

Photometric test report

Family
Silica® 21

Order number: **51MX35DA47WB**
EAN: **4058352884744**

LP number
59282_74



Version Suspended luminaire, reflector, white, direct-/indirect distribution, narrow distribution, $UGR \leq 16$ ($L65 \leq 3000 \text{cd/m}^2$)

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

serial
documentation
02.08.2023

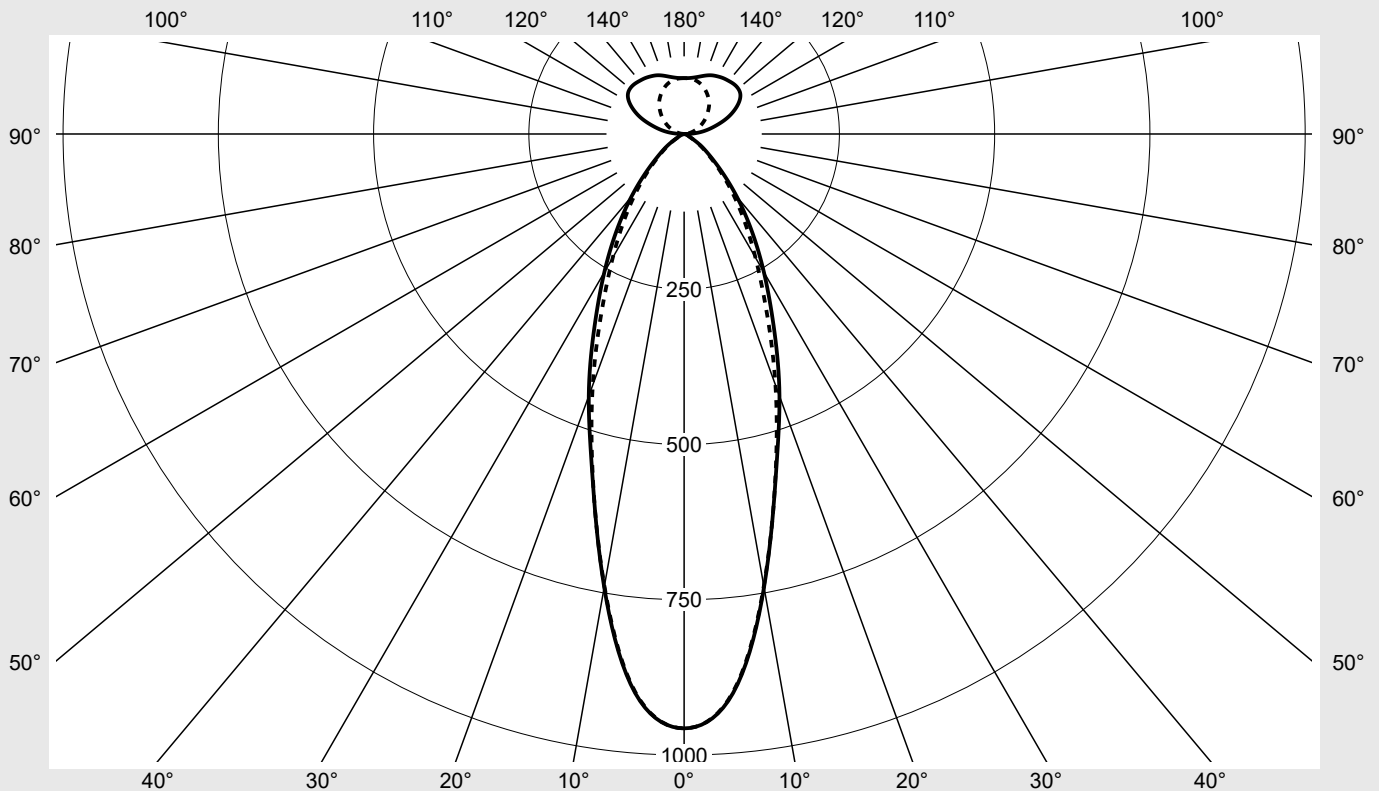
siteco

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

η_{LB} 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
		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°	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	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	15.0	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

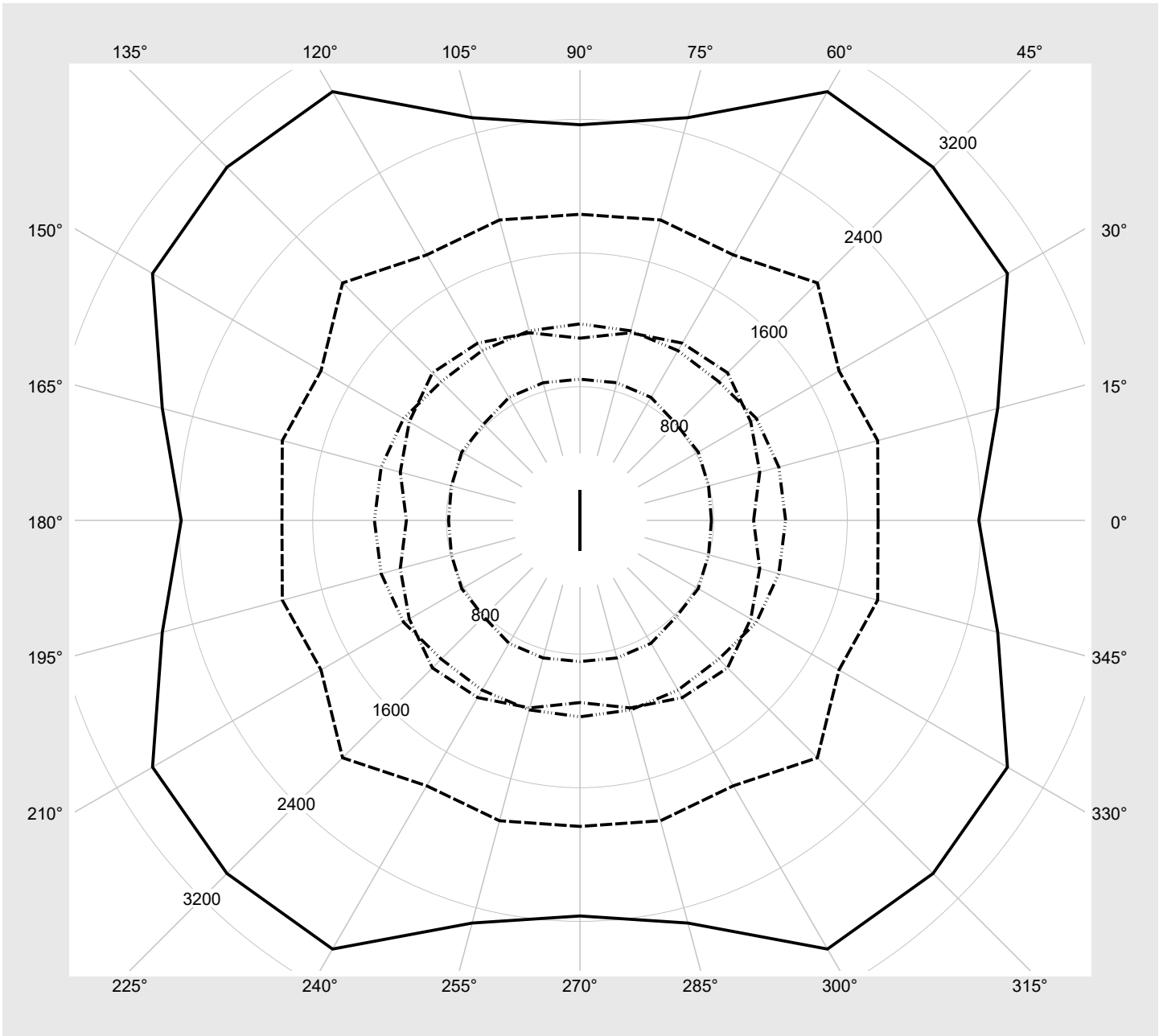
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1176 B = 49
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C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		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° **siteco**



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Dimming levels table	environmental temperature: 25°C	sITeco
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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