

# Photometric test report

**Family**  
Silica® 21

**Order number: 51MX36DB49WB**  
**EAN: 4058352887073**

**LP number**  
59280\_78

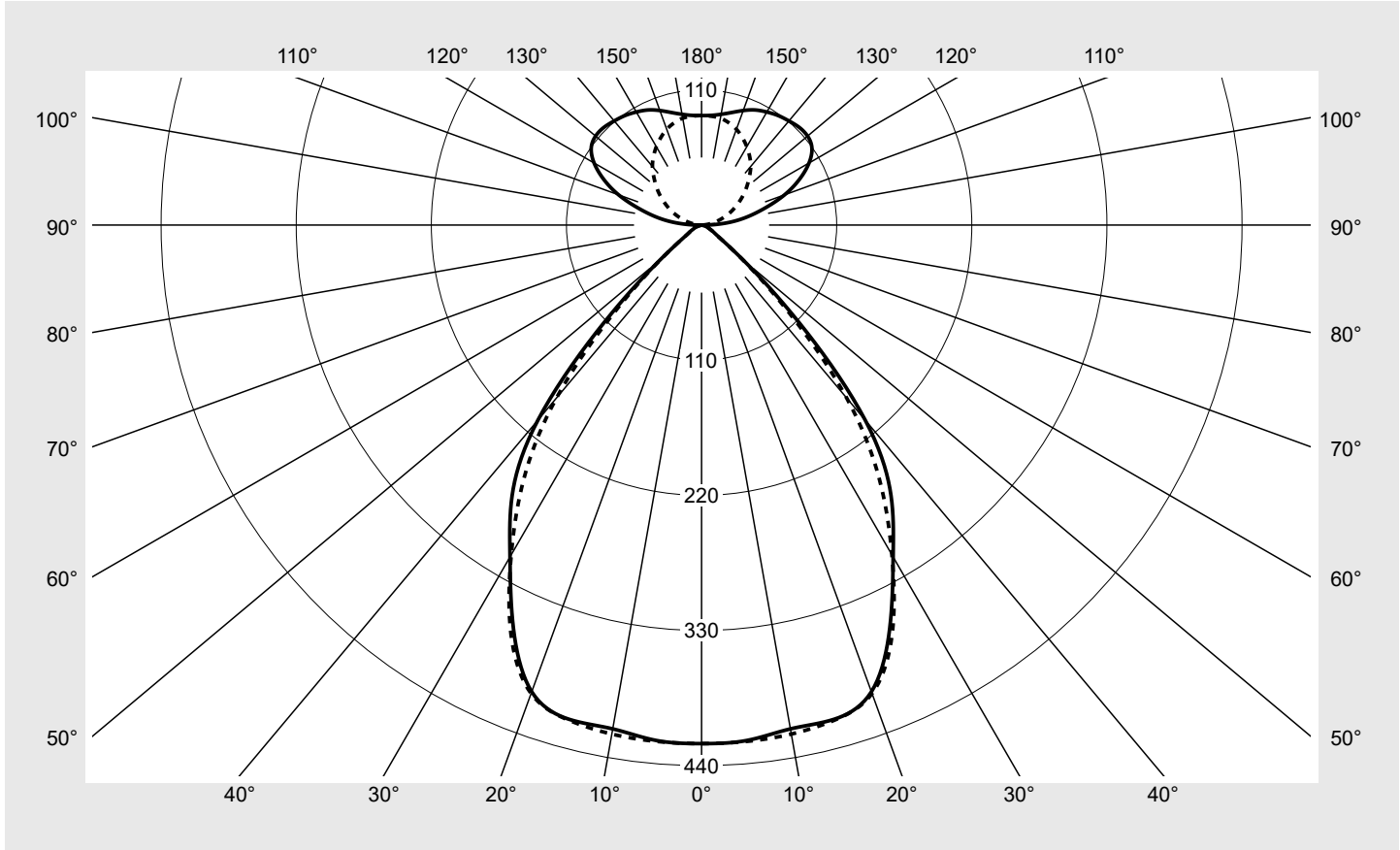


**Version** Suspended luminaire, reflector, white, direct-/indirect distribution, wide distribution, UGR≤16 (L65≤3000cd/m²)  
**Lamps** LED 4000 K | CRI ≥ 80  
**Controlgear** ECG-DALI  
**Rated values** Net luminous flux = 8830 lm  
 Power consumption = 50.4 W  
 Luminous efficacy = 175.2 lm/W

**serial documentation**  
02.08.2023



**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 422 cd/klm**



**Classifications**

DIN 5040	B 6 2
CIE	N1=83 N2=98 N3=100 N4=61 N5=100

**Luminaire light output ratios**

$\eta_{LB}$	100.0%
$\phi_u$	61.1%
$\phi_o$	38.9%

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

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<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>siteco</b>

C-planes $\gamma$	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Luminous intensity in cd/klm		Luminous flux in lm/klm	
								Phi-zone	Total Phi-zone		
0°	422.1	422.1	422.1	422.1	422.1	422.1	422.1	2.5	2.5		
5°	421.2	421.7	421.1	421.4	421.8	422.4	421.9	20.1	22.7		
10°	416.4	415.9	416.6	418.5	420.4	419.5	420.7	39.8	62.5		
15°	416.5	417.3	416.2	418.2	418.6	417.7	417.3	59.2	121.7		
20°	404.3	408.0	408.5	410.6	406.7	404.4	405.8	76.3	198.0		
25°	362.4	369.4	376.8	381.5	377.2	370.0	367.2	86.5	284.5		
30°	311.9	316.7	317.8	318.8	318.6	312.7	309.9	86.6	371.1		
35°	268.9	273.0	262.7	253.0	257.3	257.0	252.3	81.9	453.0		
40°	207.2	211.8	206.6	199.5	199.2	191.4	183.8	70.7	523.7		
45°	112.3	116.7	117.8	117.4	112.9	104.7	100.2	43.7	567.4		
50°	43.9	46.6	49.7	52.0	48.4	44.4	42.8	19.9	587.3		
55°	17.8	19.3	22.0	25.4	22.4	18.9	17.4	9.4	596.7		
60°	10.9	11.5	12.5	13.7	12.5	11.2	10.7	5.7	602.4		
65°	7.0	7.3	7.7	7.8	7.5	7.2	6.9	3.7	606.1		
70°	4.8	4.9	4.6	4.4	4.5	4.8	4.7	2.4	608.5		
75°	1.9	2.1	2.3	2.3	2.3	2.2	2.0	1.2	609.6		
80°	0.9	0.9	0.9	0.9	1.0	1.0	1.0	0.5	610.2		
85°	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.4	610.6		
90°	4.5	4.3	4.6	4.5	2.7	0.9	0.3	1.8	612.3		
95°	20.9	21.3	22.8	21.6	13.8	7.1	3.7	9.0	621.4		
100°	37.3	38.3	38.6	33.8	22.7	12.8	8.4	15.2	636.6		
105°	53.5	54.6	53.5	45.7	31.3	19.4	14.2	21.0	657.6		
110°	71.9	72.1	67.6	56.3	40.1	26.2	20.3	26.5	684.1		
115°	87.8	87.0	80.3	66.0	48.6	33.1	27.1	30.8	714.9		
120°	101.0	99.4	90.6	73.9	56.6	39.8	33.7	33.8	748.7		
125°	109.6	106.6	96.9	81.1	63.3	46.1	40.8	35.1	783.9		
130°	112.6	110.2	99.9	85.4	68.4	52.7	47.8	34.8	818.6		
135°	112.4	110.1	101.0	88.3	72.5	58.7	54.9	33.2	851.9		
140°	110.6	108.9	101.3	90.4	76.0	64.5	62.2	31.0	882.8		
145°	108.8	107.6	101.3	91.5	79.1	69.9	68.2	28.2	911.0		
150°	106.2	105.8	100.1	91.4	81.7	75.0	73.6	24.8	935.9		
155°	103.3	103.0	97.6	91.1	83.7	79.6	78.5	21.1	956.9		
160°	99.2	99.0	94.6	90.3	85.5	83.2	82.9	17.0	973.9		
165°	94.8	94.3	92.1	89.2	87.2	86.0	86.1	12.8	986.7		
170°	91.5	91.1	90.5	89.3	88.4	88.3	88.3	8.5	995.2		
175°	89.6	89.5	89.1	88.9	88.9	89.0	89.0	4.3	999.5		
180°	89.1	89.1	89.1	89.1	89.1	89.1	89.1	0.5	1000.0		

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<b>UGR-Table</b>	<b>Standard room</b>	<b>siteco</b>
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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	17.5	17.4	18.3	19.3	16.2	17.1	17.0	17.9	18.9
	3H	16.4	17.1	17.2	18.0	19.0	16.0	16.8	16.9	17.7	18.7
	4H	16.2	16.9	17.1	17.8	18.9	15.9	16.6	16.8	17.5	18.6
	6H	16.1	16.7	16.9	17.6	18.7	15.8	16.4	16.7	17.3	18.4
	8H	16.0	16.6	16.9	17.5	18.6	15.6	16.2	16.5	17.1	18.2
	12H	15.9	16.4	16.8	17.3	18.5	15.6	16.1	16.5	17.0	18.2
4H	2H	16.3	17.0	17.1	17.8	18.9	15.9	16.6	16.7	17.4	18.5
	3H	16.1	16.7	17.0	17.5	18.7	15.7	16.3	16.6	17.2	18.3
	4H	15.9	16.5	16.9	17.4	18.5	15.6	16.1	16.5	17.0	18.2
	6H	15.8	16.2	16.7	17.1	18.3	15.5	15.9	16.4	16.8	18.0
	8H	15.7	16.1	16.6	17.0	18.2	15.4	15.8	16.3	16.7	17.9
	12H	15.6	15.9	16.6	16.9	18.1	15.3	15.6	16.3	16.6	17.8
8H	4H	15.7	16.1	16.7	17.1	18.2	15.4	15.8	16.3	16.7	17.9
	6H	15.6	15.9	16.5	16.9	18.1	15.2	15.5	16.2	16.5	17.7
	8H	15.5	15.8	16.5	16.8	18.0	15.2	15.5	16.1	16.4	17.6
	12H	15.4	15.7	16.4	16.6	17.9	15.1	15.4	16.1	16.3	17.6
12H	4H	15.6	16.0	16.6	16.9	18.1	15.3	15.6	16.2	16.6	17.8
	6H	15.5	15.8	16.5	16.7	18.0	15.1	15.4	16.1	16.4	17.6
	8H	15.4	15.7	16.4	16.6	17.9	15.1	15.3	16.1	16.3	17.5

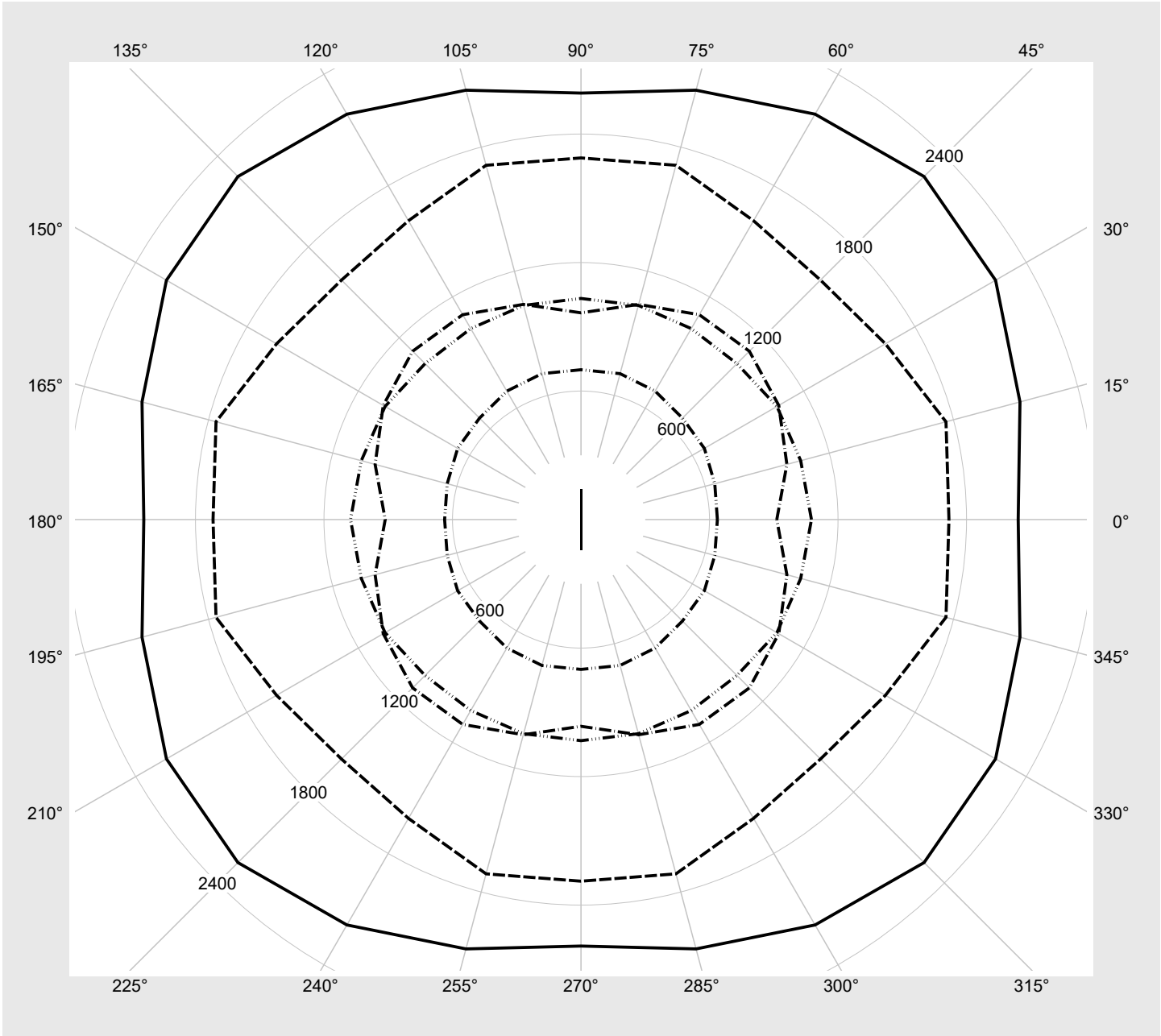
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1470</b> <b>B = 49</b>
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C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		19476.0	20224.8	20427.8	20353.4	19564.3	18150.0	17376.8	
50°		8364.9	8882.6	9475.9	9915.3	9237.4	8460.8	8161.4	
55°		3796.4	4131.7	4702.6	5428.6	4790.0	4036.8	3713.7	
60°		2668.7	2807.8	3057.1	3356.9	3059.1	2750.1	2611.9	
65°		2041.2	2121.8	2235.0	2265.1	2185.7	2075.4	1991.3	
70°		1717.9	1764.2	1641.2	1581.4	1611.1	1712.5	1688.5	
75°		914.1	995.1	1066.2	1111.6	1104.5	1040.1	965.3	
80°		636.8	646.7	665.0	670.0	692.5	705.2	699.6	
85°		1076.0	1061.9	1056.3	1029.6	1029.6	1035.2	1032.4	

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**Luminance values in cd/m<sup>2</sup>**     γ 65°   γ 70°   γ 75°   γ 80°   γ 85°     **siteco**



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<b>Dimming levels table</b>	environmental temperature: 25°C	<b>sITeco</b>
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	8830	50.4
95	241	252	8400	47.9
90	227	250	7934	45.1
85	214	248	7496	42.7
80	201	245	7057	40.2
75	188	243	6617	37.6
70	175	240	6174	35.1
65	162	238	5728	32.7
60	150	235	5314	30.4
55	137	231	4864	27.9
50	124	228	4411	25.5
45	112	224	3991	23.2
40	99	219	3534	20.7
35	86	214	3074	18.3
30	74	209	2646	16.1
25	62	202	2217	13.7
20	49	194	1752	11.3
15	37	183	1321	9.1
10	25	169	887	6.9
5	13	145	453	4.9
2	6	117	198	4.2