

Photometric test report

Family
Silica® 21 round M

Order number: 51MF43DBEMSA
EAN: 4069025809773

LP number
59826_874

serial
documentation
20.05.2026

siteco



Version

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

Lamps

LED 4000 K | CRI ≥ 90

Controlgear

ECG-DALI

Rated values

Net luminous flux = 5560 lm

Power consumption = 35.6 W

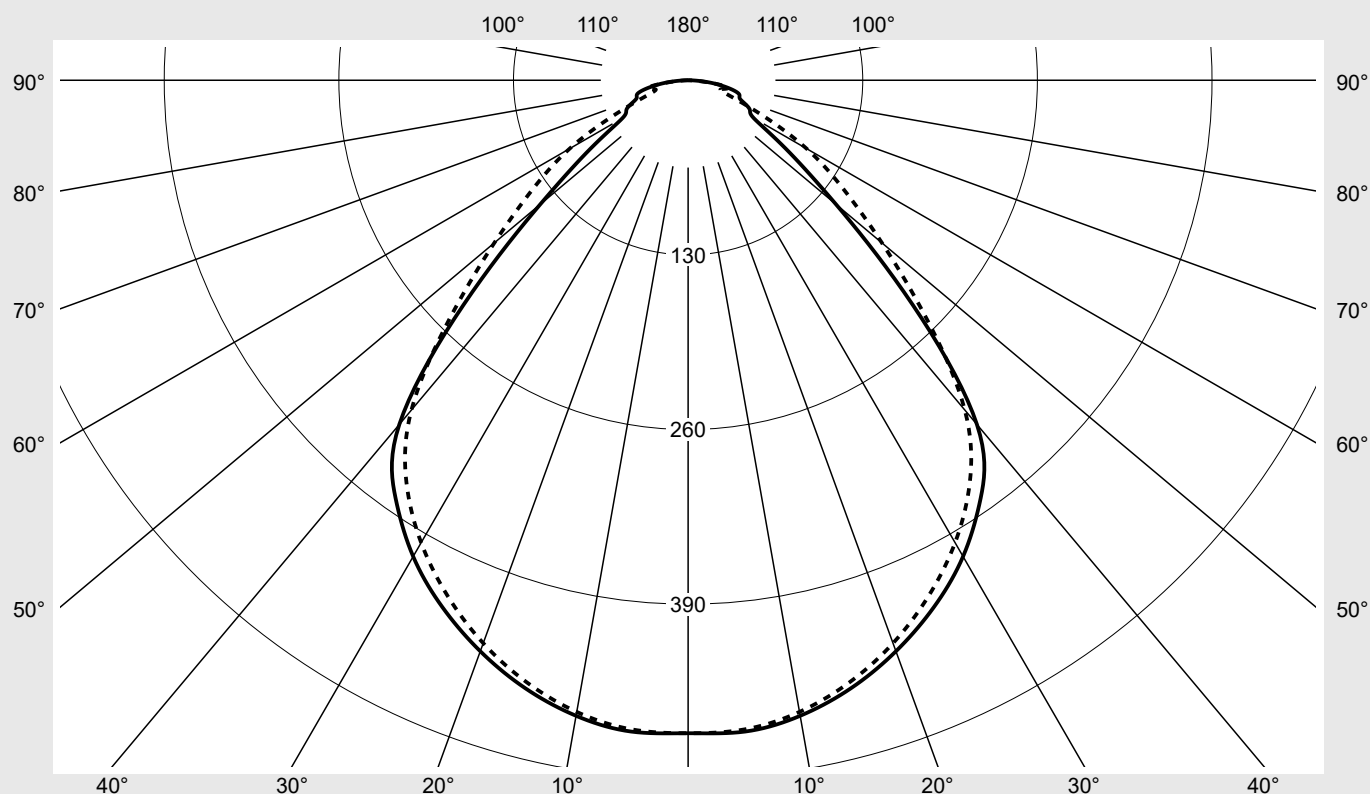
Luminous efficacy = 156.2 lm/W

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	7287.8
50°		4609.4	5288.0	6174.1	5284.9	4578.8	5204.1
55°		3183.9	3637.3	5154.5	3621.4	3154.6	3542.8
60°		2326.8	2819.0	4150.5	2850.0	2319.7	2782.0
65°		2456.9	2852.1	3038.8	2922.3	2518.2	2923.4
70°		2492.3	3038.3	1924.6	3095.1	2506.2	3101.0
75°		3112.9	2800.5	2222.8	2861.5	3157.8	2840.1
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		

Luminous flux [%]	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	5560	35.6
95	241	252	5287	33.8
90	228	250	5011	32.0
85	215	248	4734	30.2
80	202	246	4457	28.4
75	189	243	4178	26.6
70	176	241	3898	24.8
65	163	238	3617	23.1
60	150	235	3334	21.3
55	137	231	3050	19.6
50	125	228	2787	18.0
45	112	224	2501	16.2
40	99	219	2213	14.5
35	87	215	1947	13.0
30	74	209	1658	11.3
25	62	202	1389	9.8
20	50	194	1120	8.3
15	37	183	828	6.3
10	25	169	557	4.6
5	13	145	285	3.0
2	6	117	125	2.1