9	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 = 1299</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°		8268.2	8274.0	8267.4	8326.8	8491.4	8815.3	9397.7		
50°		8001.1	7987.9	7978.0	8023.7	8146.6	8455.2	9086.3		
55°		7726.3	7717.2	7701.7	7711.4	7793.7	8083.5	8739.9		
60°		7456.3	7418.6	7390.1	7363.0	7440.2	7686.4	8366.6		
65°		7144.2	7121.5	7037.2	6991.6	7043.5	7268.6	7958.1		
70°		6813.6	6706.9	6626.4	6547.6	6548.6	6710.8	7409.7		
75°		6363.9	6325.0	6122.9	5971.9	5891.2	5983.3	6638.6		
80°		5860.2	5749.4	5528.5	5248.1	5029.0	4912.8	5411.0		
85°		5423.8	5296.4	5012.7	4605.5	4120.7	3626.1	3691.4		

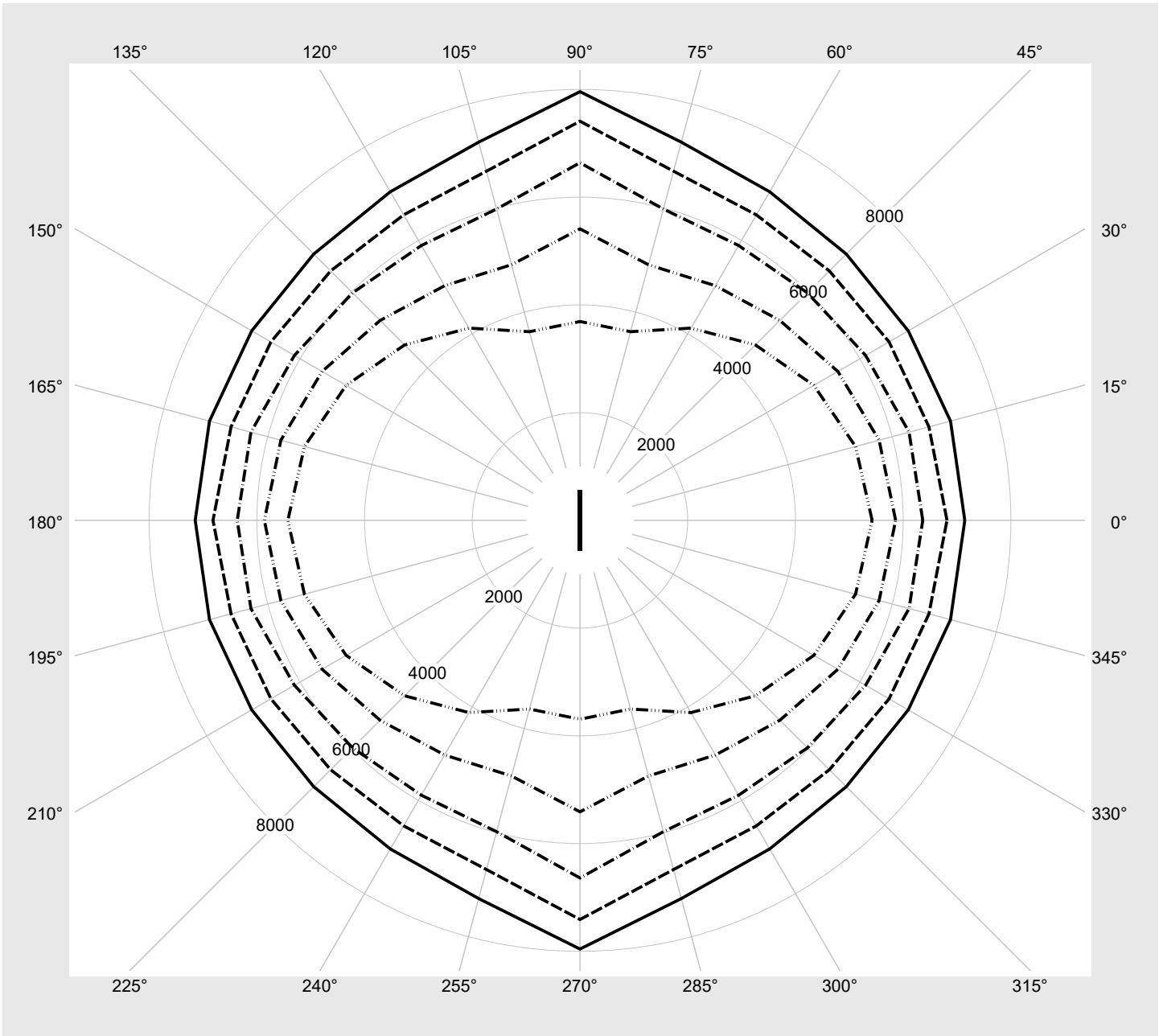
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**Luminance values in cd/m<sup>2</sup>**

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

**siteco**



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<b>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	3850	24.0
95	241	252	3660	22.9
90	228	250	3469	21.8
85	215	248	3277	20.7
80	202	246	3085	19.6
75	189	243	2891	18.4
70	176	241	2696	17.3
65	163	238	2500	16.1
60	150	235	2304	14.9
55	138	232	2122	13.8
50	125	228	1924	12.5
45	112	224	1725	11.4
40	100	220	1541	10.3
35	87	215	1341	9.1
30	75	209	1156	8.0
25	62	202	955	6.9
20	50	194	768	5.8
15	38	184	582	4.9
10	25	169	378	3.8
5	13	145	191	3.1
5	12	142	175	3.0