

Photometric test report

Family
Silica® 21 round M

Order number: 51ME41DB3NBA
EAN: 4069025803030

LP number
60071_80

serial
documentation
20.05.2026

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Version

Suspended luminaire, housing, black, cover, opal, direct extremely wide distribution, UGR≤22

Lamps

LED 3000 K | CRI ≥ 80

Controlgear

ECG-DALI

Rated values

Net luminous flux = 5060 lm

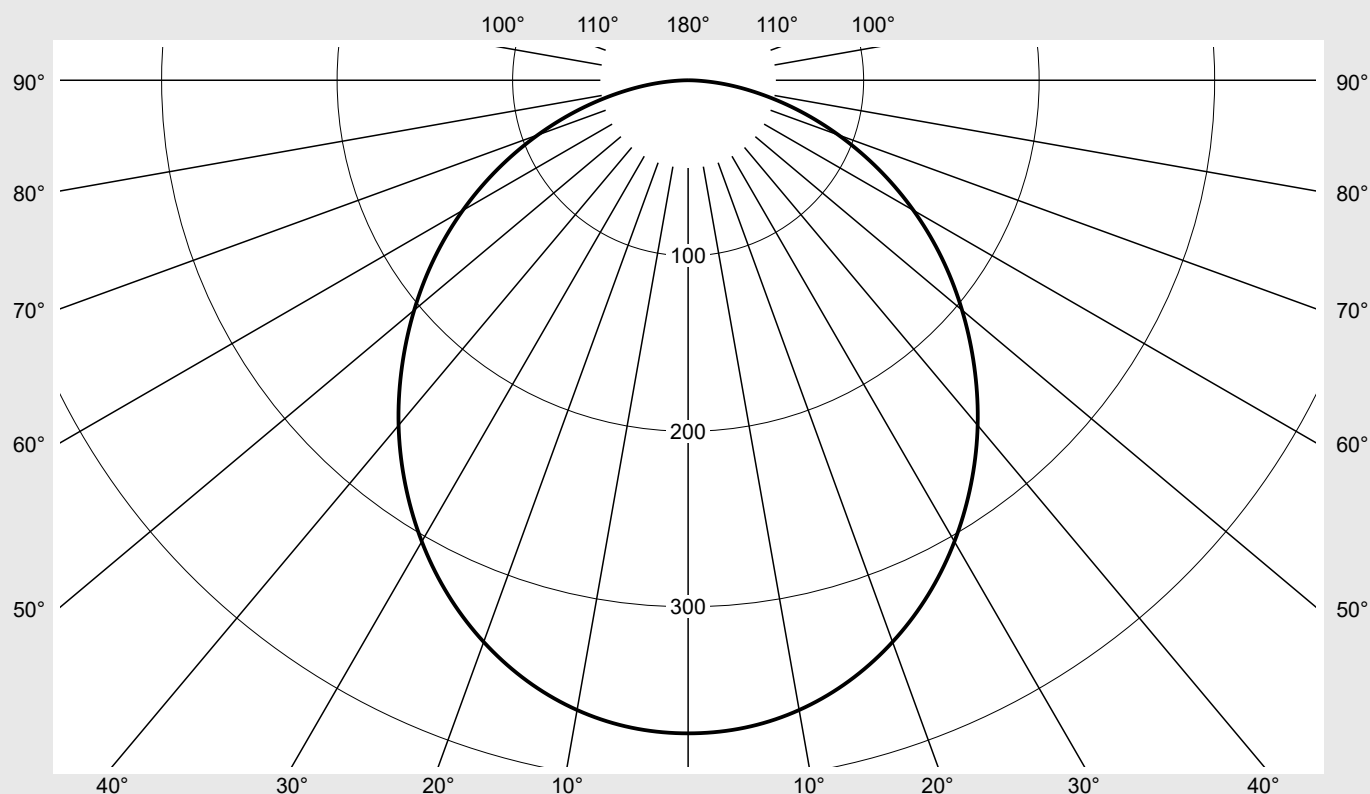
Power consumption = 34.8 W

Luminous efficacy = 145.4 lm/W

Luminous intensity in cd/klm

C180-0

Imax: 372 cd/klm



Classifications

DIN 5040 A 4 0
CIE N1=49 N2=79 N3=96
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°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm		Luminous flux in lm/klm
0°	372.1	2.2	2.2
5°	370.3	17.7	19.9
10°	364.3	34.7	54.6
15°	354.3	50.3	104.9
20°	340.6	63.8	168.7
25°	323.6	75.0	243.7
30°	303.5	83.2	326.8
35°	281.0	88.3	415.2
40°	256.7	90.4	505.6
45°	230.6	89.4	595.0
50°	203.7	85.5	680.5
55°	176.4	79.2	759.7
60°	148.2	70.4	830.1
65°	119.6	59.4	889.5
70°	91.1	46.9	936.5
75°	63.8	33.8	970.3
80°	38.4	20.7	991.0
85°	16.5	9.0	1000.0
90°	0.0	0.0	1000.0
95°	0.0	0.0	1000.0
100°	0.0	0.0	1000.0
105°	0.0	0.0	1000.0
110°	0.0	0.0	1000.0
115°	0.0	0.0	1000.0
120°	0.0	0.0	1000.0
125°	0.0	0.0	1000.0
130°	0.0	0.0	1000.0
135°	0.0	0.0	1000.0
140°	0.0	0.0	1000.0
145°	0.0	0.0	1000.0
150°	0.0	0.0	1000.0
155°	0.0	0.0	1000.0
160°	0.0	0.0	1000.0
165°	0.0	0.0	1000.0
170°	0.0	0.0	1000.0
175°	0.0	0.0	1000.0
180°	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	18.4	20.1	18.7	20.4	20.7	18.4	20.1	18.7	20.4	20.7
	3H	20.0	21.5	20.3	21.8	22.2	20.0	21.5	20.3	21.8	22.2
	4H	20.6	22.0	21.0	22.4	22.7	20.6	22.0	21.0	22.4	22.7
	6H	21.1	22.4	21.5	22.8	23.1	21.1	22.4	21.5	22.8	23.1
	8H	21.3	22.5	21.7	22.9	23.3	21.3	22.5	21.7	22.9	23.3
	12H	21.4	22.5	21.8	22.9	23.3	21.4	22.5	21.8	22.9	23.3
4H	2H	19.1	20.6	19.5	20.9	21.3	19.1	20.6	19.5	20.9	21.3
	3H	20.9	22.1	21.3	22.5	22.9	20.9	22.1	21.3	22.5	22.9
	4H	21.6	22.7	22.1	23.1	23.6	21.6	22.7	22.1	23.1	23.6
	6H	22.2	23.2	22.7	23.6	24.1	22.2	23.2	22.7	23.6	24.1
	8H	22.4	23.3	22.9	23.8	24.2	22.4	23.3	22.9	23.8	24.2
	12H	22.6	23.4	23.1	23.8	24.3	22.6	23.4	23.1	23.8	24.3
8H	4H	22.0	22.8	22.4	23.3	23.8	22.0	22.8	22.4	23.3	23.8
	6H	22.7	23.4	23.2	23.9	24.4	22.7	23.4	23.2	23.9	24.4
	8H	23.0	23.6	23.5	24.1	24.6	23.0	23.6	23.5	24.1	24.6
	12H	23.2	23.7	23.7	24.2	24.8	23.2	23.7	23.7	24.2	24.8
12H	4H	22.0	22.8	22.5	23.3	23.7	22.0	22.8	22.5	23.3	23.7
	6H	22.8	23.4	23.3	23.9	24.4	22.8	23.4	23.3	23.9	24.4
	8H	23.1	23.6	23.6	24.1	24.7	23.1	23.6	23.6	24.1	24.7

Luminance table		Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 586
C-planes	0°		
γ	Luminance in cd/m²		
45°	6117.2		
50°	5946.5		
55°	5769.9		
60°	5562.2		
65°	5309.9		
70°	4999.4		
75°	4626.8		
80°	4152.7		
85°	3547.3		

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Luminance values in cd/m²

γ 65°

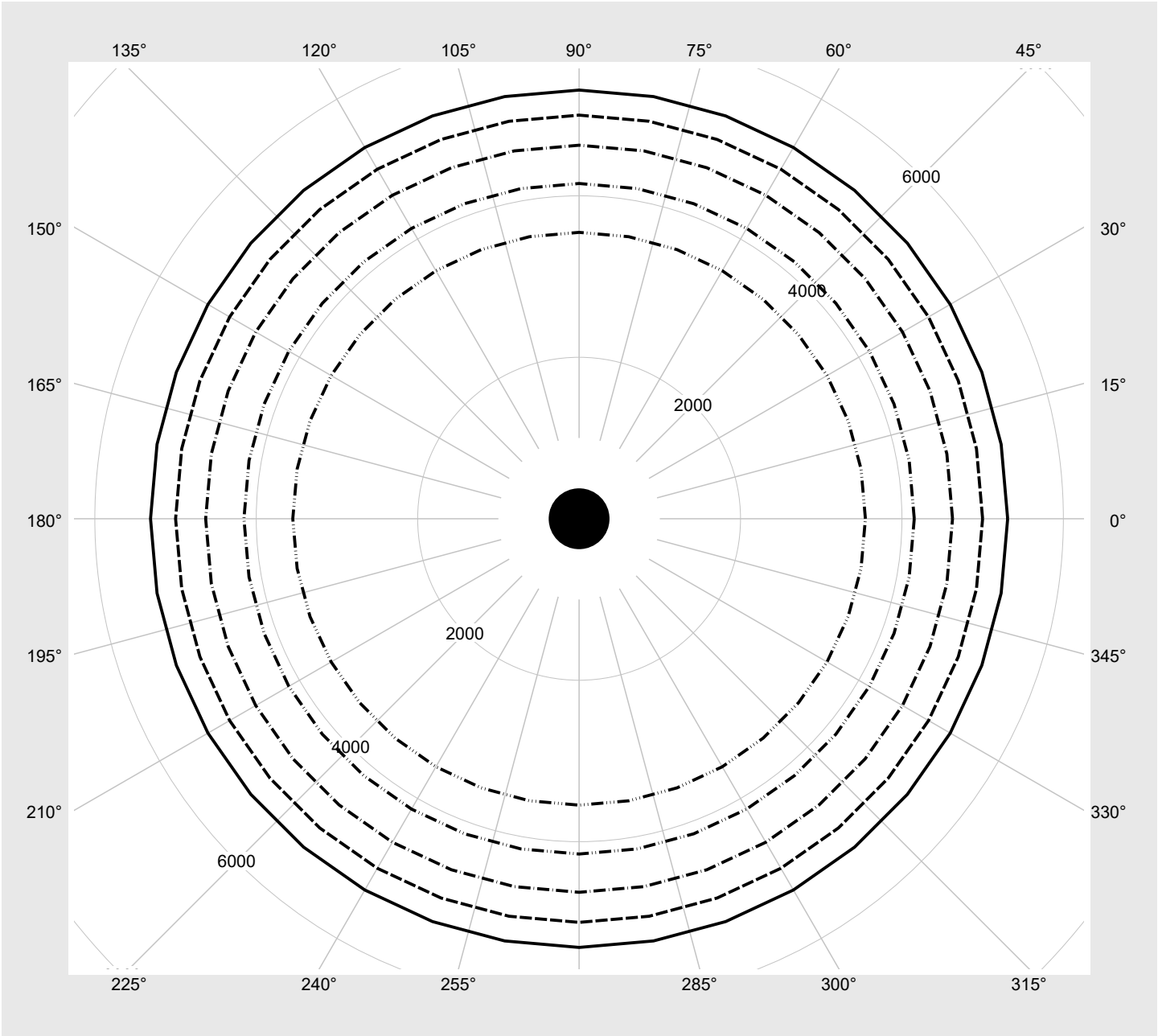
γ 70°

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	5060	34.8
95	241	252	4804	33.0
90	228	250	4547	31.3
85	216	248	4310	29.7
80	203	246	4052	28.0
75	190	243	3793	26.4
70	177	241	3534	24.6
65	165	238	3294	23.0
60	152	235	3034	21.3
55	139	232	2773	19.7
50	127	229	2532	18.1
45	114	225	2270	16.4
40	102	221	2027	14.8
35	89	216	1764	13.3
30	77	210	1521	11.8
25	64	204	1257	10.2
20	52	196	1013	8.7
15	40	186	769	6.8
10	27	172	504	4.9
5	15	150	259	3.4
1	6	117	75	2.2