

Photometric test report

Family

Silica® 21 Floor



Order number: 51MX56DA4ZM00880XX

EAN: 4069025333896

LP number

59766_1

serial documentation

10.04.2025

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Version

floorstanding uplight, reflector, white, indirect-/direct distribution, wide distribution, with presence- and daylightsensor

Lamps

LED 4000 K | CRI ≥ 80

Controlgear

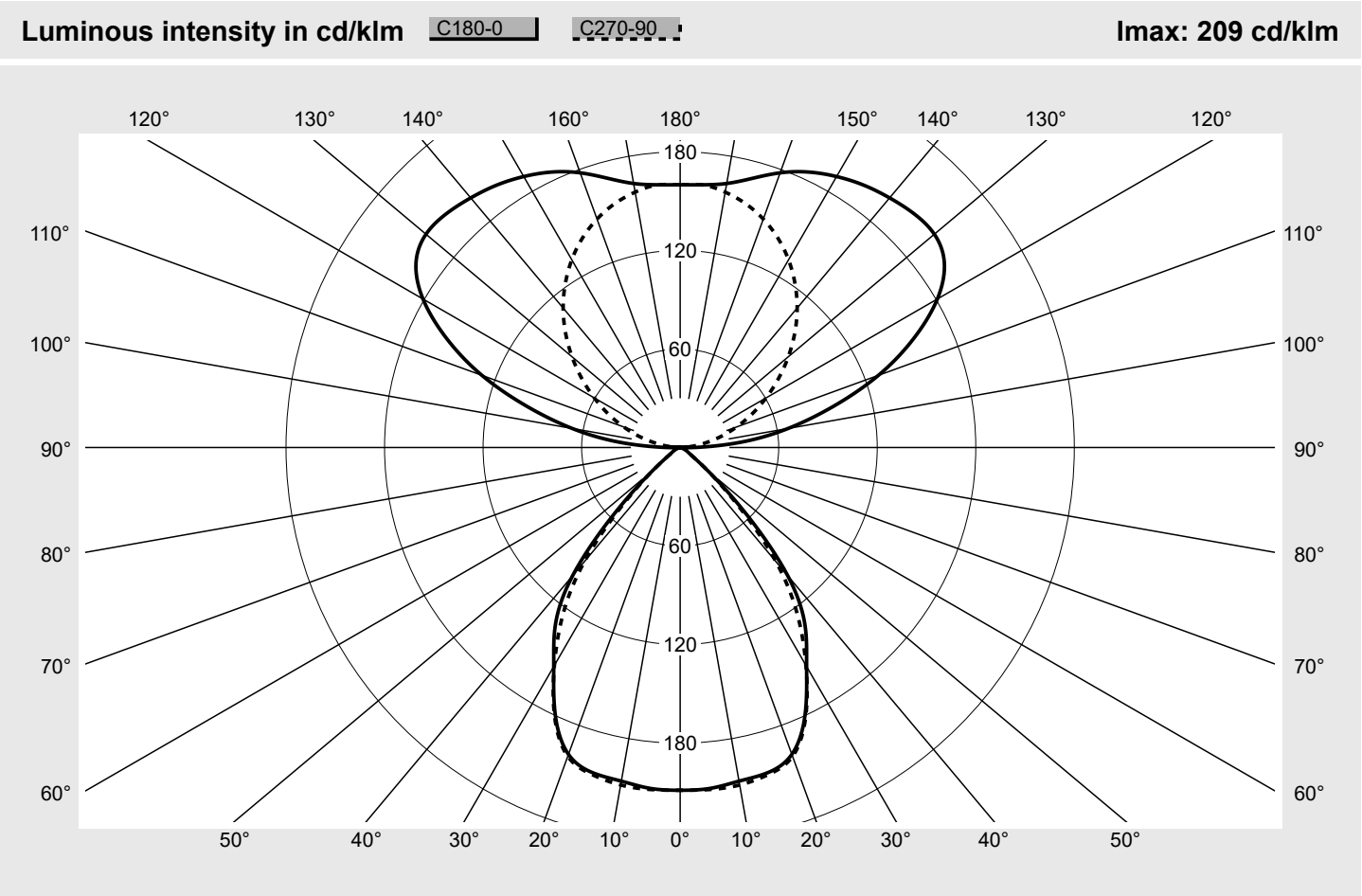
ECG-DALI

Setting

factory setting: direct and indirect light

Rated values

Net luminous flux = 14320 lm
Power consumption = 85.7 W
Luminous efficacy = 167.1 lm/W



Classifications		Luminaire light output ratios	
DIN 5040	D 6 2	η_{LB}	100.0%
CIE	N1=83 N2=98 N3=99	ϕ_u	30.4%
	N4=30 N5=100	ϕ_o	69.6%

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°	208.7	208.7	208.7	208.7	208.7	208.7	208.7	1.2	1.2
5°	208.4	208.1	207.0	208.3	209.0	208.3	209.0	9.9	11.2
10°	206.3	206.2	205.1	207.0	207.9	207.6	208.7	19.7	30.9
15°	205.1	206.0	205.0	206.2	206.7	205.9	206.3	29.2	60.1
20°	198.9	201.0	201.8	202.2	201.5	200.1	200.2	37.7	97.8
25°	179.9	183.0	186.3	188.5	186.3	183.1	180.9	42.8	140.6
30°	154.0	156.7	157.5	157.3	156.9	154.4	153.2	42.8	183.3
35°	132.7	135.0	130.1	125.1	127.6	127.2	124.7	40.5	223.9
40°	101.9	104.7	101.8	98.6	98.7	95.0	90.8	35.0	258.8
45°	55.4	57.8	58.2	58.1	55.9	52.0	49.5	21.6	280.4
50°	21.8	23.1	24.6	25.7	23.9	21.9	21.2	9.8	290.3
55°	8.7	9.5	10.9	12.5	11.0	9.3	8.6	4.6	294.9
60°	5.4	5.7	6.2	6.8	6.2	5.6	5.3	2.8	297.7
65°	3.5	3.6	3.8	3.9	3.7	3.5	3.4	1.8	299.5
70°	2.4	2.4	2.3	2.2	2.2	2.4	2.3	1.2	300.7
75°	1.0	1.0	1.1	1.2	1.2	1.1	1.0	0.6	301.3
80°	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.3	301.6
85°	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.4	302.0
90°	8.0	7.8	8.2	8.1	4.9	1.7	0.6	3.2	305.2
95°	37.2	38.2	41.0	38.7	24.8	12.7	6.6	16.1	321.3
100°	66.8	68.5	69.1	60.6	40.7	23.0	15.1	27.2	348.6
105°	96.4	98.1	95.8	81.9	55.9	34.7	25.5	37.7	386.3
110°	128.5	129.7	121.5	100.5	72.0	46.9	36.5	47.5	433.7
115°	156.8	155.7	143.8	118.1	87.4	59.4	48.3	55.2	489.0
120°	180.8	177.9	162.1	132.8	101.5	71.3	60.3	60.6	549.6
125°	196.4	192.1	173.8	144.8	113.1	82.9	73.0	63.0	612.6
130°	202.0	197.6	179.0	153.0	122.4	94.2	86.0	62.3	674.9
135°	201.3	197.6	181.1	158.6	130.5	105.1	98.7	59.6	734.5
140°	198.4	195.8	181.9	161.9	137.0	115.7	110.8	55.6	790.1
145°	195.0	193.1	181.4	163.8	142.1	125.5	121.9	50.5	840.6
150°	190.5	189.2	179.1	164.3	146.5	134.4	132.0	44.5	885.1
155°	185.1	184.1	175.3	163.2	150.1	142.3	140.7	37.8	922.9
160°	178.0	177.3	170.1	161.3	153.2	148.8	148.0	30.4	953.3
165°	169.6	169.5	164.6	159.9	156.0	153.9	153.8	22.8	976.2
170°	163.2	163.7	161.0	159.5	158.1	157.6	157.9	15.2	991.4
175°	160.6	161.2	159.6	159.6	159.5	159.8	160.4	7.6	999.0
180°	160.0	160.0	160.0	160.0	160.0	160.0	160.0	1.0	1000.0

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UGR-Table	Standard room	siteco

The UGR formula for this luminaire type cannot be used, see LiTG Publication 20:
"The UGR - Process for Evaluation of Direct Glare of Artificial Lighting in Indoor Rooms"

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1176 B = 49
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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°
γ	Luminance in cd/m²						
45°	19452.7	20315.1	20437.5	20402.3	19662.5	18275.0	17396.4
50°	8421.1	8918.7	9514.1	9918.8	9238.0	8480.3	8204.6
55°	3783.2	4132.4	4709.5	5424.8	4781.9	4042.7	3721.7
60°	2665.5	2812.6	3074.0	3383.2	3063.1	2762.4	2614.3
65°	2041.6	2125.7	2242.7	2265.0	2195.7	2078.1	2006.9
70°	1720.6	1771.4	1647.9	1581.1	1614.5	1716.9	1691.5
75°	917.0	996.6	1066.7	1114.7	1106.1	1039.9	965.0
80°	635.4	648.3	666.9	671.2	692.7	707.0	702.7
85°	2415.1	2360.9	2292.4	2149.9	2047.2	1990.2	1987.4

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Luminance values in cd/m²

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

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