

Photometric test report

Family
Silica® 21 round L

Order number: 51MF43DCEMWA
EAN: 4069025810038

LP number
59826_844

serial
documentation
20.05.2026

siteco



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

Lamps LED 4000 K | CRI ≥ 90

Controlgear ECG-DALI

Rated values Net luminous flux = 12730 lm
Power consumption = 78.3 W
Luminous efficacy = 162.6 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	18.6	19.5	19.0	19.9	20.4	
	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 = 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
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Luminous flux [%]	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	12730	78.3
95	241	252	12106	74.2
90	228	250	11479	70.2
85	214	248	10800	65.9
80	201	245	10166	61.9
75	188	243	9529	58.0
70	175	240	8889	54.1
65	163	238	8294	50.4
60	150	235	7648	46.5
55	137	231	7000	42.6
50	124	228	6348	38.7
45	112	224	5744	35.2
40	99	219	5086	31.2
35	87	215	4476	27.8
30	74	209	3813	23.9
25	62	202	3197	20.5
20	49	194	2527	16.8
15	37	183	1905	13.3
10	25	169	1282	10.1
5	13	145	656	6.6
1	3	91	133	3.5