

Photometric test report

Family
Silica® 21

Order number: 51MX32TCTDW
EAN: 4058352795163

LP number
59308_47



Version Suspended luminaire, reflector, black, direct-/indirect distribution, wide distribution, UGR≤16 (L65≤1000cd/m²), tunable white

Lamps LED 2700 K | CRI ≥ 80

Controlgear ECG-DALI

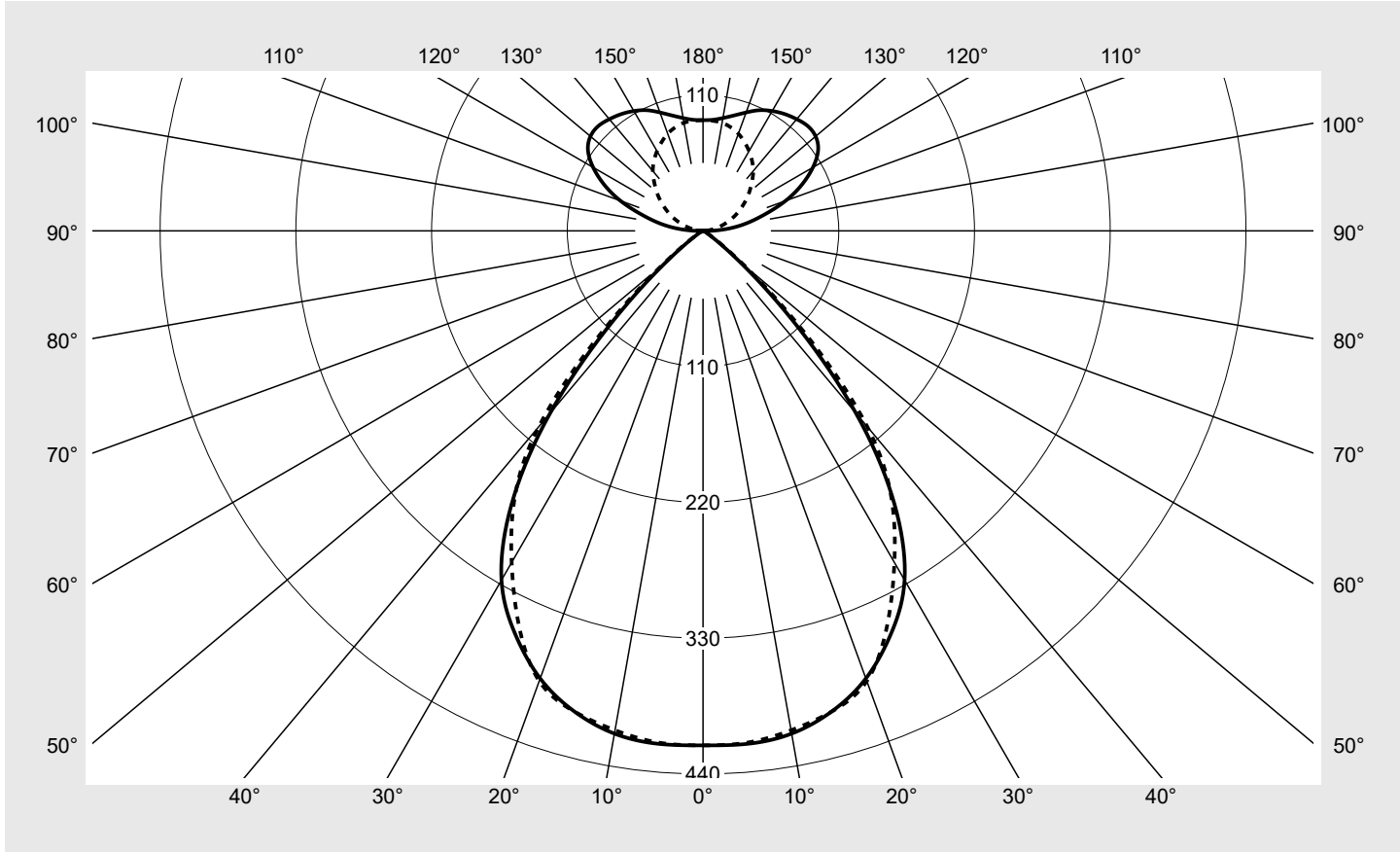
Setting individual position

Rated values Net luminous flux = 15540 lm
Power consumption = 151.4 W
Luminous efficacy = 102.6 lm/W

serial documentation
03.05.2023



Luminous intensity in cd/klm C180-0 C270-90 **Imax: 417 cd/klm**




Classifications	
DIN 5040	C 6 2
CIE	N1=84 N2=99 N3=100 N4=60 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	59.8%
ϕ_o	40.2%

Measurement conditions
DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		
Maximum luminous intensity		

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°	90° 270°	Phi-zone	Total Phi-zone
		Luminous intensity in cd/klm							
0°	416.8	416.8	416.8	416.8	416.8	416.8	416.8	2.5	2.5
5°	417.1	417.5	416.5	416.2	416.3	416.7	416.1	19.9	22.4
10°	413.6	412.9	413.2	414.2	413.9	410.5	410.8	39.3	61.7
15°	403.1	404.2	404.4	407.9	407.9	405.2	403.1	57.5	119.2
20°	385.9	389.4	389.1	391.3	390.8	389.3	388.1	73.0	192.2
25°	360.3	366.3	366.3	363.6	359.7	355.9	353.0	83.7	276.0
30°	326.7	332.1	328.6	321.6	313.5	309.5	310.2	87.9	363.8
35°	270.7	274.1	269.6	265.1	262.0	263.6	266.8	84.0	447.8
40°	192.8	195.2	197.3	201.1	204.8	204.8	207.1	70.6	518.5
45°	103.1	111.4	121.6	126.0	125.3	116.8	115.4	45.9	564.4
50°	37.9	43.7	52.7	56.6	56.5	46.6	44.0	20.8	585.2
55°	10.5	13.2	18.0	22.2	19.8	14.1	12.7	7.4	592.6
60°	3.5	4.2	6.4	8.4	6.8	5.0	4.9	2.8	595.3
65°	1.3	1.5	2.2	2.9	2.5	2.0	1.9	1.0	596.4
70°	0.8	0.9	0.7	0.6	0.8	1.0	1.0	0.4	596.8
75°	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.1	596.9
80°	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	597.0
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2	597.2
90°	5.7	5.5	5.8	5.6	3.2	1.1	0.4	2.2	599.4
95°	20.6	21.0	22.7	21.8	14.4	7.5	3.9	9.1	608.5
100°	36.2	37.3	38.1	34.2	23.6	13.5	8.9	15.2	623.7
105°	52.0	53.4	53.2	46.8	32.5	20.4	14.9	21.2	644.8
110°	71.2	71.9	68.5	57.9	41.7	27.4	21.2	26.9	671.7
115°	88.3	87.9	82.0	68.2	50.5	34.5	28.1	31.6	703.3
120°	102.8	101.5	93.6	76.8	59.0	41.5	34.8	34.9	738.2
125°	113.9	111.0	101.5	85.1	66.4	48.1	41.9	36.7	774.9
130°	119.1	116.6	105.7	90.2	72.0	54.7	49.0	36.6	811.5
135°	120.1	117.6	107.4	93.4	76.1	60.8	56.0	35.1	846.6
140°	118.1	116.2	107.6	95.4	79.2	66.4	63.3	32.6	879.2
145°	115.5	114.2	107.0	95.9	82.0	71.6	69.2	29.5	908.7
150°	112.1	111.5	104.9	94.9	84.1	76.5	74.6	25.8	934.6
155°	107.8	107.3	101.1	93.7	85.6	80.9	79.4	21.7	956.3
160°	102.1	101.7	97.0	92.3	87.0	84.2	83.8	17.3	973.6
165°	96.8	96.2	93.8	90.6	88.4	86.9	86.8	12.9	986.6
170°	92.8	92.3	91.6	90.3	89.2	88.9	88.9	8.6	995.2
175°	90.3	90.2	89.7	89.5	89.5	89.5	89.5	4.3	999.5
180°	89.7	89.7	89.7	89.7	89.7	89.7	89.7	0.5	1000.0

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UGR-Table	Standard room	siteco
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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	15.9	16.8	16.8	17.6	18.7	16.0	16.9	16.9	17.7	18.8
	3H	15.7	16.4	16.5	17.3	18.4	15.8	16.6	16.6	17.4	18.5
	4H	15.5	16.2	16.4	17.1	18.2	15.6	16.4	16.5	17.2	18.3
	6H	15.3	15.9	16.2	16.8	18.0	15.5	16.1	16.4	17.0	18.1
	8H	15.2	15.8	16.2	16.7	17.9	15.3	15.9	16.2	16.8	18.0
	12H	15.1	15.6	16.1	16.6	17.7	15.3	15.8	16.2	16.7	17.9
4H	2H	15.6	16.3	16.4	17.1	18.2	15.6	16.3	16.5	17.2	18.3
	3H	15.3	15.9	16.2	16.8	17.9	15.4	16.0	16.3	16.9	18.0
	4H	15.1	15.7	16.1	16.6	17.7	15.2	15.8	16.2	16.7	17.8
	6H	15.0	15.4	15.9	16.3	17.5	15.1	15.5	16.0	16.4	17.6
	8H	14.9	15.3	15.8	16.2	17.4	15.0	15.4	15.9	16.3	17.5
	12H	14.8	15.1	15.7	16.1	17.3	14.9	15.2	15.9	16.2	17.4
8H	4H	14.9	15.3	15.8	16.2	17.4	15.0	15.4	15.9	16.3	17.5
	6H	14.8	15.1	15.7	16.0	17.3	14.8	15.1	15.8	16.1	17.3
	8H	14.7	15.0	15.6	15.9	17.2	14.8	15.1	15.7	16.0	17.3
	12H	14.6	14.8	15.6	15.8	17.0	14.7	14.9	15.7	15.9	17.1
12H	4H	14.8	15.1	15.8	16.1	17.3	14.9	15.2	15.8	16.2	17.4
	6H	14.6	14.9	15.6	15.9	17.1	14.7	15.0	15.7	16.0	17.2
	8H	14.6	14.8	15.6	15.8	17.0	14.7	14.9	15.7	15.9	17.1

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 2940 B = 49
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C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		15735.1	17001.5	18543.7	19222.8	19109.3	17818.7	17598.3	
50°		6360.3	7340.6	8839.2	9500.7	9489.1	7812.1	7387.2	
55°		1971.0	2491.3	3389.4	4176.6	3716.8	2655.3	2385.8	
60°		763.9	916.7	1371.0	1821.1	1475.7	1088.2	1052.2	
65°		325.7	384.7	556.4	734.9	641.7	499.8	485.0	
70°		256.4	273.1	207.5	204.1	246.6	318.2	326.4	
75°		75.9	100.9	84.2	117.5	109.2	128.4	116.3	
80°		21.1	24.8	35.4	46.0	60.3	70.8	73.9	
85°		475.3	479.0	480.2	460.4	446.8	459.2	466.6	

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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**

