

## Photometric test report

Family  
**Monsun® 12**

Order number: **51FP20TP960X**  
EAN: **4058352392416**

LP number  
**59060\_32**



**Version** prismatic diffuser, opal, polycarbonate, wide distribution

**Lamps** LED 2700 K ... 6500 K | CRI ≥ 80

**Controlgear** ECG-DALI

**Setting** individual position

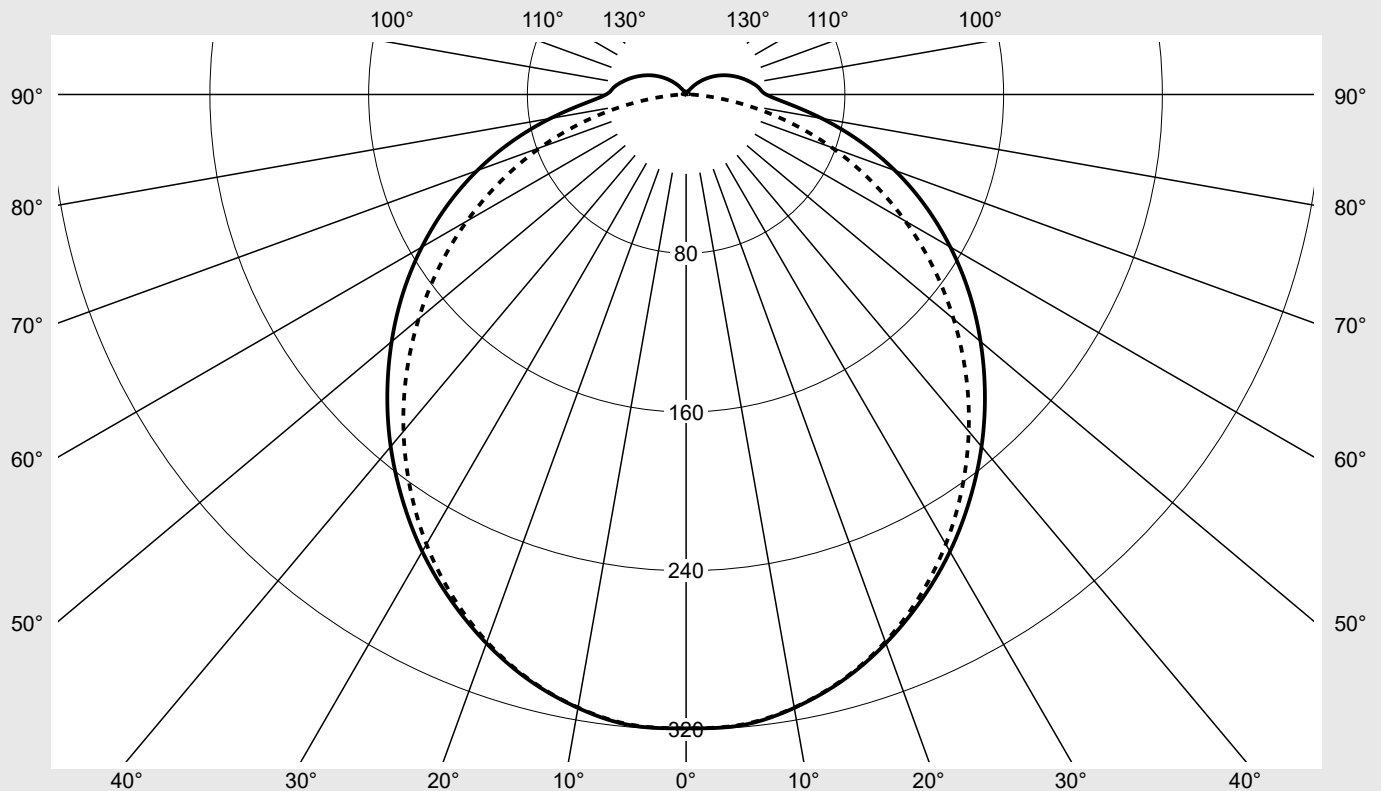
**Rated values** at 2700 K  
Net luminous flux = 5420 lm  
Power consumption = 39.8 W  
Luminous efficacy = 136.2 lm/W

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	20.0	21.7	20.3	22.0	22.3	19.8	21.5	20.1	21.8	22.1
	3H	21.8	23.4	22.2	23.7	24.0	21.3	22.9	21.7	23.2	23.6
	4H	22.6	24.1	23.0	24.4	24.8	21.9	23.4	22.3	23.8	24.2
	6H	23.3	24.7	23.7	25.1	25.5	22.4	23.8	22.8	24.1	24.5
	8H	23.7	25.0	24.1	25.3	25.7	22.5	23.8	22.9	24.2	24.6
	12H	24.0	25.2	24.4	25.6	26.0	22.6	23.8	23.0	24.2	24.6
4H	2H	20.7	22.2	21.1	22.5	22.9	20.6	22.0	21.0	22.4	22.8
	3H	22.7	24.0	23.1	24.4	24.8	22.3	23.6	22.7	24.0	24.4
	4H	23.7	24.8	24.1	25.2	25.7	23.0	24.2	23.5	24.6	25.0
	6H	24.5	25.6	25.0	26.0	26.4	23.6	24.6	24.0	25.0	25.5
	8H	24.9	25.9	25.4	26.3	26.8	23.8	24.7	24.2	25.1	25.6
	12H	25.3	26.1	25.8	26.6	27.1	23.9	24.7	24.3	25.2	25.7
8H	4H	24.0	25.0	24.5	25.4	25.9	23.5	24.4	23.9	24.8	25.3
	6H	25.1	25.8	25.5	26.3	26.8	24.2	24.9	24.6	25.4	25.9
	8H	25.5	26.3	26.0	26.7	27.2	24.4	25.1	24.9	25.6	26.1
	12H	26.0	26.6	26.6	27.1	27.7	24.6	25.2	25.1	25.7	26.2
12H	4H	24.1	24.9	24.5	25.4	25.9	23.6	24.4	24.1	24.9	25.3
	6H	25.1	25.8	25.6	26.3	26.8	24.3	25.0	24.8	25.5	26.0
	8H	25.7	26.3	26.2	26.8	27.3	24.6	25.2	25.1	25.7	26.2

<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°	45°	9505.4	9492.3	9502.9	9590.3	9850.2	10254.7	10902.8	
50°	50°	9170.1	9143.2	9157.6	9220.8	9448.4	9838.5	10560.1	
55°	55°	8844.5	8801.2	8814.3	8840.7	9033.7	9394.3	10196.4	
60°	60°	8496.5	8453.6	8450.1	8449.1	8604.0	8928.3	9768.6	
65°	65°	8130.6	8085.1	8048.0	8022.6	8146.9	8418.3	9263.8	
70°	70°	7714.3	7664.0	7556.9	7510.5	7579.8	7799.5	8642.0	
75°	75°	7205.8	7141.6	6964.0	6855.9	6823.9	6951.6	7738.9	
80°	80°	6612.7	6496.0	6295.8	6024.3	5839.2	5758.1	6391.3	
85°	85°	6128.7	5964.7	5683.8	5273.5	4774.4	4266.9	4420.7	

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

$\gamma$  65°   
   $\gamma$  70°   
   $\gamma$  75°   
   $\gamma$  80°   
   $\gamma$  85°

**siteco**

