Photometric test report

Family
Silica® 21



Order number: 51MX35DA47WB
EAN: 4058352884744

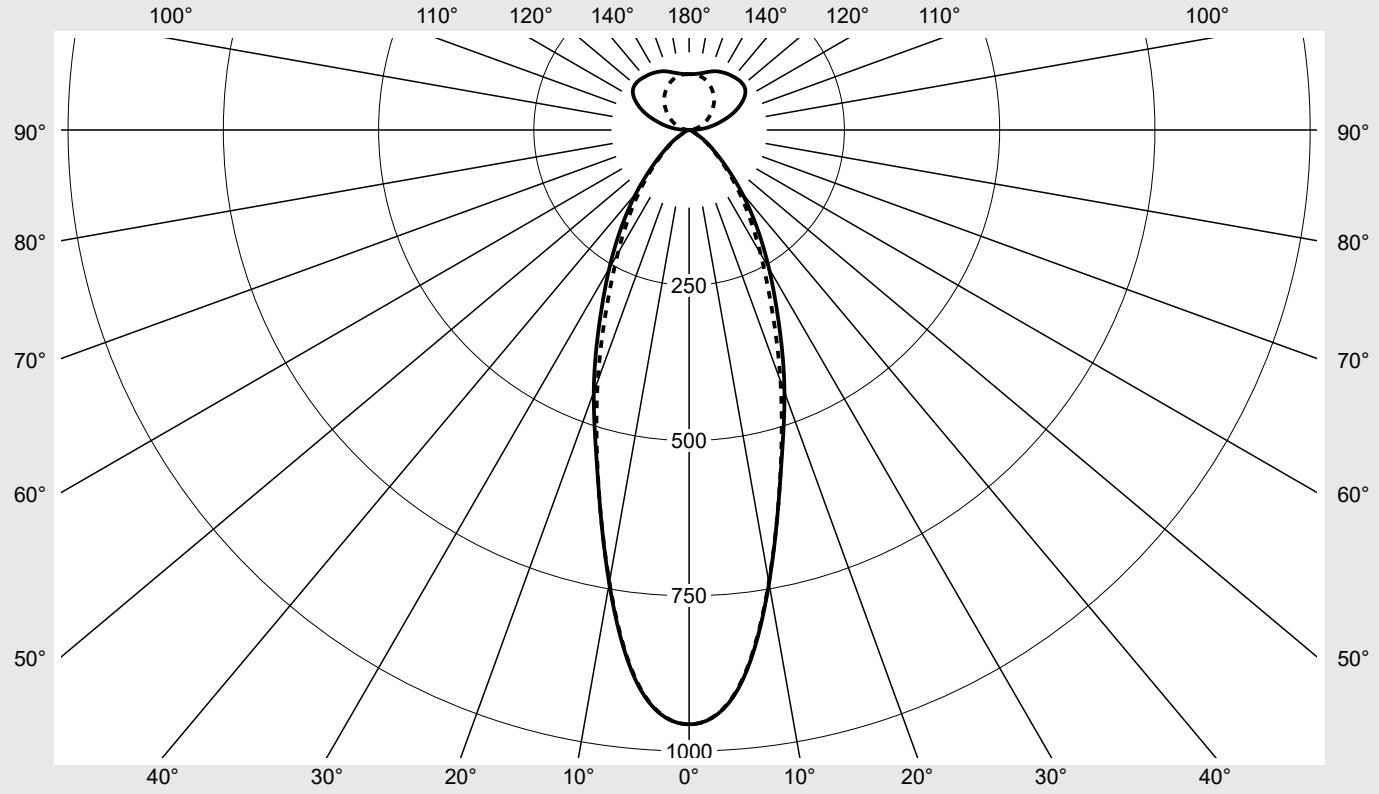
LP number
59282_74

serial documentation
02.08.2023

Version	Suspended luminaire, reflector, white, direct-/ indirect distribution, narrow distribution, UGR≤16 (L65≤3000cd/m²)
Lamps	LED 4000 K | CRI ≥ 80
Controlgear	ECG-DALI
Rated values	Net luminous flux = 7080 lm Power consumption = 40.6 W Luminous efficacy = 174.4 lm/W

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Luminous intensity in cd/klm C180-0 C270-90 **Imax: 957 cd/klm**



Classifications

DIN 5040	B 7 2
CIE	N1=84 N2=98 N3=100 N4=61 N5=100

Luminaire light output ratios

ηLB	100.0%
ϕ_u	60.8%
ϕ_o	39.2%

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°	957.0	957.0	957.0	957.0	957.0	957.0	957.0	5.7	5.7
5°	903.7	904.8	903.5	903.5	903.5	903.6	902.1	43.2	48.9
10°	741.0	743.3	751.7	757.4	754.0	741.9	739.1	71.2	120.1
15°	570.3	575.7	585.0	591.1	585.1	573.7	568.6	82.3	202.4
20°	448.9	449.4	439.6	429.0	425.9	427.3	430.0	81.6	284.0
25°	341.1	338.3	316.4	299.3	306.2	313.5	313.6	73.4	357.4
30°	256.9	254.3	229.0	215.1	226.4	235.7	229.7	64.1	421.5
35°	189.0	189.2	168.7	158.3	167.9	176.3	167.2	54.4	475.9
40°	132.4	132.9	121.3	115.3	121.6	124.9	117.6	43.5	519.4
45°	85.9	86.0	81.6	79.5	82.6	81.6	77.5	31.9	551.3
50°	53.4	54.3	53.5	53.3	54.1	51.5	48.8	22.2	573.5
55°	32.8	33.7	34.4	34.7	34.8	31.8	29.9	15.0	588.5
60°	14.9	16.6	21.1	21.9	21.1	16.6	14.8	8.9	597.4
65°	8.2	8.9	10.2	10.3	10.2	8.6	8.1	4.7	602.1
70°	5.0	5.1	5.0	5.6	5.1	5.2	5.1	2.7	604.7
75°	2.2	2.3	2.5	2.6	2.6	2.4	2.3	1.3	606.0
80°	1.1	1.1	1.2	1.2	1.2	1.2	1.2	0.6	606.7
85°	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.5	607.1
90°	4.5	4.4	4.7	4.6	2.7	0.9	0.3	1.8	608.9
95°	21.0	21.5	23.0	21.8	14.0	7.2	3.7	9.1	618.0
100°	37.6	38.6	39.0	34.1	22.9	12.9	8.5	15.4	633.4
105°	53.9	55.1	54.0	46.1	31.5	19.6	14.3	21.2	654.6
110°	72.5	72.8	68.2	56.8	40.4	26.4	20.5	26.7	681.3
115°	88.6	87.8	81.0	66.6	49.1	33.4	27.3	31.1	712.4
120°	101.9	100.3	91.4	74.6	57.1	40.1	34.0	34.1	746.5
125°	110.6	107.6	97.7	81.9	63.9	46.5	41.1	35.4	782.0
130°	113.6	111.1	100.7	86.2	69.0	53.1	48.2	35.1	817.0
135°	113.4	111.1	101.9	89.1	73.1	59.3	55.4	33.5	850.5
140°	111.6	109.9	102.2	91.2	76.6	65.1	62.8	31.2	881.8
145°	109.7	108.6	102.1	92.3	79.8	70.5	68.8	28.4	910.2
150°	107.2	106.7	101.0	92.2	82.4	75.7	74.3	25.1	935.3
155°	104.3	104.0	98.4	91.9	84.5	80.3	79.2	21.3	956.6
160°	100.1	99.9	95.5	91.1	86.2	83.9	83.7	17.1	973.7
165°	95.7	95.2	92.9	90.0	88.0	86.8	86.9	12.9	986.6
170°	92.3	91.9	91.3	90.1	89.2	89.1	89.1	8.6	995.2
175°	90.4	90.3	89.9	89.7	89.7	89.7	89.7	4.3	999.5
180°	89.9	89.9	89.9	89.9	89.9	89.9	89.9	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	15.0	15.9	15.9	16.7	17.7	14.8	15.6	15.6	16.4	17.5
	3H	14.9	15.6	15.7	16.5	17.5	14.6	15.4	15.5	16.2	17.3
	4H	14.8	15.4	15.6	16.3	17.4	14.5	15.2	15.4	16.1	17.2
	6H	14.6	15.2	15.5	16.1	17.2	14.4	15.0	15.3	15.9	17.0
	8H	14.5	15.1	15.4	16.0	17.1	14.3	14.8	15.2	15.7	16.8
	12H	14.4	14.9	15.3	15.8	17.0	14.2	14.7	15.1	15.6	16.8
4H	2H	14.9	15.6	15.7	16.4	17.5	14.6	15.2	15.4	16.1	17.2
	3H	14.7	15.3	15.6	16.2	17.3	14.5	15.0	15.4	15.9	17.1
	4H	14.6	15.1	15.6	16.0	17.2	14.4	14.9	15.3	15.8	17.0
	6H	14.5	14.9	15.4	15.8	17.0	14.3	14.7	15.2	15.6	16.8
	8H	14.4	14.8	15.3	15.7	16.9	14.2	14.6	15.1	15.5	16.7
	12H	14.3	14.6	15.3	15.6	16.8	14.1	14.4	15.1	15.4	16.6
8H	4H	14.4	14.8	15.4	15.7	16.9	14.2	14.5	15.1	15.5	16.7
	6H	14.3	14.6	15.3	15.6	16.8	14.0	14.3	15.0	15.3	16.5
	8H	14.2	14.5	15.2	15.5	16.7	14.0	14.3	15.0	15.2	16.5
	12H	14.2	14.4	15.1	15.4	16.6	13.9	14.2	14.9	15.1	16.4
12H	4H	14.3	14.7	15.3	15.6	16.8	14.1	14.4	15.0	15.3	16.5
	6H	14.2	14.5	15.2	15.4	16.7	14.0	14.2	14.9	15.2	16.4
	8H	14.1	14.4	15.1	15.3	16.6	13.9	14.1	14.9	15.1	16.4

Luminance table

Max. for $\gamma >= 65°$

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

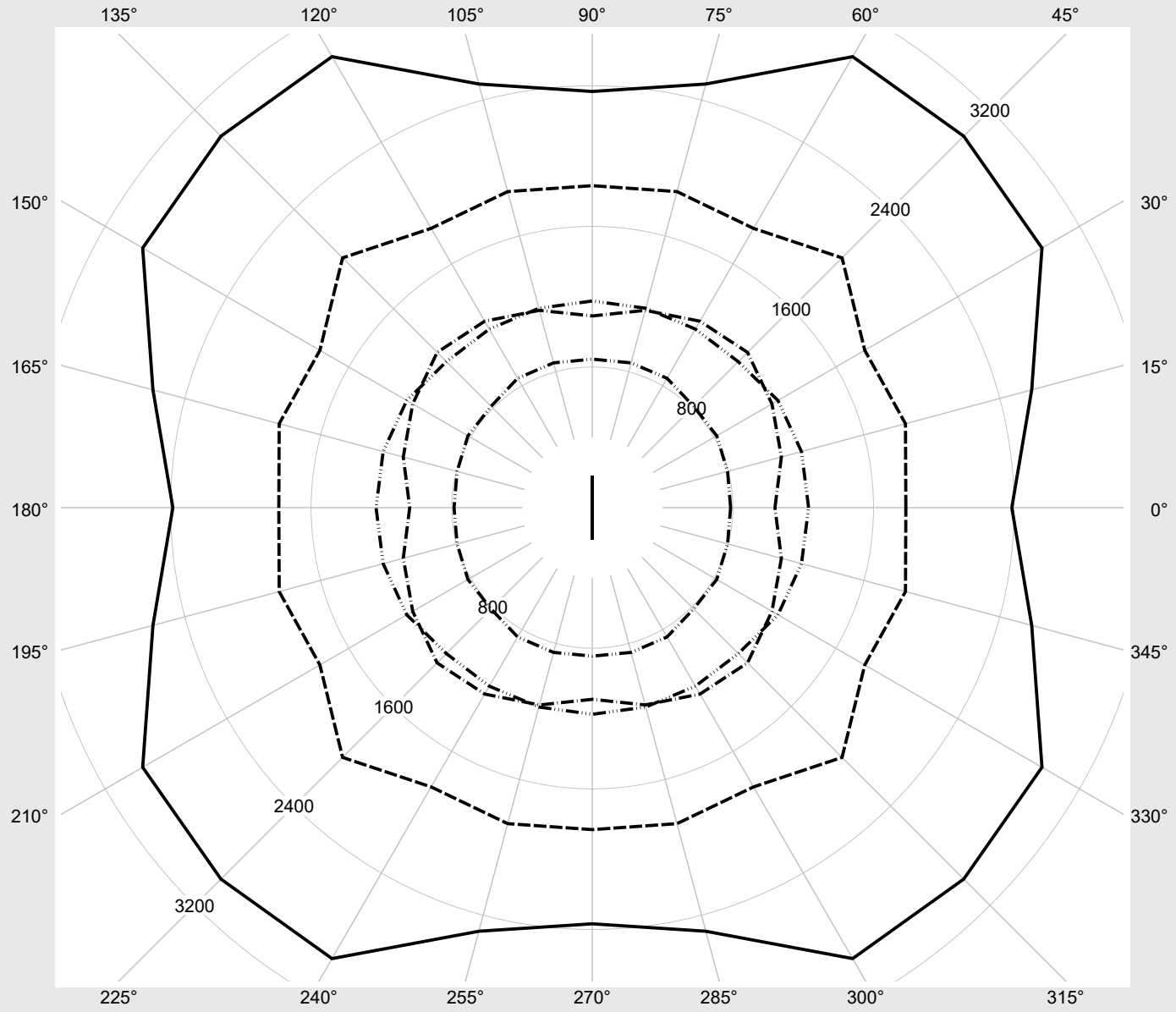
C-planes	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
γ	Luminance in cd/m²						
45°	14926.5	14946.5	14180.0	13819.3	14355.4	14171.7	13473.4
50°	10210.8	10380.7	10217.8	10183.2	10349.0	9846.8	9321.0
55°	7035.1	7221.9	7373.3	7434.6	7448.9	6807.4	6413.0
60°	3668.8	4082.6	5194.0	5384.9	5195.7	4088.0	3636.6
65°	2386.8	2588.3	2954.3	2988.6	2962.5	2495.0	2367.7
70°	1784.0	1844.7	1790.1	2009.6	1834.6	1861.2	1831.7
75°	1039.2	1113.7	1180.1	1249.0	1224.8	1162.1	1090.4
80°	786.8	796.7	817.2	815.1	849.8	852.6	844.8
85°	1230.7	1232.1	1219.4	1174.3	1172.9	1174.3	1175.7

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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	7080	40.6
95	241	252	6735	38.6
90	227	250	6362	36.3
85	214	248	6012	34.4
80	201	245	5659	32.3
75	188	243	5306	30.3
70	175	240	4951	28.4
65	162	238	4594	26.3
60	149	234	4234	24.3
55	137	231	3901	22.5
50	124	228	3538	20.5
45	111	224	3173	18.5
40	99	219	2834	16.7
35	86	214	2465	14.7
30	74	209	2123	12.9
25	62	202	1778	11.1
20	49	194	1405	9.1
15	37	183	1059	7.2
10	25	169	711	5.5
5	13	145	363	3.9
2	6	117	159	3.4