

Photometric test report

Family
Monsun® Ex



Order number: 51FXA27L840A
EAN: 4058352933237

Version

Lamps

Controlgear

Rated values

prismatic diffuser, opal, polycarbonate, diffuse beam

LED 6500 K | CRI ≥ 80

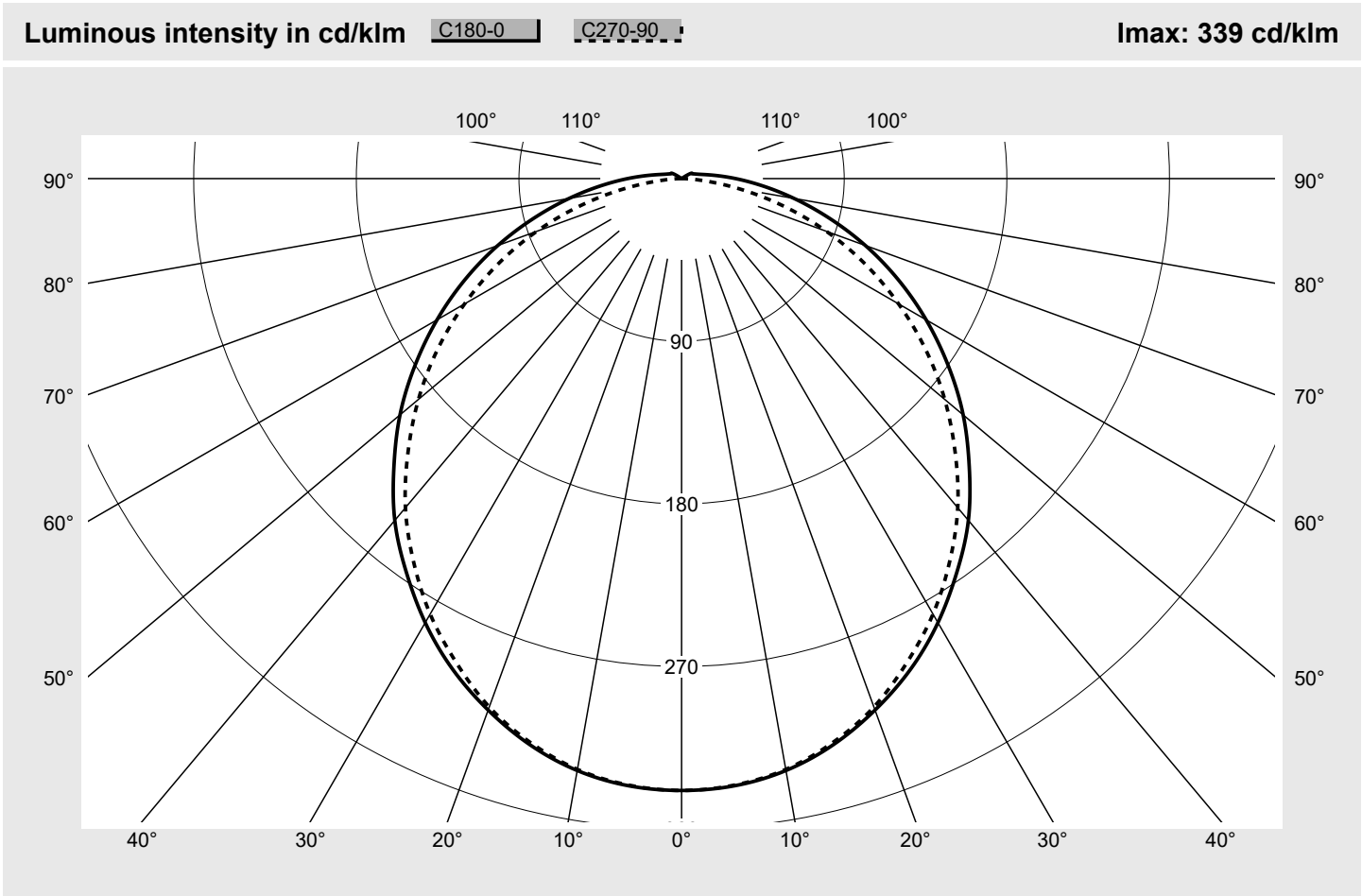
ECG-DALI

Net luminous flux = 4650 lm
Power consumption = 33.0 W
Luminous efficacy = 140.9 lm/W

LP number
59501_22

serial
documentation
02.12.2024

siteco



Classifications		Luminaire light output ratios	
DIN 5040	A 4 1	η_{LB}	100.0%
CIE	N1=46 N2=76 N3=94	ϕ_u	97.9%
	N4=98 N5=100	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	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Phi-zone	Total Phi-zone
γ	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	
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	18.0	19.7	18.3	20.0	20.3	18.2	19.9	18.5	20.2	20.5
	3H	19.6	21.1	20.0	21.5	21.8	19.7	21.3	20.1	21.6	21.9
	4H	20.3	21.7	20.7	22.1	22.5	20.3	21.7	20.7	22.1	22.5
	6H	20.9	22.2	21.3	22.6	23.0	20.6	22.0	21.1	22.4	22.8
	8H	21.1	22.4	21.6	22.8	23.2	20.8	22.1	21.2	22.4	22.8
	12H	21.3	22.5	21.8	22.9	23.3	20.8	22.0	21.2	22.4	22.8
4H	2H	18.7	20.2	19.1	20.5	20.9	18.9	20.3	19.3	20.7	21.0
	3H	20.5	21.7	20.9	22.1	22.5	20.5	21.8	21.0	22.2	22.6
	4H	21.3	22.4	21.7	22.8	23.3	21.2	22.3	21.6	22.7	23.2
	6H	22.0	23.0	22.5	23.4	23.9	21.7	22.7	22.1	23.1	23.6
	8H	22.3	23.2	22.8	23.7	24.1	21.8	22.7	22.3	23.2	23.6
	12H	22.6	23.4	23.1	23.9	24.4	21.9	22.7	22.4	23.2	23.7
8H	4H	21.6	22.5	22.1	23.0	23.4	21.5	22.4	22.0	22.9	23.3
	6H	22.4	23.2	22.9	23.7	24.2	22.1	22.9	22.6	23.3	23.8
	8H	22.8	23.5	23.3	24.0	24.5	22.3	23.0	22.8	23.5	24.0
	12H	23.2	23.8	23.7	24.3	24.8	22.4	23.0	22.9	23.5	24.0
12H	4H	21.6	22.5	22.1	22.9	23.4	21.6	22.4	22.1	22.9	23.3
	6H	22.5	23.2	23.0	23.7	24.2	22.2	22.9	22.7	23.3	23.9
	8H	23.0	23.5	23.5	24.0	24.6	22.4	23.0	22.9	23.5	24.0

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 1280 B = 155		H(C0) = 50 H(C90) = 50		H(C180) = 50 H(C270) = 50	
C-planes	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°				
		γ Luminance in cd/m²									
45°		5641.9	5622.1	5669.8	5807.2	6001.1	6353.7	6829.7			
50°		5357.9	5328.0	5389.6	5508.2	5721.3	6077.5	6622.7			
55°		5036.6	5009.8	5055.8	5173.1	5392.3	5796.6	6381.6			
60°		4699.5	4665.0	4707.0	4797.0	5019.6	5433.7	6088.1			
65°		4335.3	4279.4	4301.2	4389.8	4602.4	5004.4	5744.9			
70°		3931.8	3866.7	3849.7	3907.1	4076.3	4457.8	5277.4			
75°		3477.3	3419.6	3363.7	3345.1	3432.4	3760.1	4587.8			
80°		3014.6	2946.4	2838.5	2732.2	2677.8	2822.4	3558.8			
85°		2558.4	2457.1	2308.7	2106.4	1869.1	1667.7	2049.8			

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Luminance values in cd/m²

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

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