

## Photometric test report

Family  
**Monsun® 12**

Order number: **51FP11MP4B0Q**  
EAN: **4058352376447**

LP number  
**59019\_2**



**Version** prismatic diffuser, opal, PMMA, narrow distribution  
**Lamps** LED 4000 K | CRI ≥ 80  
**Controlgear** ECG Multilumen  
**Rated values** Net luminous flux = 11900 lm  
Power consumption = 66.2 W  
Luminous efficacy = 179.8 lm/W

serial  
documentation  
**08.04.2020**

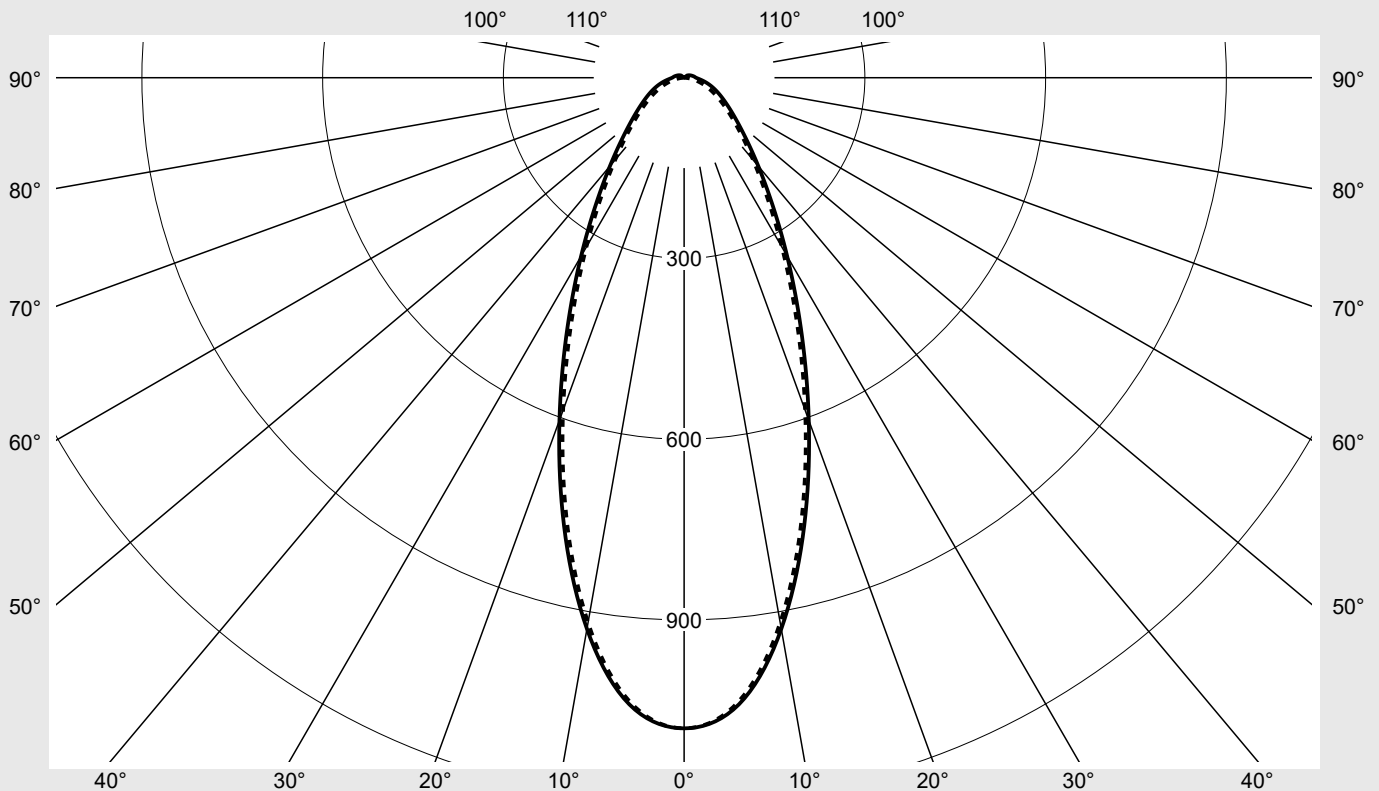
sitEco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 1080 cd/klm



### Classifications

DIN 5040 A 6 1  
CIE N1=71 N2=88 N3=97  
N4=97 N5=100

### Luminaire light output ratios

$\eta_{LB}$  100.0%  
 $\phi_u$  96.9%  
 $\phi_o$  3.1%

### 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°	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9	6.5	6.5
5°	1044.1	1038.4	1031.7	1035.3	1039.5	1039.0	1039.1	49.6	56.0
10°	928.9	922.4	915.7	917.5	920.1	918.5	918.3	87.5	143.6
15°	770.1	763.9	757.2	757.4	758.0	755.5	755.0	107.7	251.3
20°	605.0	599.5	593.3	591.7	590.9	587.9	587.3	111.2	362.5
25°	458.5	454.5	449.0	446.4	444.8	441.1	440.5	103.7	466.1
30°	342.0	338.7	334.1	331.0	328.6	325.2	324.5	90.9	557.1
35°	254.0	251.7	248.1	244.8	241.8	239.0	238.5	77.1	634.2
40°	191.6	189.9	187.1	183.8	180.7	178.3	178.0	64.9	699.1
45°	147.4	145.9	143.8	140.3	137.3	134.9	134.9	54.5	753.5
50°	116.4	115.3	113.5	110.2	106.8	104.2	104.2	46.2	799.8
55°	94.3	93.4	91.7	88.3	84.5	81.6	81.3	39.5	839.2
60°	77.6	76.8	75.1	71.6	67.5	64.0	63.3	33.7	872.9
65°	64.3	63.6	61.7	58.1	53.7	49.8	48.5	28.4	901.3
70°	52.9	52.3	50.1	46.3	41.6	37.4	35.6	23.4	924.7
75°	42.6	42.0	39.6	35.6	30.6	26.2	23.9	18.3	943.0
80°	33.0	32.3	30.1	25.7	20.6	16.1	13.5	13.3	956.3
85°	24.9	24.2	22.0	17.7	12.5	7.9	5.1	9.0	965.3
90°	19.7	19.1	17.0	12.9	7.9	3.4	0.9	6.5	971.8
95°	17.4	16.8	15.0	11.4	6.8	2.6	0.7	5.6	977.4
100°	15.2	14.7	13.0	9.7	5.7	1.8	0.7	4.8	982.1
105°	13.2	12.6	11.0	8.1	4.4	1.2	0.6	3.9	986.0
110°	11.3	10.7	9.1	6.5	3.3	0.7	0.6	3.1	989.1
115°	9.6	9.0	7.5	5.2	2.3	0.7	0.6	2.5	991.6
120°	8.0	7.4	6.1	3.9	1.6	0.7	0.6	1.9	993.5
125°	6.5	5.9	4.7	2.9	1.1	0.8	0.7	1.4	994.9
130°	5.2	4.7	3.6	2.1	1.1	1.0	0.9	1.1	996.0
135°	4.1	3.7	2.8	1.7	1.4	1.1	1.1	0.9	996.9
140°	3.2	2.8	2.2	1.7	1.6	1.3	1.3	0.7	997.6
145°	2.4	2.3	2.1	1.9	1.7	1.5	1.5	0.6	998.2
150°	2.3	2.3	2.2	2.0	1.7	1.6	1.6	0.5	998.7
155°	2.3	2.2	2.1	2.0	1.7	1.7	1.6	0.5	999.2
160°	2.1	2.1	2.0	1.8	1.7	1.6	1.6	0.3	999.5
165°	1.8	1.8	1.8	1.7	1.6	1.6	1.5	0.2	999.8
170°	1.6	1.6	1.6	1.6	1.6	1.5	1.5	0.1	999.9
175°	1.5	1.6	1.5	1.6	1.6	1.6	1.6	0.1	1000.0
180°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	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	19.3	20.7	19.6	21.0	21.3	19.0	20.5	19.4	20.8	21.1
	3H	20.5	21.8	20.9	22.1	22.5	20.0	21.3	20.4	21.7	22.0
	4H	21.1	22.3	21.5	22.7	23.0	20.5	21.6	20.8	22.0	22.4
	6H	21.7	22.8	22.1	23.2	23.6	20.7	21.8	21.1	22.2	22.6
	8H	22.0	23.0	22.5	23.4	23.8	20.9	21.8	21.3	22.2	22.6
	12H	22.3	23.2	22.7	23.6	24.0	20.9	21.8	21.3	22.2	22.6
4H	2H	19.7	20.9	20.1	21.3	21.6	19.6	20.7	20.0	21.1	21.5
	3H	21.2	22.2	21.6	22.6	23.0	20.8	21.8	21.2	22.1	22.6
	4H	22.0	22.9	22.4	23.3	23.7	21.3	22.2	21.7	22.6	23.0
	6H	22.7	23.5	23.2	23.9	24.4	21.7	22.4	22.1	22.9	23.3
	8H	23.0	23.7	23.5	24.2	24.7	21.8	22.5	22.3	22.9	23.4
	12H	23.4	24.0	23.9	24.4	24.9	21.9	22.5	22.3	22.9	23.4
8H	4H	22.2	22.9	22.7	23.4	23.9	21.6	22.3	22.1	22.7	23.2
	6H	23.1	23.7	23.6	24.2	24.7	22.1	22.7	22.6	23.2	23.7
	8H	23.5	24.1	24.0	24.6	25.1	22.3	22.8	22.8	23.3	23.8
	12H	24.0	24.4	24.5	24.9	25.5	22.4	22.8	22.9	23.3	23.9
12H	4H	22.3	22.9	22.7	23.3	23.8	21.7	22.3	22.2	22.7	23.2
	6H	23.2	23.7	23.7	24.2	24.7	22.2	22.7	22.7	23.2	23.7
	8H	23.7	24.1	24.2	24.6	25.1	22.5	22.9	23.0	23.4	23.9

<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°		14442.3	14358.1	14386.8	14469.0	14751.9	15267.5	16193.7	
50°		12103.0	12039.4	12087.2	12141.0	12346.8	12801.7	13723.9	
55°		10521.5	10470.9	10516.3	10538.6	10665.2	11051.9	11973.8	
60°		9411.9	9374.9	9401.9	9396.1	9446.1	9747.1	10655.4	
65°		8624.0	8590.4	8594.1	8525.2	8517.3	8727.8	9600.9	
70°		8002.2	7976.1	7916.7	7784.0	7683.8	7798.8	8644.1	
75°		7446.6	7417.4	7287.8	7070.3	6810.7	6805.8	7579.3	
80°		6904.3	6838.3	6697.3	6292.6	5828.7	5593.5	6201.2	
85°		6542.5	6452.5	6276.1	5725.7	4896.6	4188.8	4354.8	

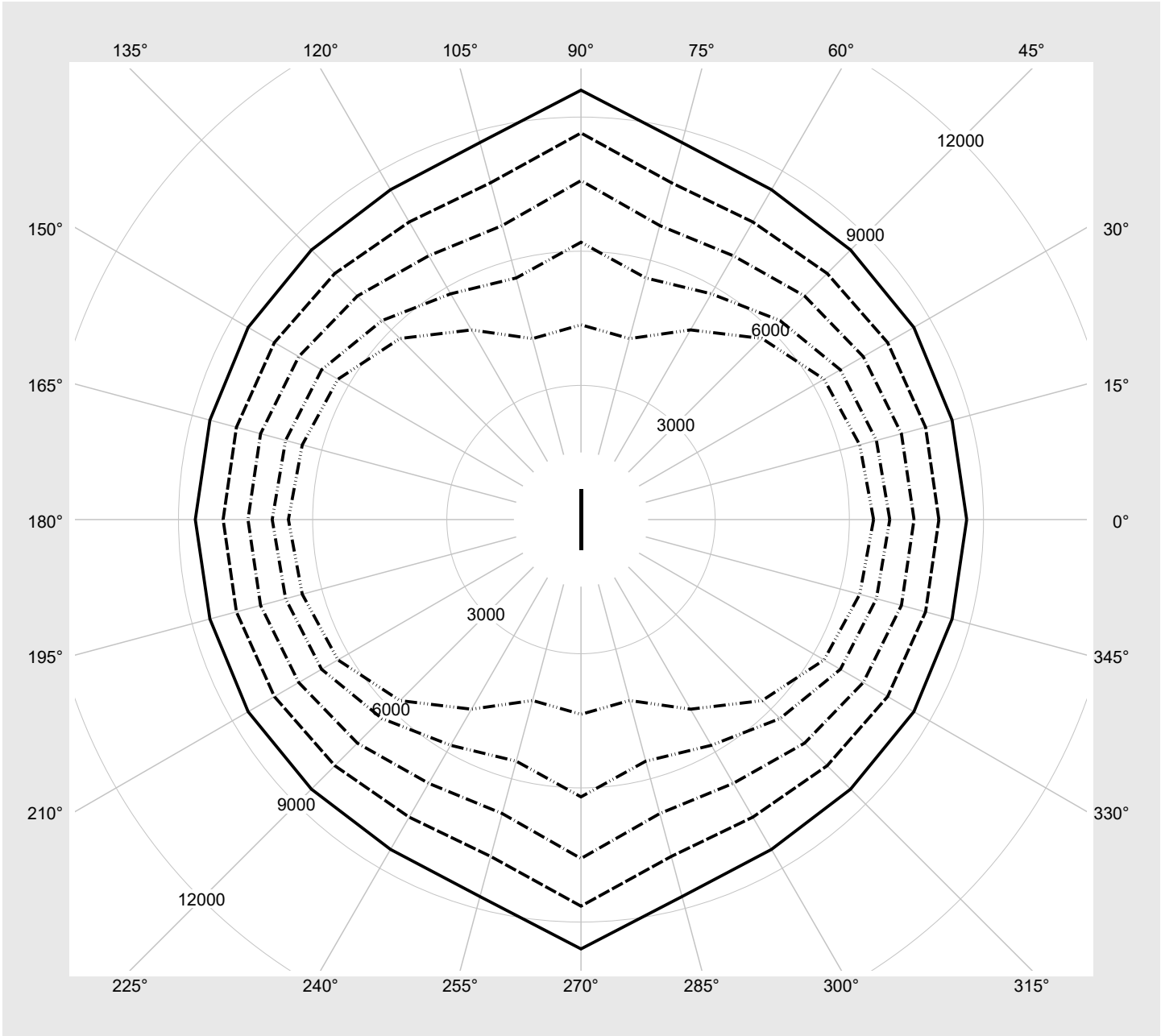
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**Luminance values in cd/m<sup>2</sup>**

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

**siteco**



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### Multilumen Table

environmental temperature: 25°C

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DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
1	A	C	E	11900	66.2
2	A	C	F	11240	62.3
3	A	D	E	10650	58.8
4	A	D	F	10130	55.8
5	B	C	E	9540	52.3
6	B	C	F	9010	49.4
7	B	D	E	8560	46.8
8	B	D	F	7950	43.4