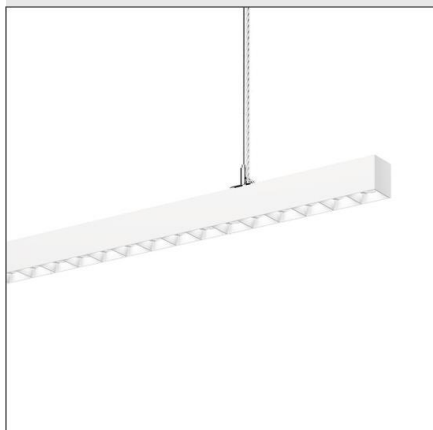


Photometric test report

Family
Silica® 21



Order number: **51MX36DA37WB**
EAN: **4058352889183**

LP number
59280_77

serial
documentation
02.08.2023

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

Lamps LED 3000 K | CRI ≥ 80

Controlgear ECG-DALI

Rated values Net luminous flux = 7060 lm
Power consumption = 43.0 W
Luminous efficacy = 164.2 lm/W

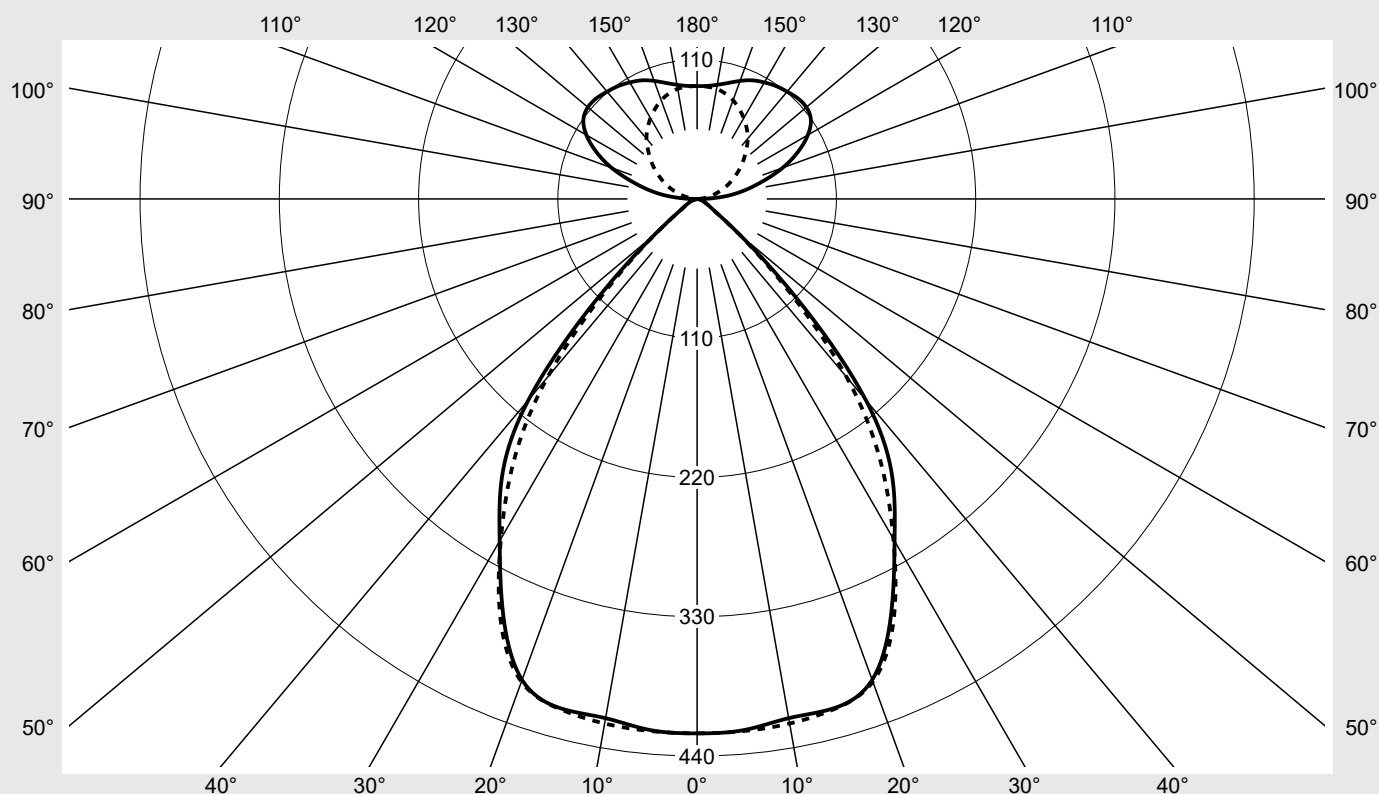
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 422 cd/klm



Classifications

DIN 5040 B 6 2
CIE N1=83 N2=98 N3=100
N4=61 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 61.1%
 ϕ_o 38.9%

Measurement conditions

DIN EN 13032 and DIN 5032

Photometric test report

Family Silica® 21	Order number: 51MX36DA37WB EAN: 4058352889183	LP number 59280_77
Table of values for luminous intensities		Maximum luminous intensity
		siteco

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°	422.1	422.1	422.1	422.1	422.1	422.1	422.1	2.5	2.5
5°	421.2	421.7	421.1	421.4	421.8	422.4	421.9	20.1	22.7
10°	416.4	415.9	416.6	418.5	420.4	419.5	420.7	39.8	62.5
15°	416.5	417.3	416.2	418.2	418.6	417.7	417.3	59.2	121.7
20°	404.3	408.0	408.5	410.6	406.7	404.4	405.8	76.3	198.0
25°	362.4	369.4	376.8	381.5	377.2	370.0	367.2	86.5	284.5
30°	311.9	316.7	317.8	318.8	318.6	312.7	309.9	86.6	371.1
35°	268.9	273.0	262.7	253.0	257.3	257.0	252.3	81.9	453.0
40°	207.2	211.8	206.6	199.5	199.2	191.4	183.8	70.7	523.7
45°	112.3	116.7	117.8	117.4	112.9	104.7	100.2	43.7	567.4
50°	43.9	46.6	49.7	52.0	48.4	44.4	42.8	19.9	587.3
55°	17.8	19.3	22.0	25.4	22.4	18.9	17.4	9.4	596.7
60°	10.9	11.5	12.5	13.7	12.5	11.2	10.7	5.7	602.4
65°	7.0	7.3	7.7	7.8	7.5	7.2	6.9	3.7	606.1
70°	4.8	4.9	4.6	4.4	4.5	4.8	4.7	2.4	608.5
75°	1.9	2.1	2.3	2.3	2.3	2.2	2.0	1.2	609.6
80°	0.9	0.9	0.9	0.9	1.0	1.0	1.0	0.5	610.2
85°	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.4	610.6
90°	4.5	4.3	4.6	4.5	2.7	0.9	0.3	1.8	612.3
95°	20.9	21.3	22.8	21.6	13.8	7.1	3.7	9.0	621.4
100°	37.3	38.3	38.6	33.8	22.7	12.8	8.4	15.2	636.6
105°	53.5	54.6	53.5	45.7	31.3	19.4	14.2	21.0	657.6
110°	71.9	72.1	67.6	56.3	40.1	26.2	20.3	26.5	684.1
115°	87.8	87.0	80.3	66.0	48.6	33.1	27.1	30.8	714.9
120°	101.0	99.4	90.6	73.9	56.6	39.8	33.7	33.8	748.7
125°	109.6	106.6	96.9	81.1	63.3	46.1	40.8	35.1	783.9
130°	112.6	110.2	99.9	85.4	68.4	52.7	47.8	34.8	818.6
135°	112.4	110.1	101.0	88.3	72.5	58.7	54.9	33.2	851.9
140°	110.6	108.9	101.3	90.4	76.0	64.5	62.2	31.0	882.8
145°	108.8	107.6	101.3	91.5	79.1	69.9	68.2	28.2	911.0
150°	106.2	105.8	100.1	91.4	81.7	75.0	73.6	24.8	935.9
155°	103.3	103.0	97.6	91.1	83.7	79.6	78.5	21.1	956.9
160°	99.2	99.0	94.6	90.3	85.5	83.2	82.9	17.0	973.9
165°	94.8	94.3	92.1	89.2	87.2	86.0	86.1	12.8	986.7
170°	91.5	91.1	90.5	89.3	88.4	88.3	88.3	8.5	995.2
175°	89.6	89.5	89.1	88.9	88.9	89.0	89.0	4.3	999.5
180°	89.1	89.1	89.1	89.1	89.1	89.1	89.1	0.5	1000.0

Photometric test report

Family Silica® 21		Order number: 51MX36DA37WB EAN: 4058352889183							LP number 59280_77	
UGR-Table		Standard room							siteco	
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	16.6	17.5	17.4	18.3	19.3	16.2	17.1	17.0	17.9
	3H	16.3	17.1	17.2	18.0	19.0	16.0	16.8	16.9	17.7
	4H	16.2	16.9	17.1	17.8	18.9	15.9	16.6	16.8	17.5
	6H	16.1	16.7	16.9	17.6	18.7	15.8	16.4	16.7	17.3
	8H	16.0	16.6	16.9	17.4	18.6	15.6	16.2	16.5	17.1
	12H	15.9	16.4	16.8	17.3	18.5	15.6	16.1	16.5	17.0
4H	2H	16.3	17.0	17.1	17.8	18.9	15.9	16.6	16.7	17.4
	3H	16.1	16.7	17.0	17.5	18.7	15.7	16.3	16.6	17.2
	4H	15.9	16.5	16.8	17.4	18.5	15.6	16.1	16.5	17.0
	6H	15.8	16.2	16.7	17.1	18.3	15.5	15.9	16.4	16.8
	8H	15.7	16.1	16.6	17.0	18.2	15.4	15.8	16.3	16.7
	12H	15.6	15.9	16.6	16.9	18.1	15.3	15.6	16.3	16.6
8H	4H	15.7	16.1	16.7	17.0	18.2	15.4	15.8	16.3	16.7
	6H	15.6	15.9	16.5	16.9	18.1	15.2	15.5	16.2	16.5
	8H	15.5	15.8	16.5	16.8	18.0	15.2	15.5	16.1	16.4
	12H	15.4	15.7	16.4	16.6	17.9	15.1	15.3	16.1	16.3
12H	4H	15.6	16.0	16.6	16.9	18.1	15.3	15.6	16.2	16.5
	6H	15.5	15.8	16.5	16.7	17.9	15.1	15.4	16.1	16.4
	8H	15.4	15.7	16.4	16.6	17.9	15.1	15.3	16.1	16.3

Luminance table		Max. for $\gamma \geq 65^\circ$		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°	19465.0	20213.3	20416.2	20341.9	19553.2	18139.7	17366.9
50°	8360.1	8877.6	9470.6	9909.7	9232.1	8456.0	8156.7
55°	3794.3	4129.4	4699.9	5425.5	4787.3	4034.6	3711.6
60°	2667.2	2806.2	3055.4	3355.0	3057.3	2748.6	2610.4
65°	2040.0	2120.6	2233.7	2263.9	2184.4	2074.3	1990.2
70°	1716.9	1763.2	1640.3	1580.5	1610.2	1711.6	1687.6
75°	913.6	994.6	1065.6	1111.0	1103.9	1039.5	964.7
80°	636.4	646.3	664.6	669.6	692.1	704.8	699.2
85°	1075.4	1061.3	1055.7	1029.0	1029.0	1034.6	1031.8

Photometric test report

Family
Silica® 21

Order number: 51MX36DA37WB
EAN: 4058352889183

LP number
59280_77

Luminance values in cd/m²

γ 65°

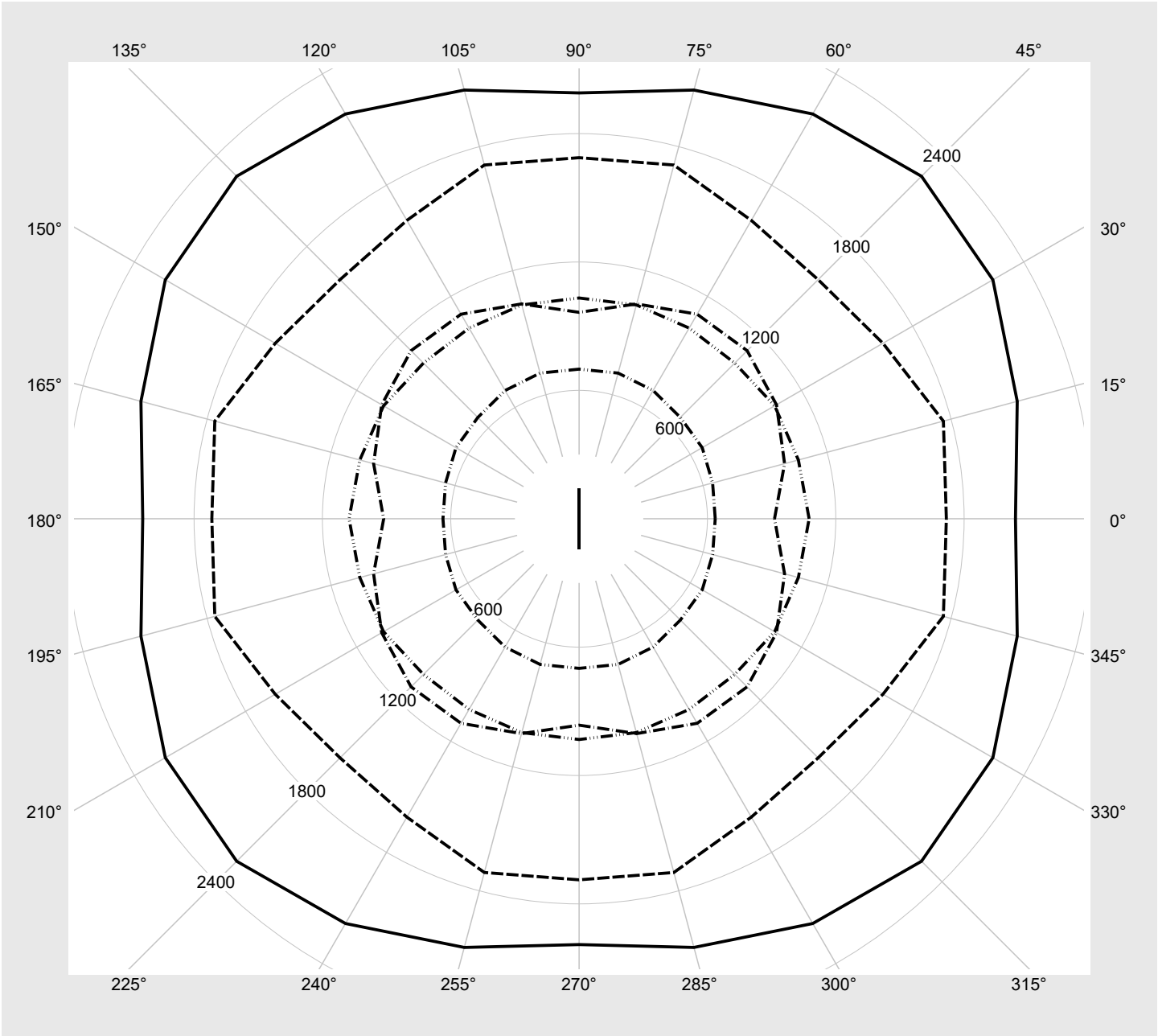
γ 70°

γ 75°

γ 80°

γ 85°

siteco



Photometric test report

Family Silica® 21	Order number: 51MX36DA37WB EAN: 4058352889183	LP number 59280_77
Dimming levels table		environmental temperature: 25°C

siteco

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	7060	43.0
95	241	252	6718	40.8
90	227	250	6348	38.6
85	214	248	6002	36.4
80	201	245	5652	34.3
75	188	243	5301	32.1
70	175	240	4948	30.0
65	162	238	4593	27.9
60	149	234	4235	25.7
55	136	231	3875	23.6
50	124	228	3540	21.7
45	111	224	3177	19.6
40	98	219	2811	17.5
35	86	214	2470	15.5
30	74	209	2128	13.7
25	61	202	1755	11.5
20	49	194	1410	9.5
15	37	183	1063	7.6
10	25	169	715	5.8
5	13	145	365	4.0
2	6	117	160	3.4