

Photometric test report

Family
Silica® 21

Order number: 51MX31TCTDS
EAN: 4058352795873

LP number
59310_101



Version Suspended luminaire, reflector, black, direct-/indirect distribution, narrow distribution, UGR≤16 (L65≤3000cd/m²), tunable white

Lamps LED 2700 K | CRI ≥ 80

Controlgear ECG-DALI

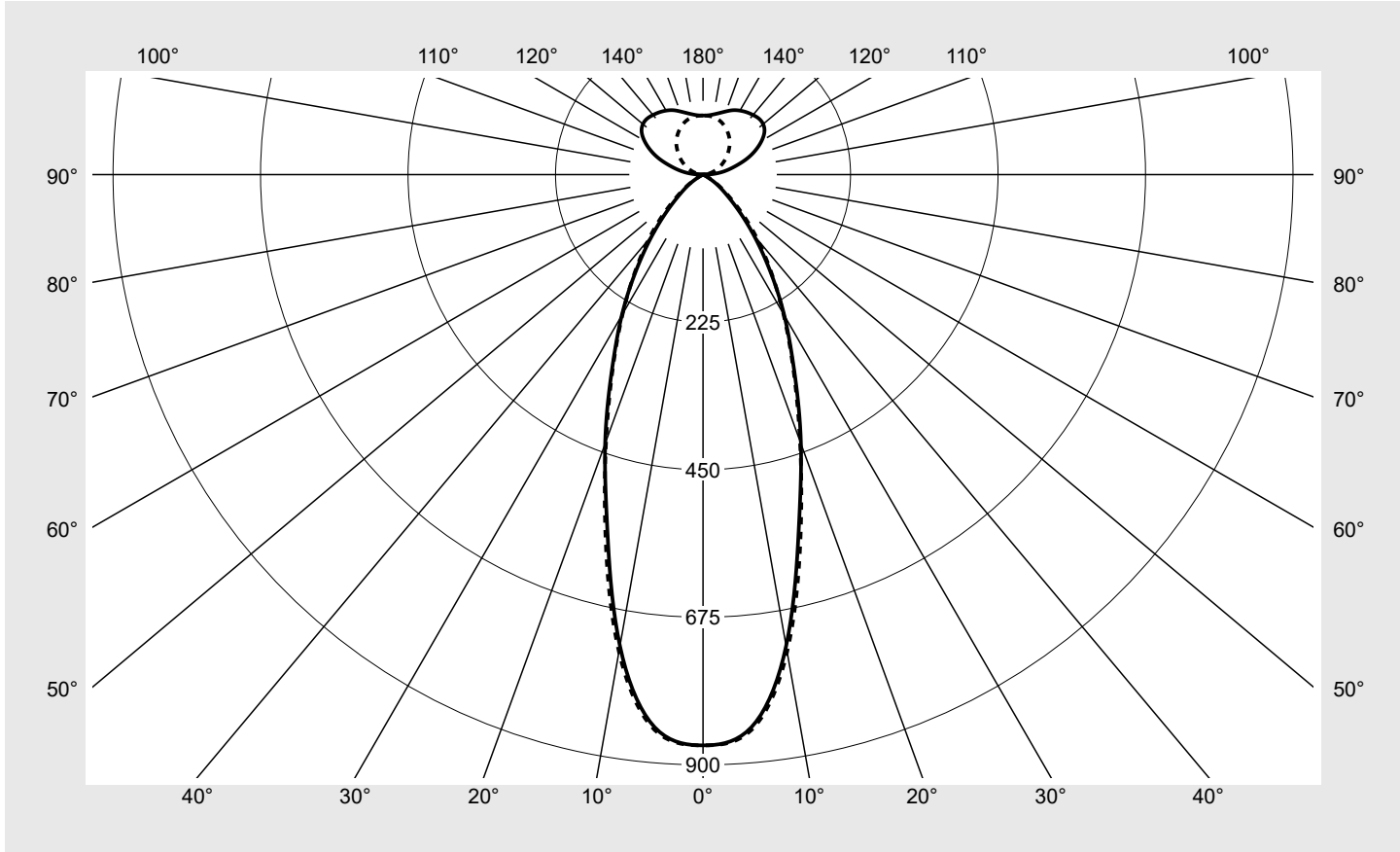
Setting individual position

Rated values Net luminous flux = 15550 lm
Power consumption = 151.8 W
Luminous efficacy = 102.4 lm/W

serial documentation
03.05.2023



Luminous intensity in cd/klm C180-0 C270-90 **Imax: 870 cd/klm**



Classifications

DIN 5040	C 7 2
CIE	N1=85 N2=99 N3=100 N4=60 N5=100

Luminaire light output ratios

η_{LB}	100.0%
ϕ_u	59.6%
ϕ_o	40.4%

Measurement conditions
DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		Maximum luminous intensity
		siteco

C-planes γ	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-zone	Total Phi-zone
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			
Luminous intensity in cd/klm							Luminous flux in lm/klm		
0°	870.3	870.3	870.3	870.3	870.3	870.3	870.3	5.2	5.2
5°	846.0	847.0	846.3	847.4	849.1	850.7	849.9	40.5	45.7
10°	729.9	730.5	735.4	740.2	741.6	737.5	738.7	70.1	115.8
15°	563.5	566.8	573.7	583.4	582.7	575.8	574.3	81.6	197.4
20°	436.6	435.3	429.7	429.7	431.1	427.8	432.4	80.9	278.3
25°	328.9	328.2	319.1	311.5	316.6	319.6	325.6	74.2	352.5
30°	247.8	246.0	233.3	230.7	239.5	241.8	245.2	65.7	418.2
35°	177.2	177.8	169.0	168.0	180.3	183.5	180.9	55.4	473.6
40°	120.1	121.7	120.2	121.8	131.6	132.5	129.5	44.2	517.8
45°	75.2	76.8	78.8	83.5	89.3	88.1	85.7	32.1	549.9
50°	44.3	46.1	49.1	53.4	57.3	54.4	51.5	21.6	571.5
55°	25.2	26.5	29.2	32.4	34.1	31.0	29.0	13.5	585.0
60°	8.3	10.2	15.9	18.3	18.2	12.9	10.8	6.7	591.7
65°	2.5	3.2	5.0	9.4	5.8	3.6	3.2	2.5	594.2
70°	1.1	1.1	1.0	1.8	1.2	1.4	1.5	0.7	594.9
75°	0.2	0.3	0.3	0.4	0.4	0.4	0.3	0.2	595.0
80°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	595.1
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2	595.3
90°	5.7	5.5	5.8	5.6	3.2	1.1	0.4	2.2	597.5
95°	20.7	21.1	22.8	21.9	14.5	7.6	3.9	9.1	606.6
100°	36.3	37.4	38.2	34.3	23.7	13.6	9.0	15.3	621.9
105°	52.3	53.6	53.5	47.0	32.7	20.5	15.0	21.3	643.2
110°	71.5	72.2	68.8	58.2	41.9	27.5	21.3	27.0	670.2
115°	88.7	88.3	82.4	68.5	50.8	34.7	28.2	31.7	701.9
120°	103.3	102.0	94.0	77.2	59.3	41.7	35.0	35.1	737.0
125°	114.4	111.6	102.0	85.5	66.7	48.3	42.1	36.8	773.8
130°	119.7	117.2	106.2	90.6	72.3	55.0	49.2	36.8	810.6
135°	120.6	118.1	107.9	93.8	76.4	61.1	56.3	35.3	845.9
140°	118.7	116.7	108.1	95.8	79.5	66.7	63.6	32.8	878.7
145°	116.0	114.8	107.5	96.4	82.4	71.9	69.6	29.6	908.3
150°	112.6	112.0	105.4	95.3	84.5	76.9	75.0	25.9	934.3
155°	108.3	107.8	101.5	94.1	86.0	81.3	79.8	21.8	956.1
160°	102.5	102.2	97.5	92.7	87.4	84.6	84.2	17.4	973.5
165°	97.2	96.6	94.2	91.1	88.8	87.3	87.2	13.0	986.5
170°	93.2	92.7	92.0	90.7	89.7	89.4	89.3	8.7	995.2
175°	90.7	90.6	90.1	89.9	89.9	89.9	89.9	4.3	999.5
180°	90.1	90.1	90.1	90.1	90.1	90.1	90.1	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	13.9	14.7	14.7	15.5	16.6	14.5	15.3	15.3	16.1	17.2
	3H	13.6	14.3	14.5	15.2	16.3	14.2	15.0	15.1	15.8	16.9
	4H	13.4	14.1	14.3	15.0	16.1	14.1	14.8	15.0	15.6	16.7
	6H	13.2	13.8	14.2	14.7	15.9	13.9	14.5	14.8	15.4	16.6
	8H	13.2	13.7	14.1	14.6	15.8	13.8	14.3	14.7	15.2	16.4
	12H	13.1	13.5	14.0	14.5	15.6	13.7	14.2	14.7	15.1	16.3
4H	2H	13.7	14.3	14.5	15.2	16.3	14.2	14.8	15.1	15.7	16.8
	3H	13.4	13.9	14.3	14.8	16.0	13.9	14.5	14.9	15.4	16.5
	4H	13.2	13.7	14.2	14.6	15.8	13.8	14.3	14.7	15.2	16.4
	6H	13.0	13.5	14.0	14.4	15.6	13.6	14.1	14.6	15.0	16.2
	8H	13.0	13.3	13.9	14.3	15.5	13.6	13.9	14.5	14.9	16.1
	12H	12.8	13.2	13.8	14.1	15.4	13.5	13.8	14.4	14.7	16.0
8H	4H	13.0	13.4	13.9	14.3	15.5	13.5	13.9	14.5	14.9	16.1
	6H	12.8	13.2	13.8	14.1	15.3	13.4	13.7	14.3	14.6	15.9
	8H	12.7	13.0	13.7	14.0	15.2	13.3	13.6	14.3	14.6	15.8
	12H	12.6	12.9	13.6	13.9	15.1	13.2	13.4	14.2	14.4	15.7
12H	4H	12.9	13.2	13.9	14.2	15.4	13.4	13.7	14.4	14.7	15.9
	6H	12.7	13.0	13.7	14.0	15.2	13.3	13.5	14.3	14.5	15.8
	8H	12.6	12.9	13.6	13.9	15.1	13.2	13.4	14.2	14.4	15.7

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 2940
			B = 49

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°		11481.4	11728.8	12025.0	12747.8	13628.8	13454.0	13084.7	
50°		7443.7	7741.1	8252.8	8967.8	9613.8	9135.7	8645.4	
55°		4742.9	4994.6	5493.3	6092.3	6409.2	5839.9	5462.8	
60°		1795.1	2206.3	3437.5	3943.5	3930.1	2794.2	2337.1	
65°		638.8	808.1	1266.8	2394.5	1474.2	919.0	827.5	
70°		338.6	360.4	305.5	579.8	393.2	455.7	474.7	
75°		89.7	125.5	123.4	163.5	163.5	162.7	133.0	
80°		32.3	35.4	42.3	51.0	64.0	77.7	77.7	
85°		505.3	506.5	500.3	476.8	459.5	465.7	474.3	

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

