

Photometric test report

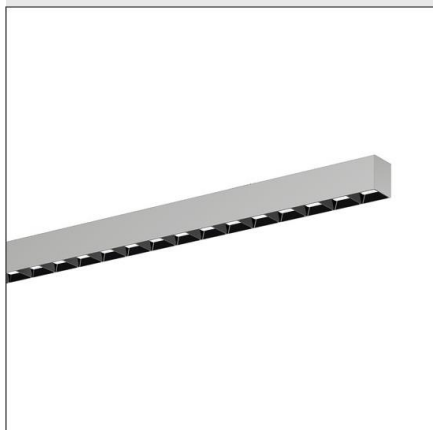
Family
Silica® 21

Order number: **51MX24TAT4S**
EAN: **4058352687376**

LP number
59276_119

serial
documentation
03.05.2023

siteco



Version surface-mounted luminaire, reflector, black,
direct distribution, asymmetric distribution,
tunable white

Lamps LED 2700 K | CRI ≥ 80

Controlgear ECG-DALI

Setting individual position

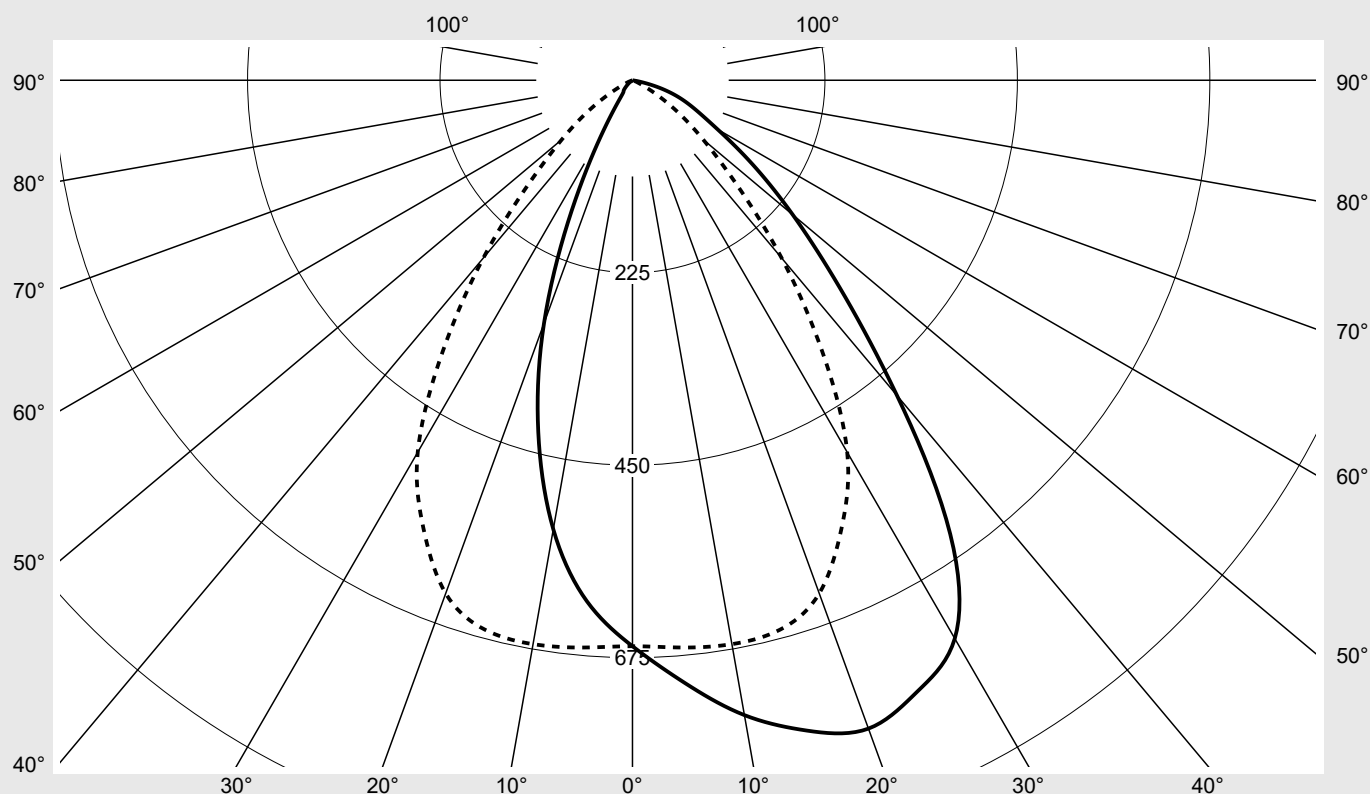
Rated values Net luminous flux = 3280 lm
Power consumption = 36.9 W
Luminous efficacy = 88.9 lm/W

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 826 cd/klm



Classifications

DIN 5040 A 6 0
CIE N1=74 N2=94 N3=99
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	0°	15° 345°	30° 330°	45° 315°	60° 300°	75° 285°	90° 270°
γ	Luminous intensity in cd/klm						
0°	661.7	661.7	661.7	661.7	661.7	661.7	661.7
5°	707.6	708.8	701.1	699.3	690.5	675.5	665.7
10°	753.6	757.8	748.0	742.6	724.7	696.1	669.4
15°	787.1	797.8	794.5	785.9	757.5	712.8	665.2
20°	806.6	820.5	826.5	809.8	762.2	699.9	638.5
25°	788.4	808.5	803.3	771.2	718.7	652.8	578.2
30°	753.6	764.4	743.7	689.2	630.6	560.4	502.1
35°	647.7	641.5	628.6	587.6	522.2	450.6	386.5
40°	481.1	487.8	495.5	479.3	412.9	335.0	271.3
45°	342.4	353.2	375.0	376.0	318.8	233.5	172.1
50°	244.7	248.8	274.8	282.8	235.7	157.9	107.9
55°	171.3	177.5	199.4	208.0	176.1	105.7	63.9
60°	115.1	122.4	144.6	155.8	127.0	61.7	29.2
65°	81.5	86.1	102.4	113.9	84.3	29.7	9.5
70°	56.7	63.4	75.3	76.6	47.3	14.7	3.6
75°	29.5	36.2	51.5	39.1	25.8	8.2	1.2
80°	5.4	7.7	15.3	17.0	11.4	3.4	0.5
85°	1.1	1.3	2.4	2.3	0.8	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Family Silica® 21	Order number: 51MX24TAT4S EAN: 4058352687376	LP number 59276_119
Table of values for luminous intensities		Maximum luminous intensity
		siteco

C- planes	105° 255°	120° 240°	135° 225°	150° 210°	165° 195°	180°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm						Luminous flux in lm/klm	
0°	661.7	661.7	661.7	661.7	661.7	661.7	4.0	4.0
5°	650.2	639.3	625.2	613.2	610.8	611.4	31.6	35.6
10°	635.2	606.4	576.8	550.6	537.8	533.0	62.6	98.1
15°	612.2	559.4	505.1	459.9	436.0	425.6	90.9	189.1
20°	565.1	489.6	412.9	351.3	314.5	302.5	113.2	302.3
25°	497.5	409.8	322.4	247.7	191.9	168.1	125.1	427.4
30°	412.4	312.9	216.8	129.1	80.3	67.5	124.5	551.9
35°	304.3	218.0	125.8	57.5	28.2	23.1	112.3	664.2
40°	195.6	132.8	62.5	24.4	17.4	16.1	92.9	757.1
45°	117.9	72.0	27.4	15.9	12.0	11.0	72.7	829.8
50°	70.5	38.1	14.7	10.4	7.3	6.2	55.1	884.8
55°	41.0	19.6	9.0	6.3	3.7	3.2	41.1	925.9
60°	17.5	9.3	5.4	3.7	2.8	2.3	29.2	955.1
65°	5.6	4.4	3.2	2.6	1.9	1.3	20.1	975.2
70°	2.1	2.0	1.8	1.4	1.0	0.6	13.6	988.8
75°	0.8	0.9	0.9	0.8	0.6	0.5	8.0	996.8
80°	0.5	0.5	0.5	0.5	0.4	0.4	2.7	999.5
85°	0.4	0.4	0.4	0.4	0.3	0.3	0.5	1000.0
90°	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	1000.0
100°	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	1000.0
110°	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	1000.0
120°	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	1000.0
130°	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	1000.0
140°	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	1000.0
150°	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	1000.0
160°	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	1000.0
170°	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	1000.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0

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Family Silica® 21			Order number: 51MX24TAT4S EAN: 4058352687376							LP number 59276_119	
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	23.8	25.2	24.1	25.5	25.8	19.7	21.1	20.0	21.4	21.7
	3H	24.3	25.5	24.7	25.9	26.2	19.6	20.9	20.0	21.2	21.6
	4H	24.4	25.6	24.8	25.9	26.3	19.6	20.7	20.0	21.1	21.4
	6H	24.4	25.5	24.8	25.8	26.2	19.5	20.5	19.9	20.9	21.3
	8H	24.4	25.4	24.8	25.8	26.2	19.5	20.5	19.9	20.8	21.2
	12H	24.4	25.3	24.9	25.7	26.1	19.5	20.4	19.9	20.8	21.2
4H	2H	24.2	25.3	24.6	25.7	26.0	20.4	21.6	20.8	21.9	22.3
	3H	24.9	25.9	25.4	26.3	26.7	20.6	21.5	21.0	21.9	22.3
	4H	25.2	26.0	25.6	26.4	26.9	20.5	21.4	21.0	21.8	22.2
	6H	25.2	25.9	25.7	26.4	26.8	20.5	21.2	20.9	21.6	22.1
	8H	25.2	25.8	25.6	26.3	26.8	20.5	21.1	20.9	21.6	22.0
	12H	25.2	25.7	25.7	26.2	26.7	20.4	21.0	20.9	21.5	22.0
8H	4H	25.3	25.9	25.7	26.4	26.8	20.8	21.4	21.3	21.9	22.4
	6H	25.3	25.8	25.8	26.3	26.8	20.8	21.3	21.3	21.8	22.3
	8H	25.3	25.7	25.8	26.2	26.7	20.7	21.2	21.2	21.7	22.2
	12H	25.2	25.6	25.8	26.1	26.7	20.7	21.1	21.2	21.6	22.1
12H	4H	25.3	25.8	25.8	26.3	26.8	20.8	21.4	21.3	21.8	22.3
	6H	25.3	25.7	25.8	26.2	26.8	20.8	21.2	21.3	21.7	22.2
	8H	25.3	25.6	25.8	26.1	26.7	20.8	21.1	21.3	21.6	22.2

Luminance table				Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:			L = 1176 B = 49				
C-planes	0°	15° 345°	30° 330°	45° 315°	60° 300°	75° 285°	90° 270°	105° 255°	120° 240°	135° 225°	150° 210°	165° 195°	180°
γ	Luminance in cd/m²												
45°	27562.9	28428.1	30184.7	30263.3	25666.6	18797.7	13852.3	9489.8	5799.2	2204.0	1276.8	969.2	887.9
50°	21668.8	22034.2	24331.8	25043.2	20871.0	13979.9	9555.8	6242.1	3377.2	1298.8	921.0	647.9	548.0
55°	17000.6	17614.7	19791.0	20642.1	17474.7	10488.0	6337.0	4073.4	1945.7	894.2	625.9	371.6	316.8
60°	13100.4	13932.1	16460.8	17732.5	14462.4	7018.7	3324.5	1989.8	1061.7	617.9	418.9	315.1	267.0
65°	10972.2	11595.1	13794.3	15339.8	11352.4	3997.6	1276.4	758.8	589.3	437.2	343.6	252.9	172.5
70°	9442.1	10551.3	12528.0	12744.8	7864.7	2441.0	596.3	348.7	337.8	298.1	236.7	168.1	101.2
75°	6479.9	7957.8	11329.0	8595.1	5684.8	1807.3	269.8	169.6	200.6	190.9	169.6	141.0	109.7
80°	1765.2	2519.4	5028.4	5576.4	3743.7	1121.1	167.2	149.5	167.2	174.4	167.2	142.3	128.2
85°	709.3	871.9	1595.5	1509.9	510.7	226.6	205.7	241.0	262.5	269.7	255.4	220.1	198.5

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

