

Photometric test report

Family
Silica® 21 Floor

Order number: 51MX56DA3ZM00890XX
EAN: 4069025333889

LP number
59768_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 3000 K | CRI ≥ 80

Controlgear ECG-DALI

Setting factory setting: direct and indirect light

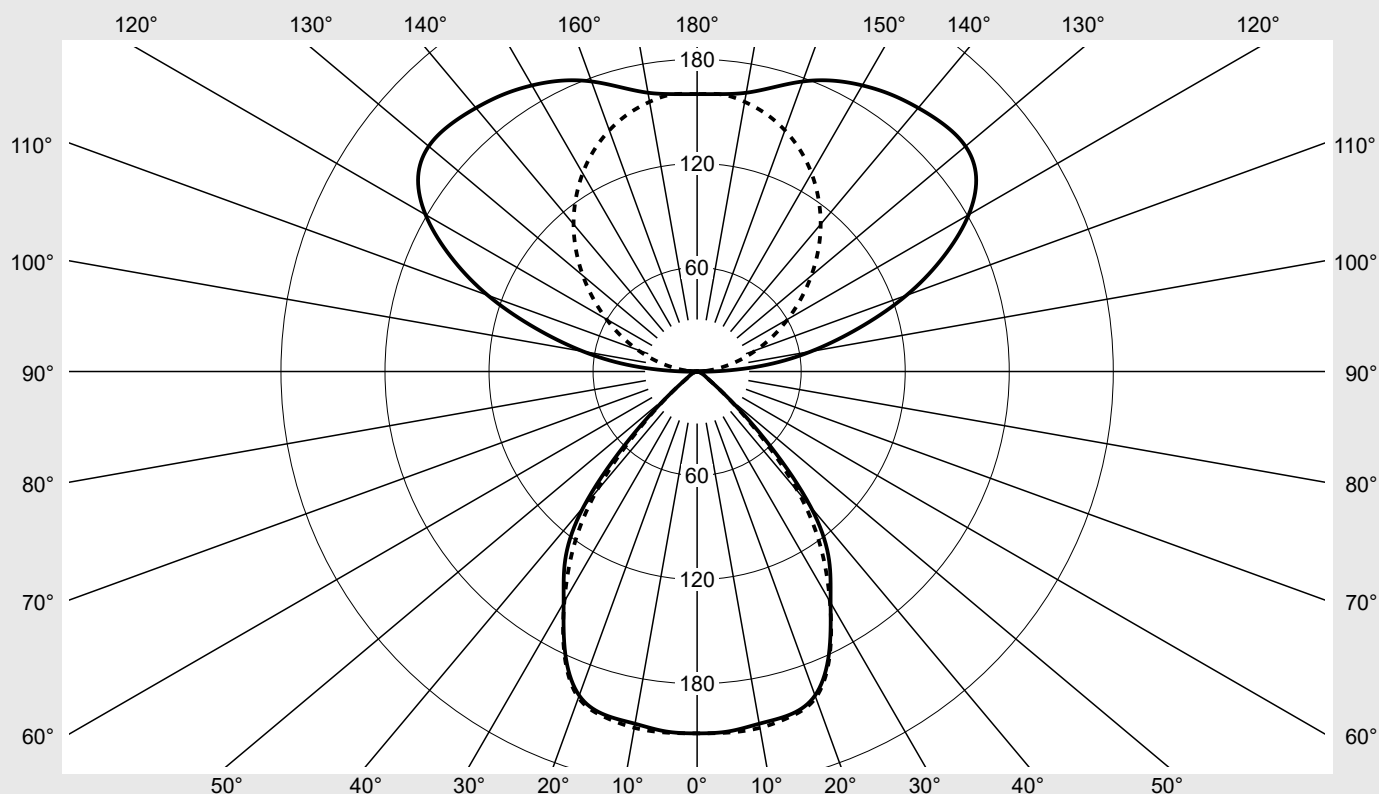
Rated values Net luminous flux = 14320 lm
Power consumption = 90.8 W
Luminous efficacy = 157.7 lm/W

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 209 cd/klm



Classifications

DIN 5040 D 6 2
CIE N1=83 N2=98 N3=99
N4=30 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 30.4%
 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°	208.3	208.0	207.0	208.2	209.0	208.3	209.0	9.9	11.2
10°	206.2	206.2	205.1	206.9	207.9	207.6	208.6	19.7	30.9
15°	205.1	205.9	205.0	206.1	206.7	205.9	206.3	29.2	60.1
20°	198.8	201.0	201.7	202.2	201.5	200.1	200.1	37.7	97.8
25°	179.9	183.0	186.3	188.5	186.2	183.1	180.8	42.8	140.5
30°	154.0	156.7	157.5	157.3	156.9	154.3	153.1	42.8	183.3
35°	132.6	135.0	130.1	125.1	127.5	127.2	124.6	40.5	223.8
40°	101.9	104.7	101.8	98.6	98.7	95.0	90.8	34.9	258.8
45°	55.3	57.8	58.1	58.0	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	290.2
55°	8.7	9.5	10.9	12.5	11.0	9.3	8.6	4.6	294.8
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	301.2
80°	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.3	301.5
85°	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.4	301.9
90°	8.0	7.8	8.2	8.1	4.9	1.7	0.6	3.2	305.1
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	27.3	348.5
105°	96.4	98.1	95.8	81.9	55.9	34.7	25.5	37.7	386.2
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	488.9
120°	180.8	177.9	162.1	132.9	101.5	71.3	60.4	60.6	549.6
125°	196.4	192.1	173.8	144.9	113.1	82.9	73.0	63.0	612.5
130°	202.1	197.6	179.1	153.0	122.5	94.2	86.0	62.3	674.8
135°	201.3	197.6	181.1	158.6	130.5	105.1	98.7	59.6	734.5
140°	198.4	195.8	182.0	161.9	137.0	115.7	110.9	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	140.8	37.8	922.9
160°	178.0	177.4	170.1	161.4	153.2	148.8	148.0	30.4	953.3
165°	169.7	169.6	164.6	159.9	156.0	153.9	153.8	22.8	976.2
170°	163.2	163.8	161.1	159.5	158.2	157.7	157.9	15.2	991.4
175°	160.6	161.3	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			
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°	19449.2	20311.6	20433.9	20398.8	19659.0	18271.5	17393.6
50°	8419.6	8917.1	9512.5	9916.9	9236.1	8478.7	8203.1
55°	3782.4	4131.6	4708.7	5424.0	4781.0	4041.9	3720.8
60°	2665.0	2812.1	3073.5	3382.7	3062.6	2761.9	2613.8
65°	2041.6	2125.1	2242.1	2264.5	2195.1	2077.5	2006.3
70°	1719.8	1770.7	1647.9	1580.3	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	1984.5

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

