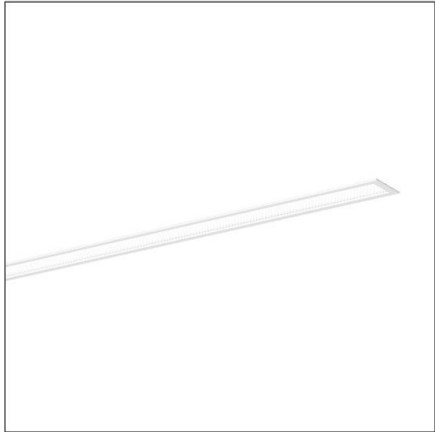
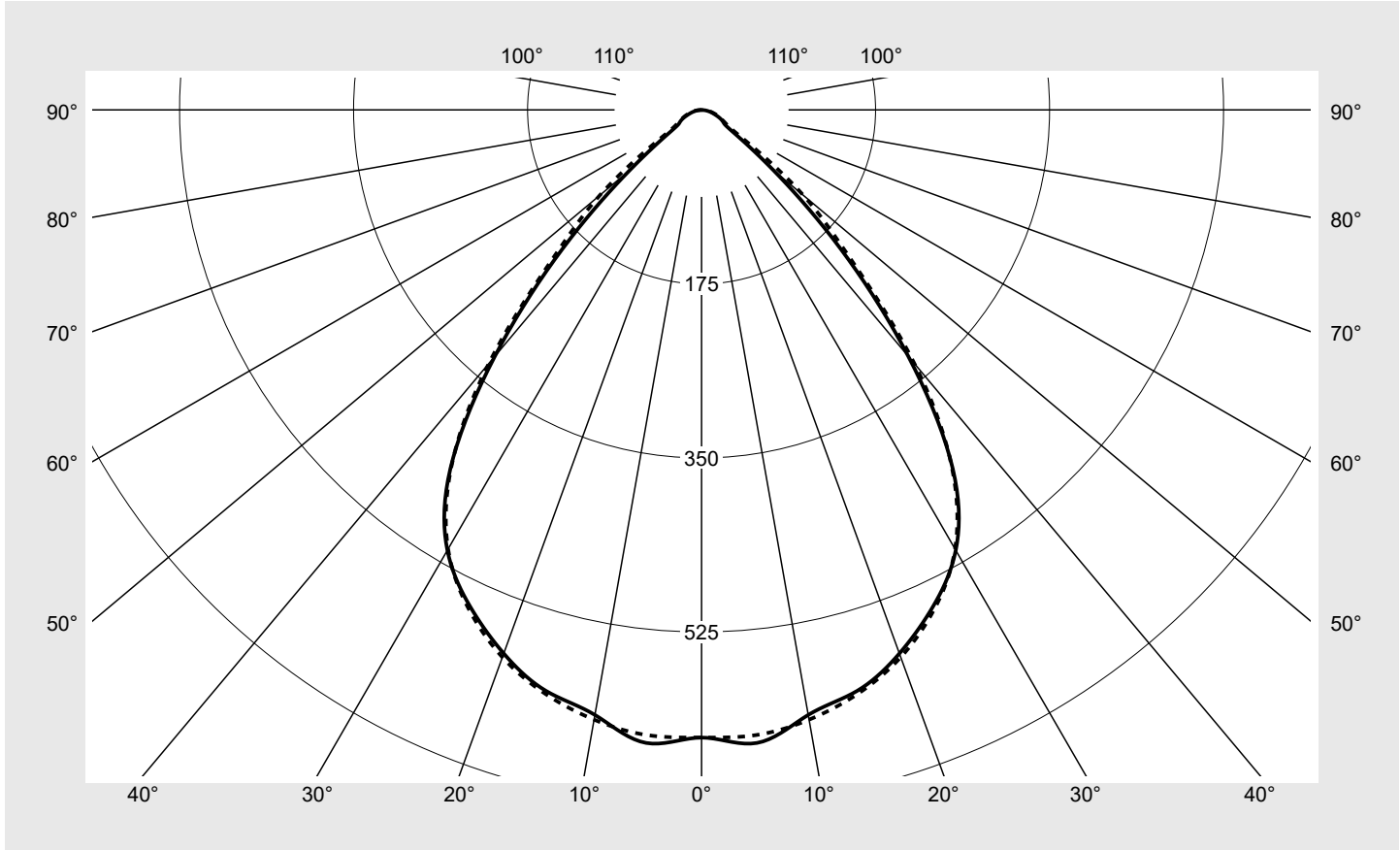


# Photometric test report

<b>Family</b> <b>Silica® 21</b>	<b>Order number: 51MX13TAT4W</b> <b>EAN: 4058352753460</b>	<b>LP number</b> <b>59330_73</b>
	<b>Version</b> recessed luminaire, with homogeneous illumination, prismatic cover, direct distribution, extremely wide distribution, UGR≤19 (L65≤3000cd/m²), tunable white	<b>serial documentation</b> <b>03.05.2023</b>
	<b>Lamps</b> LED 4000 K   CRI ≥ 80	<b>Rated values</b> Net luminous flux = 3230 lm Power consumption = 34.0 W Luminous efficacy = 95 lm/W
<b>Controlgear</b> ECG-DALI		
<b>Setting</b> factory setting		



**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 642 cd/klm**



Classifications	
DIN 5040	A 6 0
CIE	N1=78 N2=96 N3=99 N4=100 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	100.0%
$\phi_o$	0.0%

**Measurement conditions**  
 DIN EN 13032 and DIN 5032

## Photometric test report

Family <b>Silica® 21</b>	Order number: <b>51MX13TAT4W</b> EAN: <b>4058352753460</b>	LP number <b>59330_73</b>
Table of values for luminous intensities		Maximum luminous intensity
		<b>siteco</b>

C-planes $\gamma$	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°	631.2	631.2	631.2	631.2	631.2	631.2	631.2	3.8	3.8
5°	639.0	636.9	635.8	640.8	642.0	634.8	631.1	30.5	34.2
10°	617.8	615.8	612.2	616.7	624.6	629.4	622.7	59.0	93.2
15°	604.8	603.1	597.6	597.0	601.6	607.9	607.8	85.4	178.7
20°	581.7	581.2	575.6	575.6	576.2	579.7	585.7	108.5	287.2
25°	550.9	551.4	546.3	545.8	546.2	547.0	553.9	127.0	414.1
30°	511.3	512.1	506.5	506.8	506.5	506.0	509.9	139.2	553.4
35°	440.5	440.8	437.0	438.8	441.2	438.6	439.0	138.1	691.5
40°	323.4	324.8	326.1	329.4	332.6	332.8	333.0	115.9	807.4
45°	198.4	199.0	200.7	203.5	206.3	209.2	212.1	79.1	886.5
50°	93.9	108.5	122.0	111.2	100.2	119.3	133.6	47.2	933.7
55°	37.7	51.0	48.2	55.0	41.5	57.5	53.4	22.4	956.1
60°	25.5	26.5	28.2	26.2	26.1	27.8	29.0	12.8	968.9
65°	21.0	20.8	21.7	21.1	22.1	22.0	22.3	10.7	979.6
70°	15.2	15.5	16.2	16.1	16.4	16.6	17.4	8.3	987.9
75°	10.6	11.0	12.1	11.5	11.8	12.4	12.4	6.2	994.1
80°	6.4	6.8	7.5	8.1	7.5	8.4	8.5	4.1	998.3
85°	2.4	2.5	2.6	3.2	3.5	4.1	4.3	1.7	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 <b>Silica® 21</b>	Order number: <b>51MX13TAT4W</b> EAN: <b>4058352753460</b>	LP number <b>59330_73</b>
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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	18.4	19.7	18.7	20.1	20.4	18.6	20.0	18.9	20.3	20.6
	3H	18.4	19.7	18.8	20.0	20.3	18.7	19.9	19.1	20.2	20.6
	4H	18.5	19.6	18.9	20.0	20.3	18.7	19.9	19.1	20.2	20.6
	6H	18.5	19.5	18.9	19.9	20.3	18.8	19.8	19.2	20.2	20.6
	8H	18.6	19.5	19.0	19.9	20.3	18.9	19.8	19.3	20.2	20.6
	12H	18.6	19.4	19.0	19.8	20.2	18.9	19.8	19.4	20.2	20.6
4H	2H	18.3	19.4	18.7	19.8	20.1	18.5	19.6	18.9	20.0	20.4
	3H	18.4	19.4	18.9	19.8	20.2	18.7	19.6	19.1	20.0	20.4
	4H	18.5	19.4	19.0	19.8	20.2	18.8	19.6	19.2	20.0	20.5
	6H	18.6	19.3	19.1	19.8	20.2	18.9	19.6	19.4	20.1	20.5
	8H	18.6	19.3	19.1	19.7	20.2	19.0	19.6	19.5	20.1	20.6
	12H	18.7	19.2	19.2	19.7	20.2	19.1	19.6	19.6	20.1	20.6
8H	4H	18.5	19.2	19.0	19.6	20.1	18.8	19.4	19.3	19.9	20.3
	6H	18.7	19.2	19.2	19.7	20.2	19.0	19.5	19.5	20.0	20.5
	8H	18.7	19.2	19.2	19.7	20.2	19.1	19.5	19.6	20.0	20.5
	12H	18.7	19.1	19.3	19.6	20.2	19.2	19.5	19.7	20.0	20.6
12H	4H	18.5	19.1	19.0	19.5	20.0	18.8	19.3	19.3	19.8	20.3
	6H	18.7	19.1	19.2	19.6	20.1	19.0	19.4	19.5	19.9	20.4
	8H	18.7	19.1	19.3	19.6	20.2	19.1	19.5	19.6	20.0	20.5

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 1200 B = 50	
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°
$\gamma$	Luminance in cd/m <sup>2</sup>						
45°	15103.3	15152.2	15280.3	15493.5	15704.6	15929.7	16146.3
50°	7863.9	9084.5	10219.2	9316.7	8395.1	9990.0	11187.5
55°	3538.7	4785.7	4525.4	5159.6	3891.9	5393.0	5015.7
60°	2744.2	2856.9	3031.1	2815.5	2807.8	2995.8	3120.2
65°	2671.0	2653.7	2764.5	2687.3	2814.5	2800.8	2839.9
70°	2391.8	2442.2	2542.1	2530.8	2576.9	2607.1	2739.5
75°	2200.0	2280.1	2509.9	2401.5	2455.0	2575.0	2579.4
80°	1979.7	2103.4	2322.3	2525.7	2337.8	2614.0	2619.9
85°	1496.6	1518.8	1620.1	1980.9	2135.3	2509.6	2632.5

**Photometric test report**

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**Luminance values in cd/m²**

$\gamma$  65°   
   $\gamma$  70°   
   $\gamma$  75°   
   $\gamma$  80°   
   $\gamma$  85°

