

Photometric test report

Family
Silica® 21 Floor

Order number: 51MX53DA3ZM00992XX
EAN: 4069025333797

LP number
59771_3

serial
documentation
10.04.2025



Version floorstanding upright, with homogeneous illumination, prismatic cover, indirect-/ direct distribution, extremely wide distribution, with presence- and daylightsensor

Lamps LED 3000 K | CRI ≥ 80

Controlgear ECG-DALI

Setting factory setting: direct and indirect light

Rated values Net luminous flux = 13280 lm
Power consumption = 89.8 W
Luminous efficacy = 147.9 lm/W

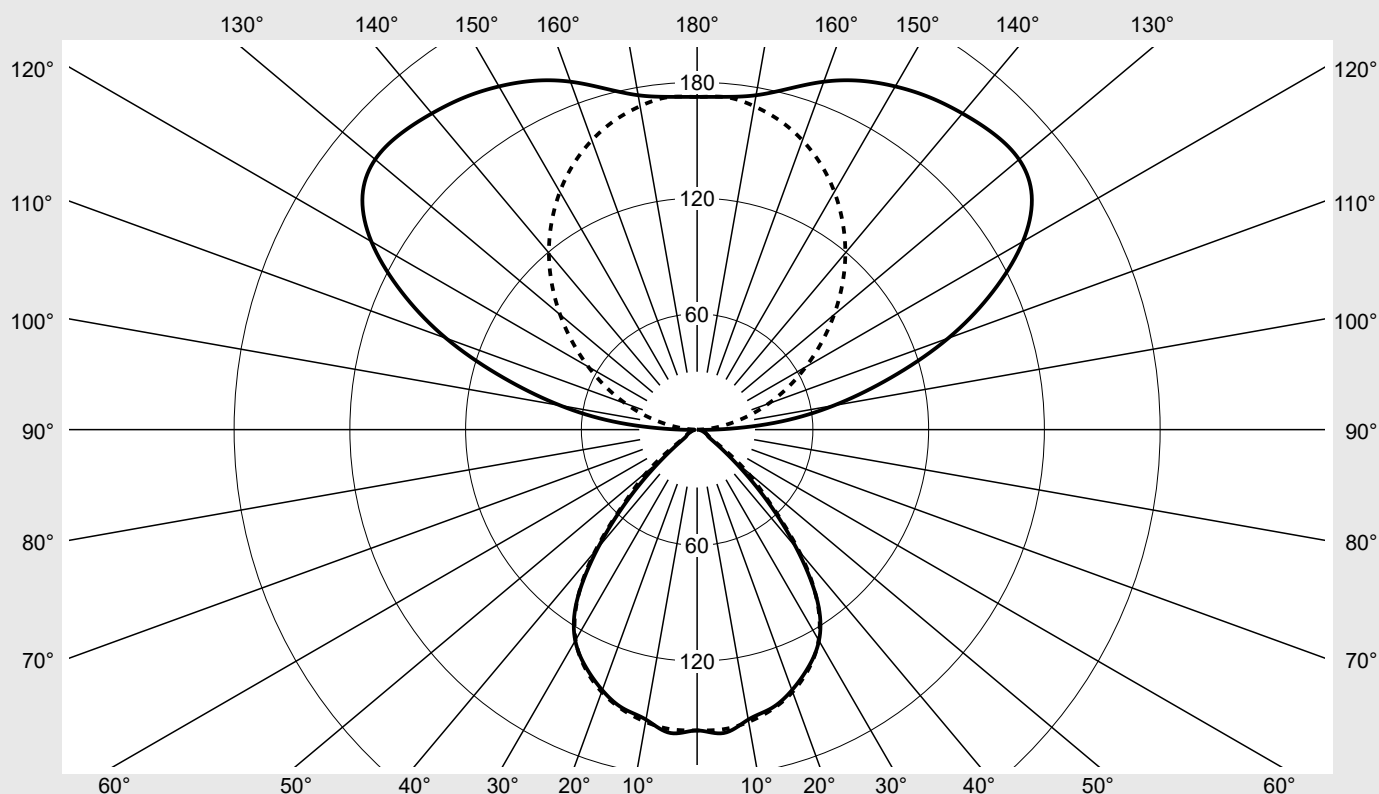
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Luminous intensity in cd/klm

C180-0

C270-90

Imax: 218 cd/klm



Classifications

DIN 5040 D 6 2
CIE N1=78 N2=95 N3=98
N4=25 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 24.9%
 ϕ_o 75.1%

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°	155.9	155.9	155.9	155.9	155.9	155.9	155.9	0.9	0.9
5°	157.9	157.3	157.1	158.3	158.6	156.8	155.9	7.5	8.5
10°	152.6	152.1	151.2	152.4	154.3	155.5	153.8	14.6	23.0
15°	149.4	149.0	147.6	147.5	148.6	150.2	150.2	21.1	44.1
20°	143.7	143.6	142.2	142.2	142.3	143.2	144.7	26.8	70.9
25°	136.1	136.2	135.0	134.8	134.9	135.1	136.8	31.4	102.3
30°	126.3	126.5	125.1	125.2	125.1	125.0	126.0	34.4	136.7
35°	108.8	108.9	108.0	108.4	109.0	108.3	108.5	34.1	170.8
40°	79.9	80.2	80.6	81.4	82.2	82.2	82.3	28.6	199.5
45°	49.0	49.2	49.6	50.3	51.0	51.7	52.4	19.5	219.0
50°	23.2	26.8	30.1	27.5	24.8	29.5	33.0	11.7	230.7
55°	9.3	12.6	11.9	13.6	10.2	14.2	13.2	5.5	236.2
60°	6.3	6.6	7.0	6.5	6.4	6.9	7.2	3.2	239.4
65°	5.2	5.1	5.4	5.2	5.5	5.4	5.5	2.6	242.0
70°	3.8	3.8	4.0	4.0	4.0	4.1	4.3	2.1	244.1
75°	2.6	2.7	3.0	2.9	2.9	3.1	3.1	1.5	245.6
80°	1.6	1.7	1.9	2.0	1.9	2.1	2.1	1.0	246.6
85°	1.3	1.3	1.3	1.4	1.4	1.5	1.6	0.8	247.4
90°	8.7	8.4	8.9	8.8	5.2	1.8	0.7	3.4	250.8
95°	40.2	41.1	44.2	41.8	26.8	13.7	7.1	17.4	268.2
100°	72.0	73.9	74.5	65.3	43.9	24.8	16.3	29.4	297.6
105°	103.9	105.7	103.3	88.3	60.3	37.4	27.5	40.7	338.3
110°	138.5	139.8	131.0	108.3	77.6	50.6	39.4	51.2	389.4
115°	169.1	167.9	155.1	127.3	94.2	64.0	52.1	59.5	449.0
120°	195.0	191.8	174.8	143.2	109.5	76.9	65.1	65.4	514.3
125°	211.7	207.1	187.3	156.2	122.0	89.4	78.7	67.9	582.2
130°	217.8	213.1	193.0	165.0	132.0	101.6	92.7	67.2	649.4
135°	217.1	213.1	195.3	171.0	140.7	113.4	106.4	64.3	713.7
140°	213.9	211.1	196.2	174.6	147.7	124.7	119.5	60.0	773.7
145°	210.2	208.2	195.6	176.6	153.2	135.3	131.4	54.5	828.2
150°	205.4	204.0	193.1	177.1	157.9	144.9	142.3	48.0	876.2
155°	199.5	198.5	189.0	176.0	161.9	153.4	151.8	40.7	916.9
160°	191.9	191.2	183.4	174.0	165.2	160.4	159.6	32.8	949.7
165°	182.9	182.8	177.5	172.4	168.2	166.0	165.8	24.6	974.3
170°	176.0	176.6	173.6	171.9	170.5	170.0	170.2	16.4	990.7
175°	173.1	173.9	172.1	172.0	172.0	172.3	173.0	8.2	999.0
180°	172.5	172.5	172.5	172.5	172.5	172.5	172.5	1.0	1000.0

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UGR-Table	Standard room	siteco

The UGR formula for this luminaire type cannot be used, see LiTG Publication 20:
"The UGR - Process for Evaluation of Direct Glare of Artificial Lighting in Indoor Rooms"

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1200 B = 50
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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°
γ	Luminance in cd/m²						
45°	15340.1	15389.9	15519.8	15736.4	15950.8	16179.6	16399.4
50°	7987.2	9227.1	10379.6	9463.0	8526.7	10146.8	11363.0
55°	3594.1	4860.6	4596.3	5240.7	3953.0	5477.6	5094.4
60°	2787.0	2901.7	3078.7	2859.6	2851.7	3042.9	3169.1
65°	2712.9	2695.6	2807.7	2729.6	2858.5	2844.8	2884.6
70°	2429.3	2480.5	2582.1	2570.4	2617.0	2648.1	2782.7
75°	2234.5	2315.8	2549.3	2438.9	2493.7	2615.1	2620.2
80°	2011.3	2136.2	2359.3	2565.8	2374.6	2655.0	2661.4
85°	3293.8	3265.8	3283.6	3496.9	3517.2	3811.8	3936.2

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Luminance values in cd/m²

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

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