

Photometric test report

Family
Silica® 21 Floor

Order number: 51MX52DA3ZM00891XX
EAN: 4069025333674

LP number
59266_333

serial
documentation
09.04.2025

siteco

Version floorstanding uplight, reflector, black, indirect-/direct distribution, wide distribution, $UGR \leq 19$ ($L_{65} \leq 1000 \text{ cd/m}^2$), with presence- and daylightsensor

Lamps LED 3000 K | CRI ≥ 80

Controlgear ECG-DALI

Setting individual position: only direct light

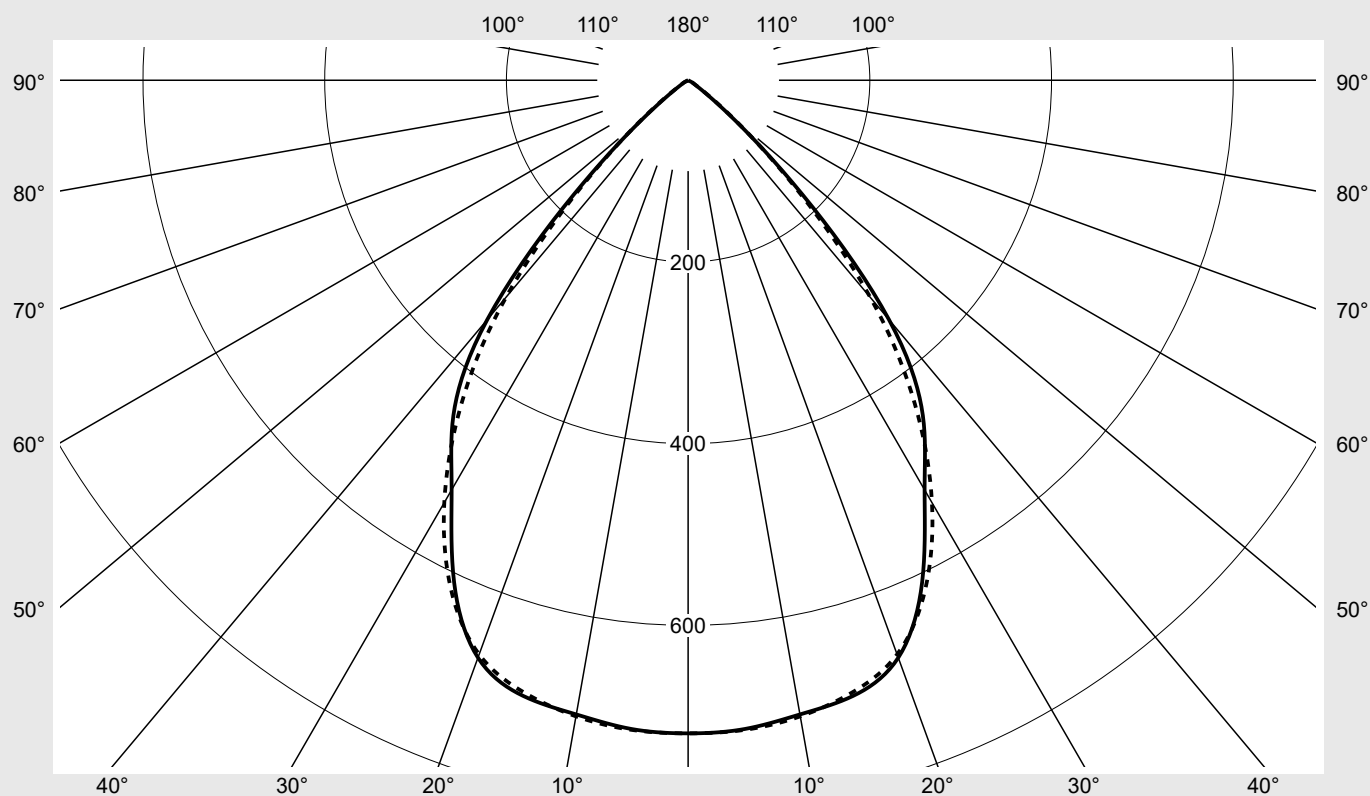
Rated values Net luminous flux = 4320 lm
Power consumption = 29.1 W
Luminous efficacy = 148.5 lm/W

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 719 cd/klm



Classifications

DIN 5040 A 6 0
CIE N1=86 N2=100 N3=100
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°	718.8	718.8	718.8	718.8	718.8	718.8	718.8	4.3	4.3
5°	716.8	715.7	712.2	716.2	717.8	715.2	717.7	34.2	38.5
10°	708.8	709.0	703.3	708.6	709.9	707.6	710.9	67.4	105.9
15°	701.5	704.3	697.3	698.3	698.8	696.7	697.6	99.2	205.1
20°	676.3	682.5	681.1	681.0	677.6	673.2	672.5	127.2	332.2
25°	609.5	618.9	627.5	636.4	634.5	625.9	617.8	145.0	477.3
30°	520.6	528.9	533.1	542.9	550.7	541.7	536.8	147.4	624.6
35°	450.5	455.7	444.2	436.3	445.0	443.0	435.2	139.8	764.4
40°	343.9	350.9	343.2	332.9	329.4	321.5	312.0	117.8	882.2
45°	178.2	185.2	190.8	192.2	186.9	176.3	167.1	71.3	953.5
50°	59.7	64.4	73.8	78.7	75.2	68.1	63.7	29.5	983.0
55°	15.6	18.5	24.7	31.2	26.2	20.2	17.4	10.3	993.3
60°	6.1	6.8	9.1	12.2	9.8	7.7	7.0	4.1	997.4
65°	2.1	2.4	3.4	4.3	3.8	3.0	2.8	1.6	999.0
70°	1.4	1.4	1.0	1.0	1.2	1.5	1.5	0.7	999.7
75°	0.3	0.4	0.3	0.4	0.4	0.5	0.4	0.2	999.9
80°	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.1	999.9
85°	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.1	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
Reflection factor of walls		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3
Reflection factor of floor		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)			
2H	x									
	y									
	2H	19.0	20.3	19.4	20.6	21.0	18.9	20.2	19.2	20.5
	3H	18.9	20.0	19.3	20.4	20.7	18.7	19.9	19.1	20.2
	4H	18.8	19.9	19.2	20.2	20.6	18.7	19.7	19.1	20.1
	6H	18.8	19.7	19.2	20.1	20.5	18.6	19.5	19.0	19.9
4H	8H	18.8	19.6	19.2	20.0	20.4	18.6	19.4	19.1	19.8
	12H	18.8	19.5	19.2	19.9	20.3	18.6	19.4	19.0	19.7
	2H	18.9	19.9	19.3	20.2	20.6	18.7	19.7	19.1	20.1
	3H	18.7	19.5	19.1	19.9	20.4	18.5	19.4	19.0	19.8
	4H	18.6	19.4	19.1	19.8	20.2	18.4	19.2	18.9	19.6
	6H	18.5	19.2	19.0	19.6	20.1	18.4	19.0	18.8	19.4
8H	8H	18.5	19.1	19.0	19.5	20.0	18.3	18.9	18.8	19.3
	12H	18.5	19.0	19.0	19.4	19.9	18.3	18.8	18.8	19.2
	4H	18.5	19.1	19.0	19.5	20.0	18.3	18.9	18.8	19.3
	6H	18.4	18.8	18.9	19.3	19.8	18.2	18.7	18.7	19.2
	8H	18.3	18.7	18.8	19.2	19.8	18.2	18.6	18.7	19.1
	12H	18.3	18.6	18.8	19.1	19.7	18.1	18.5	18.7	19.0
12H	4H	18.5	19.0	19.0	19.4	19.9	18.3	18.8	18.8	19.2
	6H	18.4	18.7	18.9	19.2	19.8	18.2	18.6	18.7	19.1
	8H	18.3	18.6	18.8	19.1	19.7	18.1	18.5	18.7	19.0
	2H	18.9	19.9	19.3	20.2	20.6	18.7	19.7	19.1	20.1
	3H	18.7	19.5	19.1	19.9	20.4	18.5	19.4	19.0	19.8
	4H	18.6	19.4	19.1	19.8	20.2	18.4	19.2	18.9	19.6

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°	18893.8	19639.4	20224.8	20378.7	19816.4	18686.5	17719.1
50°	6967.4	7515.8	8602.9	9174.9	8765.7	7944.9	7434.7
55°	2040.2	2416.2	3223.4	4082.0	3422.4	2643.9	2274.9
60°	914.5	1022.3	1370.7	1828.8	1475.1	1154.2	1044.6
65°	373.2	429.1	595.7	753.9	671.6	529.3	489.2
70°	297.0	310.2	229.3	215.0	259.3	333.6	336.2
75°	82.6	110.1	89.5	125.7	115.3	137.9	120.5
80°	20.7	20.7	30.7	46.2	61.7	71.7	82.0
85°	20.6	36.1	45.6	81.7	117.8	142.8	153.1

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Luminance values in cd/m²

γ 65°

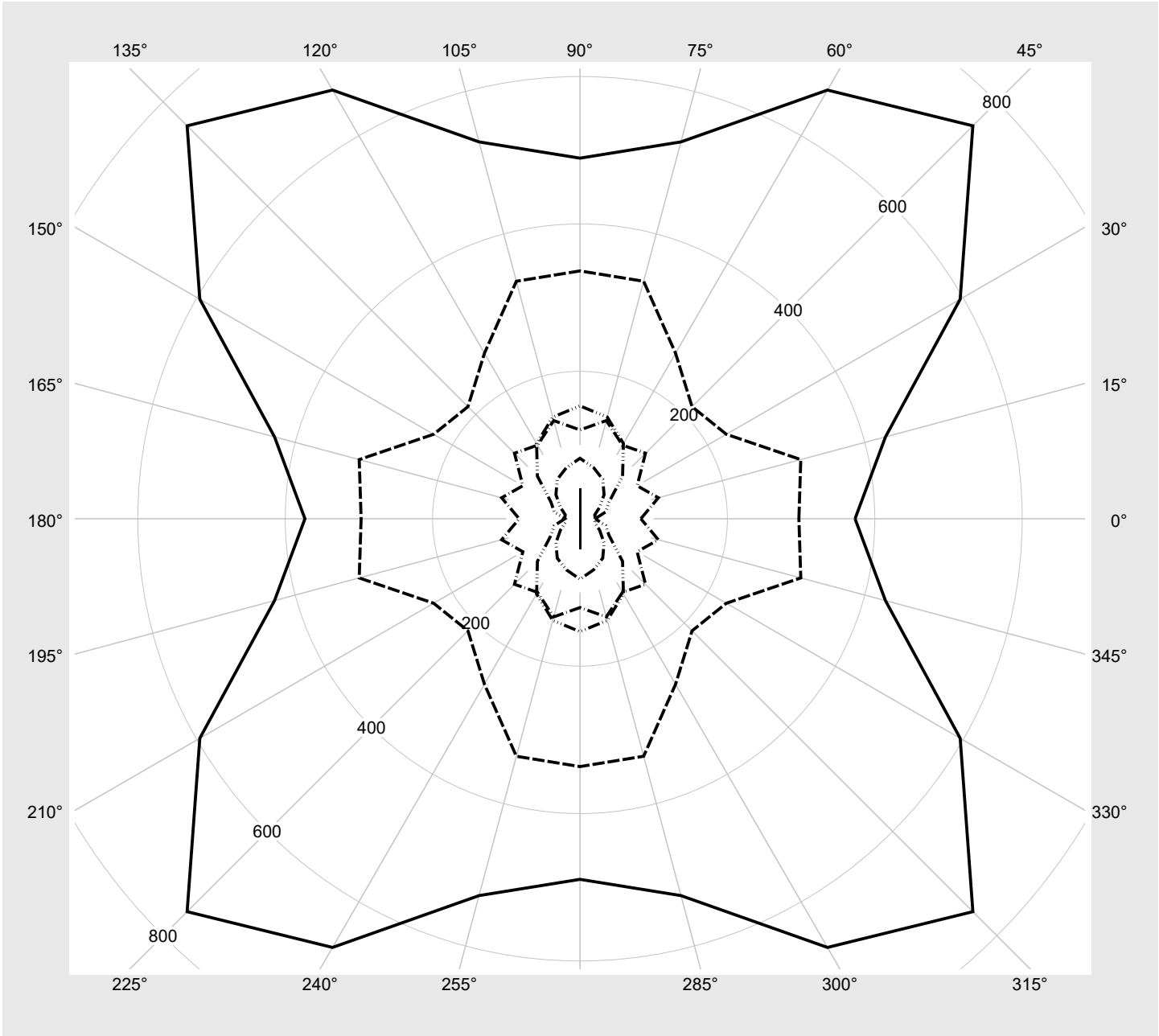
γ 70°

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	4320	29.1
95	241	252	4112	27.6
90	227	250	3885	26.0
85	214	248	3674	24.5
80	201	245	3462	23.1
75	188	243	3247	21.5
70	175	240	3030	20.0
65	162	238	2814	18.6
60	149	234	2596	17.1
55	136	231	2376	15.7
50	123	227	2153	14.2
45	111	224	1948	12.9
40	98	219	1723	11.5
35	86	214	1515	10.2
30	73	208	1288	8.8
25	61	202	1077	7.6
20	49	194	866	6.3
15	37	183	653	5.1
10	25	169	440	3.8
5	13	145	225	2.6
1	3	91	45	1.3