

## Photometric test report

Family  
**Monsun® 12**

Order number: **51FP207P430H**  
EAN: **4058352405703**

LP number  
**59060\_17**



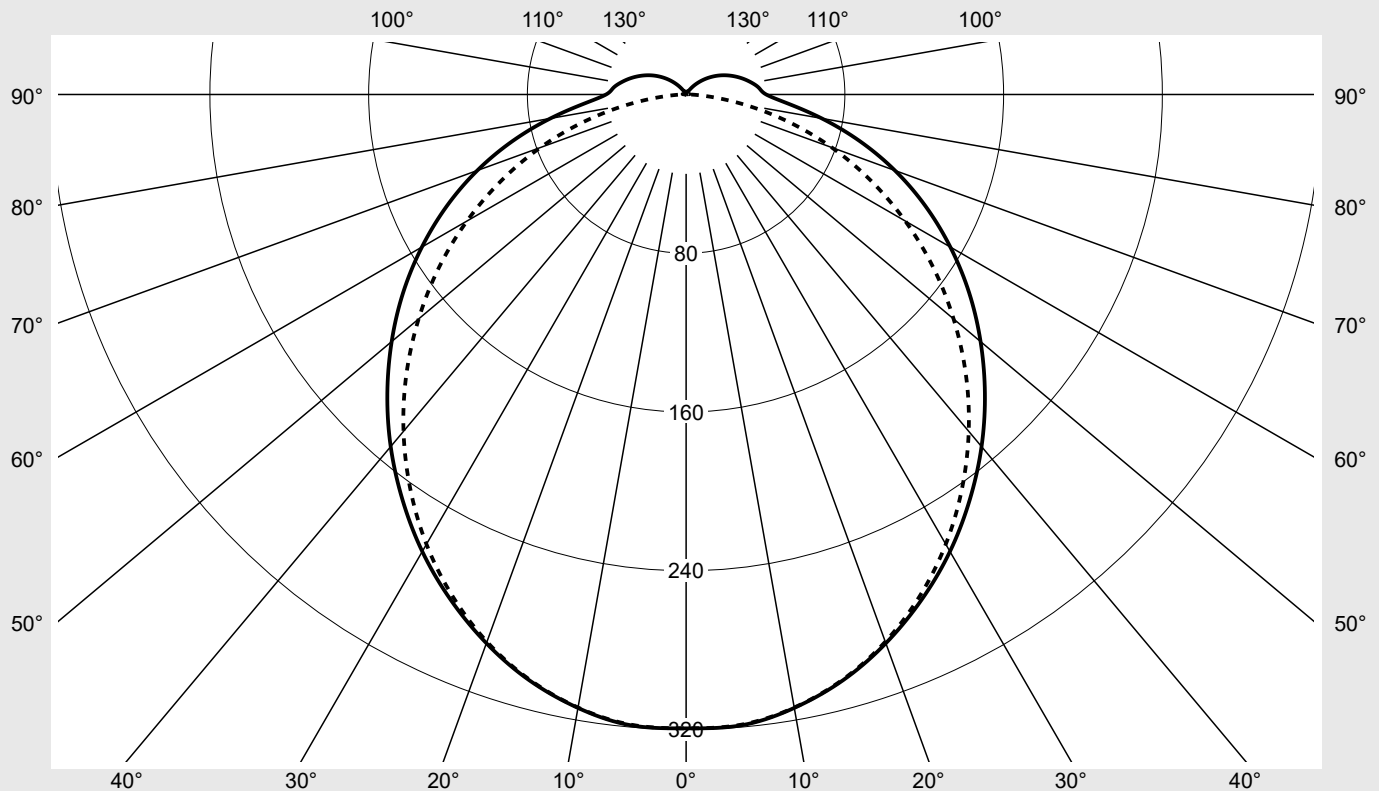
**Version** prismatic diffuser, opal, polycarbonate, wide distribution  
**Lamps** LED 4000 K | CRI ≥ 80  
**Controlgear** ECG  
**Rated values** Net luminous flux = 3990 lm  
Power consumption = 24.8 W  
Luminous efficacy = 160.9 lm/W

serial  
documentation  
25.08.2020

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

## Photometric test report

<b>Family</b> <b>Monsun® 12</b>	<b>Order number: 51FP207P430H</b> <b>EAN: 4058352405703</b>	<b>LP number</b> <b>59060_17</b>
<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

## Photometric test report

Family <b>Monsun® 12</b>	Order number: <b>51FP207P430H</b> EAN: <b>4058352405703</b>	LP number <b>59060_17</b>
-----------------------------	--	------------------------------

UGR-Table	Standard room	<b>siteco</b>	
-----------	---------------	---------------	--

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	18.9	20.6	19.3	20.9	21.3	18.7	20.4	19.1	20.8	21.1
	3H	20.7	22.3	21.1	22.6	23.0	20.3	21.8	20.7	22.2	22.5
	4H	21.5	23.0	21.9	23.4	23.7	20.9	22.4	21.3	22.7	23.1
	6H	22.3	23.6	22.7	24.0	24.4	21.3	22.7	21.7	23.1	23.4
	8H	22.6	23.9	23.0	24.3	24.7	21.5	22.8	21.9	23.1	23.5
	12H	22.9	24.1	23.3	24.5	24.9	21.5	22.8	21.9	23.1	23.6
4H	2H	19.6	21.1	20.0	21.5	21.8	19.5	21.0	19.9	21.3	21.7
	3H	21.7	22.9	22.1	23.3	23.7	21.3	22.5	21.7	22.9	23.3
	4H	22.6	23.8	23.0	24.2	24.6	22.0	23.1	22.4	23.5	24.0
	6H	23.5	24.5	23.9	24.9	25.4	22.5	23.5	23.0	24.0	24.4
	8H	23.9	24.8	24.3	25.2	25.7	22.7	23.6	23.2	24.1	24.5
	12H	24.2	25.1	24.7	25.5	26.0	22.8	23.6	23.3	24.1	24.6
8H	4H	23.0	23.9	23.4	24.3	24.8	22.4	23.3	22.9	23.8	24.3
	6H	24.0	24.8	24.5	25.2	25.7	23.1	23.9	23.6	24.3	24.8
	8H	24.5	25.2	25.0	25.7	26.2	23.3	24.0	23.8	24.5	25.0
	12H	25.0	25.6	25.5	26.1	26.6	23.5	24.1	24.0	24.6	25.1
12H	4H	23.0	23.9	23.5	24.3	24.8	22.5	23.3	23.0	23.8	24.3
	6H	24.1	24.8	24.6	25.3	25.8	23.2	23.9	23.7	24.4	24.9
	8H	24.6	25.2	25.1	25.7	26.3	23.5	24.1	24.0	24.6	25.2

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

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°		6997.5	6987.8	6995.7	7060.0	7251.3	7549.1	8026.2		
50°		6750.7	6730.9	6741.5	6788.0	6955.6	7242.7	7773.9		
55°		6511.0	6479.1	6488.8	6508.2	6650.3	6915.7	7506.2		
60°		6254.8	6223.2	6220.6	6219.9	6333.9	6572.7	7191.2		
65°		5985.4	5951.9	5924.6	5905.9	5997.4	6197.2	6819.7		
70°		5679.0	5641.9	5563.1	5529.0	5580.0	5741.7	6361.9		
75°		5304.7	5257.4	5126.6	5047.1	5023.5	5117.5	5697.1		
80°		4868.0	4782.1	4634.7	4434.9	4298.6	4238.9	4705.0		
85°		4511.7	4391.0	4184.2	3882.1	3514.7	3141.2	3254.4		

**Photometric test report**

<b>Family</b> Monsun® 12	<b>Order number: 51FP207P430H</b> <b>EAN: 4058352405703</b>	<b>LP number</b> 59060_17
-----------------------------	--	------------------------------

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

