

Photometric test report

Family
Silica® 21

Order number: **51MX22DC4ABB**
EAN: **4058352900154**

LP number
59266_158

serial
documentation
02.08.2023

siteco



Version surface-mounted luminaire, reflector, black,
direct distribution, wide distribution, $UGR \leq 19$
($L65 \leq 1000 \text{ cd/m}^2$)

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG-DALI

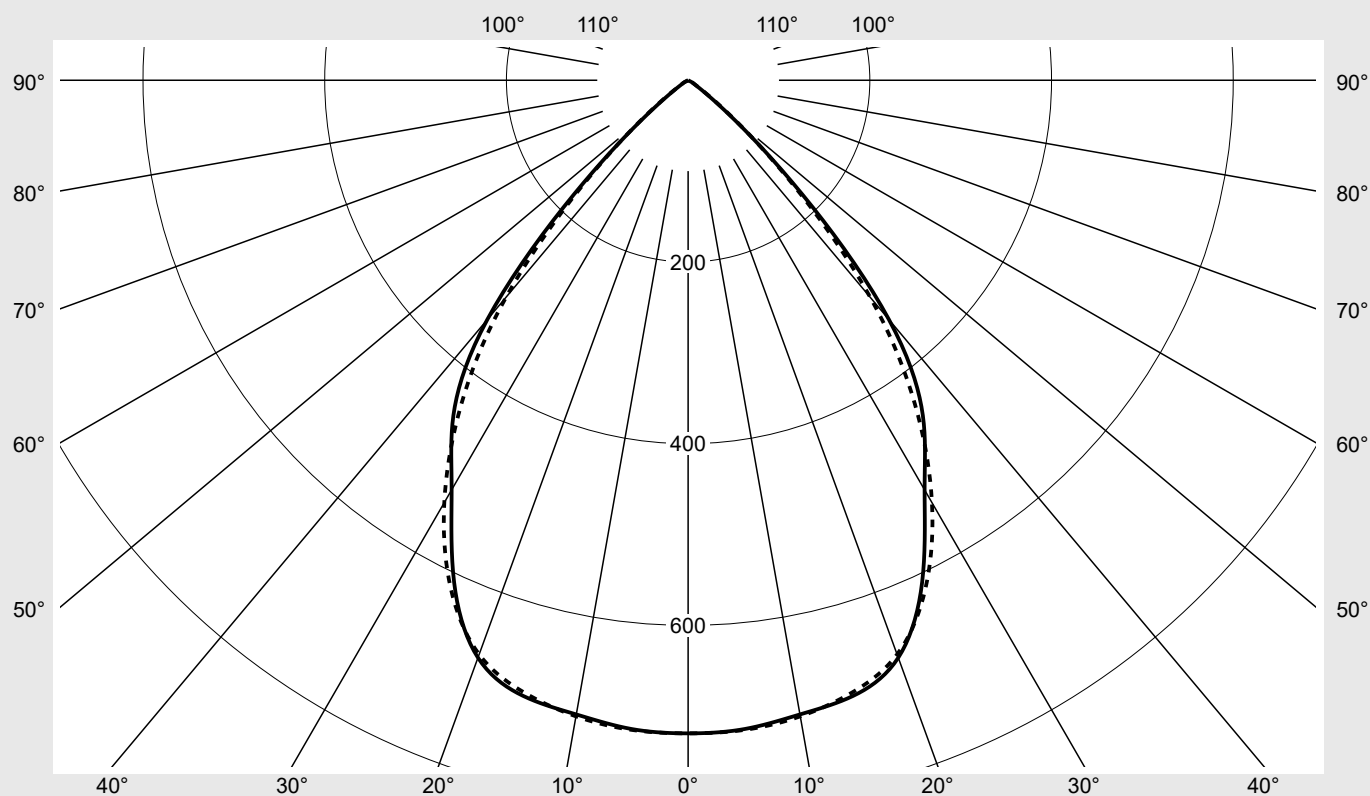
Rated values Net luminous flux = 10800 lm
Power consumption = 64.7 W
Luminous efficacy = 166.9 lm/W

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	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	19.0	20.3	19.4	20.6	21.0	18.9	20.2	19.2	20.5	20.8
	3H	18.9	20.0	19.3	20.4	20.7	18.7	19.9	19.1	20.2	20.6
	4H	18.8	19.9	19.2	20.2	20.6	18.7	19.7	19.1	20.1	20.4
	6H	18.8	19.7	19.2	20.1	20.5	18.6	19.5	19.0	19.9	20.3
	8H	18.8	19.6	19.2	20.0	20.4	18.6	19.4	19.1	19.8	20.2
	12H	18.8	19.5	19.2	19.9	20.3	18.6	19.4	19.0	19.7	20.2
4H	2H	18.9	19.9	19.3	20.2	20.6	18.7	19.7	19.1	20.1	20.4
	3H	18.7	19.5	19.1	19.9	20.4	18.5	19.4	19.0	19.8	20.2
	4H	18.6	19.4	19.1	19.8	20.2	18.4	19.2	18.9	19.6	20.0
	6H	18.5	19.2	19.0	19.6	20.1	18.4	19.0	18.8	19.4	19.9
	8H	18.5	19.1	19.0	19.5	20.0	18.3	18.9	18.8	19.3	19.8
	12H	18.5	19.0	19.0	19.4	19.9	18.3	18.8	18.8	19.2	19.7
8H	4H	18.5	19.1	19.0	19.5	20.0	18.3	18.9	18.8	19.3	19.8
	6H	18.4	18.8	18.9	19.3	19.8	18.2	18.7	18.7	19.2	19.7
	8H	18.3	18.7	18.8	19.2	19.8	18.2	18.6	18.7	19.1	19.6
	12H	18.3	18.6	18.8	19.1	19.7	18.1	18.5	18.7	19.0	19.5
12H	4H	18.5	19.0	19.0	19.4	19.9	18.3	18.8	18.8	19.2	19.7
	6H	18.4	18.7	18.9	19.2	19.8	18.2	18.6	18.7	19.1	19.6
	8H	18.3	18.6	18.8	19.1	19.7	18.1	18.5	18.7	19.0	19.5

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 2940 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°

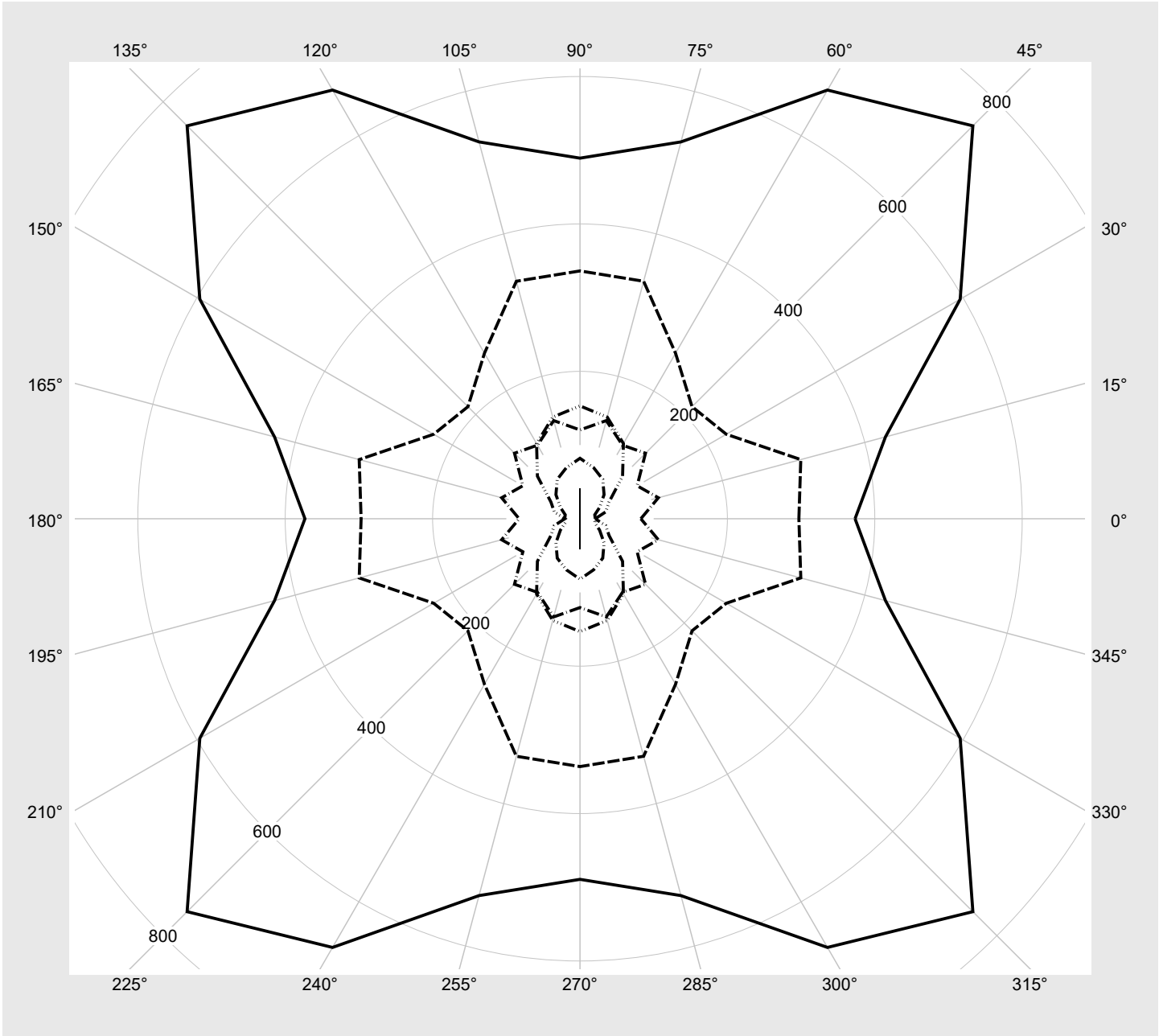
γ 70°

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	10800	64.7
95	241	252	10278	61.5
90	227	250	9708	58.0
85	214	248	9179	54.9
80	201	245	8646	51.7
75	188	243	8110	48.5
70	175	240	7570	45.3
65	162	238	7026	42.2
60	149	234	6478	39.1
55	136	231	5925	35.9
50	124	228	5414	33.0
45	111	224	4857	29.8
40	99	219	4340	26.9
35	86	214	3777	23.9
30	74	209	3254	21.1
25	61	202	2685	18.0
20	49	194	2158	15.1
15	37	183	1625	12.1
10	25	169	1093	9.3
5	13	145	558	5.9
3	8	127	335	4.1