



# Photometric test report

<b>Family</b> <b>Monsun® 12</b>	<b>Order number: 51FP10DP660H</b> <b>EAN: 4058352392928</b>	<b>LP number</b> <b>58939_26</b>
	<b>Version</b> prismatic diffuser, opal, PMMA, wide distribution <b>Lamps</b> LED 6500 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI <b>Rated values</b> Net luminous flux = 5970 lm Power consumption = 34.6 W Luminous efficacy = 172.5 lm/W	<b>serial documentation</b> <b>08.04.2020</b>
		

**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 340 cd/klm**



Classifications	
DIN 5040	A 4 1
CIE	N1=47 N2=77 N3=93 N4=94 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	94.2%
$\phi_o$	5.8%

**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°	340.1	340.1	340.1	340.1	340.1	340.1	340.1	2.0	2.0
5°	339.4	338.3	336.5	337.9	339.5	339.4	339.8	16.2	18.2
10°	333.5	333.0	331.2	332.8	334.6	334.7	335.0	31.7	49.9
15°	324.2	324.2	322.5	324.2	326.1	326.4	326.9	46.1	96.0
20°	311.0	311.6	310.1	311.9	314.1	314.7	315.3	58.6	154.6
25°	294.4	295.4	294.1	296.0	298.4	299.4	300.2	68.7	223.4
30°	275.2	276.6	275.1	276.8	279.4	280.7	281.6	76.1	299.5
35°	253.9	255.2	253.8	254.9	257.1	258.4	259.7	80.5	380.0
40°	231.8	232.9	231.3	231.1	232.5	233.8	235.1	81.9	461.9
45°	209.4	209.9	207.8	205.9	206.1	206.6	208.2	80.4	542.4
50°	187.2	187.1	184.8	181.3	179.3	178.3	179.7	76.6	619.0
55°	165.5	164.8	162.1	157.0	153.1	150.2	150.9	70.7	689.7
60°	143.9	142.9	139.5	133.7	127.9	123.2	122.7	63.3	753.0
65°	123.6	122.5	117.8	111.0	104.2	97.9	96.0	54.9	808.0
70°	104.7	103.3	97.1	89.4	81.7	74.3	71.0	45.8	853.8
75°	86.1	84.4	77.8	69.2	60.2	52.2	47.8	36.3	890.0
80°	68.0	66.1	60.2	50.5	40.7	32.1	26.9	26.7	916.7
85°	51.8	50.0	44.6	35.3	24.7	15.7	10.1	18.3	935.0
90°	40.8	39.2	34.4	26.0	15.9	6.9	1.8	13.1	948.2
95°	34.8	33.5	29.7	22.7	13.6	5.1	1.6	11.2	959.3
100°	29.9	28.8	25.4	19.2	11.3	3.7	1.4	9.4	968.7
105°	25.7	24.7	21.4	16.1	8.8	2.4	1.2	7.7	976.4
110°	22.1	20.9	18.0	13.0	6.6	1.4	1.1	6.1	982.5
115°	19.0	17.8	15.0	10.4	4.7	1.2	1.1	4.9	987.4
120°	16.0	14.8	12.2	7.9	3.1	1.2	1.0	3.8	991.2
125°	13.0	11.9	9.4	5.6	1.7	1.1	0.9	2.7	993.9
130°	10.1	9.1	6.9	3.7	1.4	1.1	1.0	1.9	995.9
135°	7.3	6.5	4.6	2.1	1.4	1.1	1.1	1.3	997.1
140°	4.8	4.1	2.7	1.7	1.4	1.1	1.1	0.8	998.0
145°	2.6	2.3	1.9	1.7	1.4	1.2	1.2	0.5	998.5
150°	2.0	2.0	1.9	1.6	1.3	1.3	1.3	0.4	998.9
155°	1.9	1.9	1.7	1.6	1.4	1.4	1.4	0.4	999.3
160°	1.7	1.7	1.6	1.4	1.4	1.4	1.4	0.3	999.6
165°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.2	999.8
170°	1.3	1.4	1.4	1.4	1.4	1.4	1.4	0.1	999.9
175°	1.4	1.4	1.4	1.4	1.4	1.4	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	20.0	21.7	20.4	22.0	22.4	20.0	21.7	20.4	22.0	22.3
	3H	21.8	23.3	22.1	23.6	24.0	21.4	22.9	21.8	23.3	23.6
	4H	22.6	24.0	23.0	24.4	24.8	21.9	23.4	22.3	23.7	24.1
	6H	23.3	24.7	23.7	25.0	25.4	22.3	23.6	22.7	24.0	24.4
	8H	23.7	25.0	24.1	25.3	25.7	22.4	23.7	22.8	24.1	24.5
	12H	24.0	25.2	24.5	25.6	26.0	22.5	23.7	22.9	24.1	24.5
4H	2H	20.7	22.2	21.1	22.5	22.9	20.7	22.2	21.1	22.5	22.9
	3H	22.7	23.9	23.1	24.3	24.7	22.3	23.5	22.7	23.9	24.3
	4H	23.6	24.8	24.1	25.2	25.6	22.9	24.1	23.4	24.5	24.9
	6H	24.5	25.5	25.0	26.0	26.4	23.4	24.4	23.9	24.8	25.3
	8H	25.0	25.9	25.4	26.3	26.8	23.6	24.5	24.0	24.9	25.4
	12H	25.4	26.2	25.9	26.6	27.1	23.7	24.5	24.1	24.9	25.4
8H	4H	23.9	24.9	24.4	25.3	25.8	23.3	24.3	23.8	24.7	25.2
	6H	25.0	25.8	25.5	26.3	26.8	24.0	24.7	24.4	25.2	25.7
	8H	25.6	26.3	26.1	26.7	27.2	24.2	24.9	24.7	25.3	25.9
	12H	26.1	26.7	26.6	27.2	27.7	24.3	24.9	24.8	25.4	25.9
12H	4H	24.0	24.8	24.5	25.3	25.8	23.4	24.2	23.9	24.7	25.2
	6H	25.1	25.8	25.6	26.3	26.8	24.1	24.8	24.6	25.3	25.8
	8H	25.7	26.3	26.2	26.8	27.3	24.4	25.0	24.9	25.5	26.0

<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°		10294.0	10357.8	10433.6	10651.7	11111.5	11726.9	12540.4	
50°		9763.2	9799.4	9872.6	10023.2	10402.3	10986.7	11878.1	
55°		9257.9	9268.6	9325.4	9398.9	9691.9	10202.6	11141.9	
60°		8758.4	8751.1	8766.3	8794.1	8987.2	9409.0	10356.5	
65°		8319.4	8299.3	8229.1	8176.9	8291.7	8609.1	9533.9	
70°		7942.4	7897.5	7692.6	7547.3	7560.7	7766.8	8650.1	
75°		7549.3	7478.0	7191.1	6899.5	6728.3	6797.7	7599.5	
80°		7132.7	7014.3	6726.8	6208.3	5775.9	5583.7	6214.6	
85°		6828.7	6684.2	6371.6	5721.5	4863.4	4167.2	4340.2	

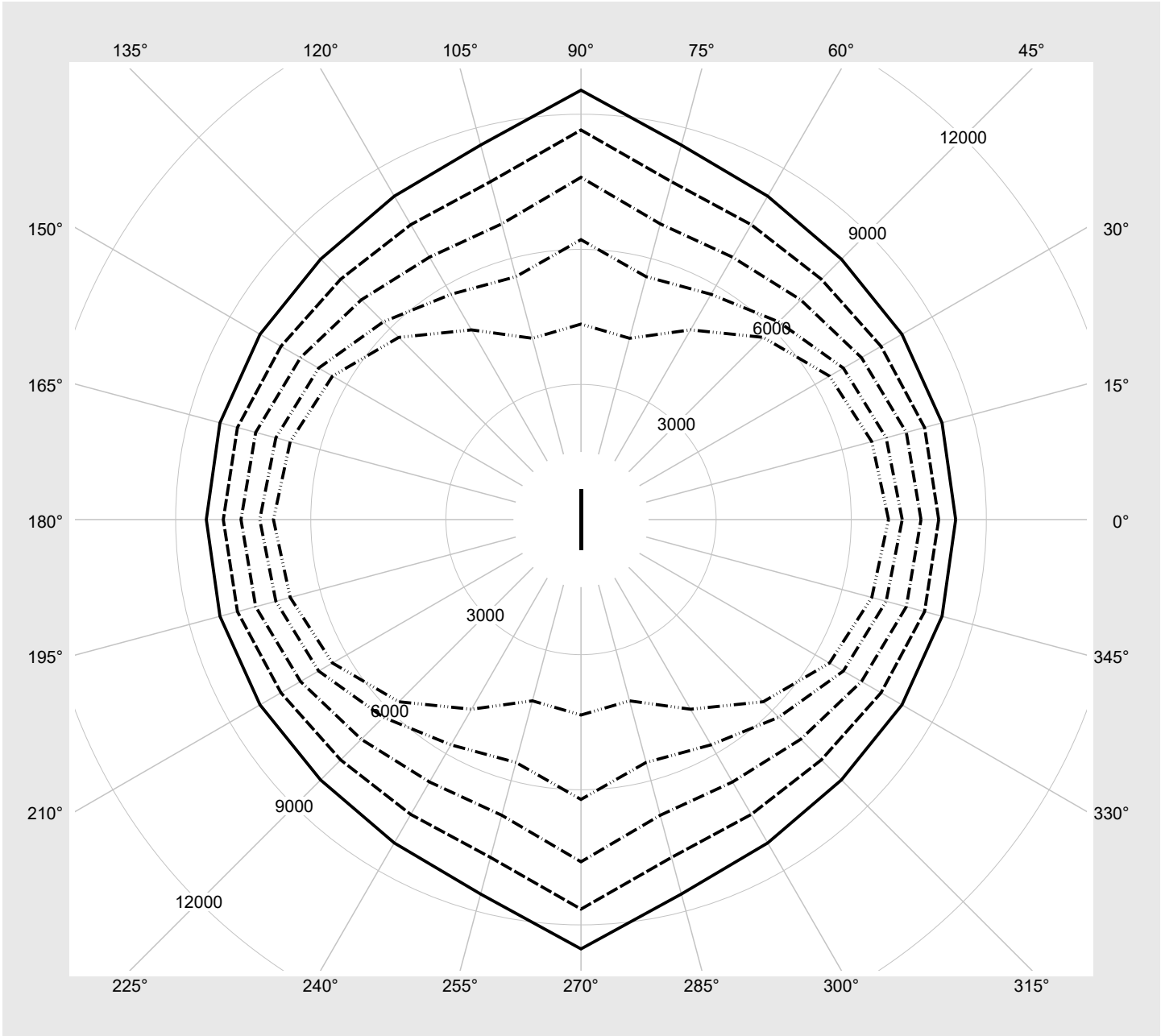
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**Luminance values in cd/m<sup>2</sup>**

$\gamma$  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	5970	34.6
95	241	252	5678	33.0
90	228	250	5383	31.3
85	214	248	5064	29.4
80	201	246	4765	27.7
75	189	244	4486	26.2
70	176	241	4184	24.5
65	163	239	3880	22.8
60	150	236	3574	21.2
55	138	233	3290	19.6
50	125	230	2981	18.0
45	113	227	2694	16.4
40	100	223	2382	14.8
35	88	219	2092	13.2
30	75	214	1779	11.5
25	63	209	1487	10.0
20	51	202	1193	8.4
15	39	195	897	7.0
10	27	187	600	5.5
5	15	176	301	4.1