

Photometric test report

Family
Silica® 21 Floor



Order number: 51MX56DA4ZM00880XX
EAN: 4069025333896

Version

Lamps

Controlgear

Setting

Rated values

floorstanding uplight, reflector, white, indirect-/direct distribution, wide distribution, with presence- and daylightsensor

LED 4000 K | CRI ≥ 80

ECG-DALI

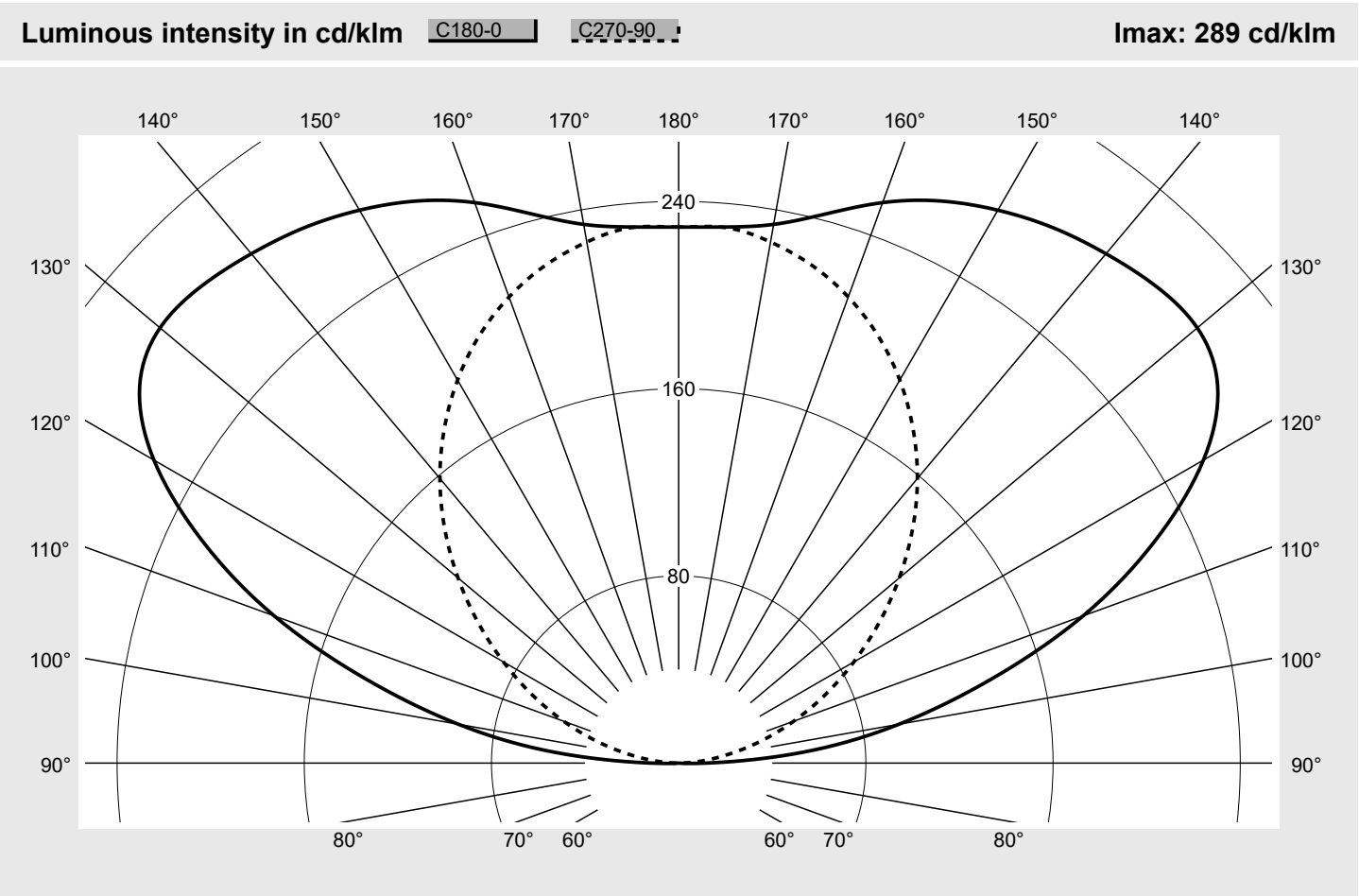
individual position: only indirect light

Net luminous flux = 10000 lm
Power consumption = 60.5 W
Luminous efficacy = 165.3 lm/W

LP number
59648_3

serial
documentation
09.04.2025

siteco



Classifications		Luminaire light output ratios	
DIN 5040	E 1 2	η_{LB}	100.0%
CIE	N1=0 N2=0 N3=0	ϕ_u	0.3%
	N4=0 N5=100	ϕ_o	99.7%

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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.9	0.9	0.9	0.8	0.7	0.7	0.7	0.4	0.4
90°	11.5	11.2	11.8	11.6	6.9	2.4	0.9	4.6	5.0
95°	53.3	54.6	58.7	55.5	35.6	18.2	9.4	23.1	28.1
100°	95.6	98.1	99.0	86.8	58.3	33.0	21.6	39.0	67.1
105°	138.1	140.4	137.2	117.3	80.1	49.7	36.5	54.0	121.1
110°	184.0	185.7	173.9	143.9	103.1	67.2	52.3	68.0	189.1
115°	224.6	223.0	205.9	169.1	125.1	85.0	69.1	79.1	268.2
120°	259.0	254.8	232.1	190.2	145.4	102.1	86.4	86.8	355.0
125°	281.2	275.1	248.8	207.4	162.0	118.7	104.6	90.2	445.2
130°	289.3	283.0	256.4	219.1	175.3	134.9	123.1	89.2	534.4
135°	288.3	283.0	259.3	227.1	186.9	150.6	141.4	85.4	619.8
140°	284.1	280.3	260.5	231.9	196.2	165.7	158.7	79.6	699.4
145°	279.2	276.5	259.8	234.5	203.5	179.7	174.6	72.4	771.8
150°	272.8	270.9	256.5	235.2	209.8	192.5	189.0	63.8	835.5
155°	265.0	263.6	251.0	233.7	215.0	203.7	201.5	54.1	889.6
160°	254.9	254.0	243.6	231.0	219.4	213.1	211.9	43.6	933.2
165°	242.9	242.8	235.7	229.0	223.3	220.4	220.2	32.7	965.9
170°	233.7	234.5	230.6	228.3	226.5	225.7	226.1	21.8	987.7
175°	229.9	230.9	228.6	228.5	228.4	228.9	229.7	10.9	998.6
180°	229.0	229.0	229.0	229.0	229.0	229.0	229.0	1.4	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 = 1176 B = 49
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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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1847.8	1794.0	1704.4	1545.1	1403.7	1314.1	1314.1

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Luminance values in cd/m²

γ 65°

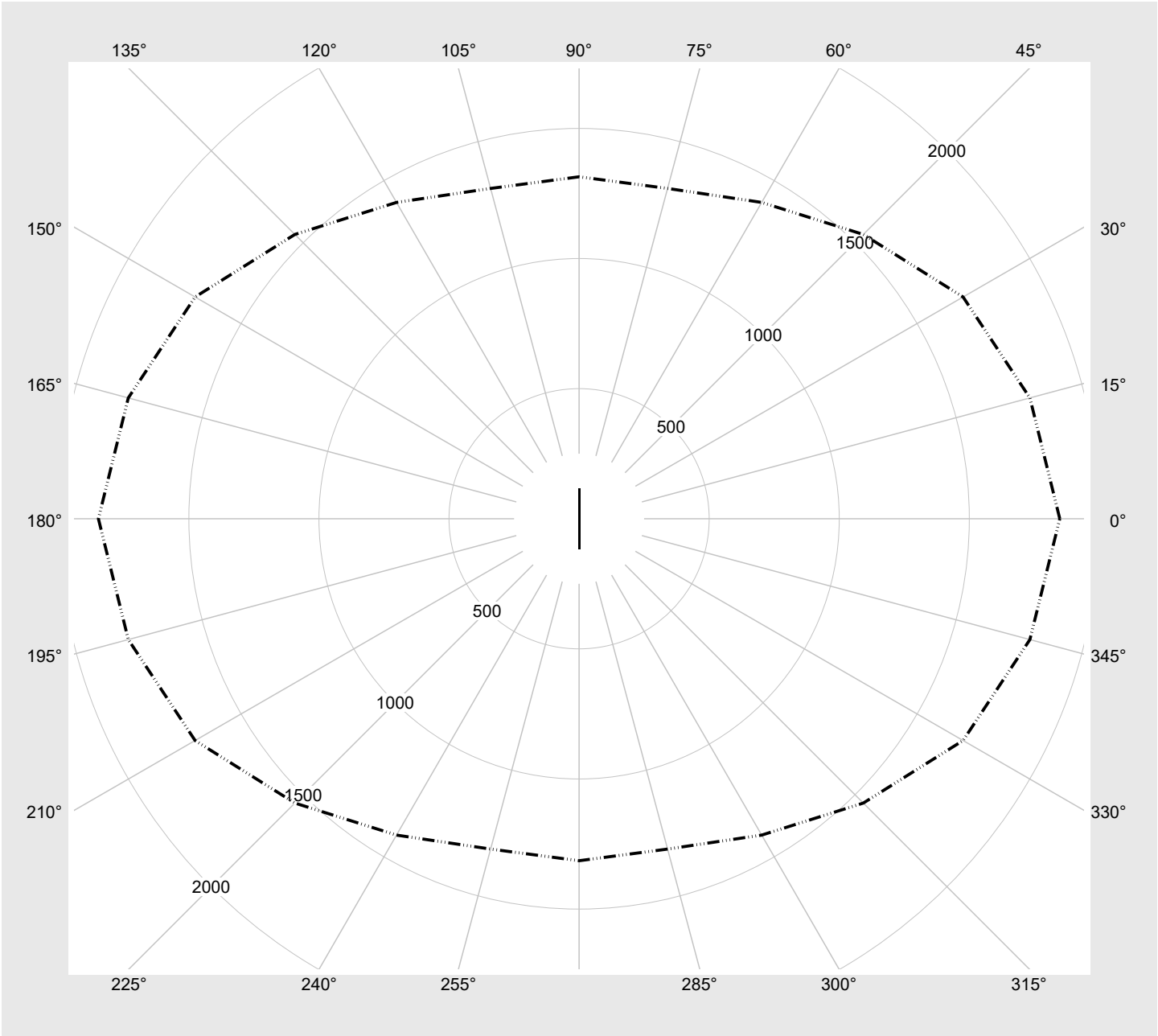
γ 70°

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	10000	60.5
95	240	252	9484	57.1
90	227	250	9002	54.0
85	214	248	8516	50.9
80	200	245	7990	47.8
75	187	243	7495	44.6
70	174	240	6997	41.7
65	161	237	6497	38.7
60	148	234	5990	35.6
55	135	231	5481	32.6
50	123	227	5008	29.9
45	110	223	4490	26.9
40	98	219	4009	24.2
35	85	214	3486	21.3
30	73	208	3000	18.6
25	61	202	2509	15.9
20	49	194	2018	13.5
15	36	182	1482	10.7
10	24	168	985	8.0
5	12	142	484	5.1
2	5	110	191	3.4