

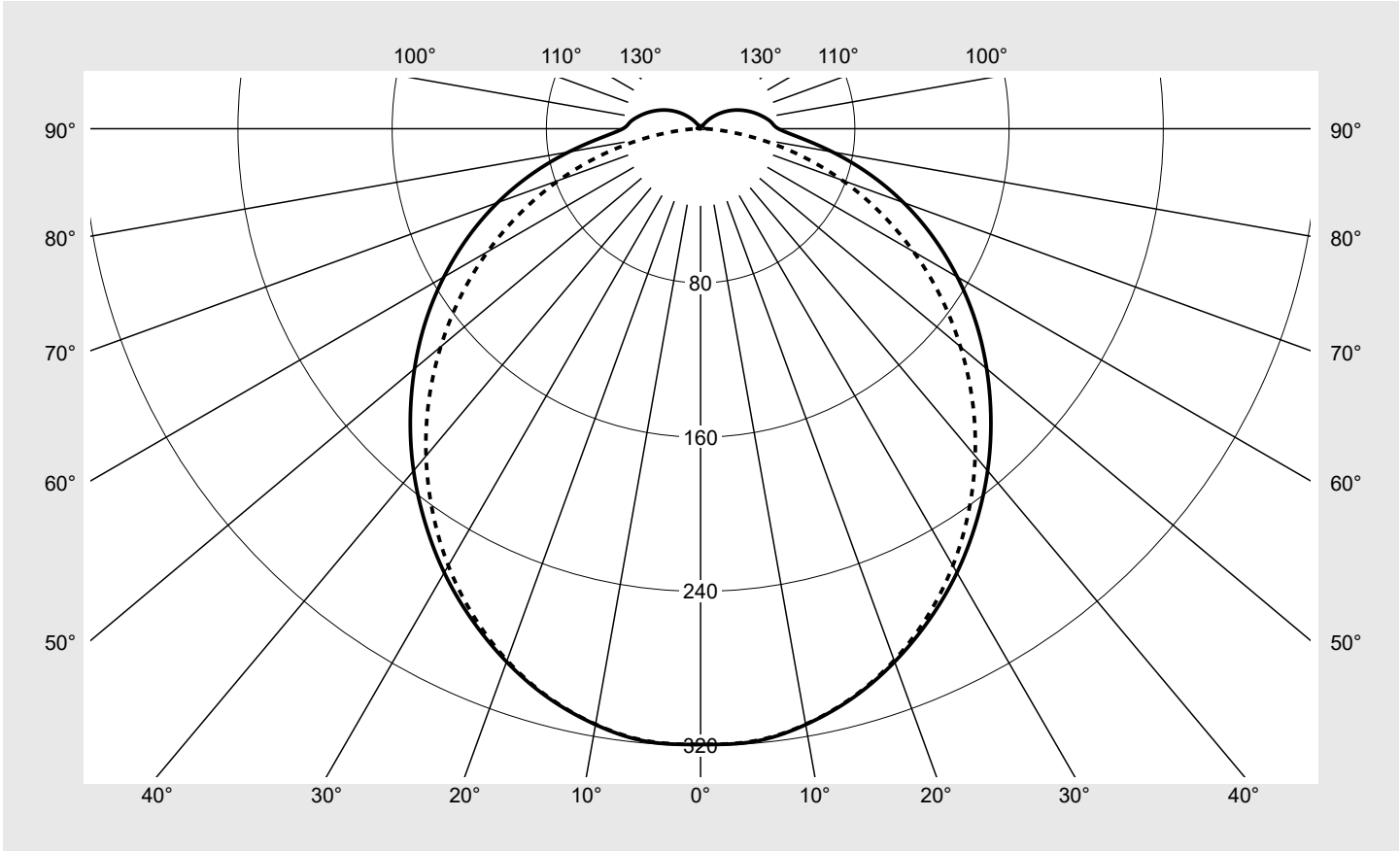


# Photometric test report

<b>Family</b> <b>Monsun® 11</b>	<b>Order number: 51FP20DP4B0U</b> <b>EAN: 4069025242594</b>	<b>LP number</b> <b>59060_133</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 = 10950 lm Power consumption = 63.7 W Luminous efficacy = 171.9 lm/W	<b>serial documentation</b> <b>20.08.2024</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 $\gamma$	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	22.4	24.1	22.8	24.4	24.8	22.2	24.0	22.6	24.3	24.6
	3H	24.2	25.8	24.6	26.1	26.5	23.8	25.4	24.2	25.7	26.0
	4H	25.1	26.5	25.4	26.9	27.2	24.4	25.9	24.8	26.2	26.6
	6H	25.8	27.1	26.2	27.5	27.9	24.8	26.2	25.2	26.6	27.0
	8H	26.1	27.4	26.5	27.8	28.2	25.0	26.3	25.4	26.6	27.0
	12H	26.4	27.6	26.8	28.0	28.4	25.0	26.3	25.4	26.7	27.1
4H	2H	23.2	24.6	23.5	25.0	25.4	23.0	24.5	23.4	24.8	25.2
	3H	25.2	26.4	25.6	26.8	27.2	24.8	26.0	25.2	26.4	26.8
	4H	26.1	27.3	26.6	27.7	28.1	25.5	26.6	25.9	27.1	27.5
	6H	27.0	28.0	27.4	28.4	28.9	26.0	27.0	26.5	27.5	27.9
	8H	27.4	28.3	27.8	28.7	29.2	26.2	27.1	26.7	27.6	28.0
	12H	27.8	28.6	28.2	29.0	29.5	26.3	27.2	26.8	27.6	28.1
8H	4H	26.5	27.4	26.9	27.8	28.3	25.9	26.9	26.4	27.3	27.8
	6H	27.5	28.3	28.0	28.7	29.2	26.6	27.4	27.1	27.9	28.3
	8H	28.0	28.7	28.5	29.2	29.7	26.8	27.6	27.3	28.0	28.5
	12H	28.5	29.1	29.0	29.6	30.1	27.0	27.6	27.5	28.1	28.6
12H	4H	26.5	27.4	27.0	27.8	28.3	26.0	26.8	26.5	27.3	27.8
	6H	27.6	28.3	28.1	28.8	29.3	26.8	27.4	27.3	27.9	28.4
	8H	28.1	28.7	28.6	29.2	29.8	27.0	27.6	27.6	28.1	28.7

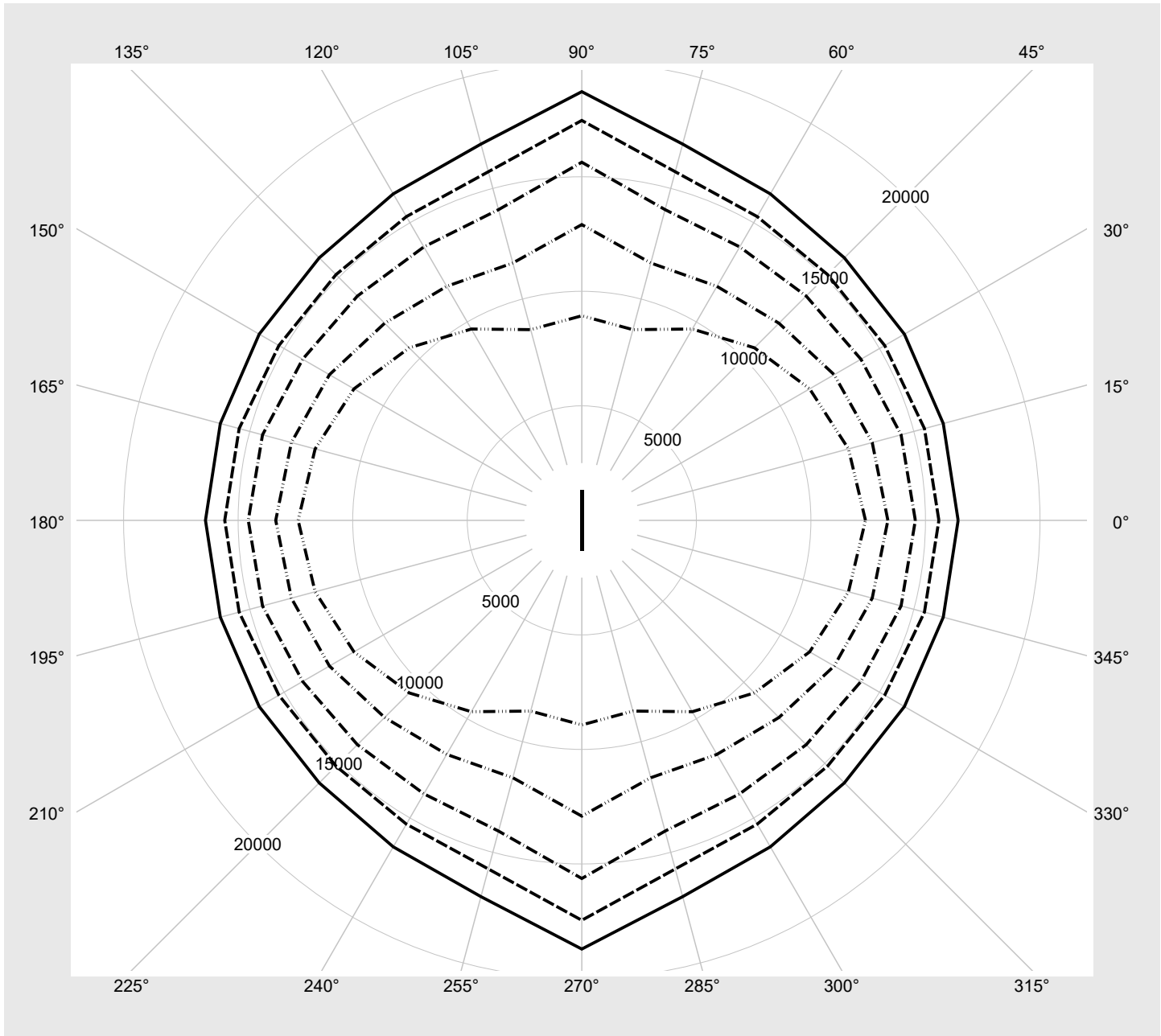
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1590</b>	<b>H(C0) = 21</b>	<b>H(C180) = 21</b>
			<b>B = 87</b>	<b>H(C90) = 21</b>	<b>H(C270) = 21</b>

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°		19203.7	19177.2	19198.7	19375.1	19900.3	20717.5	22026.8	
50°		18526.3	18472.0	18501.1	18628.8	19088.6	19876.7	21334.4	
55°		17868.5	17780.9	17807.5	17860.7	18250.8	18979.2	20599.8	
60°		17165.5	17078.7	17071.6	17069.7	17382.6	18037.8	19735.4	
65°		16426.2	16334.2	16259.3	16208.0	16459.1	17007.4	18715.7	
70°		15585.2	15483.5	15267.1	15173.5	15313.5	15757.3	17459.4	
75°		14557.9	14428.1	14069.3	13851.0	13786.2	14044.2	15634.9	
80°		13359.5	13123.8	12719.4	12170.8	11796.8	11633.0	12912.3	
85°		12381.8	12050.5	11483.0	10653.9	9645.7	8620.5	8931.2	

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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	10950	63.7
95	240	252	10385	60.2
90	227	250	9858	56.9
85	214	248	9325	53.6
80	200	245	8749	50.1
75	187	243	8208	46.8
70	174	240	7666	43.5
65	161	237	7120	40.4
60	148	234	6569	37.2
55	135	231	6013	34.1
50	122	227	5453	30.9
45	110	223	4932	28.1
40	97	219	4363	24.9
35	85	214	3833	21.9
30	73	208	3302	19.0
25	60	201	2719	15.8
20	48	193	2175	12.9
15	36	182	1628	9.9
10	24	168	1075	6.7
5	13	145	567	3.8
2	5	110	193	1.5