

Photometric test report

Family Silica® 21	Order number: 51MX21TBT5S EAN: 4058352687208	LP number 59274_129
	Version surface-mounted luminaire, reflector, black, direct distribution, narrow distribution, UGR≤19 (L65≤3000cd/m²), tunable white	serial documentation 03.05.2023
	Lamps LED 4000 K CRI ≥ 80	Controlgear ECG-DALI
Setting factory setting	Rated values Net luminous flux = 4650 lm Power consumption = 42.3 W Luminous efficacy = 109.9 lm/W	

Luminous intensity in cd/klm C180-0 C270-90 Imax: 1470 cd/klm



Classifications	
DIN 5040	A 7 0
CIE	N1=85 N2=99 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

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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°	1469.7	1469.7	1469.7	1469.7	1469.7	1469.7	1469.7	8.8	8.8
5°	1425.9	1423.7	1417.2	1426.5	1433.0	1431.2	1434.7	68.2	77.0
10°	1231.5	1233.2	1235.5	1249.4	1249.6	1243.0	1248.1	118.2	195.2
15°	943.7	950.9	962.6	981.4	980.5	965.2	966.6	137.0	332.2
20°	730.3	729.1	721.8	719.8	726.6	719.9	725.4	135.8	468.0
25°	554.7	552.6	536.3	523.0	531.2	537.4	545.0	124.7	592.7
30°	415.7	413.6	392.8	386.6	400.6	405.5	411.7	110.2	702.9
35°	297.0	298.7	284.3	282.2	303.6	308.4	303.5	93.1	796.0
40°	200.5	204.3	201.1	204.4	221.4	223.2	217.2	74.2	870.2
45°	125.8	129.2	131.9	140.1	150.2	148.5	143.7	53.9	924.1
50°	74.7	77.5	82.6	89.5	95.9	91.3	86.7	36.2	960.3
55°	42.1	44.5	49.0	54.2	57.0	52.1	48.8	22.6	982.9
60°	13.9	17.2	26.8	30.8	30.6	21.8	18.2	11.3	994.3
65°	4.2	5.3	8.3	15.7	9.7	6.0	5.5	4.1	998.4
70°	1.8	1.9	1.6	3.1	2.1	2.4	2.5	1.1	999.6
75°	0.4	0.5	0.5	0.7	0.7	0.7	0.5	0.3	999.9
80°	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	999.9
85°	0.1	0.1	0.1	0.1	0.2	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

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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	16.6	17.9	17.0	18.2	18.5	17.2	18.5	17.6	18.8	19.1
	3H	16.5	17.6	16.9	17.9	18.3	17.1	18.2	17.5	18.5	18.9
	4H	16.4	17.4	16.8	17.8	18.1	17.0	18.0	17.4	18.4	18.8
	6H	16.4	17.2	16.8	17.6	18.0	17.0	17.9	17.4	18.2	18.6
	8H	16.4	17.2	16.8	17.5	18.0	17.0	17.8	17.5	18.2	18.6
	12H	16.4	17.1	16.8	17.5	17.9	17.0	17.7	17.4	18.1	18.5
4H	2H	16.6	17.6	17.0	17.9	18.3	17.2	18.2	17.6	18.5	18.9
	3H	16.4	17.3	16.9	17.6	18.1	17.0	17.8	17.5	18.2	18.6
	4H	16.4	17.1	16.8	17.5	17.9	16.9	17.6	17.4	18.1	18.5
	6H	16.3	16.9	16.7	17.3	17.8	16.9	17.5	17.3	17.9	18.4
	8H	16.2	16.8	16.7	17.2	17.7	16.8	17.3	17.3	17.8	18.3
	12H	16.2	16.7	16.7	17.1	17.6	16.8	17.2	17.3	17.7	18.2
8H	4H	16.2	16.8	16.7	17.2	17.7	16.8	17.3	17.3	17.8	18.3
	6H	16.1	16.6	16.6	17.0	17.5	16.7	17.1	17.2	17.6	18.1
	8H	16.1	16.4	16.6	16.9	17.5	16.6	17.0	17.1	17.5	18.0
	12H	16.0	16.3	16.6	16.8	17.4	16.6	16.9	17.1	17.4	18.0
12H	4H	16.2	16.7	16.7	17.1	17.6	16.8	17.2	17.3	17.7	18.2
	6H	16.1	16.4	16.6	16.9	17.5	16.7	17.0	17.2	17.5	18.0
	8H	16.0	16.3	16.6	16.8	17.4	16.6	16.9	17.1	17.4	18.0

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1470
			B = 49

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°		11481.0	11794.1	12044.7	12792.5	13711.6	13561.9	13115.7	
50°		7504.0	7783.0	8297.8	8984.0	9628.1	9169.6	8703.1	
55°		4738.3	5006.9	5511.6	6098.8	6410.3	5861.2	5487.0	
60°		1797.5	2215.8	3464.6	3982.0	3945.0	2813.8	2344.9	
65°		640.5	811.4	1274.4	2400.2	1484.8	922.2	835.6	
70°		339.9	362.4	307.5	581.0	394.9	457.7	476.6	
75°		90.3	126.0	123.7	164.1	164.1	162.9	133.2	
80°		32.0	35.3	42.4	51.3	63.9	78.1	78.1	
85°		56.3	56.3	70.4	88.1	112.6	134.1	148.1	

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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85°

