

Photometric test report

Family
Silica® 21 round S

Order number: 51MF43DA3MSA
EAN: 4069025809353

LP number
59826_865

serial
documentation
20.05.2026

siteco



Version Suspended luminaire, housing, silver,
microprismatic optics, direct wide distribution,
UGR≤19

Lamps LED 3000 K | CRI ≥ 80

Controlgear ECG-DALI

Rated values Net luminous flux = 2410 lm
Power consumption = 16.7 W
Luminous efficacy = 144.3 lm/W

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 487 cd/klm



Classifications

DIN 5040 A 5 0
CIE N1=64 N2=89 N3=97
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°	486.1	486.1	486.1	486.1	486.1	486.1	486.1	2.9	2.9
5°	486.7	484.1	481.4	483.1	485.4	485.1	485.0	23.1	26.0
10°	480.4	477.8	474.6	475.9	477.9	477.5	477.5	45.4	71.5
15°	468.5	466.0	462.5	463.3	464.8	464.2	464.0	65.9	137.4
20°	452.3	449.7	445.8	446.0	446.9	446.2	446.0	83.9	221.2
25°	432.8	429.8	425.0	424.8	425.7	424.4	423.6	98.8	320.0
30°	409.4	405.7	400.1	399.8	401.2	399.1	397.5	110.0	430.0
35°	379.7	376.2	369.4	369.8	370.7	368.6	365.6	116.7	546.7
40°	334.5	334.6	328.5	328.1	322.7	324.2	320.4	115.4	662.1
45°	236.5	251.7	255.4	250.5	228.6	250.0	251.1	95.6	757.7
50°	143.7	164.9	192.5	164.8	142.8	162.3	188.3	69.5	827.3
55°	88.6	101.2	143.4	100.8	87.8	98.6	141.0	48.4	875.6
60°	56.4	68.4	100.7	69.1	56.3	67.5	101.9	34.9	910.5
65°	50.4	58.5	62.3	59.9	51.6	59.9	58.9	28.7	939.3
70°	41.3	50.4	31.9	51.3	41.6	51.4	31.5	22.6	961.8
75°	39.1	35.2	27.9	35.9	39.6	35.7	25.6	18.2	980.1
80°	28.0	21.2	27.7	20.6	28.4	21.6	29.6	13.4	993.4
85°	13.1	12.2	10.3	12.3	13.0	12.5	10.4	6.6	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	16.9	18.4	17.3	18.7	19.1	16.7	18.2	17.1	18.5	18.9
	3H	17.6	19.0	18.0	19.3	19.7	17.5	18.8	17.9	19.2	19.5
	4H	18.1	19.4	18.5	19.7	20.1	17.8	19.1	18.2	19.4	19.8
	6H	18.6	19.7	19.0	20.1	20.5	18.2	19.4	18.7	19.8	20.2
	8H	18.8	19.9	19.2	20.3	20.7	18.6	19.6	19.0	20.0	20.4
	12H	19.0	20.0	19.4	20.4	20.8	18.7	19.7	19.1	20.1	20.5
4H	2H	17.2	18.4	17.6	18.8	19.1	17.0	18.3	17.4	18.6	19.0
	3H	18.0	19.1	18.4	19.5	19.9	18.0	19.1	18.4	19.5	19.9
	4H	18.6	19.5	19.0	19.9	20.4	18.5	19.5	19.0	19.9	20.3
	6H	19.2	20.0	19.6	20.4	20.9	19.1	19.9	19.6	20.4	20.8
	8H	19.4	20.2	19.9	20.6	21.1	19.4	20.2	19.9	20.6	21.1
	12H	19.7	20.3	20.2	20.8	21.3	19.6	20.3	20.1	20.7	21.2
8H	4H	18.8	19.6	19.3	20.0	20.5	18.8	19.6	19.3	20.0	20.5
	6H	19.6	20.2	20.1	20.7	21.2	19.6	20.2	20.1	20.7	21.2
	8H	20.0	20.5	20.5	21.0	21.5	20.0	20.5	20.5	21.0	21.5
	12H	20.3	20.7	20.8	21.2	21.8	20.3	20.7	20.8	21.2	21.8
12H	4H	18.9	19.5	19.4	20.0	20.5	18.9	19.5	19.4	20.0	20.5
	6H	19.7	20.2	20.2	20.7	21.2	19.7	20.2	20.2	20.7	21.2
	8H	20.1	20.5	20.6	21.0	21.6	20.1	20.6	20.6	21.1	21.6

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		D = 386	
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°	6888.8	7331.9	7437.7	7294.7	6657.3	7280.5	7314.7
50°	4604.7	5282.7	6167.9	5279.6	4574.2	5198.9	6034.2
55°	3180.7	3633.7	5149.3	3617.8	3151.4	3539.2	5063.8
60°	2324.4	2816.2	4146.3	2847.1	2317.3	2779.2	4195.2
65°	2454.4	2849.2	3035.8	2919.3	2515.7	2920.5	2872.0
70°	2489.7	3035.2	1922.7	3092.0	2503.7	3097.9	1899.3
75°	3109.7	2797.7	2220.6	2858.6	3154.6	2837.2	2035.9
80°	3326.6	2518.8	3287.1	2446.1	3365.0	2567.2	3507.1
85°	3093.6	2893.0	2442.1	2902.4	3076.3	2963.9	2455.8

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Luminance values in cd/m²

γ 65°

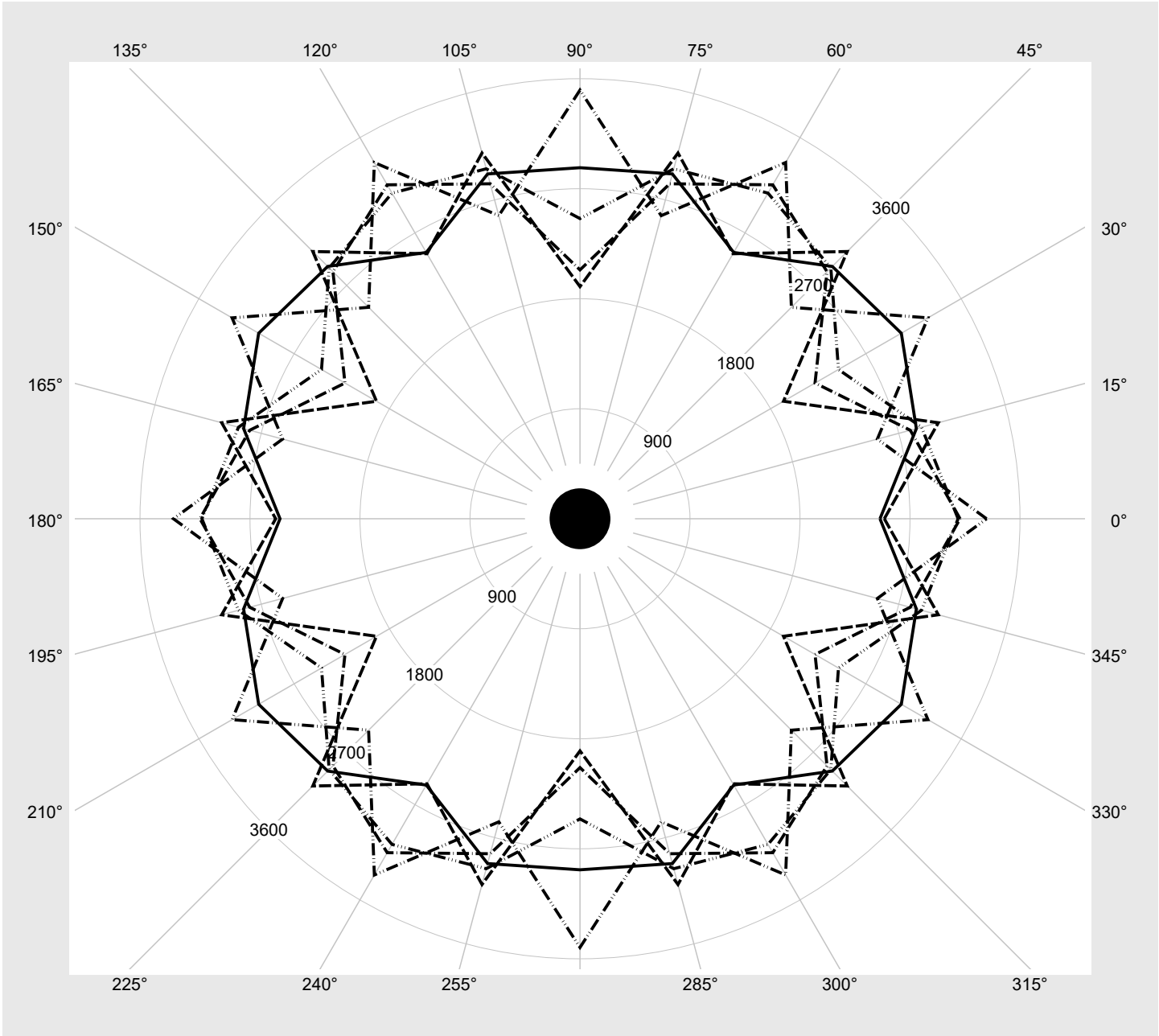
γ 70°

γ 75°

γ 80°

γ 85°

siteco



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Dimming levels table		environmental temperature: 25°C
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Luminous flux [%]	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	2410	16.7
95	241	252	2289	15.9
90	228	250	2168	15.1
85	215	248	2045	14.2
80	203	246	1932	13.5
75	190	243	1810	12.6
70	177	241	1687	11.9
65	164	238	1563	11.1
60	152	235	1449	10.3
55	139	232	1325	9.6
50	126	228	1201	8.8
45	114	225	1086	8.0
40	101	220	961	7.2
35	89	216	845	6.4
30	76	210	720	5.6
25	64	204	604	4.8
20	51	195	477	4.0
15	39	185	361	3.2
10	27	172	243	2.4
5	14	148	116	1.4
4	12	142	96	1.2