

Photometric test report

Family
Silica® 21 round M

Order number: 51ME33DB4MBA
EAN: 4069025802972

LP number
60081_3

serial
documentation
20.05.2026



Version Suspended luminaire, housing, black, microprismatic optics, direct-/ indirect distribution, wide distribution, UGR≤19

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG-DALI

Rated values Net luminous flux = 8230 lm
Power consumption = 52.4 W
Luminous efficacy = 157.1 lm/W

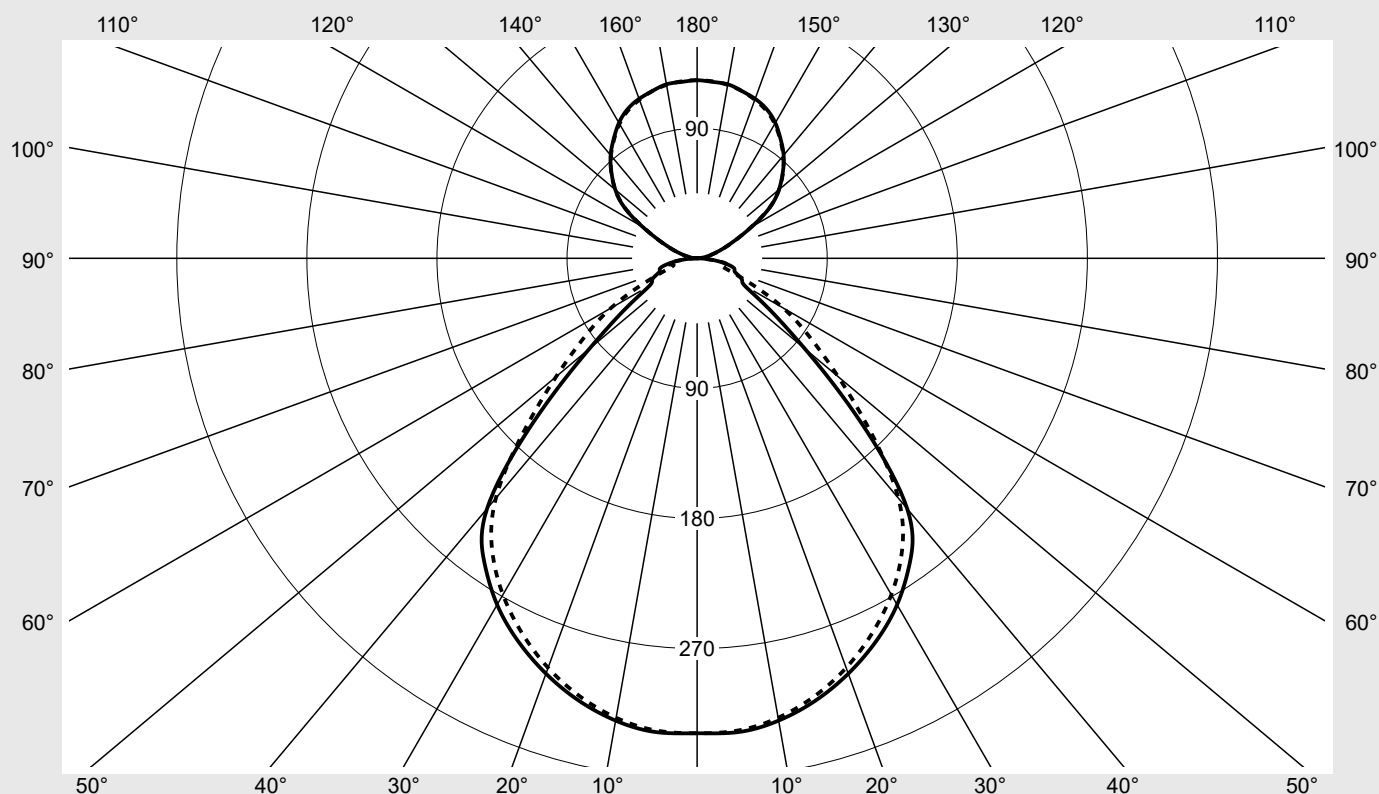
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 329 cd/klm



Classifications

DIN 5040 B 5 3
CIE N1=64 N2=89 N3=97
N4=68 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 67.6%
 ϕ_o 32.4%

Measurement conditions

DIN EN 13032 and DIN 5032

Photometric test report

Family Silica® 21 round M	Order number: 51ME33DB4MBA EAN: 4069025802972	LP number 60081_3
Table of values for luminous intensities		Maximum luminous intensity
		siteco

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°	328.6	328.6	328.6	328.6	328.6	328.6	328.6	2.0	2.0
5°	329.0	327.3	325.4	326.6	328.1	327.9	327.9	15.6	17.6
10°	324.8	323.0	320.8	321.7	323.1	322.8	322.8	30.7	48.3
15°	316.7	315.0	312.7	313.2	314.2	313.8	313.7	44.5	92.8
20°	305.8	304.0	301.4	301.5	302.1	301.6	301.5	56.7	149.5
25°	292.6	290.5	287.3	287.1	287.8	286.9	286.3	66.8	216.3
30°	276.7	274.3	270.5	270.3	271.2	269.8	268.7	74.4	290.7
35°	256.7	254.3	249.7	250.0	250.6	249.2	247.1	78.9	369.6
40°	226.1	226.2	222.1	221.8	218.1	219.2	216.6	78.0	447.6
45°	159.9	170.2	172.6	169.3	154.5	169.0	169.8	64.6	512.2
50°	97.2	111.5	130.1	111.4	96.5	109.7	127.3	47.0	559.2
55°	59.9	68.4	96.9	68.1	59.3	66.6	95.3	32.7	591.9
60°	38.2	46.2	68.1	46.7	38.0	45.6	68.9	23.6	615.5
65°	34.0	39.5	42.1	40.5	34.9	40.5	39.8	19.4	634.9
70°	28.0	34.1	21.6	34.7	28.1	34.8	21.3	15.3	650.2
75°	26.4	23.8	18.9	24.3	26.8	24.1	17.3	12.3	662.5
80°	19.0	14.4	18.7	13.9	19.2	14.6	20.0	9.0	671.6
85°	8.9	8.3	7.0	8.3	8.8	8.5	7.0	4.4	676.0
90°	0.7	0.9	0.5	0.8	0.6	0.6	0.4	0.3	676.4
95°	2.8	2.7	2.7	2.7	2.7	2.7	2.7	1.5	677.8
100°	6.3	6.2	6.2	6.3	6.3	6.3	6.3	3.4	681.2
105°	11.1	11.0	11.2	11.3	11.4	11.3	11.4	5.9	687.2
110°	18.3	18.1	18.4	18.6	18.6	18.6	18.6	9.5	696.7
115°	28.2	28.2	28.4	28.5	28.7	28.8	28.7	14.2	710.8
120°	43.5	43.3	43.2	43.2	43.1	43.1	43.0	20.5	731.3
125°	61.5	61.3	61.3	61.2	61.6	61.6	61.2	27.6	758.9
130°	73.9	73.8	73.9	74.2	74.6	74.3	74.0	31.1	790.0
135°	83.8	83.8	84.1	84.6	84.6	84.2	84.0	32.6	822.7
140°	93.1	92.9	93.0	93.3	93.2	92.9	92.8	32.8	855.5
145°	100.7	100.8	101.0	100.9	100.6	100.5	100.2	31.7	887.1
150°	108.2	108.2	108.2	108.0	107.7	107.6	107.4	29.6	916.7
155°	113.8	113.5	113.3	113.0	112.9	112.9	112.9	26.2	942.9
160°	117.4	117.1	116.9	116.6	116.9	116.5	116.7	21.9	964.8
165°	119.8	119.8	119.8	119.9	119.8	119.5	119.8	17.0	981.8
170°	122.2	122.2	122.2	121.9	121.5	121.7	121.8	11.6	993.4
175°	122.5	122.5	122.6	122.7	122.8	122.9	122.9	5.9	999.3
180°	123.2	123.2	123.2	123.2	123.2	123.2	123.2	0.7	1000.0

Photometric test report

Family Silica® 21 round M			Order number: 51ME33DB4MBA EAN: 4069025802972							LP number 60081_3	
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	14.8	15.8	15.5	16.6	17.5	14.6	15.6	15.3	16.4	17.3
	3H	15.4	16.3	16.1	17.1	18.1	15.2	16.1	16.0	16.9	17.9
	4H	15.8	16.7	16.6	17.5	18.5	15.5	16.4	16.3	17.2	18.2
	6H	16.2	17.0	17.1	17.9	18.9	15.9	16.7	16.8	17.5	18.6
	8H	16.4	17.1	17.2	17.9	19.0	16.1	16.8	16.9	17.7	18.7
	12H	16.5	17.2	17.4	18.0	19.1	16.2	16.9	17.1	17.7	18.8
4H	2H	14.9	15.7	15.7	16.5	17.5	14.7	15.6	15.5	16.4	17.4
	3H	15.6	16.4	16.5	17.2	18.2	15.6	16.4	16.5	17.2	18.2
	4H	16.2	16.8	17.0	17.7	18.7	16.1	16.8	17.0	17.6	18.7
	6H	16.8	17.3	17.6	18.2	19.2	16.7	17.3	17.6	18.1	19.2
	8H	16.9	17.4	17.8	18.3	19.4	16.9	17.4	17.8	18.3	19.4
	12H	17.2	17.6	18.1	18.5	19.6	17.1	17.5	18.0	18.4	19.5
8H	4H	16.3	16.8	17.2	17.7	18.8	16.3	16.8	17.2	17.7	18.8
	6H	17.0	17.5	17.9	18.3	19.5	17.0	17.4	17.9	18.3	19.4
	8H	17.4	17.8	18.3	18.7	19.8	17.4	17.8	18.3	18.7	19.8
	12H	17.7	18.0	18.6	18.9	20.1	17.7	18.0	18.6	18.9	20.1
12H	4H	16.4	16.8	17.3	17.7	18.8	16.4	16.8	17.2	17.7	18.8
	6H	17.2	17.5	18.1	18.4	19.5	17.1	17.5	18.0	18.4	19.5
	8H	17.5	17.8	18.4	18.8	19.9	17.6	17.9	18.5	18.8	19.9

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°	6900.2	7344.0	7449.9	7306.7	6668.2	7292.4	7326.8
50°	4612.3	5291.4	6178.0	5288.3	4581.7	5207.5	6044.2
55°	3185.9	3639.7	5157.8	3623.8	3156.6	3545.0	5072.2
60°	2328.3	2820.8	4153.2	2851.8	2321.2	2783.8	4202.1
65°	2458.4	2854.0	3040.8	2924.2	2519.8	2925.4	2876.7
70°	2493.8	3040.2	1925.9	3097.0	2507.7	3102.9	1902.4
75°	3114.8	2802.3	2224.2	2863.4	3159.8	2841.9	2039.2
80°	3332.0	2522.9	3292.5	2450.2	3370.5	2571.4	3512.7
85°	3098.9	2897.6	2446.3	2907.4	3081.8	2968.7	2459.6

Photometric test report

Family
Silica® 21 round M

Order number: 51ME33DB4MBA
EAN: 4069025802972

LP number
60081_3

Luminance values in cd/m²

γ 65°

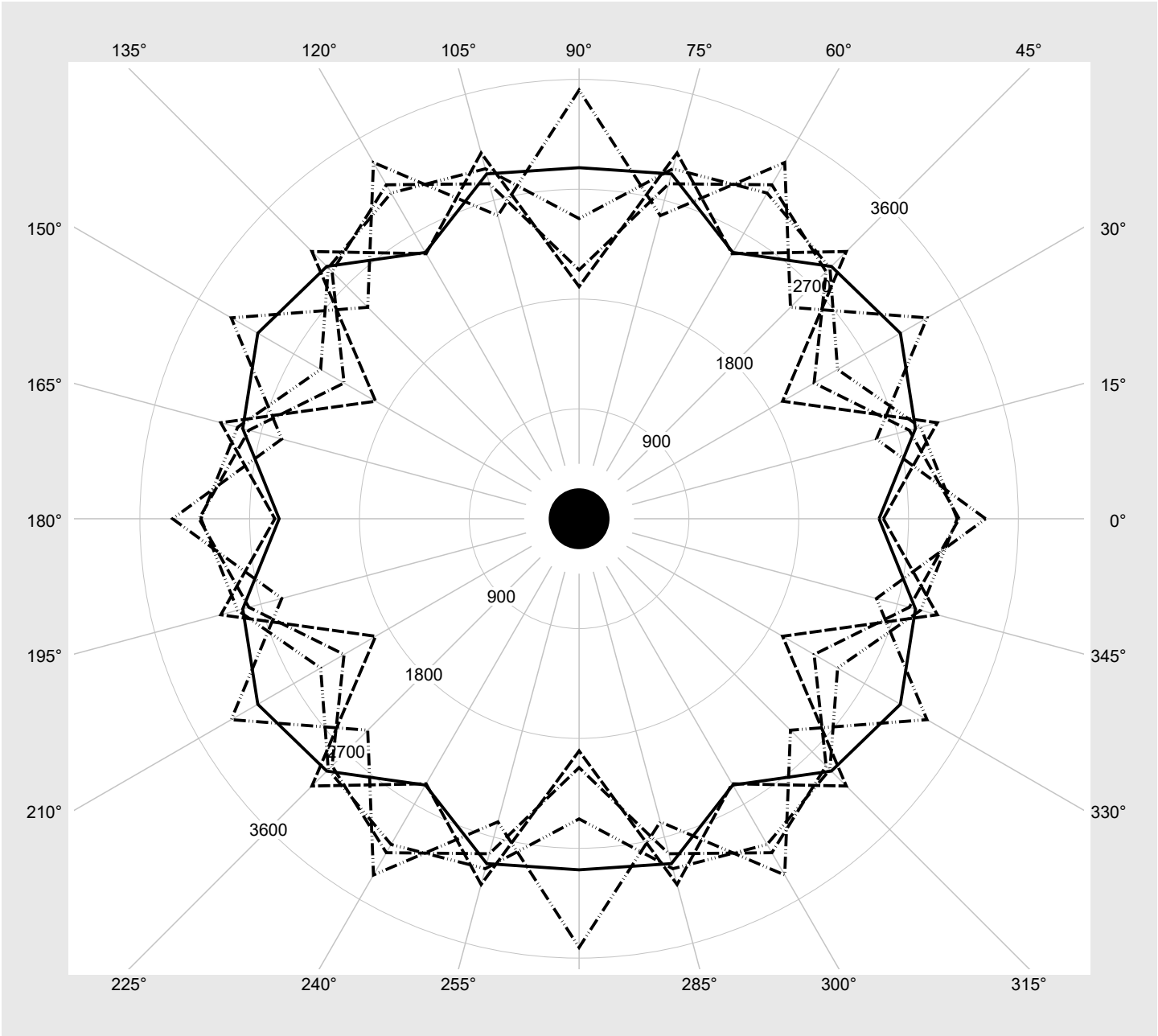
γ 70°

γ 75°

γ 80°

γ 85°

siteco



Photometric test report

Family Silica® 21 round M	Order number: 51ME33DB4MBA EAN: 4069025802972	LP number 60081_3
Dimming levels table environmental temperature: 25°C		

Luminous flux [%]	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	8230	52.4
95	241	252	7813	49.8
90	228	250	7396	47.1
85	216	248	7009	44.6
80	203	246	6589	42.0
75	190	243	6170	39.4
70	177	241	5749	37.0
65	165	238	5360	34.7
60	152	235	4936	32.1
55	139	232	4513	29.5
50	127	229	4120	27.1
45	114	225	3695	24.4
40	102	221	3301	22.0
35	89	216	2873	19.4
30	77	210	2478	16.9
25	64	204	2049	14.3
20	52	196	1653	12.0
15	39	185	1222	9.4
10	27	172	824	6.5
5	15	150	425	3.3
2	6	117	125	0.9