

Photometric test report

Family
Silica® 21 round L

Order number: 51ME63DC3MSA
EAN: 4069025805140

LP number
59826_821

serial
documentation
20.05.2026

siteco



Version surface-mounted luminaire, housing, silver,
microprismatic optics, direct wide distribution,
UGR≤19

Lamps LED 3000 K | CRI ≥ 80

Controlgear ECG-DALI

Rated values Net luminous flux = 12730 lm
Power consumption = 83.0 W
Luminous efficacy = 153.4 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
	3H	17.6	19.0	18.0	19.3	19.7	17.5	18.8	17.9	19.2
	4H	18.1	19.4	18.5	19.7	20.1	17.8	19.1	18.2	19.4
	6H	18.6	19.7	19.0	20.1	20.5	18.3	19.4	18.7	19.8
	8H	18.8	19.9	19.2	20.3	20.7	18.6	19.6	19.0	20.0
	12H	19.0	20.0	19.4	20.4	20.8	18.7	19.7	19.1	20.1
4H	2H	17.2	18.4	17.6	18.8	19.2	17.0	18.3	17.4	18.6
	3H	18.0	19.1	18.4	19.5	19.9	18.0	19.1	18.4	19.5
	4H	18.6	19.5	19.0	19.9	20.4	18.6	19.5	19.0	19.9
	6H	19.2	20.0	19.6	20.4	20.9	19.1	20.0	19.6	20.4
	8H	19.4	20.2	19.9	20.6	21.1	19.4	20.2	19.9	20.6
	12H	19.7	20.3	20.2	20.8	21.3	19.6	20.3	20.1	20.7
8H	4H	18.8	19.6	19.3	20.0	20.5	18.8	19.6	19.3	20.0
	6H	19.6	20.2	20.1	20.7	21.2	19.6	20.2	20.1	20.7
	8H	20.0	20.5	20.5	21.0	21.5	20.0	20.5	20.5	21.0
	12H	20.3	20.7	20.8	21.2	21.8	20.3	20.7	20.8	21.2
12H	4H	18.9	19.5	19.4	20.0	20.5	18.9	19.5	19.4	20.0
	6H	19.7	20.2	20.2	20.7	21.2	19.7	20.2	20.2	20.7
	8H	20.1	20.5	20.6	21.0	21.6	20.1	20.6	20.6	21.1

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		D = 886	
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°	6906.6	7350.8	7456.9	7313.5	6674.5	7299.2	7333.6
50°	4616.6	5296.3	6183.8	5293.2	4586.0	5212.3	6049.8
55°	3188.9	3643.0	5162.6	3627.1	3159.6	3548.4	5076.9
60°	2330.4	2823.4	4157.0	2854.5	2323.3	2786.4	4206.1
65°	2460.8	2856.6	3043.6	2926.8	2522.2	2928.0	2879.4
70°	2496.2	3043.1	1927.7	3099.9	2510.1	3105.8	1904.2
75°	3117.7	2804.9	2226.3	2866.0	3162.7	2844.5	2041.2
80°	3335.2	2525.3	3295.6	2452.4	3373.7	2573.8	3516.1
85°	3101.6	2900.4	2448.4	2909.9	3084.3	2971.5	2462.2

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Luminance values in cd/m²

γ 65°

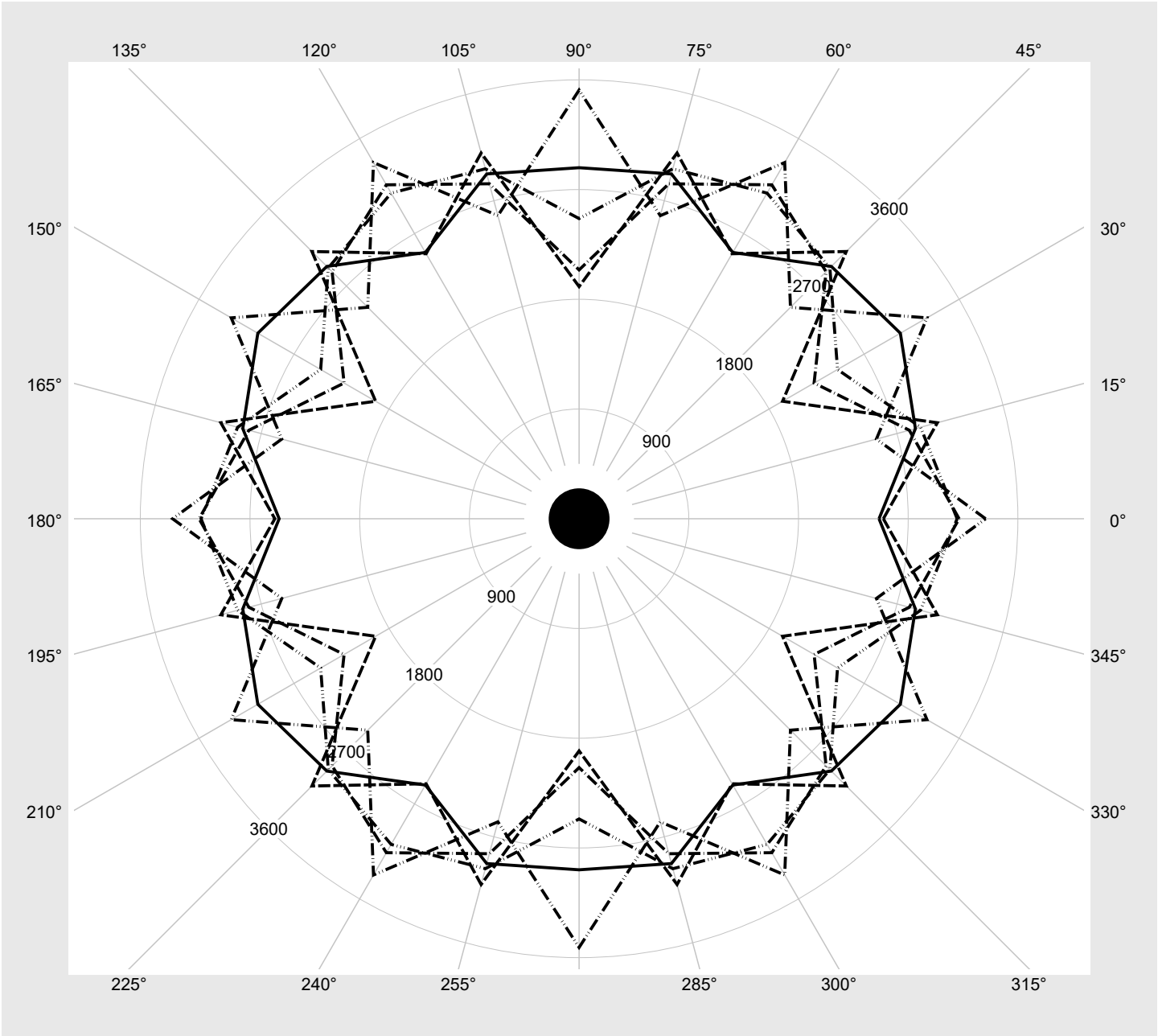
γ 70°

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	12730	83.0
95	241	252	12092	78.7
90	228	250	11450	74.6
85	215	248	10806	70.4
80	202	246	10160	66.2
75	190	243	9562	62.3
70	177	241	8912	58.3
65	164	238	8260	54.1
60	152	235	7656	50.3
55	139	232	7001	46.2
50	126	228	6345	42.1
45	114	225	5738	38.3
40	101	220	5078	34.2
35	89	216	4468	30.5
30	76	210	3804	26.4
25	64	204	3190	22.7
20	51	195	2523	18.7
15	39	185	1906	15.0
10	27	172	1288	11.5
5	14	148	617	7.4
0	3	91	48	3.7