Photometric test report

Family
Silica® 21

Order number: 51MX32TAT7W
EAN: 4058352685488

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 = 6220 lm Power consumption = 60.5 W Luminous efficacy = 102.8 lm/W

LP number
59308_29

serial documentation
03.05.2023

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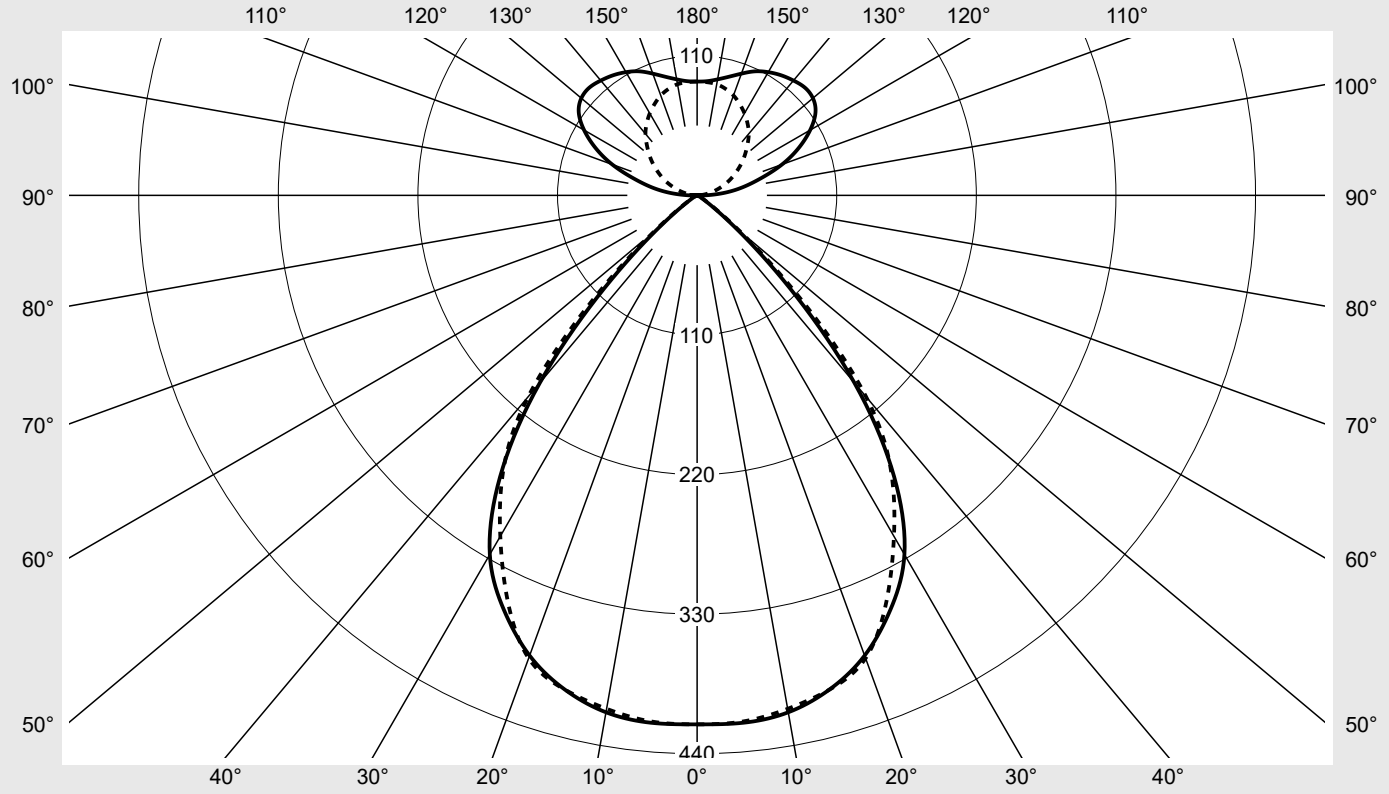
Luminous intensity in cd/klm

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

ηLB	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	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°	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

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	15.7	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	16.5	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	16.5	17.6
	8H	14.9	15.3	15.8	16.2	17.4	15.0	15.4	16.0	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	15.9	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 $\gamma >= 65°$

Photometric dimensions in mm: L = 1176, B = 49

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°	15745.3	17012.4	18555.6	19235.2	19121.6	17830.2	17609.6
50°	6364.4	7345.3	8844.9	9506.8	9495.2	7817.2	7392.0
55°	1972.2	2492.9	3391.6	4179.3	3719.2	2657.0	2387.4
60°	764.4	917.3	1371.9	1822.3	1476.6	1088.9	1052.9
65°	325.9	384.9	556.8	735.3	642.1	500.1	485.3
70°	256.6	273.3	207.7	204.2	246.8	318.4	326.6
75°	75.9	100.9	84.2	117.6	109.3	128.5	116.4
80°	21.1	24.9	35.4	46.0	60.3	70.9	74.0
85°	475.6	479.3	480.5	460.7	447.1	459.5	466.9

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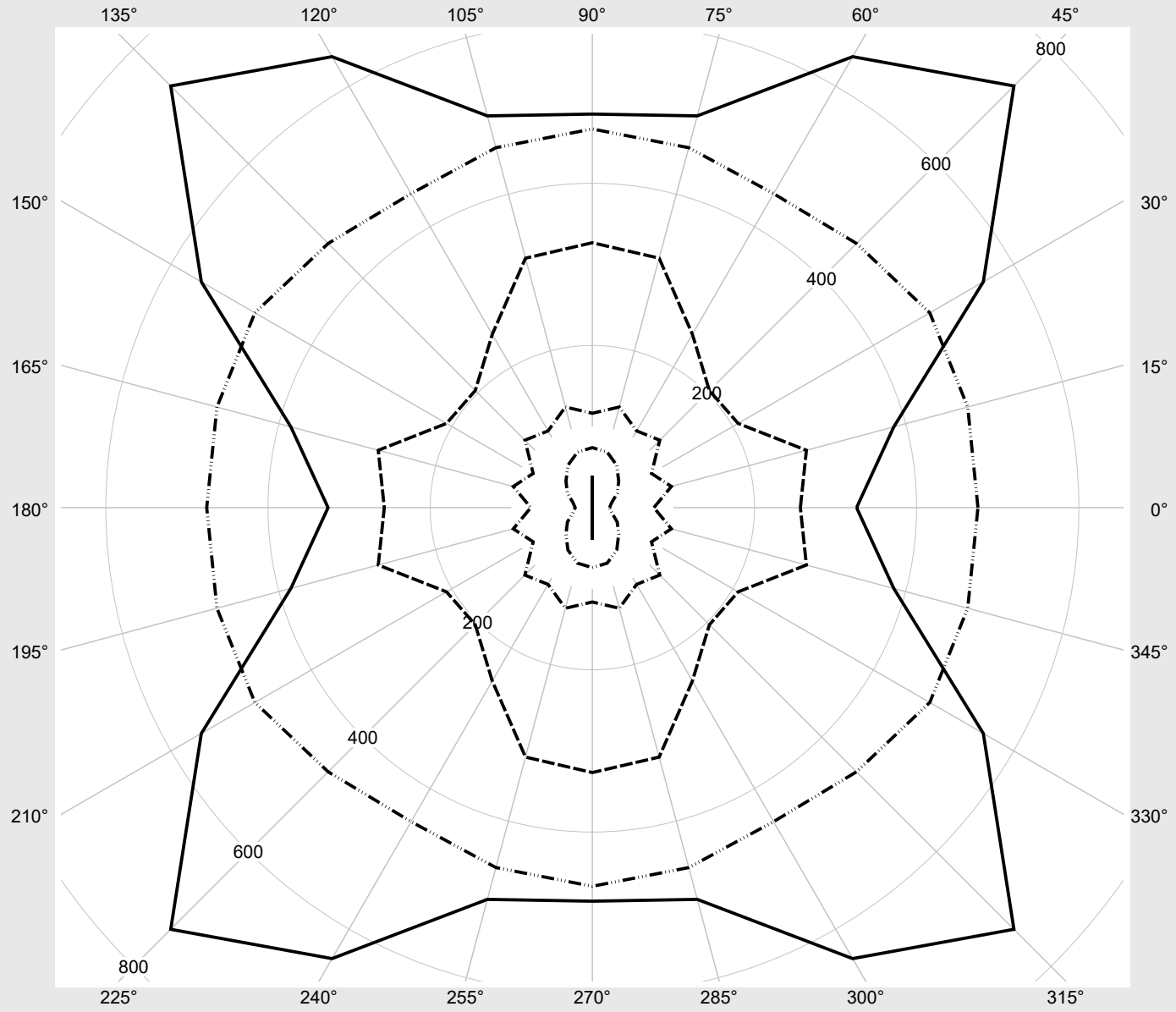
Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85°

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