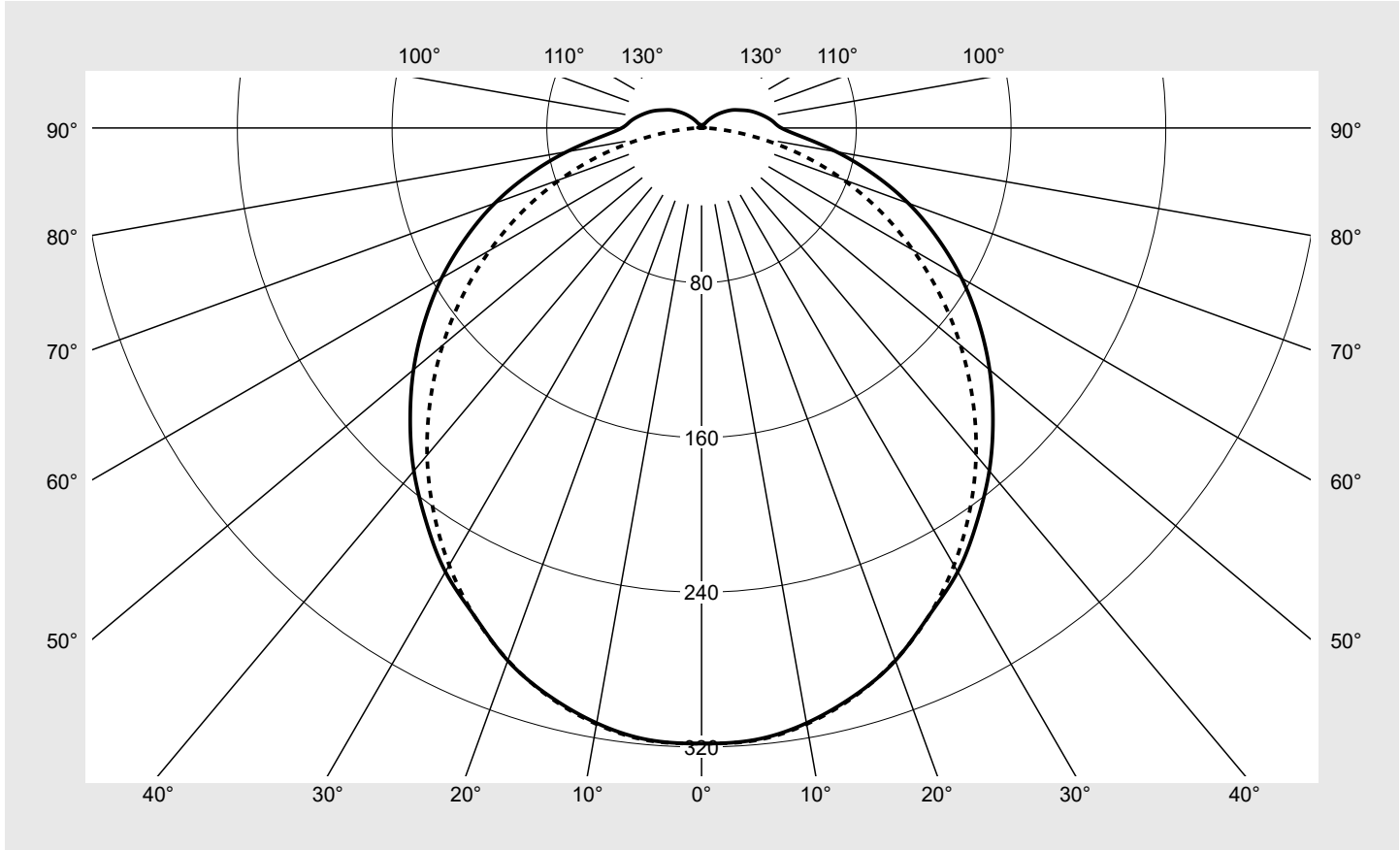


# Photometric test report

<b>Family</b> <b>Monsun® 21</b>	<b>Order number: 51FG20DL430J</b> <b>EAN: 4058352757369</b>	<b>LP number</b> <b>59394_8</b>
	<b>Version</b> prismatic diffuser, opal, polycarbonate, extremely wide distribution <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI <b>Rated values</b> Net luminous flux = 3850 lm Power consumption = 26.4 W Luminous efficacy = 145.8 lm/W	<b>serial documentation</b> <b>10.02.2023</b>
		

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		

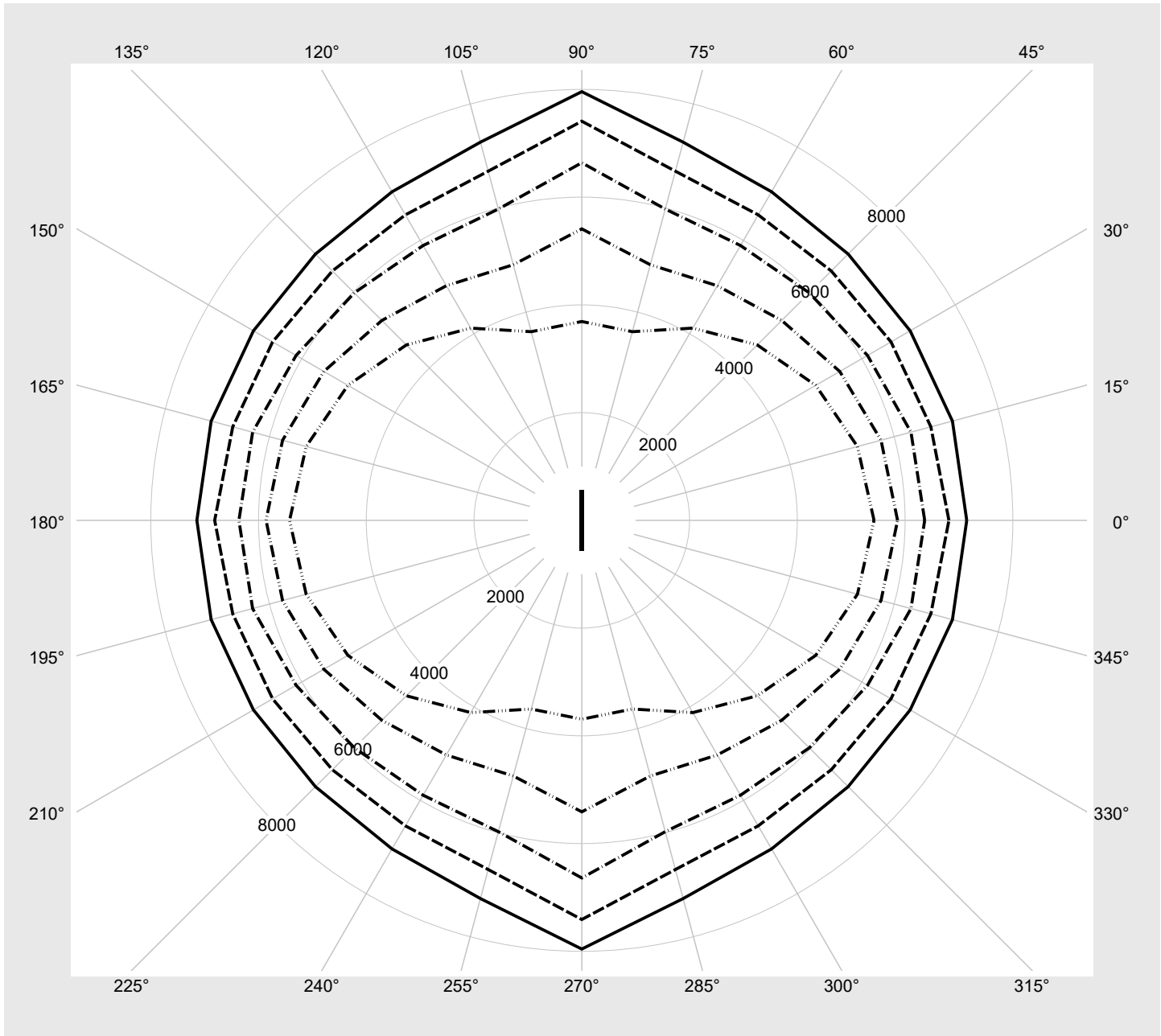
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<b>Family</b> <b>Monsun® 21</b>	<b>Order number: 51FG20DL430J</b> <b>EAN: 4058352757369</b>	<b>LP number</b> <b>59394_8</b>
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**Luminance values in cd/m<sup>2</sup>**

$\gamma$  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	26.4
95	241	252	3660	25.1
90	228	250	3470	23.8
85	214	248	3265	22.5
80	201	245	3074	21.1
75	188	243	2882	19.9
70	175	240	2689	18.6
65	163	238	2508	17.4
60	150	235	2311	16.2
55	137	231	2113	14.9
50	125	228	1931	13.7
45	112	224	1731	12.5
40	100	220	1546	11.3
35	87	215	1345	10.2
30	75	209	1158	8.9
25	62	202	955	7.8
20	50	194	766	6.6
15	38	184	577	5.5
10	26	171	387	4.4
5	14	148	196	3.2
1	5	110	52	2.3