

Photometric test report

Family
Silica® 21 Floor

Order number: 51MX53DA3ZM00991XX
EAN: 4069025333773

LP number
59330_396

serial
documentation
09.04.2025

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Version floorstanding uplight, with homogeneous illumination, prismatic cover, indirect-/ direct distribution, extremely wide distribution, $UGR \leq 19$ ($L65 \leq 3000 \text{ cd/m}^2$), with presence- and daylightsensor

Lamps LED 3000 K | CRI ≥ 80

Controlgear ECG-DALI

Setting individual position: only direct light

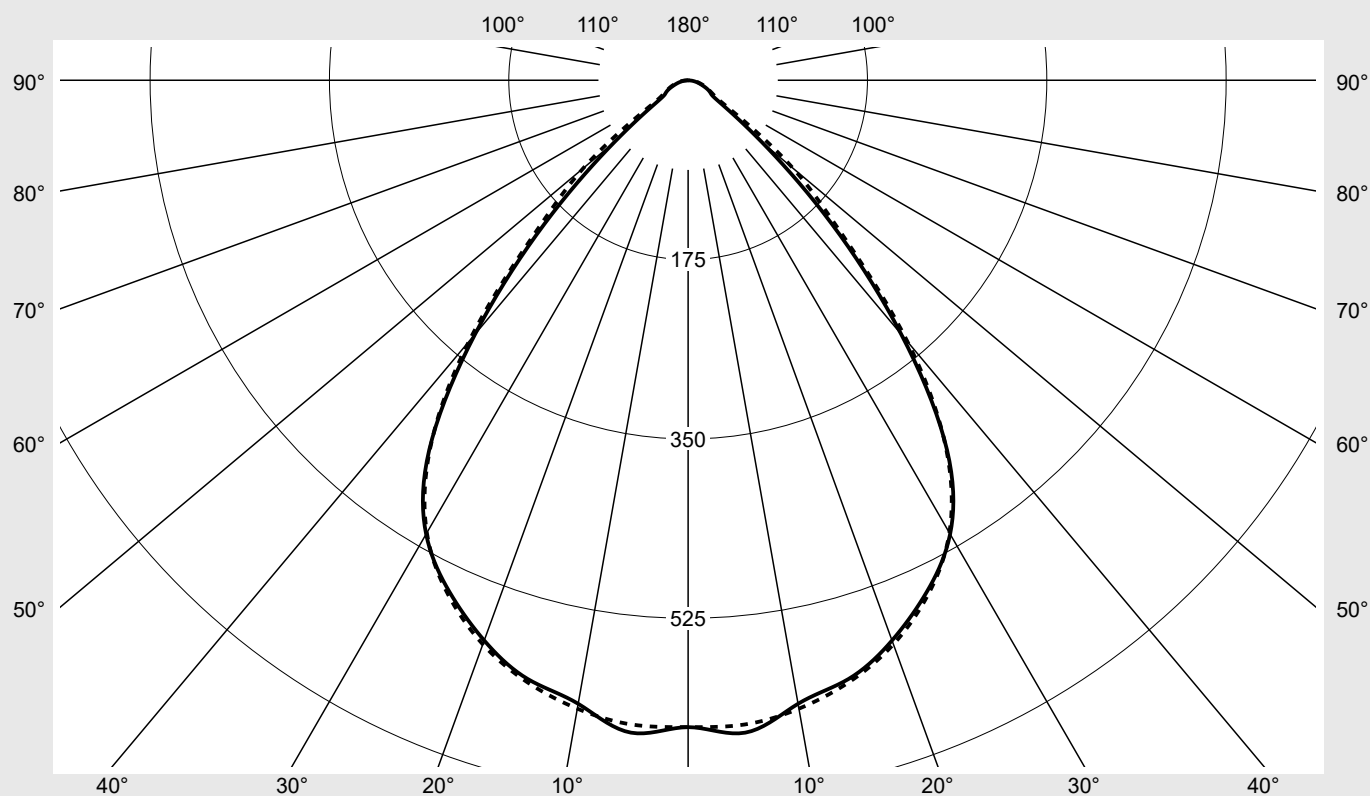
Rated values Net luminous flux = 3280 lm
Power consumption = 25.6 W
Luminous efficacy = 128.1 lm/W

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 642 cd/klm



Classifications

DIN 5040 A 6 0
CIE N1=78 N2=96 N3=99
N4=100 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 100.0%
 ϕ_o 0.0%

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°	631.2	631.2	631.2	631.2	631.2	631.2	631.2	3.8	3.8
5°	639.0	636.9	635.8	640.8	642.0	634.8	631.1	30.5	34.2
10°	617.8	615.8	612.2	616.7	624.6	629.4	622.7	59.0	93.2
15°	604.8	603.1	597.6	597.0	601.6	607.9	607.8	85.4	178.7
20°	581.7	581.2	575.6	575.6	576.2	579.7	585.7	108.5	287.2
25°	550.9	551.4	546.3	545.8	546.2	547.0	553.9	127.0	414.1
30°	511.3	512.1	506.5	506.8	506.5	506.0	509.9	139.2	553.4
35°	440.5	440.8	437.0	438.8	441.2	438.6	439.0	138.1	691.5
40°	323.4	324.8	326.1	329.4	332.6	332.8	333.0	115.9	807.4
45°	198.4	199.0	200.7	203.5	206.3	209.2	212.1	79.1	886.5
50°	93.9	108.5	122.0	111.2	100.2	119.3	133.6	47.2	933.7
55°	37.7	51.0	48.2	55.0	41.5	57.5	53.4	22.4	956.1
60°	25.5	26.5	28.2	26.2	26.1	27.8	29.0	12.8	968.9
65°	21.0	20.8	21.7	21.1	22.1	22.0	22.3	10.7	979.6
70°	15.2	15.5	16.2	16.1	16.4	16.6	17.4	8.3	987.9
75°	10.6	11.0	12.1	11.5	11.8	12.4	12.4	6.2	994.1
80°	6.4	6.8	7.5	8.1	7.5	8.4	8.5	4.1	998.3
85°	2.4	2.5	2.6	3.2	3.5	4.1	4.3	1.7	1000.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	18.4	19.8	18.8	20.1	20.4	18.6	20.0	19.0	20.3	20.6
	3H	18.5	19.7	18.9	20.0	20.4	18.7	19.9	19.1	20.3	20.6
	4H	18.5	19.7	18.9	20.0	20.4	18.8	19.9	19.2	20.3	20.6
	6H	18.6	19.6	19.0	19.9	20.3	18.9	19.9	19.3	20.2	20.6
	8H	18.6	19.5	19.1	19.9	20.3	19.0	19.9	19.4	20.2	20.6
	12H	18.6	19.5	19.1	19.9	20.3	19.0	19.8	19.4	20.2	20.6
4H	2H	18.4	19.5	18.8	19.8	20.2	18.6	19.7	19.0	20.0	20.4
	3H	18.5	19.4	18.9	19.8	20.2	18.7	19.7	19.2	20.0	20.5
	4H	18.6	19.4	19.0	19.8	20.3	18.8	19.7	19.3	20.1	20.5
	6H	18.7	19.4	19.1	19.8	20.3	19.0	19.7	19.4	20.1	20.6
	8H	18.7	19.3	19.2	19.8	20.3	19.0	19.7	19.5	20.1	20.6
	12H	18.7	19.3	19.2	19.7	20.2	19.1	19.7	19.6	20.1	20.6
8H	4H	18.6	19.2	19.1	19.7	20.2	18.8	19.5	19.3	19.9	20.4
	6H	18.7	19.2	19.2	19.7	20.2	19.0	19.5	19.5	20.0	20.5
	8H	18.8	19.2	19.3	19.7	20.2	19.1	19.6	19.6	20.1	20.6
	12H	18.8	19.2	19.3	19.7	20.2	19.2	19.6	19.7	20.1	20.6
12H	4H	18.6	19.1	19.1	19.6	20.1	18.8	19.4	19.3	19.8	20.3
	6H	18.7	19.2	19.3	19.7	20.2	19.0	19.5	19.5	20.0	20.5
	8H	18.8	19.2	19.3	19.7	20.2	19.1	19.5	19.7	20.0	20.6

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 1200 B = 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°	15337.1	15386.8	15516.8	15733.4	15947.7	16176.3	16396.2
50°	7985.6	9225.1	10377.4	9461.0	8525.0	10144.7	11360.6
55°	3593.5	4859.8	4595.5	5239.5	3952.2	5476.5	5093.4
60°	2786.7	2901.2	3078.1	2859.1	2851.3	3042.2	3168.5
65°	2712.4	2694.8	2807.3	2728.9	2858.0	2844.2	2883.9
70°	2428.8	2480.0	2581.5	2570.0	2616.8	2647.5	2781.9
75°	2234.0	2315.3	2548.7	2438.7	2493.0	2614.9	2619.3
80°	2010.4	2136.0	2358.3	2564.8	2374.0	2654.5	2660.5
85°	1519.8	1542.4	1645.2	2011.5	2168.3	2548.4	2673.3

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Luminance values in cd/m²

γ 65°

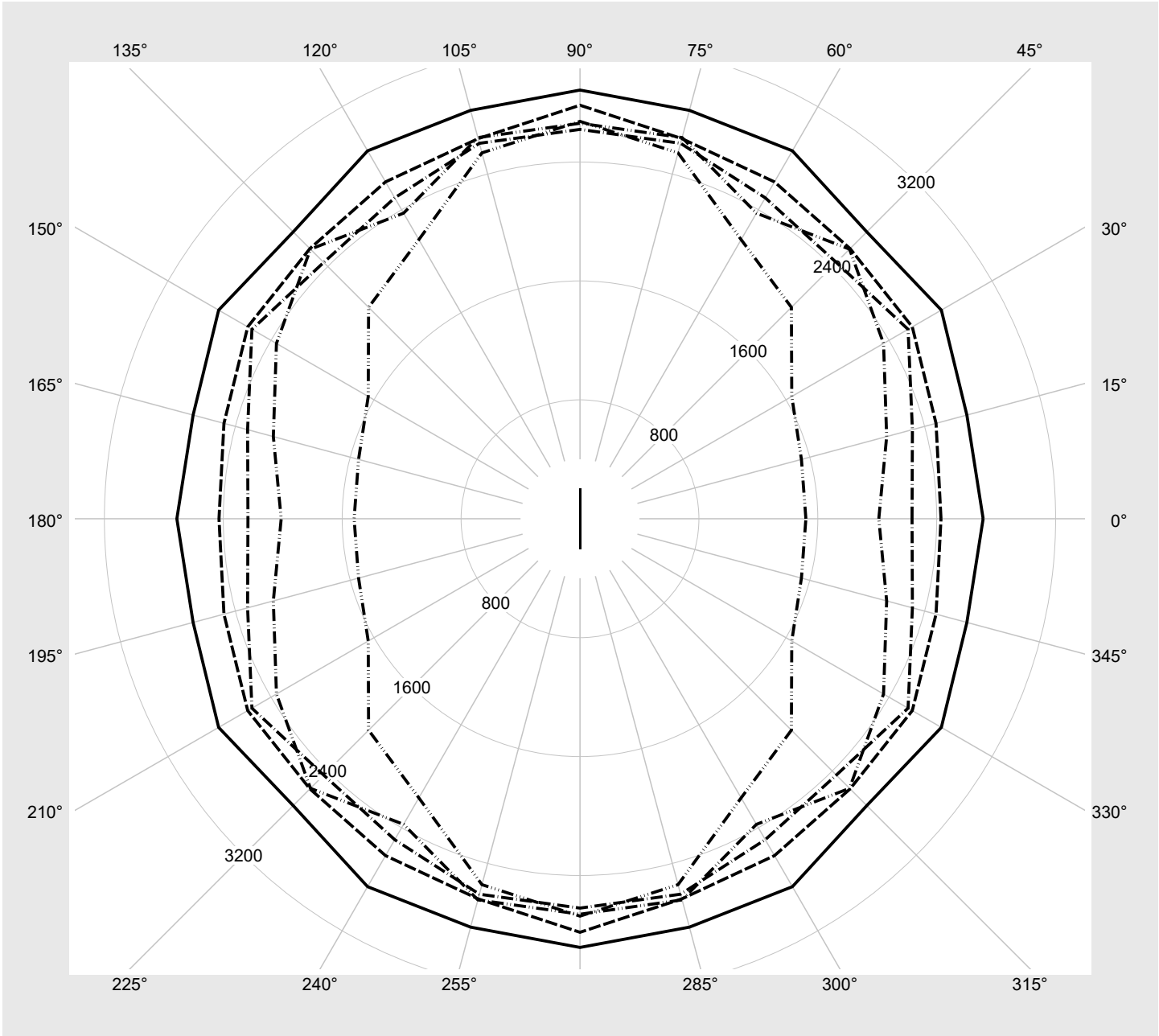
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table		environmental temperature: 25°C



Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	3280	25.6
95	241	252	3121	24.3
90	227	250	2948	22.9
85	214	248	2786	21.6
80	201	245	2624	20.3
75	188	243	2460	19.0
70	175	240	2295	17.7
65	162	238	2130	16.4
60	149	234	1964	15.1
55	137	231	1809	14.0
50	124	228	1641	12.7
45	111	224	1472	11.5
40	99	219	1315	10.4
35	86	214	1144	9.1
30	74	209	985	8.0
25	62	202	826	6.9
20	49	194	653	5.7
15	37	183	493	4.6
10	25	169	330	3.5
5	13	145	169	2.4
1	4	102	47	1.4