

## Photometric test report

Family  
**Monsun® 12**

Order number: **51FP20DP4B0Q**  
EAN: **4058352392393**

LP number  
**59060\_43**



**Version** prismatic diffuser, opal, polycarbonate, wide distribution  
**Lamps** LED 4000 K | CRI ≥ 80  
**Controlgear** ECG-DALI  
**Rated values** Net luminous flux = 10950 lm  
Power consumption = 67.6 W  
Luminous efficacy = 162 lm/W

serial  
documentation  
26.08.2020

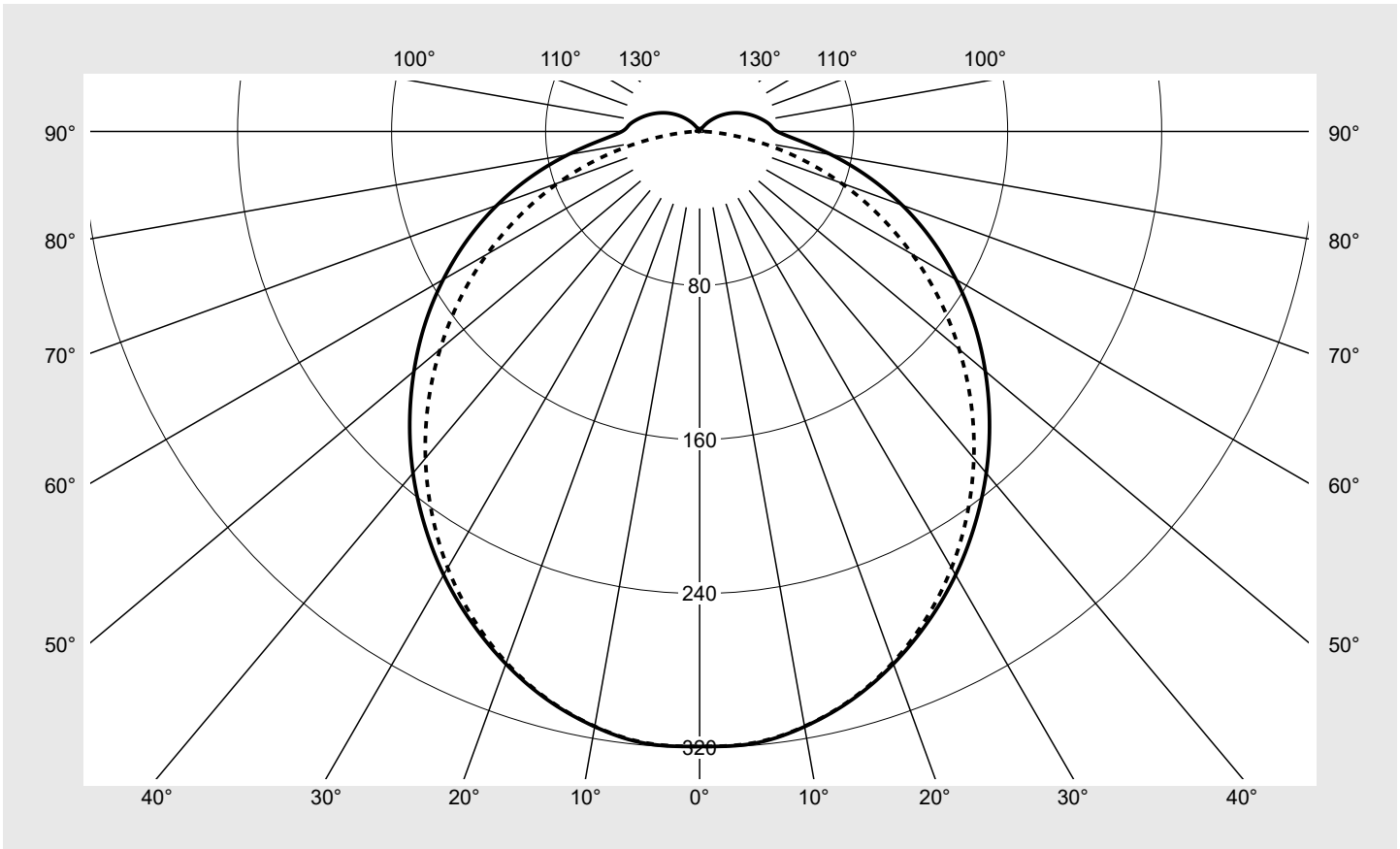
sitEco

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	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	

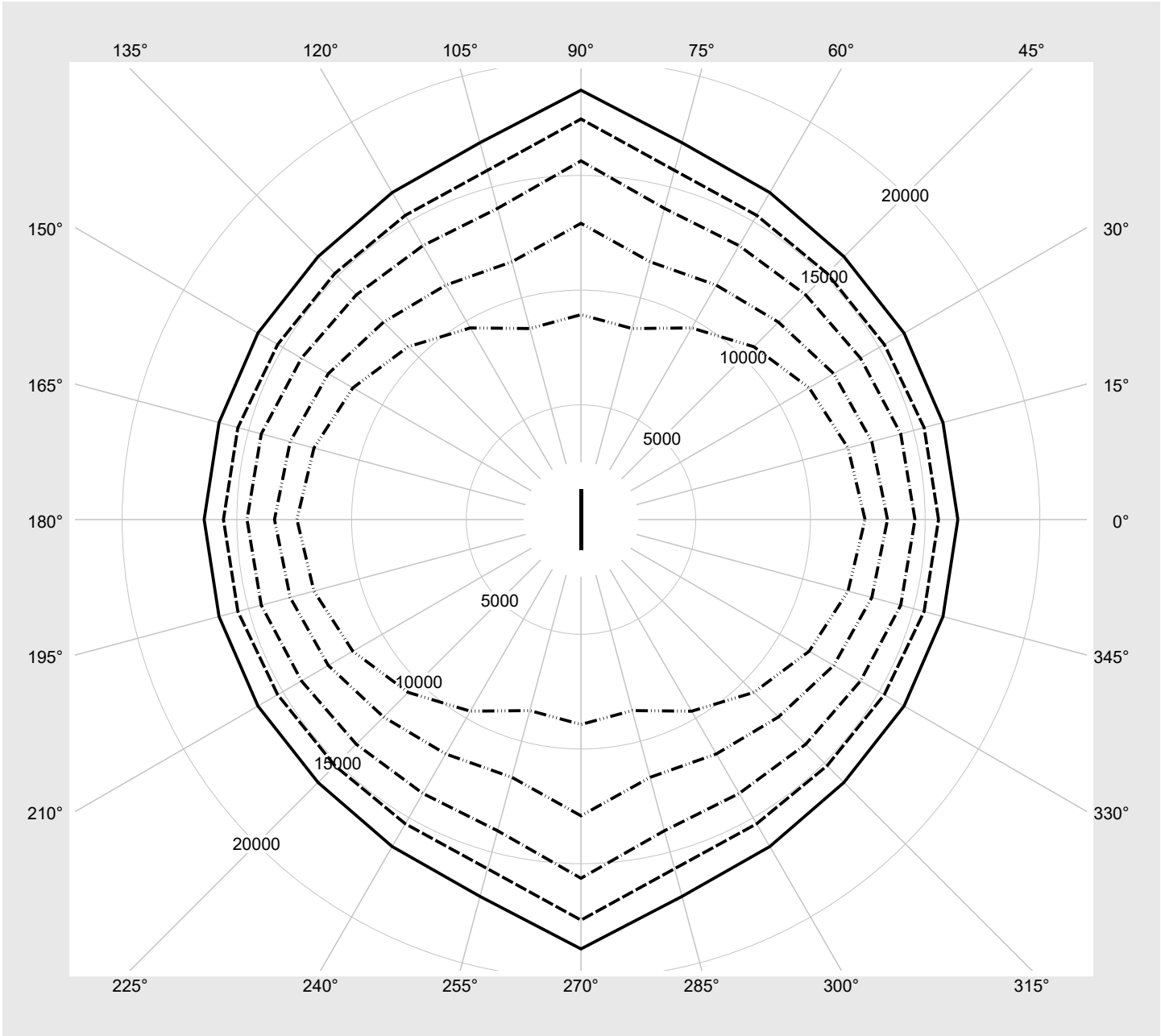
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**Luminance values in cd/m<sup>2</sup>**       $\gamma$  65°      $\gamma$  70°      $\gamma$  75°      $\gamma$  80°      $\gamma$  85°



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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	67.6
95	241	252	10417	64.1
90	227	250	9840	60.4
85	214	248	9298	57.0
80	201	245	8754	53.6
75	188	243	8205	50.1
70	175	240	7652	46.8
65	162	238	7097	43.3
60	150	235	6581	40.3
55	137	231	6018	37.1
50	124	228	5455	33.6
45	112	224	4929	30.6
40	100	220	4399	27.5
35	87	215	3822	24.2
30	75	209	3286	21.1
25	63	203	2746	18.1
20	51	195	2204	15.0
15	39	185	1658	12.0
10	27	172	1110	9.0
5	15	150	558	5.9
1	5	110	97	3.3