

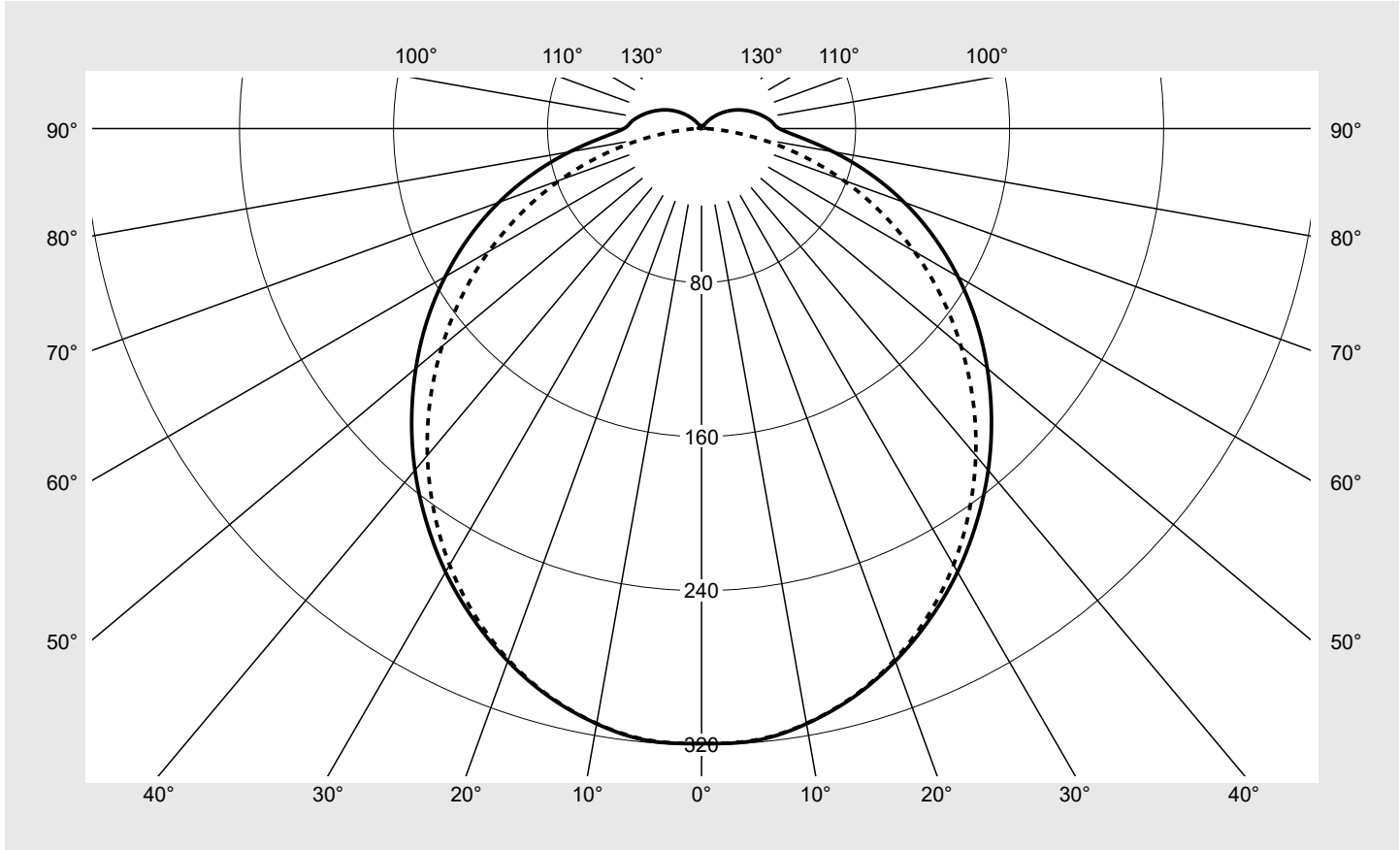


# Photometric test report

<b>Family</b> <b>Monsun® 21</b>	<b>Order number: 51FG20DP440BHR</b> <b>EAN: 4058352583166</b>	<b>LP number</b> <b>59060_96</b>
	<b>Version</b> prismatic diffuser, opal, polycarbonate, wide distribution <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI <b>Rated values</b> Net luminous flux = 4810 lm Power consumption = 34.9 W Luminous efficacy = 137.8 lm/W	<b>serial documentation</b> <b>02.03.2023</b>
		

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 319 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°	319.4	319.4	319.4	319.4	319.4	319.4	319.4	1.9	1.9
5°	319.1	317.8	316.0	317.2	318.6	318.6	318.8	15.2	17.1
10°	313.9	312.8	311.0	312.1	313.5	313.5	313.7	29.8	46.9
15°	305.6	304.7	302.7	303.7	305.0	304.9	305.2	43.2	90.1
20°	294.3	293.5	291.4	292.2	293.3	293.1	293.5	54.9	145.0
25°	280.9	280.2	277.7	277.9	278.8	278.5	278.8	64.6	209.6
30°	265.9	265.3	262.4	261.6	261.9	261.4	261.7	72.0	281.6
35°	249.2	248.5	245.6	243.7	242.9	242.2	242.4	77.0	358.5
40°	231.6	230.8	227.5	224.6	222.7	221.4	221.6	79.5	438.0
45°	212.9	211.8	208.5	204.2	201.3	199.0	199.4	79.5	517.5
50°	193.7	192.3	188.8	183.7	179.4	175.9	176.0	77.3	594.9
55°	174.1	172.4	168.8	162.7	157.2	152.3	152.1	73.1	667.9
60°	153.8	152.1	148.1	141.4	134.9	128.8	127.5	66.9	734.9
65°	133.1	131.4	127.0	119.9	112.8	105.5	102.8	59.2	794.0
70°	112.0	110.4	105.0	98.0	90.2	82.2	78.2	49.9	843.9
75°	90.5	88.8	83.0	75.7	67.3	58.8	53.6	39.3	883.2
80°	69.4	67.4	62.0	54.0	45.3	36.4	30.4	28.3	911.6
85°	51.2	49.1	43.8	35.9	26.7	17.7	11.3	18.6	930.2
90°	40.3	38.3	33.0	25.3	16.4	7.5	1.9	12.9	943.1
95°	36.9	35.1	30.2	22.8	14.1	5.6	1.6	11.6	954.7
100°	33.7	31.9	27.1	20.1	11.9	4.0	1.5	10.1	964.8
105°	30.1	28.5	23.8	17.3	9.5	2.6	1.3	8.6	973.4
110°	26.5	24.6	20.5	14.4	7.3	1.5	1.2	7.1	980.4
115°	22.8	21.1	17.3	11.6	5.2	1.3	1.2	5.7	986.1
120°	19.1	17.5	14.1	8.9	3.4	1.3	1.1	4.4	990.5
125°	15.4	13.9	10.8	6.2	1.7	1.2	1.0	3.2	993.6
130°	11.8	10.5	7.7	3.9	1.4	1.2	1.0	2.2	995.8
135°	8.3	7.2	5.0	2.0	1.4	1.2	1.1	1.4	997.2
140°	5.1	4.3	2.5	1.6	1.3	1.1	1.0	0.8	998.0
145°	2.4	2.0	1.8	1.6	1.4	1.2	1.2	0.5	998.5
150°	1.9	1.9	1.8	1.5	1.4	1.3	1.2	0.4	999.0
155°	1.8	1.8	1.6	1.5	1.4	1.3	1.3	0.4	999.3
160°	1.6	1.6	1.5	1.5	1.4	1.4	1.3	0.3	999.6
165°	1.5	1.5	1.4	1.4	1.4	1.4	1.3	0.2	999.8
170°	1.4	1.4	1.4	1.4	1.4	1.4	1.3	0.1	999.9
175°	1.3	1.3	1.3	1.4	1.4	1.4	1.3	0.1	1000.0
180°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	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	19.6	21.3	19.9	21.6	21.9	19.4	21.1	19.7	21.4	21.7
	3H	21.4	22.9	21.8	23.3	23.6	20.9	22.5	21.3	22.8	23.2
	4H	22.2	23.7	22.6	24.0	24.4	21.5	23.0	21.9	23.4	23.7
	6H	22.9	24.3	23.3	24.7	25.0	22.0	23.3	22.4	23.7	24.1
	8H	23.3	24.5	23.7	24.9	25.3	22.1	23.4	22.5	23.8	24.2
	12H	23.5	24.8	24.0	25.1	25.6	22.2	23.4	22.6	23.8	24.2
4H	2H	20.3	21.8	20.7	22.1	22.5	20.2	21.6	20.5	22.0	22.3
	3H	22.3	23.6	22.7	24.0	24.4	21.9	23.2	22.3	23.6	24.0
	4H	23.3	24.4	23.7	24.8	25.3	22.6	23.8	23.1	24.2	24.6
	6H	24.1	25.1	24.6	25.6	26.0	23.2	24.2	23.6	24.6	25.1
	8H	24.5	25.5	25.0	25.9	26.4	23.3	24.3	23.8	24.7	25.2
	12H	24.9	25.7	25.4	26.2	26.7	23.4	24.3	23.9	24.8	25.2
8H	4H	23.6	24.5	24.1	25.0	25.5	23.1	24.0	23.5	24.4	24.9
	6H	24.6	25.4	25.1	25.9	26.4	23.7	24.5	24.2	25.0	25.5
	8H	25.1	25.8	25.6	26.3	26.8	24.0	24.7	24.5	25.2	25.7
	12H	25.6	26.2	26.1	26.7	27.3	24.2	24.8	24.7	25.3	25.8
12H	4H	23.7	24.5	24.1	25.0	25.4	23.2	24.0	23.6	24.4	24.9
	6H	24.7	25.4	25.2	25.9	26.4	23.9	24.6	24.4	25.1	25.6
	8H	25.3	25.9	25.8	26.4	26.9	24.2	24.8	24.7	25.3	25.8

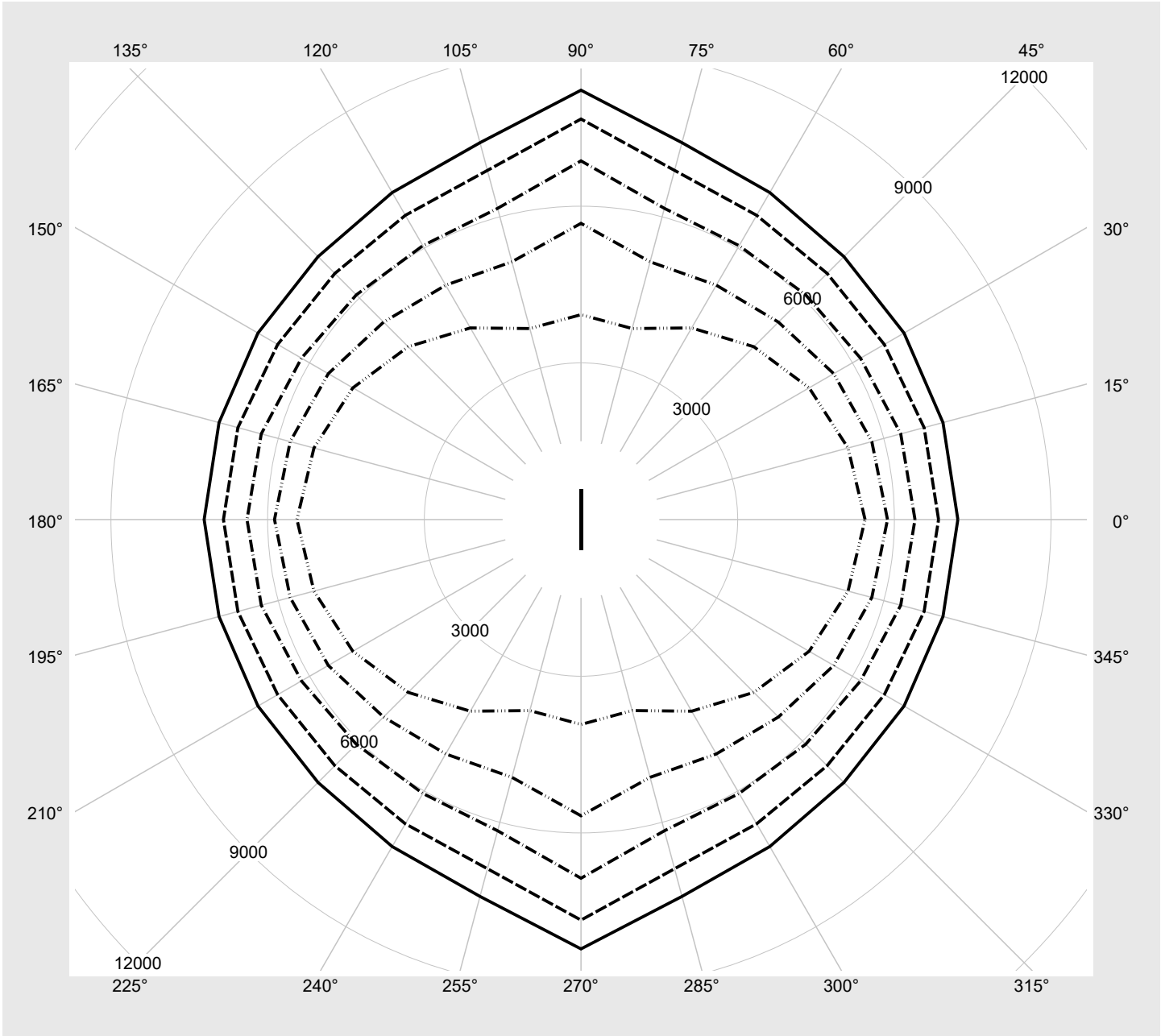
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1590</b>	<b>H(C0) = 21</b>	<b>H(C180) = 21</b>
			<b>B = 87</b>	<b>H(C90) = 21</b>	<b>H(C270) = 21</b>

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°		8435.6	8423.9	8433.4	8510.9	8741.6	9100.6	9675.7	
50°		8138.0	8114.2	8127.0	8183.1	8385.0	8731.2	9371.6	
55°		7849.1	7810.6	7822.3	7845.7	8017.0	8337.0	9048.9	
60°		7540.3	7502.2	7499.1	7498.2	7635.6	7923.5	8669.1	
65°		7215.5	7175.1	7142.2	7119.7	7230.0	7470.9	8221.2	
70°		6846.1	6801.4	6706.4	6665.2	6726.7	6921.7	7669.4	
75°		6394.8	6337.8	6180.2	6084.3	6055.9	6169.2	6867.9	
80°		5868.4	5764.9	5587.2	5346.3	5182.0	5110.0	5672.0	
85°		5438.9	5293.4	5044.1	4680.0	4237.0	3786.7	3923.2	

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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>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	4810	34.9
95	240	252	4561	33.1
90	227	250	4326	31.2
85	214	248	4090	29.6
80	201	245	3852	27.8
75	188	243	3613	26.2
70	175	240	3372	24.5
65	162	238	3130	22.7
60	149	234	2886	21.1
55	136	231	2640	19.5
50	124	228	2411	18.0
45	111	224	2162	16.3
40	99	219	1932	14.8
35	86	214	1680	13.2
30	74	209	1448	11.6
25	61	202	1194	9.9
20	49	194	957	8.5
15	37	183	719	7.1
10	25	169	480	5.6
5	13	145	240	4.3
3	8	127	139	3.7