Photometric test report

Family
Silica® 21

Order number: 51MX30TBT5W
EAN: 4058352685303

Version	Suspended luminaire, with homogeneous illumination, cover, opal, direct-/ indirect distribution, extremely wide distribution, UGR≤25, tunable white
Lamps	LED 2700 K | CRI ≥ 80
Controlgear	ECG-DALI
Setting	individual position
Rated values	Net luminous flux = 5150 lm Power consumption = 46.8 W Luminous efficacy = 110 lm/W

LP number
59412_38

serial documentation
03.05.2023

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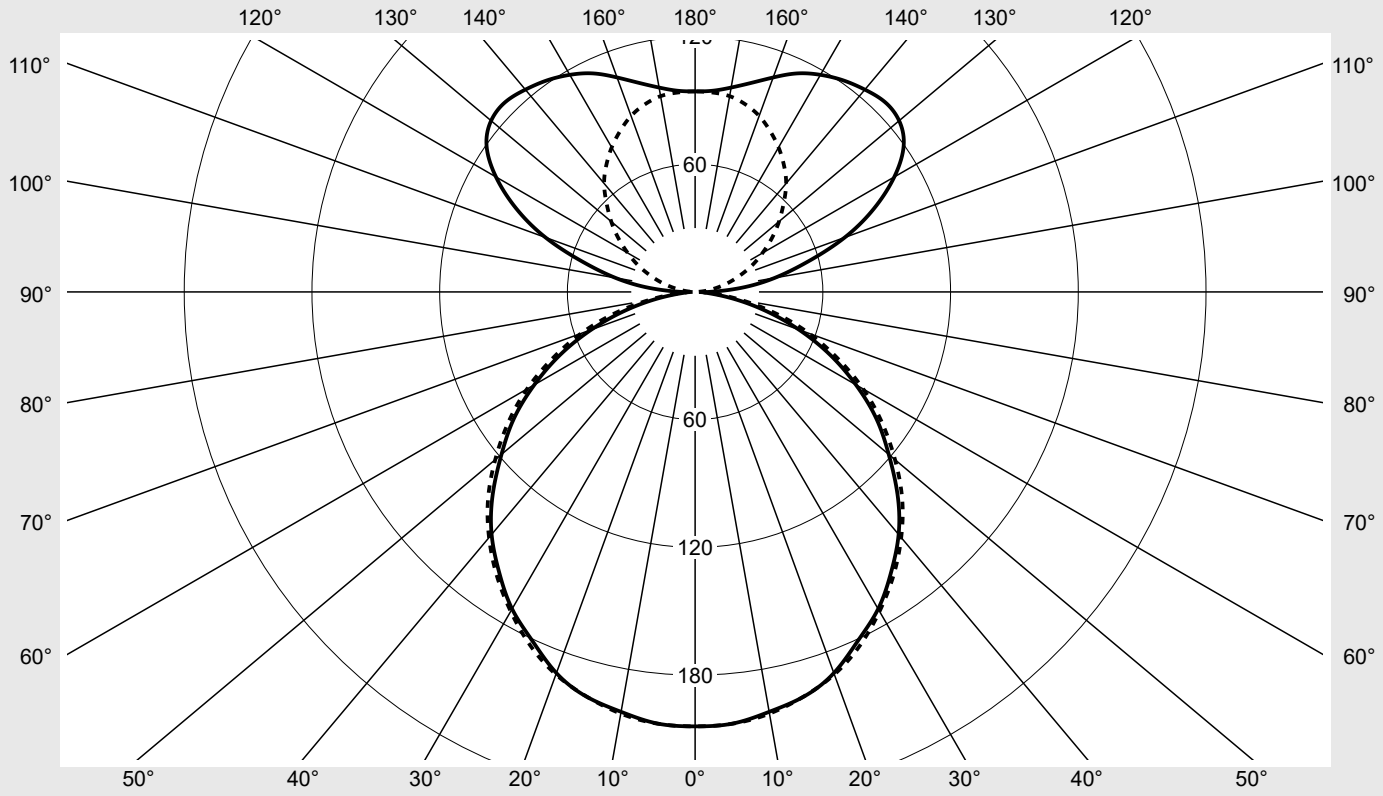
Luminous intensity in cd/klm

C180-0 C270-90

Imax: 204 cd/klm



Classifications	
DIN 5040	C 4 2
CIE	N1=47 N2=79 N3=96 N4=58 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	57.8%
ϕ_o	42.2%

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°	204.1	204.1	204.1	204.1	204.1	204.1	204.1	1.2	1.2
5°	203.5	203.8	203.3	203.3	203.4	203.8	203.6	9.7	10.9
10°	200.3	199.9	199.8	200.3	201.2	200.6	201.1	19.1	30.0
15°	196.9	196.3	195.1	196.0	196.7	197.0	196.8	27.9	57.9
20°	190.5	190.1	188.7	189.7	189.8	190.2	191.2	35.6	93.5
25°	180.9	181.1	180.3	181.3	182.3	182.2	183.2	42.1	135.5
30°	172.0	171.7	170.5	171.9	173.3	173.2	173.3	47.2	182.7
35°	160.6	160.7	159.7	160.3	160.9	161.7	162.5	50.6	233.3
40°	148.7	148.4	148.5	148.2	149.1	149.3	150.6	52.5	285.7
45°	134.5	134.5	134.8	134.8	135.4	135.8	137.6	52.4	338.1
50°	118.7	119.6	120.0	120.5	121.6	121.8	122.6	50.7	388.8
55°	104.0	104.1	104.8	105.3	106.3	106.3	107.2	47.3	436.2
60°	87.2	87.5	88.1	88.4	89.8	89.9	91.2	42.2	478.3
65°	70.0	70.7	71.5	72.5	73.2	73.9	73.9	35.9	514.2
70°	52.0	53.0	53.5	54.9	56.0	56.6	57.0	28.2	542.4
75°	34.3	35.1	35.7	36.9	38.2	39.1	39.4	19.6	562.0
80°	18.0	18.4	19.0	19.8	21.0	21.9	22.2	10.8	572.8
85°	5.8	6.0	6.3	6.8	7.4	8.1	8.3	3.8	576.6
90°	6.3	6.1	6.5	6.3	3.9	1.8	1.1	2.6	579.2
95°	21.6	22.1	23.8	22.9	15.1	7.9	4.1	9.5	588.7
100°	38.0	39.1	40.0	35.9	24.8	14.2	9.4	16.0	604.7
105°	54.7	56.0	55.9	49.2	34.1	21.4	15.7	22.2	626.9
110°	74.8	75.5	71.9	60.8	43.8	28.8	22.2	28.3	655.2
115°	92.7	92.3	86.1	71.6	53.1	36.3	29.5	33.2	688.4
120°	108.0	106.6	98.3	80.7	62.0	43.6	36.5	36.7	725.0
125°	119.6	116.6	106.6	89.4	69.8	50.5	44.0	38.5	763.5
130°	125.1	122.5	111.1	94.7	75.6	57.5	51.4	38.5	802.0
135°	126.1	123.5	112.8	98.1	79.9	63.9	58.8	36.9	838.9
140°	124.1	122.0	113.0	100.2	83.2	69.8	66.5	34.3	873.1
145°	121.3	120.0	112.4	100.8	86.1	75.2	72.7	31.0	904.1
150°	117.8	117.1	110.2	99.7	88.4	80.4	78.4	27.1	931.3
155°	113.3	112.8	106.2	98.4	90.0	85.0	83.4	22.8	954.1
160°	107.2	106.9	101.9	96.9	91.4	88.5	88.0	18.2	972.3
165°	101.6	101.0	98.5	95.2	92.8	91.2	91.2	13.6	985.9
170°	97.5	97.0	96.2	94.8	93.7	93.4	93.4	9.1	994.9
175°	94.9	94.8	94.2	94.0	94.0	94.0	94.0	4.5	999.4
180°	94.2	94.2	94.2	94.2	94.2	94.2	94.2	0.6	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 x	y	View crosswise (C0)					View endwise (C90)				
2H	2H	18.5	19.6	19.3	20.4	21.5	18.7	19.7	19.5	20.6	21.6
	3H	19.9	20.8	20.8	21.7	22.8	20.2	21.2	21.1	22.0	23.1
	4H	20.4	21.3	21.3	22.1	23.3	20.8	21.7	21.7	22.6	23.7
	6H	20.6	21.4	21.5	22.3	23.5	21.1	21.9	22.0	22.8	24.0
	8H	20.6	21.4	21.5	22.3	23.5	21.1	21.9	22.0	22.8	24.0
	12H	20.6	21.3	21.5	22.2	23.4	21.2	21.9	22.1	22.8	24.0
4H	2H	19.1	20.0	20.0	20.9	22.0	19.2	20.1	20.1	20.9	22.1
	3H	20.7	21.4	21.6	22.3	23.5	20.9	21.6	21.8	22.5	23.7
	4H	21.3	21.9	22.2	22.8	24.0	21.6	22.3	22.5	23.2	24.4
	6H	21.6	22.1	22.5	23.1	24.3	22.1	22.6	23.0	23.6	24.8
	8H	21.7	22.2	22.6	23.1	24.3	22.2	22.7	23.1	23.6	24.9
	12H	21.6	22.1	22.6	23.0	24.3	22.2	22.7	23.2	23.6	24.9
8H	4H	21.4	22.0	22.4	22.9	24.1	21.7	22.2	22.7	23.2	24.4
	6H	21.9	22.3	22.9	23.3	24.5	22.3	22.7	23.3	23.7	24.9
	8H	22.0	22.4	23.0	23.4	24.6	22.5	22.9	23.5	23.9	25.1
	12H	22.0	22.3	23.0	23.3	24.6	22.6	22.9	23.6	23.9	25.2
12H	4H	21.4	21.8	22.4	22.8	24.1	21.7	22.1	22.6	23.1	24.3
	6H	21.9	22.3	22.9	23.2	24.5	22.3	22.6	23.3	23.6	24.9
	8H	22.0	22.3	23.0	23.3	24.6	22.5	22.8	23.5	23.8	25.1

Luminance table

Max. for $\gamma >= 65°$

Photometric dimensions in mm: L = 1500, B = 50

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°	13056.9	13064.8	13089.5	13091.1	13149.4	13184.0	13358.8
50°	12684.2	12780.7	12817.0	12871.3	12990.5	13013.1	13094.5
55°	12454.4	12468.3	12543.2	12605.7	12721.9	12722.9	12839.1
60°	11975.5	12023.3	12093.0	12140.8	12334.0	12350.5	12522.3
65°	11373.7	11487.6	11620.0	11774.2	11887.0	12006.4	12005.7
70°	10439.1	10635.5	10743.7	11017.5	11233.4	11371.9	11444.2
75°	9099.0	9314.4	9464.8	9792.2	10122.5	10385.5	10454.7
80°	7119.8	7256.2	7506.2	7831.2	8302.6	8656.9	8762.5
85°	4582.2	4744.5	5001.3	5371.6	5850.7	6349.4	6571.6

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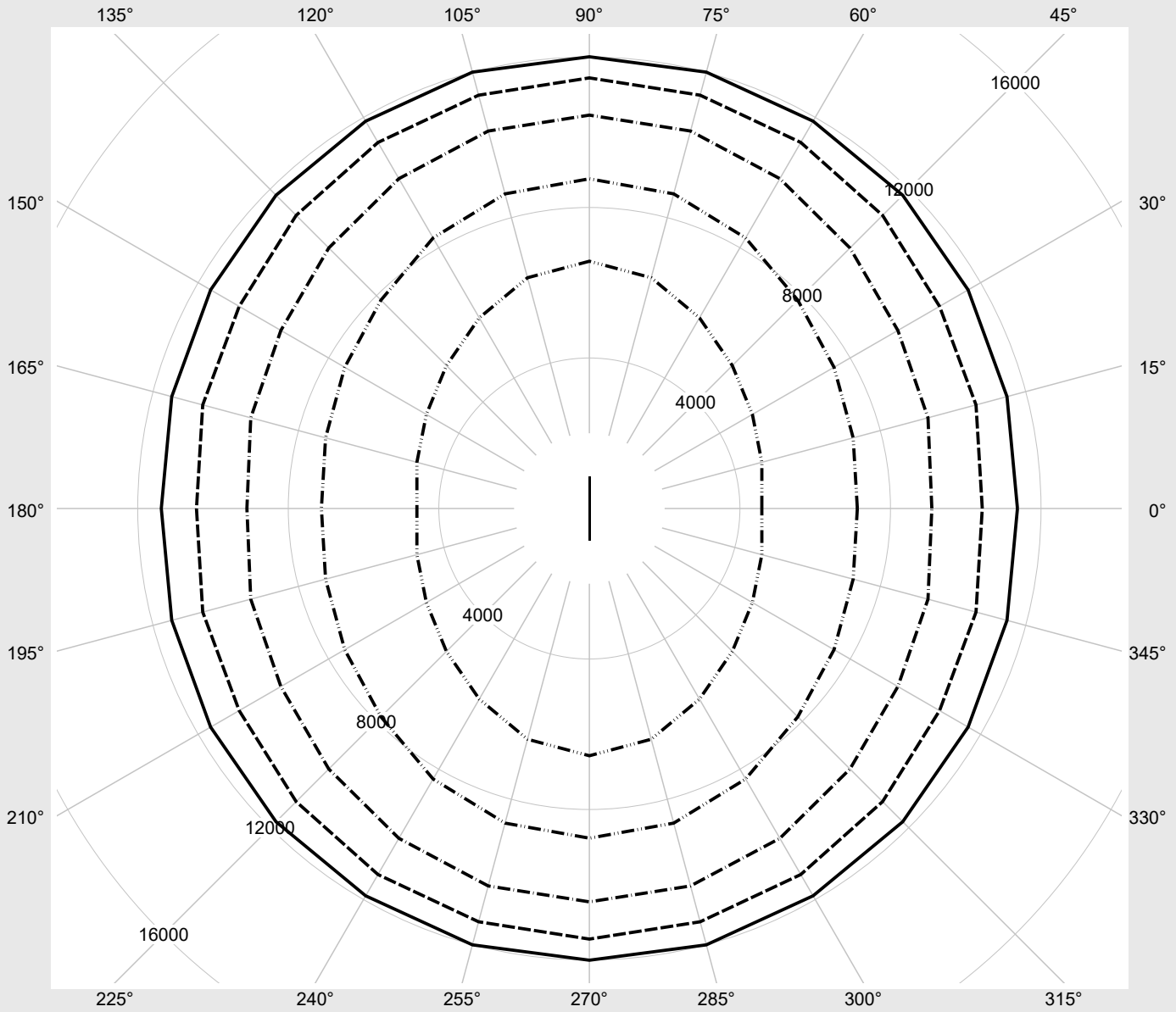
Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85°