

Photometric test report

Family
Silica® 21 round M

Order number: 51MF43DBDMSA
EAN: 4069025809728

LP number
59826_873

serial
documentation
20.05.2026

siteco



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

Lamps LED 3000 K | CRI ≥ 90

Controlgear ECG-DALI

Rated values Net luminous flux = 5560 lm
Power consumption = 35.8 W
Luminous efficacy = 155.3 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
	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	18.5	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 = 586	
C-planes		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°		6895.8	7339.3	7445.2	7302.1	6664.0	7322.1
50°		4609.4	5288.0	6174.1	5284.9	4578.8	6040.3
55°		3183.9	3637.3	5154.5	3621.4	3154.6	5068.9
60°		2326.8	2819.0	4150.5	2850.0	2319.7	4199.5
65°		2456.9	2852.1	3038.8	2922.3	2518.2	2874.8
70°		2492.3	3038.3	1924.6	3095.1	2506.2	1901.3
75°		3112.9	2800.5	2222.8	2861.5	3157.8	2038.0
80°		3329.9	2521.3	3290.4	2448.6	3368.4	2569.8
85°		3096.7	2895.9	2444.6	2905.3	3079.4	2966.8

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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
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Luminous flux [%]	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	5560	35.8
95	241	252	5285	34.1
90	228	250	5010	32.2
85	215	248	4734	30.5
80	202	246	4456	28.6
75	189	243	4178	26.9
70	176	241	3898	25.1
65	163	238	3616	23.3
60	150	235	3334	21.5
55	137	231	3050	19.7
50	125	228	2787	18.1
45	112	224	2501	16.4
40	99	219	2214	14.6
35	87	215	1947	13.1
30	74	209	1657	11.4
25	62	202	1389	9.9
20	50	194	1120	8.4
15	37	183	828	6.3
10	25	169	557	4.6
5	13	145	285	3.0
2	6	117	125	2.1