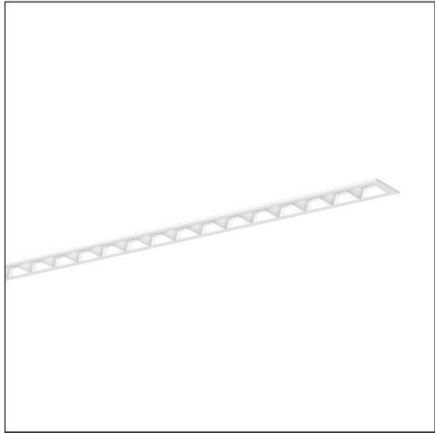
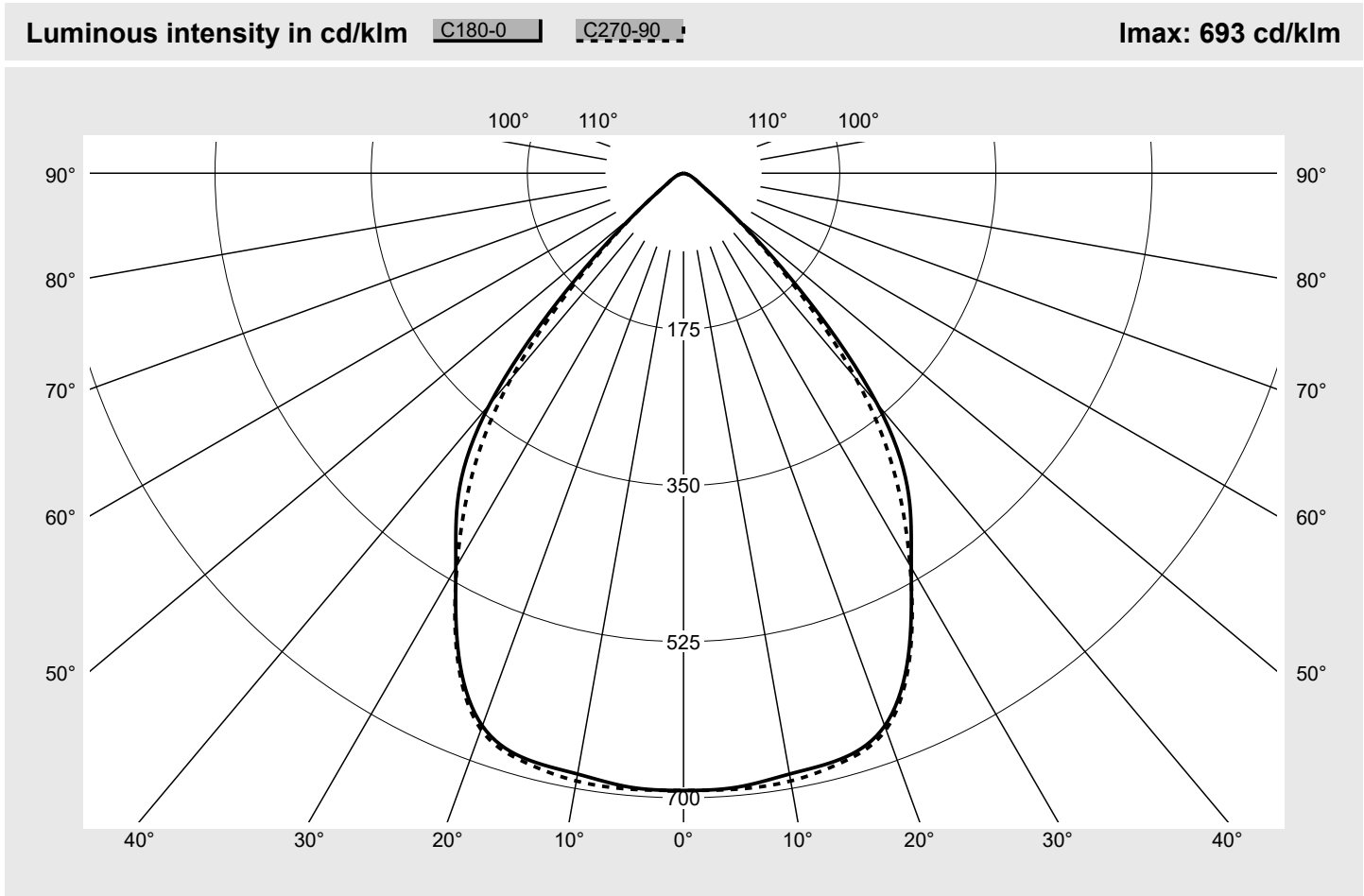


Photometric test report

Family Silica® 21	Order number: 51MX16DA44WB EAN: 4058352907597	LP number 59267_289
	Version	recessed luminaire, reflector, white, direct distribution, wide distribution, UGR≤19 (L65≤3000cd/m²)
	Lamps	LED 4000 K CRI ≥ 80
	Controlgear	ECG-DALI
	Rated values	Net luminous flux = 4320 lm Power consumption = 23.4 W Luminous efficacy = 184.6 lm/W
		serial documentation 17.12.2024
		siteco



Classifications		Luminaire light output ratios	
DIN 5040	A 6 0	η_{LB}	100.0%
CIE	N1=83 N2=98 N3=100	ϕ_u	100.0%
	N4=100 N5=100	ϕ_o	0.0%

Measurement conditions
DIN EN 13032 and DIN 5032

Photometric test report

Family Silica® 21	Order number: 51MX16DA44WB EAN: 4058352907597	LP number 59267_289
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°	691.8	691.8	691.8	691.8	691.8	691.8	691.8	4.1	4.1
5°	690.7	689.7	686.1	690.3	692.9	690.5	692.9	33.0	37.1
10°	683.8	683.7	680.0	686.1	689.1	688.2	691.7	65.3	102.4
15°	679.8	682.8	679.6	683.5	685.2	682.6	683.9	96.8	199.2
20°	659.2	666.3	668.8	670.3	667.9	663.4	663.6	124.9	324.1
25°	596.3	606.7	617.7	624.9	617.5	607.1	599.6	141.8	465.9
30°	510.4	519.4	522.0	521.4	520.1	511.7	507.7	141.8	607.7
35°	439.7	447.6	431.3	414.6	422.9	421.6	413.2	134.4	742.1
40°	337.7	347.1	337.5	327.0	327.2	315.0	300.9	115.9	857.9
45°	183.5	191.6	192.8	192.4	185.5	172.4	164.1	71.6	929.5
50°	72.2	76.5	81.6	85.0	79.2	72.7	70.3	32.6	962.2
55°	28.9	31.6	36.0	41.5	36.6	30.9	28.5	15.4	977.5
60°	17.8	18.8	20.5	22.6	20.4	18.4	17.4	9.4	986.9
65°	11.5	12.0	12.6	12.8	12.4	11.7	11.3	6.0	992.9
70°	7.8	8.1	7.5	7.2	7.4	7.8	7.7	3.9	996.9
75°	3.2	3.4	3.7	3.8	3.8	3.6	3.3	1.9	998.8
80°	1.5	1.5	1.5	1.6	1.6	1.6	1.6	0.8	999.6
85°	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.4	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: 51MX16DA44WB EAN: 4058352907597	LP number 59267_289
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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	19.2	20.5	19.5	20.8	21.1	18.8	20.1	19.2	20.4	20.8	
	3H	19.1	20.2	19.5	20.6	20.9	18.7	19.9	19.1	20.2	20.6	
	4H	19.0	20.1	19.4	20.4	20.8	18.7	19.8	19.1	20.1	20.5	
	6H	19.0	19.9	19.4	20.3	20.7	18.6	19.6	19.1	20.0	20.4	
	8H	19.0	19.9	19.5	20.2	20.6	18.7	19.5	19.1	19.9	20.3	
	12H	19.0	19.8	19.4	20.2	20.6	18.7	19.4	19.1	19.8	20.2	
4H	2H	19.0	20.1	19.4	20.4	20.8	18.7	19.7	19.1	20.1	20.5	
	3H	19.0	19.8	19.4	20.2	20.6	18.6	19.5	19.1	19.9	20.3	
	4H	18.9	19.7	19.3	20.1	20.5	18.6	19.3	19.0	19.8	20.2	
	6H	18.8	19.5	19.3	19.9	20.4	18.5	19.2	19.0	19.6	20.1	
	8H	18.8	19.4	19.3	19.8	20.3	18.5	19.1	18.9	19.5	20.0	
	12H	18.8	19.3	19.3	19.7	20.2	18.5	19.0	19.0	19.4	19.9	
8H	4H	18.8	19.4	19.3	19.8	20.3	18.5	19.1	18.9	19.5	20.0	
	6H	18.7	19.2	19.2	19.7	20.2	18.4	18.9	18.9	19.3	19.9	
	8H	18.7	19.1	19.2	19.6	20.1	18.3	18.8	18.8	19.3	19.8	
	12H	18.6	19.0	19.2	19.5	20.0	18.3	18.7	18.8	19.2	19.7	
12H	4H	18.8	19.3	19.3	19.7	20.2	18.5	19.0	19.0	19.4	19.9	
	6H	18.7	19.1	19.2	19.6	20.1	18.4	18.8	18.9	19.2	19.8	
	8H	18.6	19.0	19.2	19.5	20.0	18.3	18.7	18.8	19.2	19.7	

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°	19452.8	20315.3	20437.6	20402.6	19662.5	18275.0	17396.7
50°	8421.2	8918.7	9514.3	9918.7	9238.0	8480.2	8204.5
55°	3783.2	4132.5	4709.4	5424.9	4781.9	4042.7	3721.5
60°	2665.3	2812.8	3074.2	3383.2	3063.4	2762.6	2614.2
65°	2041.8	2125.7	2242.6	2265.1	2195.7	2077.8	2006.6
70°	1720.5	1771.1	1648.1	1580.8	1614.6	1716.9	1691.5
75°	917.1	996.7	1066.8	1114.6	1106.5	1039.6	964.8
80°	635.9	648.0	667.0	671.8	692.9	707.2	702.4
85°	567.7	567.7	586.6	605.6	643.4	676.1	671.8

Photometric test report

Family
Silica® 21

Order number: 51MX16DA44WB
EAN: 4058352907597

LP number
59267_289

Luminance values in cd/m²

γ 65°

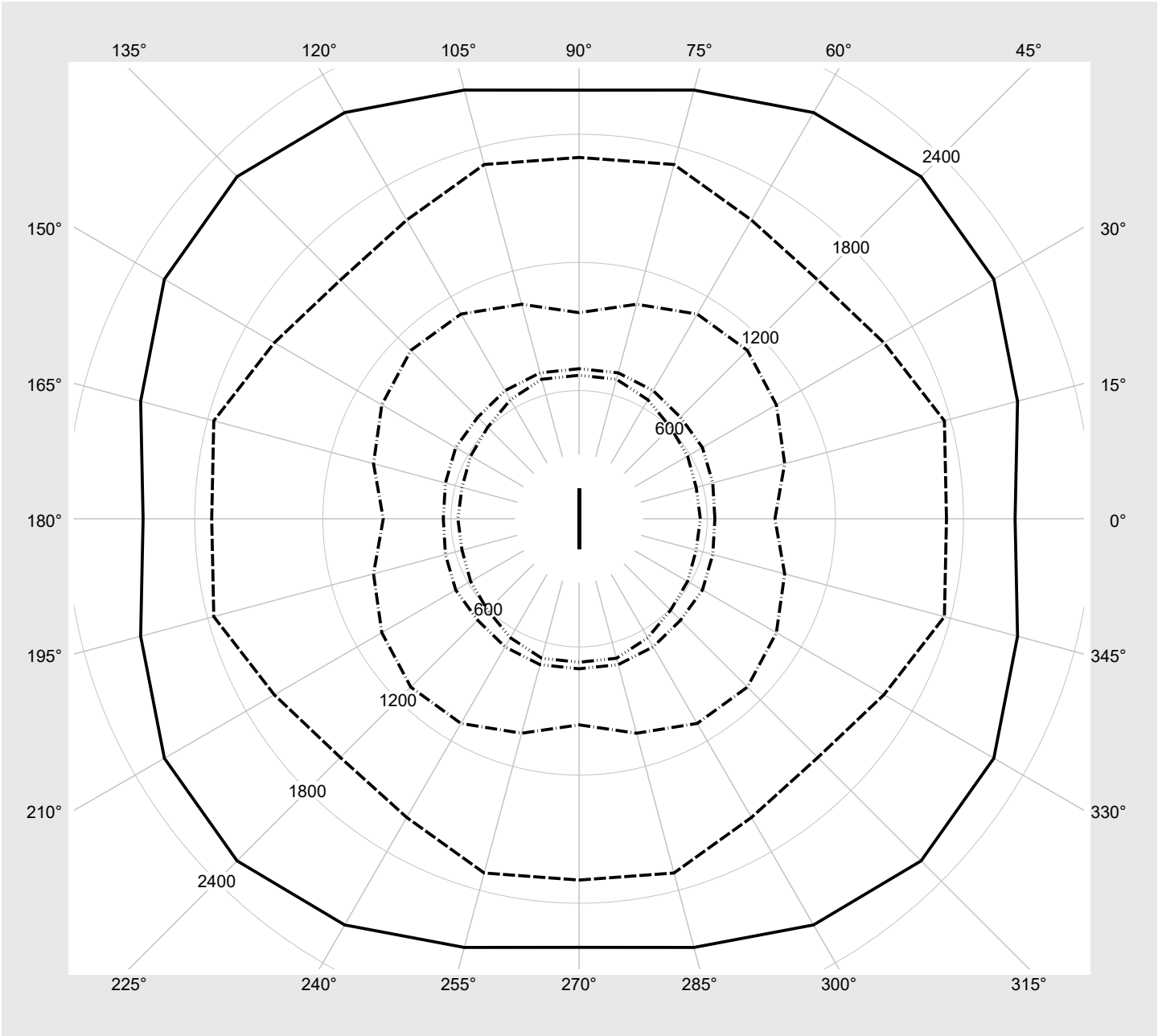
γ 70°

γ 75°

γ 80°

γ 85°

siteco



Photometric test report

Family Silica® 21	Order number: 51MX16DA44WB EAN: 4058352907597	LP number 59267_289
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	4320	23.4
95	241	252	4111	22.2
90	227	250	3883	20.9
85	214	248	3671	19.7
80	201	245	3457	18.5
75	188	243	3242	17.3
70	175	240	3025	16.1
65	162	238	2808	15.0
60	149	234	2587	13.8
55	137	231	2384	12.7
50	124	228	2162	11.5
45	111	224	1939	10.3
40	99	219	1733	9.3
35	86	214	1508	8.2
30	74	209	1299	7.1
25	62	202	1088	6.2
20	49	194	860	5.0
15	37	183	647	4.0
10	25	169	435	3.0
5	13	145	222	1.8
3	9	132	151	1.3