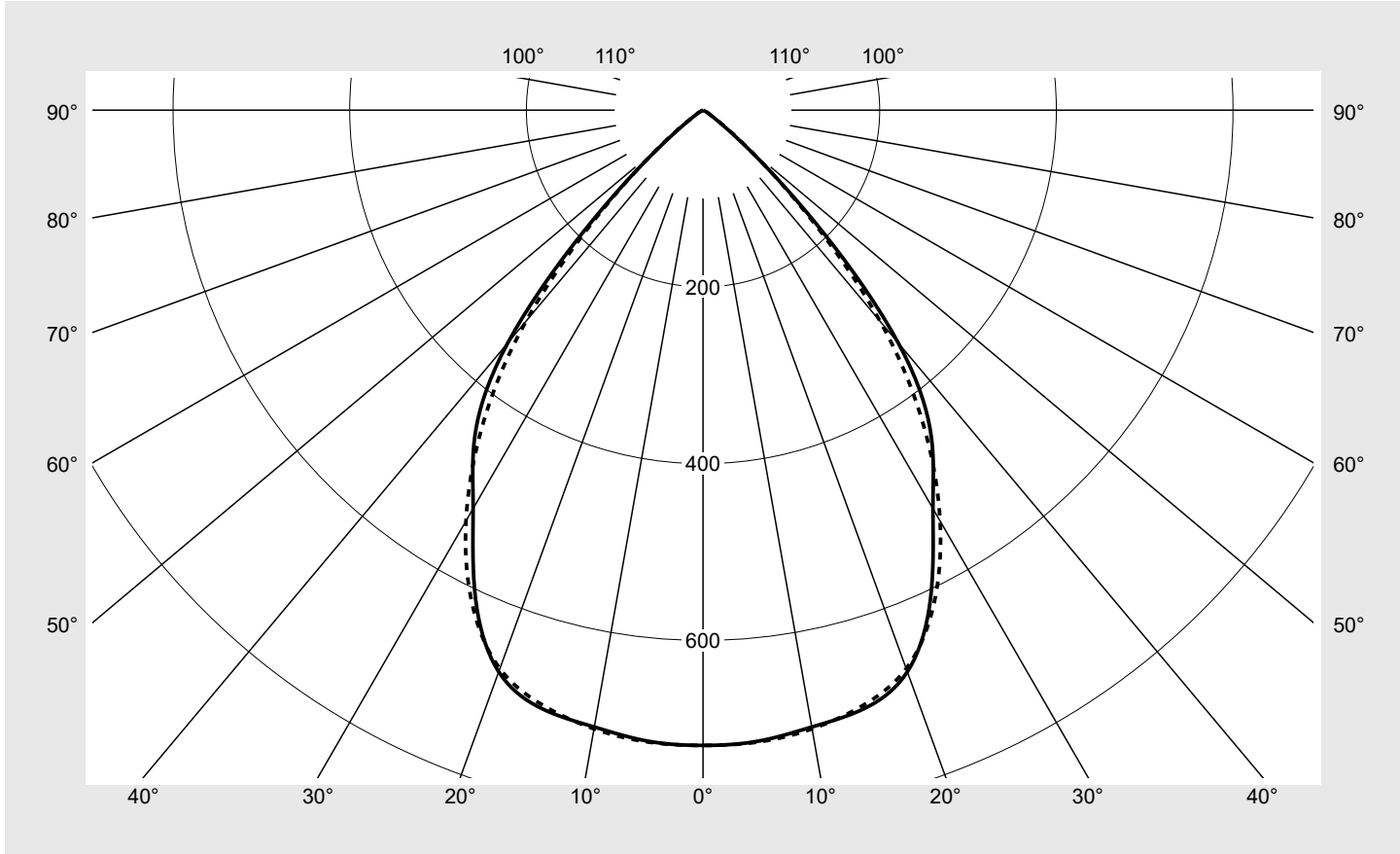


Photometric test report

Family Silica® 21	Order number: 51MX6KDU44W EAN: 4058352880982	LP number 59266_198
	Version recessed luminaire for lay-in mounting, white, square M625, reflector, black, wide distribution, UGR≤19 (L65≤1000cd/m²)	serial documentation 20.10.2023
	Lamps LED 4000 K CRI ≥ 80	
Controlgear ECG-DALI		
Rated values Net luminous flux = 4600 lm		
Power consumption = 29.6 W		
Luminous efficacy = 155.4 lm/W		

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 719 cd/klm**



Classifications	
DIN 5040	A 6 0
CIE	N1=86 N2=100 N3=100 N4=100 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	100.0%
ϕ_o	0.0%

Measurement conditions
DIN EN 13032 and DIN 5032

Photometric test report

Family Silica® 21	Order number: 51MX6KDU44W EAN: 4058352880982	LP number 59266_198
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°	718.8	718.8	718.8	718.8	718.8	718.8	718.8	4.3	4.3
5°	716.8	715.7	712.2	716.2	717.8	715.2	717.7	34.2	38.5
10°	708.8	709.0	703.3	708.6	709.9	707.6	710.9	67.4	105.9
15°	701.5	704.3	697.3	698.3	698.8	696.7	697.6	99.2	205.1
20°	676.3	682.5	681.1	681.0	677.6	673.2	672.5	127.2	332.2
25°	609.5	618.9	627.5	636.4	634.5	625.9	617.8	145.0	477.3
30°	520.6	528.9	533.1	542.9	550.7	541.7	536.8	147.4	624.6
35°	450.5	455.7	444.2	436.3	445.0	443.0	435.2	139.8	764.4
40°	343.9	350.9	343.2	332.9	329.4	321.5	312.0	117.8	882.2
45°	178.2	185.2	190.8	192.2	186.9	176.3	167.1	71.3	953.5
50°	59.7	64.4	73.8	78.7	75.2	68.1	63.7	29.5	983.0
55°	15.6	18.5	24.7	31.2	26.2	20.2	17.4	10.3	993.3
60°	6.1	6.8	9.1	12.2	9.8	7.7	7.0	4.1	997.4
65°	2.1	2.4	3.4	4.3	3.8	3.0	2.8	1.6	999.0
70°	1.4	1.4	1.0	1.0	1.2	1.5	1.5	0.7	999.7
75°	0.3	0.4	0.3	0.4	0.4	0.5	0.4	0.2	999.9
80°	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.1	999.9
85°	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.1	1000.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0

Photometric test report

Family Silica® 21	Order number: 51MX6KDU44W EAN: 4058352880982	LP number 59266_198
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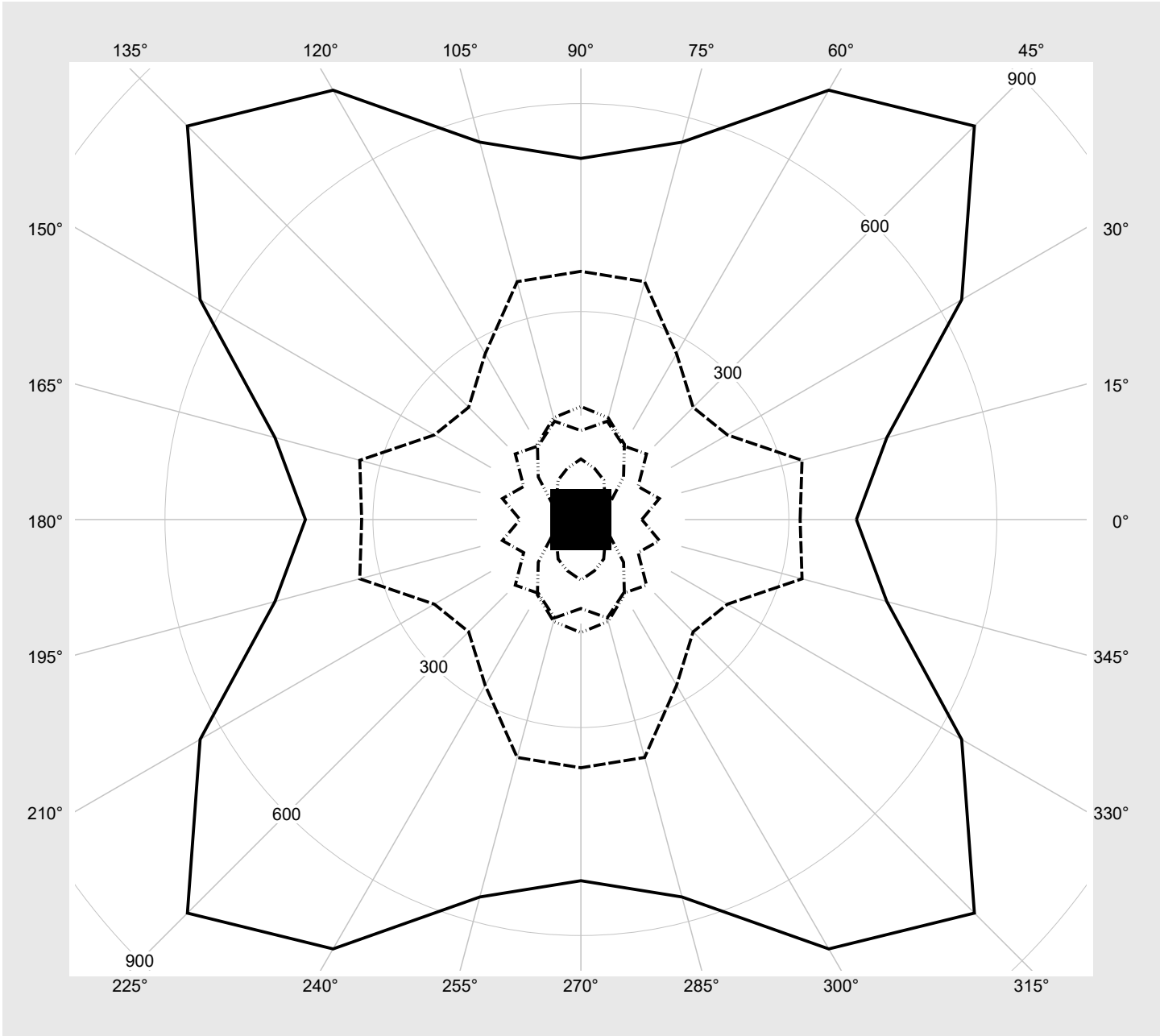
UGR-Table		Standard room									
Reflection factor of ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
Reflection factor of walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
Reflection factor of floor	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions		View crosswise (C0)					View endwise (C90)				
x	y										
2H	2H	19.3	20.5	19.6	20.9	21.2	19.1	20.4	19.4	20.7	21.0
	3H	19.1	20.2	19.5	20.6	20.9	18.9	20.1	19.3	20.4	20.8
	4H	19.1	20.1	19.5	20.4	20.8	18.9	19.9	19.3	20.3	20.6
	6H	19.0	19.9	19.4	20.3	20.7	18.8	19.7	19.2	20.1	20.5
	8H	19.0	19.8	19.5	20.2	20.6	18.9	19.7	19.3	20.1	20.5
	12H	19.0	19.7	19.4	20.1	20.6	18.8	19.6	19.3	20.0	20.4
4H	2H	19.1	20.1	19.5	20.5	20.8	18.9	19.9	19.3	20.3	20.7
	3H	18.9	19.8	19.3	20.2	20.6	18.7	19.6	19.2	20.0	20.4
	4H	18.8	19.6	19.3	20.0	20.4	18.7	19.4	19.1	19.8	20.3
	6H	18.7	19.4	19.2	19.8	20.3	18.6	19.2	19.0	19.6	20.1
	8H	18.7	19.3	19.2	19.7	20.2	18.5	19.1	19.0	19.6	20.0
	12H	18.7	19.2	19.2	19.6	20.1	18.5	19.0	19.0	19.5	20.0
8H	4H	18.7	19.3	19.2	19.7	20.2	18.5	19.1	19.0	19.6	20.0
	6H	18.6	19.1	19.1	19.5	20.1	18.4	18.9	18.9	19.4	19.9
	8H	18.5	19.0	19.1	19.4	20.0	18.4	18.8	18.9	19.3	19.8
	12H	18.5	18.8	19.0	19.3	19.9	18.3	18.7	18.9	19.2	19.7
12H	4H	18.7	19.2	19.2	19.6	20.1	18.5	19.0	19.0	19.5	20.0
	6H	18.6	19.0	19.1	19.4	20.0	18.4	18.8	18.9	19.3	19.8
	8H	18.5	18.8	19.0	19.3	19.9	18.3	18.7	18.9	19.2	19.7

Luminance table		Max. for $\gamma \geq 65^\circ$							Photometric dimensions in mm:	
									L = 294	B = 196
C-planes	γ	0°	15°	30°	45°	60°	75°	90°		
		180°	165°	150°	135°	120°	105°		270°	
		195°	210°	225°	240°	255°	270°			
		345°	330°	315°	300°	285°				
		Luminance in cd/m ²								
45°		20118.4	20912.3	21535.7	21699.5	21100.8	19897.6	18867.6		
50°		7419.0	8002.9	9160.5	9769.5	9333.9	8459.8	7916.6		
55°		2172.4	2572.8	3432.3	4346.6	3644.2	2815.2	2422.4		
60°		973.7	1088.5	1459.6	1947.3	1570.7	1229.0	1112.3		
65°		397.4	456.9	634.3	802.8	715.1	563.6	521.0		
70°		316.3	330.3	244.1	229.0	276.1	355.2	358.0		
75°		87.9	117.2	95.3	133.9	122.8	146.8	128.3		
80°		22.1	22.1	32.6	49.2	65.7	76.3	87.3		
85°		22.0	38.5	48.5	87.0	125.5	152.0	163.0		

Photometric test report

Family Silica® 21	Order number: 51MX6KDU44W EAN: 4058352880982	LP number 59266_198
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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**



Photometric test report

Family Silica® 21	Order number: 51MX6KDU44W EAN: 4058352880982	LP number 59266_198
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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	4600	29.6
95	240	252	4367	28.0
90	227	250	4148	26.6
85	213	248	3910	25.0
80	200	245	3686	23.5
75	186	243	3443	22.0
70	173	240	3216	20.6
65	160	237	2985	19.1
60	147	234	2754	17.7
55	135	231	2537	16.3
50	122	227	2300	15.0
45	109	223	2062	13.5
40	97	219	1841	12.0
35	85	214	1617	10.7
30	72	208	1373	9.3
25	60	201	1147	8.1
20	48	193	918	6.7
15	36	182	689	5.4
10	24	168	457	4.2
5	12	142	224	2.9
2	5	110	88	2.1