

Photometric test report

Family
Silica® 21 Floor

Order number: 51MX52DA4ZM00882XX
EAN: 4069025333735

LP number
59767_2

serial
documentation
10.04.2025



Version floorstanding uplight, reflector, black, 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 = 87.9 W
Luminous efficacy = 162.9 lm/W

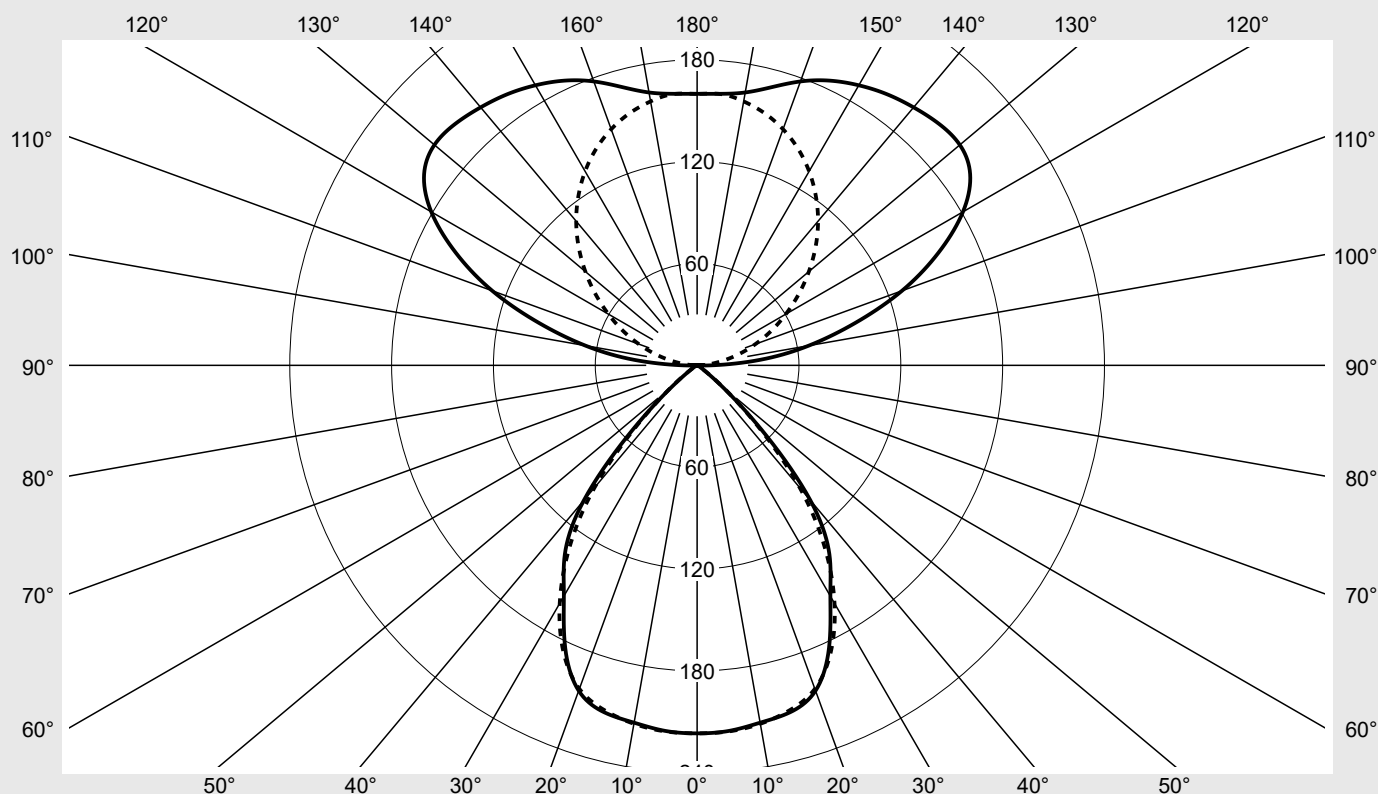
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Luminous intensity in cd/klm

C180-0

C270-90

Imax: 217 cd/klm



Classifications

DIN 5040 D 6 2
CIE N1=85 N2=99 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°	216.8	216.8	216.8	216.8	216.8	216.8	216.8	1.3	1.3
5°	216.2	215.9	214.8	216.0	216.5	215.7	216.5	10.3	11.6
10°	213.8	213.9	212.1	213.7	214.1	213.4	214.4	20.3	31.9
15°	211.6	212.4	210.3	210.6	210.8	210.1	210.4	29.9	61.9
20°	204.0	205.9	205.4	205.4	204.4	203.1	202.8	38.4	100.2
25°	183.8	186.7	189.3	192.0	191.4	188.8	186.4	43.7	144.0
30°	157.0	159.5	160.8	163.8	166.1	163.4	161.9	44.4	188.4
35°	135.9	137.5	134.0	131.6	134.2	133.6	131.3	42.2	230.6
40°	103.7	105.9	103.5	100.4	99.3	97.0	94.1	35.5	266.1
45°	53.8	55.9	57.5	58.0	56.4	53.2	50.4	21.5	287.6
50°	18.0	19.4	22.2	23.7	22.7	20.5	19.2	8.9	296.5
55°	4.7	5.6	7.4	9.4	7.9	6.1	5.3	3.1	299.6
60°	1.8	2.1	2.8	3.7	3.0	2.3	2.1	1.2	300.8
65°	0.6	0.7	1.0	1.3	1.1	0.9	0.8	0.5	301.3
70°	0.4	0.4	0.3	0.3	0.4	0.5	0.5	0.2	301.5
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	301.6
80°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	301.6
85°	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.3	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°	18890.4	19635.8	20221.0	20374.9	19812.6	18683.0	17715.9
50°	6965.9	7514.5	8601.3	9173.1	8764.0	7943.3	7433.3
55°	2039.8	2415.9	3223.0	4081.3	3421.9	2643.3	2274.6
60°	914.5	1021.9	1370.3	1828.5	1474.6	1154.1	1044.2
65°	373.4	429.3	595.7	753.8	671.5	529.2	489.2
70°	297.2	310.3	228.9	215.1	259.4	333.5	336.4
75°	82.6	110.4	89.3	125.8	115.2	138.3	120.0
80°	20.0	20.0	30.1	45.8	61.5	71.6	81.6
85°	1867.6	1830.5	1750.7	1628.1	1522.6	1457.0	1468.4

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Luminance values in cd/m²

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

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