

## Photometric test report

Family  
**Monsun® Ex**

Order number: **51FXB1DP670A**  
EAN: **4058352933435**

LP number  
**59504\_9**



**Version** prismatic diffuser, opal, polycarbonate, elliptical medium distributon  
**Lamps** LED 6500 K | CRI ≥ 80  
**Controlgear** ECG-DALI  
**Rated values** Net luminous flux = 7310 lm  
Power consumption = 43.8 W  
Luminous efficacy = 166.9 lm/W

serial  
documentation  
**14.11.2023**

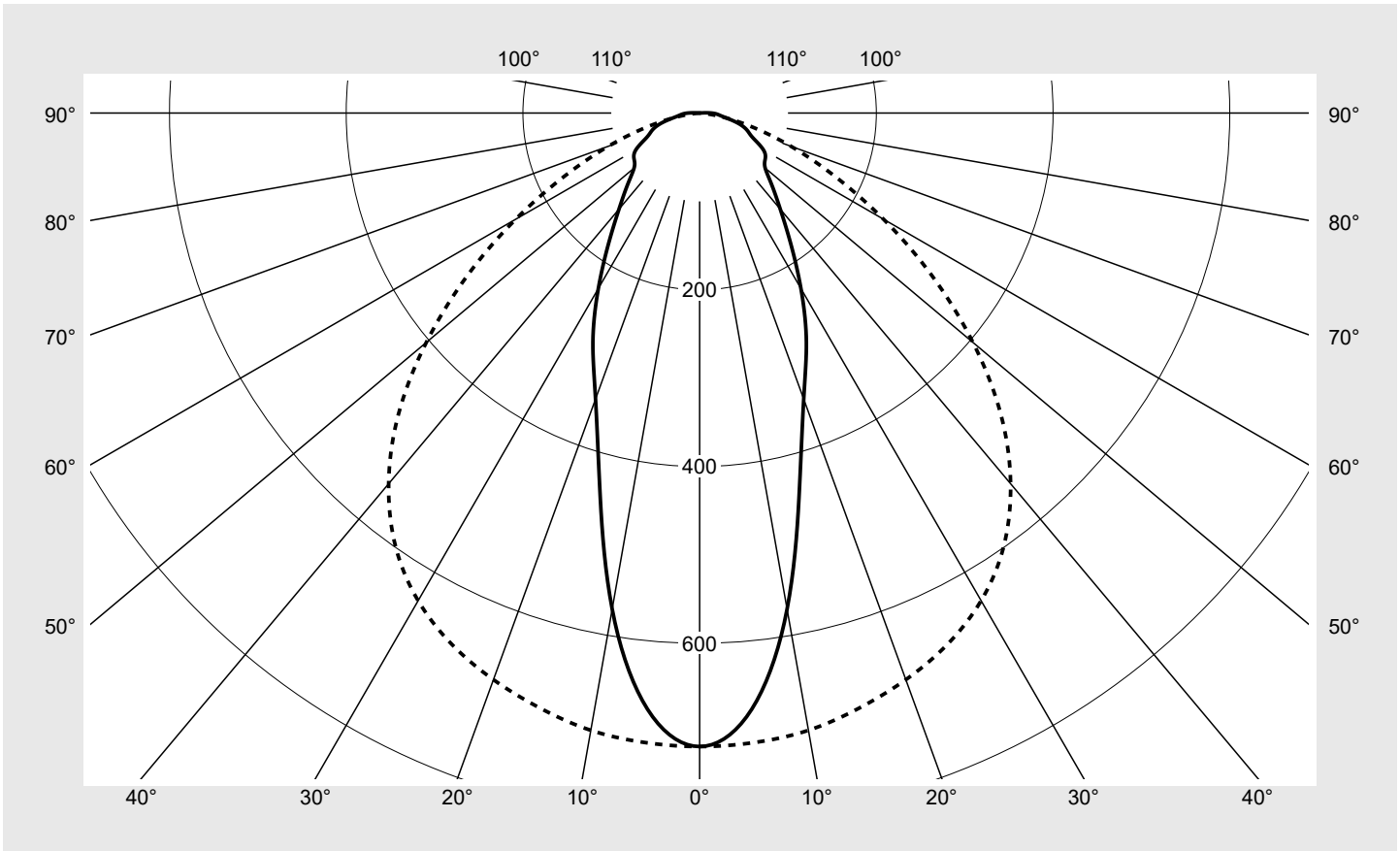
sitEco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: **717 cd/klm**



### Classifications

DIN 5040 A 5 1  
CIE N1=61 N2=86 N3=97  
N4=100 N5=100

### Luminaire light output ratios

$\eta_{LB}$  100.0%  
 $\phi_u$  99.7%  
 $\phi_o$  0.3%

### 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°	716.9	716.9	716.9	716.9	716.9	716.9	716.9	4.3	4.3
5°	677.2	678.7	686.5	695.5	704.9	712.3	715.0	33.2	37.5
10°	570.0	577.9	600.9	634.1	668.5	697.1	709.3	60.6	98.1
15°	437.1	447.4	481.0	538.8	609.9	671.8	697.2	78.4	176.5
20°	344.4	351.8	375.2	431.4	529.7	635.0	682.3	88.6	265.1
25°	285.8	291.8	308.5	345.6	439.1	581.6	663.5	94.3	359.4
30°	229.3	235.5	255.1	285.5	352.1	516.0	637.2	94.9	454.3
35°	179.3	185.5	204.4	236.0	285.1	440.2	599.7	91.2	545.5
40°	142.0	146.9	162.0	190.0	233.1	361.6	547.6	84.5	630.0
45°	115.8	119.0	129.0	151.6	189.6	285.9	482.1	75.8	705.8
50°	96.9	97.9	105.1	121.4	151.9	220.0	403.8	66.2	772.0
55°	90.6	88.1	86.8	99.8	118.3	167.4	321.2	57.4	829.4
60°	83.4	80.5	76.4	81.9	95.1	124.0	240.4	49.0	878.4
65°	66.7	67.8	66.1	66.3	76.2	88.1	168.2	39.9	918.3
70°	57.3	58.4	55.3	53.7	53.5	59.5	110.0	31.3	949.6
75°	45.6	46.2	46.2	45.5	34.7	34.0	62.9	23.0	972.6
80°	29.6	30.8	29.4	27.5	20.8	16.7	27.8	13.8	986.4
85°	21.3	21.6	22.1	18.4	12.4	7.2	5.5	8.7	995.1
90°	13.3	13.0	12.5	10.3	6.2	2.6	1.6	4.7	999.8
95°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	999.9
100°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	999.9
105°	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	999.9
110°	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.0	1000.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	14.7	16.2	15.1	16.5	16.9	20.6	22.1	20.9	22.4	22.8
	3H	16.2	17.6	16.6	18.0	18.3	21.7	23.0	22.0	23.4	23.7
	4H	16.9	18.2	17.3	18.6	19.0	22.0	23.3	22.4	23.6	24.0
	6H	17.4	18.6	17.8	19.0	19.4	22.3	23.4	22.7	23.7	24.1
	8H	17.6	18.7	18.0	19.1	19.5	22.4	23.4	22.8	23.7	24.1
	12H	17.8	18.8	18.2	19.2	19.7	22.4	23.3	22.8	23.7	24.1
4H	2H	15.6	16.8	16.0	17.2	17.5	20.6	21.9	21.0	22.2	22.6
	3H	17.2	18.3	17.7	18.7	19.1	21.7	22.8	22.1	23.2	23.6
	4H	18.1	19.0	18.5	19.4	19.9	22.1	23.1	22.6	23.5	23.9
	6H	18.6	19.5	19.1	19.9	20.4	22.3	23.2	22.8	23.6	24.1
	8H	18.9	19.7	19.3	20.1	20.6	22.4	23.1	22.9	23.6	24.1
	12H	19.1	19.8	19.6	20.2	20.7	22.4	23.1	22.9	23.5	24.0
8H	4H	18.4	19.2	18.9	19.6	20.1	22.1	22.9	22.6	23.4	23.8
	6H	19.1	19.8	19.6	20.2	20.7	22.4	23.0	22.9	23.5	24.0
	8H	19.4	20.0	19.9	20.5	21.0	22.4	23.0	22.9	23.5	24.0
	12H	19.8	20.2	20.3	20.7	21.3	22.5	22.9	23.0	23.4	24.0
12H	4H	18.5	19.1	19.0	19.6	20.1	22.1	22.8	22.6	23.3	23.8
	6H	19.2	19.7	19.7	20.2	20.7	22.4	23.0	22.9	23.4	24.0
	8H	19.6	20.0	20.1	20.5	21.1	22.5	22.9	23.0	23.4	24.0

<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1580</b>	<b>H(C0) = 50</b>	<b>H(C180) = 50</b>
			<b>B = 155</b>	<b>H(C90) = 50</b>	<b>H(C270) = 50</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°		3695.4	3805.1	4204.5	5118.6	6731.9	10832.2	19726.5	
50°		3249.1	3292.6	3609.3	4342.4	5758.2	8992.3	18071.5	
55°		3228.1	3149.1	3177.9	3825.4	4850.3	7491.2	15991.9	
60°		3192.9	3090.8	3019.3	3408.2	4277.1	6181.1	13604.0	
65°		2782.7	2842.5	2858.4	3046.2	3832.3	4997.8	11127.5	
70°		2650.2	2715.0	2663.8	2777.1	3076.2	3953.9	8831.2	
75°		2386.5	2426.6	2533.1	2714.9	2348.6	2753.7	6488.4	
80°		1798.7	1880.4	1891.1	1955.3	1723.0	1740.3	4044.7	
85°		1554.6	1592.3	1731.1	1630.3	1340.8	1072.0	1382.0	

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**Luminance values in cd/m<sup>2</sup>**     γ 65°   γ 70°   γ 75°   γ 80°   γ 85°     **siteco**

