
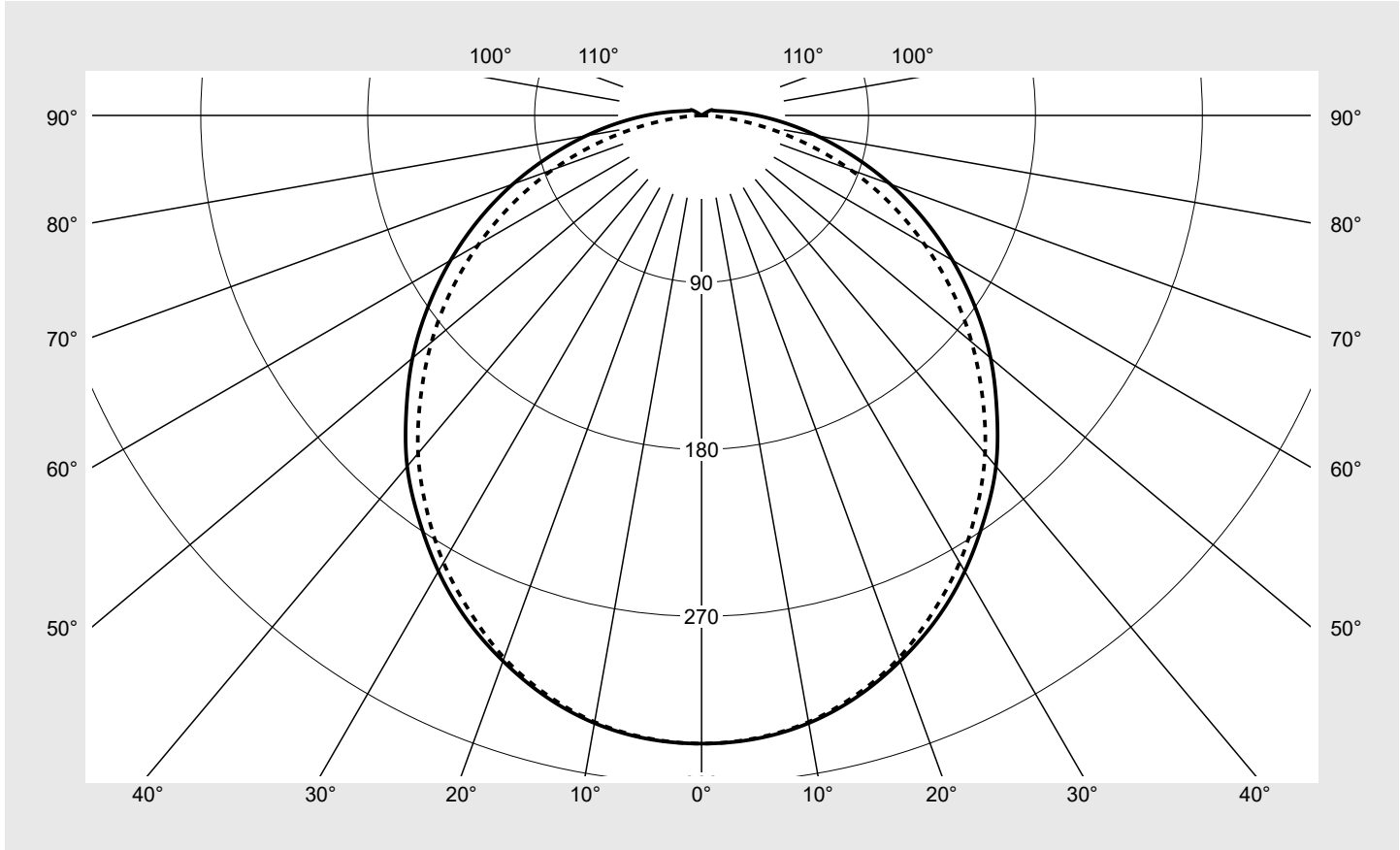


Photometric test report

Family Monsun® Ex	Order number: 51FXA27L860A EAN: 4058352933251	LP number 59501_19
	Version prismatic diffuser, opal, polycarbonate, diffuse beam	serial documentation 04.03.2024
	Lamps LED 6500 K CRI ≥ 80	Rated values Net luminous flux = 6560 lm Power consumption = 53.0 W Luminous efficacy = 123.8 lm/W
	Controlgear ECG-DALI	



Luminous intensity in cd/klm C180-0 C270-90 Imax: 339 cd/klm



Classifications	
DIN 5040	A 4 1
CIE	N1=46 N2=76 N3=94 N4=98 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	97.9%
ϕ_o	2.1%

Measurement conditions
DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		Maximum luminous intensity
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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°	338.6	338.6	338.6	338.6	338.6	338.6	338.6	2.0	2.0
5°	337.3	337.1	336.9	337.0	336.8	336.8	336.9	16.1	18.1
10°	332.6	332.4	332.2	331.8	332.3	331.3	332.0	31.6	49.7
15°	324.4	324.0	323.4	323.3	322.8	323.2	323.1	45.9	95.6
20°	313.0	312.8	312.1	311.8	311.2	311.1	311.2	58.5	154.1
25°	299.7	299.5	299.1	297.8	297.2	295.9	295.3	69.0	223.1
30°	283.8	283.7	282.9	280.9	280.1	278.4	278.3	77.1	300.1
35°	265.7	265.3	264.3	261.2	260.4	259.3	258.7	82.4	382.5
40°	246.9	245.4	243.6	241.2	239.5	238.0	237.8	85.2	467.7
45°	225.1	224.2	222.2	220.0	216.4	214.9	214.1	85.1	552.8
50°	203.4	202.1	200.5	197.1	193.4	190.8	190.1	82.6	635.4
55°	180.0	178.9	176.5	172.8	168.7	166.4	164.9	77.5	712.9
60°	156.3	155.0	152.4	147.7	143.3	140.3	138.7	70.1	783.0
65°	132.3	130.4	127.3	122.6	117.7	113.7	112.3	60.8	843.8
70°	108.2	106.3	102.3	97.1	91.4	86.7	85.3	49.8	893.6
75°	84.6	83.1	78.6	72.2	65.5	60.3	58.0	38.0	931.7
80°	63.2	61.7	56.7	49.6	41.8	35.3	32.2	26.3	958.0
85°	44.6	42.7	37.9	30.7	22.5	14.8	11.0	16.1	974.1
90°	29.9	28.2	23.8	17.4	10.3	4.0	0.9	9.1	983.1
95°	19.4	18.0	14.5	9.8	5.0	1.7	0.7	5.4	988.5
100°	12.9	11.9	9.5	6.4	3.5	1.3	0.6	3.5	992.0
105°	9.4	8.8	7.1	5.0	2.8	1.0	0.5	2.6	994.7
110°	7.6	7.1	5.9	4.2	2.3	0.7	0.3	2.1	996.7
115°	6.5	6.0	5.0	3.5	1.7	0.4	0.3	1.7	998.4
120°	5.5	5.1	2.9	1.8	0.9	0.3	0.3	1.1	999.5
125°	0.1	0.7	1.0	0.8	0.5	0.3	0.2	0.3	999.7
130°	0.0	0.0	0.2	0.3	0.3	0.2	0.2	0.1	999.8
135°	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.0	999.9
140°	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	999.9
145°	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	999.9
150°	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.0	1000.0
155°	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	1000.0
160°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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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UGR-Table	Standard room	siteco
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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	19.2	20.9	19.5	21.2	21.5	19.4	21.1	19.7	21.4	21.7
	3H	20.8	22.3	21.2	22.7	23.0	20.9	22.4	21.3	22.8	23.1
	4H	21.5	22.9	21.9	23.3	23.6	21.5	22.9	21.9	23.3	23.7
	6H	22.1	23.4	22.5	23.8	24.2	21.8	23.2	22.2	23.6	24.0
	8H	22.3	23.6	22.7	24.0	24.4	22.0	23.2	22.4	23.6	24.0
	12H	22.5	23.7	23.0	24.1	24.5	22.0	23.2	22.4	23.6	24.0
4H	2H	19.9	21.4	20.3	21.7	22.1	20.1	21.5	20.5	21.9	22.2
	3H	21.7	22.9	22.1	23.3	23.7	21.7	23.0	22.2	23.4	23.8
	4H	22.5	23.6	22.9	24.0	24.5	22.4	23.5	22.8	23.9	24.4
	6H	23.2	24.2	23.7	24.6	25.1	22.9	23.9	23.3	24.3	24.8
	8H	23.5	24.4	24.0	24.9	25.3	23.0	23.9	23.5	24.4	24.8
	12H	23.8	24.6	24.3	25.1	25.6	23.1	23.9	23.6	24.4	24.9
8H	4H	22.8	23.7	23.3	24.1	24.6	22.7	23.6	23.2	24.1	24.5
	6H	23.6	24.4	24.1	24.9	25.4	23.3	24.1	23.8	24.5	25.0
	8H	24.0	24.7	24.5	25.2	25.7	23.5	24.2	24.0	24.6	25.2
	12H	24.4	25.0	24.9	25.5	26.0	23.6	24.2	24.1	24.7	25.2
12H	4H	22.8	23.7	23.3	24.1	24.6	22.8	23.6	23.3	24.1	24.5
	6H	23.7	24.4	24.2	24.9	25.4	23.4	24.1	23.9	24.5	25.1
	8H	24.2	24.7	24.7	25.2	25.8	23.6	24.2	24.1	24.7	25.2

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1280	H(C0) = 50	H(C180) = 50
			B = 155	H(C90) = 50	H(C270) = 50

C-planes	γ	Luminance in cd/m ²							
		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°	7959.4	7931.4	7998.7	8192.6	8466.0	8963.6	9635.0	
	50°	7558.6	7516.4	7603.3	7770.8	8071.3	8573.8	9343.0	
	55°	7105.4	7067.6	7132.4	7298.0	7607.2	8177.6	9002.9	
	60°	6629.8	6581.1	6640.4	6767.4	7081.5	7665.6	8588.9	
	65°	6116.0	6037.2	6068.0	6192.9	6492.9	7060.0	8104.6	
	70°	5546.9	5455.0	5430.9	5511.9	5750.7	6288.8	7445.1	
	75°	4905.6	4824.2	4745.3	4719.1	4842.3	5304.5	6472.2	
	80°	4252.9	4156.6	4004.4	3854.5	3777.7	3981.7	5020.5	
	85°	3609.3	3466.3	3257.0	2971.6	2636.9	2352.7	2891.8	

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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**

