

Photometric test report

Family
Silica® 21



Order number: 51MX32DA47WB
EAN: 4058352884706

LP number
59279_99

serial
documentation
02.08.2023

Version Suspended luminaire, reflector, black, direct-/indirect distribution, wide distribution, $UGR \leq 16$ ($L65 \leq 1000 \text{ cd/m}^2$)

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG-DALI

Rated values Net luminous flux = 7290 lm
Power consumption = 43.8 W
Luminous efficacy = 166.4 lm/W

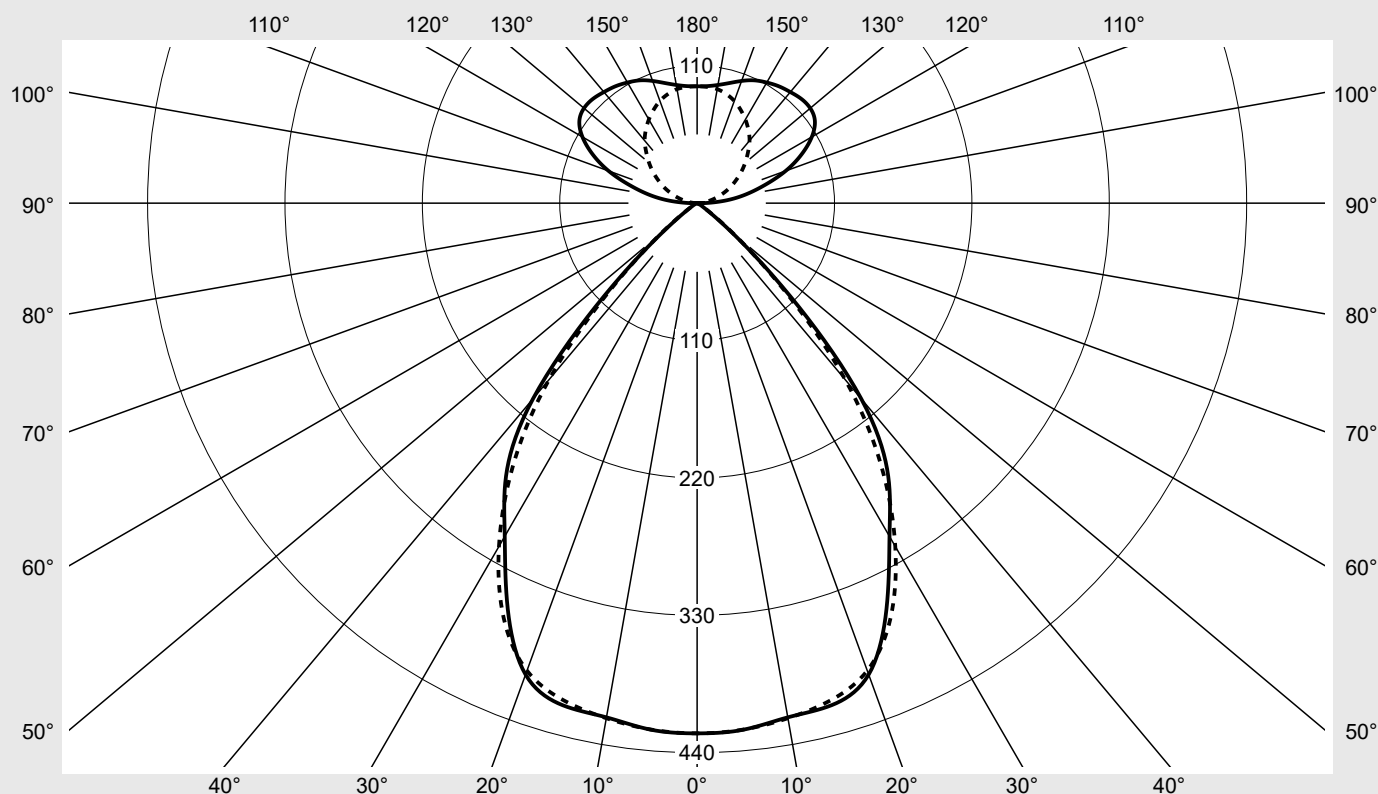
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Luminous intensity in cd/klm

C180-0

C270-90

Imax: 425 cd/klm



Classifications

DIN 5040 C 6 2
CIE N1=86 N2=99 N3=100
N4=59 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 59.2%
 ϕ_o 40.8%

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°	424.5	424.5	424.5	424.5	424.5	424.5	424.5	2.5	2.5
5°	423.2	423.7	423.1	423.1	423.3	423.7	423.1	20.2	22.8
10°	418.0	417.2	417.3	418.4	419.3	417.7	418.7	39.8	62.6
15°	416.1	416.5	413.5	413.8	413.5	412.7	412.2	58.7	121.3
20°	401.6	404.7	402.8	404.0	399.5	397.4	398.3	75.3	196.5
25°	358.7	364.9	370.6	376.3	375.4	369.4	366.5	85.7	282.2
30°	308.1	312.2	314.3	321.5	326.7	320.5	317.3	87.1	369.4
35°	266.7	269.2	262.0	257.7	262.2	261.4	257.3	82.5	451.9
40°	204.3	207.3	203.4	196.7	194.2	189.2	184.5	69.6	521.5
45°	105.6	109.2	112.9	113.5	110.1	103.6	98.8	42.1	563.6
50°	35.1	38.0	43.5	46.6	44.5	40.2	37.5	17.4	581.0
55°	9.3	10.9	14.6	18.5	15.5	12.0	10.3	6.1	587.1
60°	3.6	4.0	5.4	7.2	5.8	4.5	4.1	2.4	589.5
65°	1.2	1.4	2.0	2.5	2.2	1.8	1.6	0.9	590.5
70°	0.8	0.8	0.6	0.6	0.7	0.9	0.9	0.4	590.8
75°	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.1	591.0
80°	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	591.0
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2	591.2
90°	4.7	4.5	4.8	4.8	2.8	1.0	0.4	1.9	593.1
95°	21.9	22.4	24.0	22.7	14.5	7.5	3.9	9.5	602.5
100°	39.1	40.2	40.5	35.5	23.8	13.4	8.9	16.0	618.5
105°	56.1	57.3	56.2	48.0	32.8	20.3	14.9	22.1	640.6
110°	75.4	75.7	70.9	59.1	42.1	27.5	21.3	27.8	668.4
115°	92.2	91.4	84.2	69.3	51.0	34.7	28.4	32.4	700.7
120°	106.0	104.3	95.1	77.6	59.4	41.8	35.4	35.5	736.3
125°	115.1	111.9	101.7	85.2	66.4	48.4	42.8	36.9	773.1
130°	118.2	115.6	104.8	89.7	71.8	55.3	50.2	36.5	809.6
135°	118.0	115.6	106.0	92.7	76.1	61.7	57.6	34.9	844.5
140°	116.1	114.4	106.3	94.9	79.7	67.7	65.3	32.5	877.0
145°	114.2	113.0	106.3	96.1	83.1	73.4	71.6	29.6	906.6
150°	111.5	111.1	105.1	96.0	85.8	78.8	77.3	26.1	932.7
155°	108.5	108.2	102.4	95.6	87.9	83.6	82.4	22.1	954.8
160°	104.1	103.9	99.3	94.8	89.7	87.3	87.1	17.8	972.6
165°	99.5	99.0	96.7	93.7	91.6	90.3	90.4	13.4	986.0
170°	96.1	95.6	95.0	93.7	92.8	92.7	92.7	9.0	995.0
175°	94.1	94.0	93.5	93.3	93.3	93.4	93.4	4.5	999.4
180°	93.6	93.6	93.6	93.6	93.6	93.6	93.6	0.6	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	16.3	17.1	17.1	18.0	19.0	16.1	17.0	16.9	17.8
	3H	16.0	16.7	16.9	17.6	18.7	15.8	16.6	16.7	17.5
	4H	15.8	16.5	16.7	17.4	18.5	15.7	16.4	16.6	17.3
	6H	15.7	16.3	16.6	17.2	18.3	15.5	16.2	16.5	17.1
	8H	15.6	16.1	16.5	17.1	18.2	15.4	15.9	16.3	16.9
	12H	15.5	16.0	16.4	16.9	18.1	15.3	15.9	16.3	16.8
4H	2H	15.9	16.6	16.8	17.5	18.6	15.7	16.4	16.6	17.3
	3H	15.6	16.2	16.5	17.1	18.3	15.4	16.0	16.3	16.9
	4H	15.5	16.0	16.4	16.9	18.1	15.3	15.8	16.2	16.7
	6H	15.3	15.7	16.2	16.7	17.9	15.1	15.6	16.1	16.5
	8H	15.2	15.6	16.2	16.5	17.8	15.0	15.4	16.0	16.4
	12H	15.1	15.4	16.1	16.4	17.6	14.9	15.3	15.9	16.2
8H	4H	15.2	15.6	16.2	16.6	17.8	15.0	15.4	16.0	16.4
	6H	15.1	15.4	16.1	16.4	17.6	14.9	15.2	15.8	16.1
	8H	15.0	15.3	16.0	16.3	17.5	14.8	15.1	15.8	16.1
	12H	14.9	15.1	15.9	16.1	17.4	14.7	15.0	15.7	15.9
12H	4H	15.1	15.5	16.1	16.4	17.7	14.9	15.3	15.9	16.2
	6H	15.0	15.3	16.0	16.2	17.5	14.8	15.1	15.8	16.0
	8H	14.9	15.1	15.9	16.1	17.4	14.7	14.9	15.7	15.9

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 1176 B = 49	
C-planes	γ	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°
			Luminance in cd/m²				
45° 50° 55° 60°	γ	18899.4	19534.5	20198.6	20312.6	19701.6	18543.1
		6913.1	7477.4	8559.5	9162.5	8756.1	7918.2
		2044.6	2413.0	3214.9	4080.4	3424.2	2637.1
		914.4	1019.2	1361.5	1812.4	1471.3	1147.7
65° 70° 75° 80°	γ	372.7	428.1	593.0	752.9	667.8	528.3
		296.3	308.9	228.2	214.9	258.6	332.5
		82.1	110.0	89.4	125.1	114.9	137.8
		21.1	21.1	30.6	45.9	61.9	71.4
85°	γ	571.9	571.9	555.9	542.9	535.6	534.2

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Luminance values in cd/m²

γ 65°

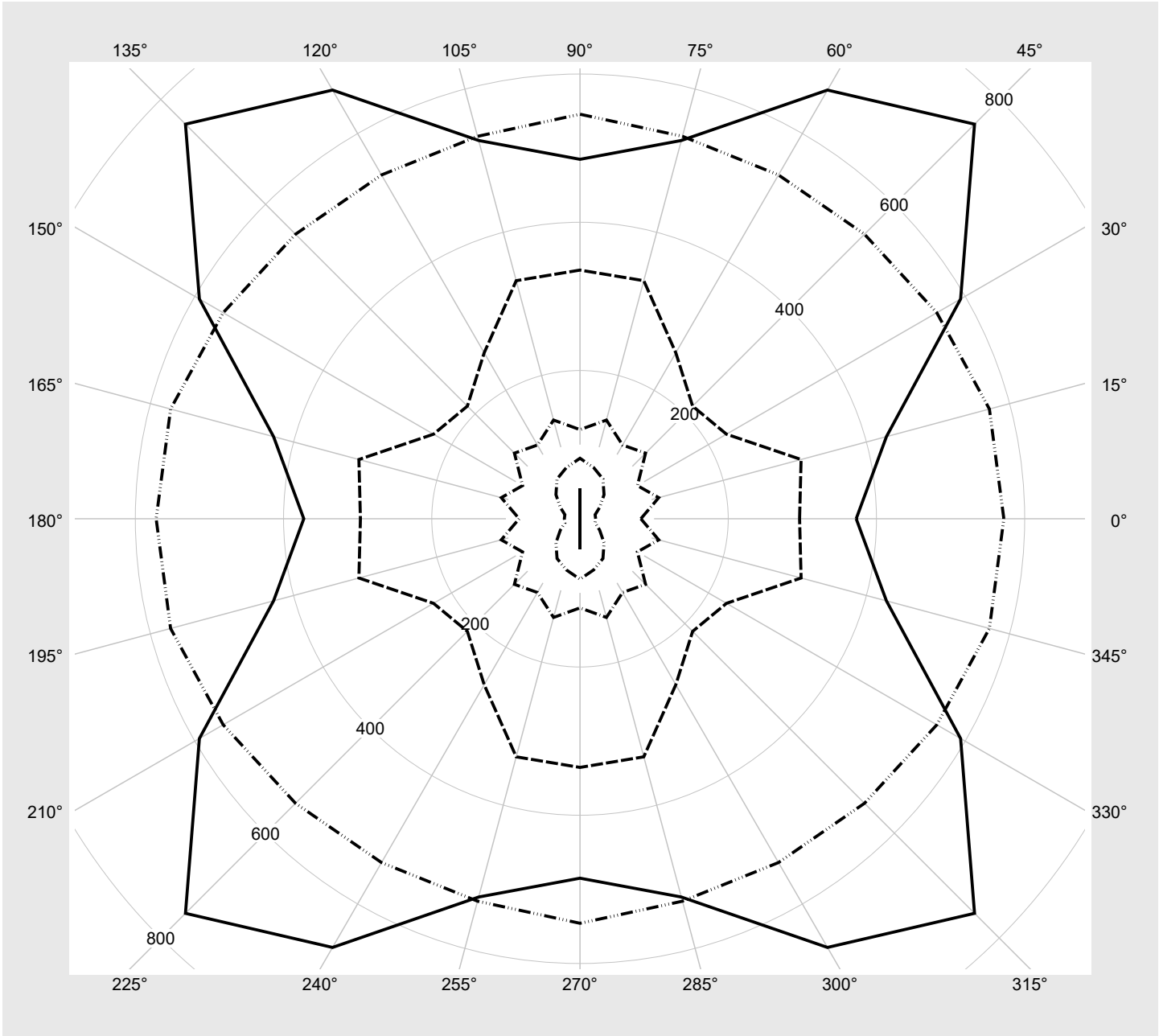
γ 70°

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	7290	43.8
95	241	252	6937	41.6
90	227	250	6554	39.2
85	214	248	6196	37.0
80	201	245	5834	34.8
75	188	243	5471	32.6
70	175	240	5106	30.5
65	162	238	4739	28.4
60	149	234	4370	26.1
55	136	231	3997	24.0
50	124	228	3653	22.0
45	111	224	3276	19.9
40	99	219	2928	17.9
35	86	214	2548	15.8
30	74	209	2195	13.9
25	61	202	1809	11.7
20	49	194	1453	9.7
15	37	183	1096	7.7
10	25	169	737	5.8
5	13	145	377	4.0
2	6	117	165	3.4