

Photometric test report

Family
Silica® 21 round M

Order number: 51MF43DB3MSA
EAN: 4069025809605

LP number
59826_871

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 = 5560 lm
Power consumption = 34.0 W
Luminous efficacy = 163.5 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	18.3	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	19.2	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	20.0	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 = 586	
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°	6895.8	7339.3	7445.2	7302.1	6664.0	7287.8	7322.1
50°	4609.4	5288.0	6174.1	5284.9	4578.8	5204.1	6040.3
55°	3183.9	3637.3	5154.5	3621.4	3154.6	3542.8	5068.9
60°	2326.8	2819.0	4150.5	2850.0	2319.7	2782.0	4199.5
65°	2456.9	2852.1	3038.8	2922.3	2518.2	2923.4	2874.8
70°	2492.3	3038.3	1924.6	3095.1	2506.2	3101.0	1901.3
75°	3112.9	2800.5	2222.8	2861.5	3157.8	2840.1	2038.0
80°	3329.9	2521.3	3290.4	2448.6	3368.4	2569.8	3510.6
85°	3096.7	2895.9	2444.6	2905.3	3079.4	2966.8	2458.3

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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	34.0
95	241	252	5281	32.3
90	228	250	5001	30.6
85	215	248	4720	29.0
80	202	246	4438	27.2
75	190	243	4177	25.8
70	177	241	3895	24.1
65	164	238	3609	22.3
60	152	235	3346	20.8
55	139	232	3060	19.2
50	126	228	2773	17.5
45	114	225	2507	15.9
40	101	220	2218	14.4
35	89	216	1951	12.9
30	76	210	1660	11.3
25	64	204	1391	9.8
20	52	196	1122	8.3
15	39	185	830	6.4
10	27	172	559	4.8
5	15	150	287	3.3
1	6	117	83	2.0