

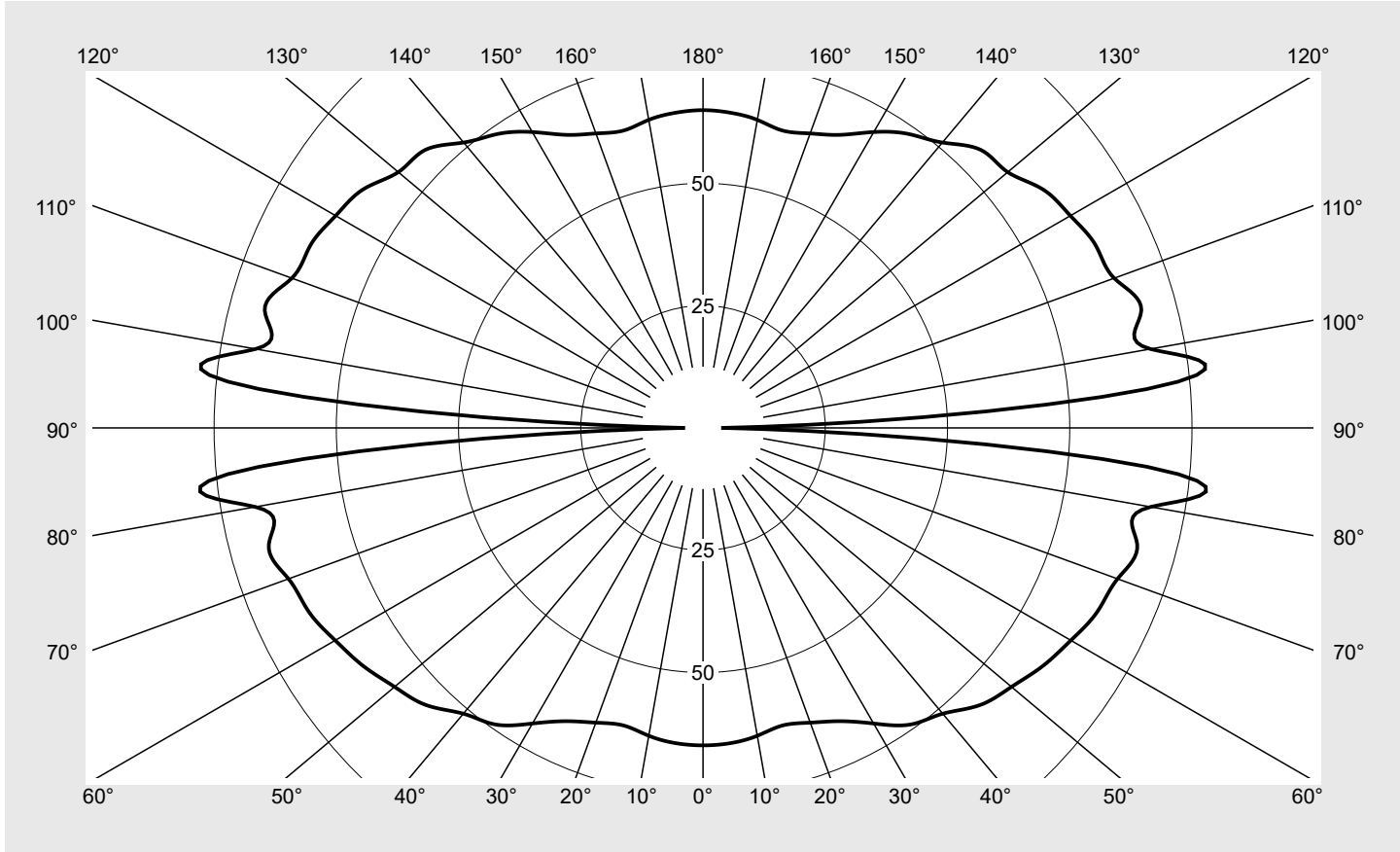


# Photometric test report

<b>Family</b> <b>Silica® 21 Ring</b>	<b>Order number: 5PJBI2D1004A</b> <b>EAN: 4058352960271</b>	<b>LP number</b> <b>59506_4</b>
	<b>Version</b> suspended luminaire incl. Pendant, white, inner ring side luminous, cover opal, polycarbonate, frosted, diffuse beam	<b>serial documentation</b> <b>08.11.2023</b>
	<b>Lamps</b> LED 3000 K   CRI ≥ 80	
	<b>Controlgear</b> ECG-DALI	
<b>Rated values</b> Net luminous flux = 4800 lm Power consumption = 80.0 W Luminous efficacy = 60 lm/W		

**Luminous intensity in cd/klm** C180-0 **Imax: 93 cd/klm**



Classifications	
DIN 5040	C 2 2
CIE	N1=22 N2=48 N3=76 N4=50 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	50.0%
$\phi_o$	50.0%

**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>
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C-planes	0°	Phi-zone	Total Phi-zone
$\gamma$	Luminous intensity in cd/klm	Luminous flux in lm/klm	
0°	64.9	0.4	0.4
5°	64.7	3.1	3.5
10°	63.9	6.1	9.6
15°	63.0	8.9	18.5
20°	64.1	12.0	30.5
25°	66.2	15.3	45.8
30°	69.8	19.1	65.0
35°	74.0	23.3	88.2
40°	76.3	26.9	115.1
45°	80.1	31.1	146.2
50°	82.4	34.6	180.7
55°	84.8	38.1	218.8
60°	86.9	41.2	260.1
65°	89.0	44.2	304.3
70°	90.2	46.5	350.7
75°	91.9	48.7	399.4
80°	93.0	50.2	449.6
85°	91.1	49.8	499.4
90°	3.7	2.0	501.4
95°	91.1	49.7	551.1
100°	92.9	50.2	601.3
105°	92.8	49.1	650.4
110°	89.5	46.1	696.5
115°	88.6	44.0	740.5
120°	86.8	41.2	781.7
125°	84.9	38.1	819.8
130°	81.3	34.2	854.0
135°	80.4	31.1	885.1
140°	76.2	26.8	912.0
145°	73.3	23.1	935.0
150°	69.8	19.1	954.2
155°	66.1	15.3	969.5
160°	64.1	12.0	981.5
165°	62.9	8.9	990.4
170°	63.9	6.1	996.5
175°	64.7	3.1	999.6
180°	65.0	0.4	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	25.9	27.1	26.7	28.0	29.1	25.9	27.1	26.7	28.0	29.1
	3H	28.6	29.6	29.4	30.5	31.7	28.6	29.6	29.4	30.5	31.7
	4H	30.0	31.0	30.9	31.9	33.1	30.0	31.0	30.9	31.9	33.1
	6H	31.4	32.3	32.3	33.3	34.5	31.4	32.3	32.3	33.3	34.5
	8H	32.1	32.9	33.0	33.9	35.1	32.1	32.9	33.0	33.9	35.1
	12H	32.8	33.6	33.7	34.5	35.8	32.8	33.6	33.7	34.5	35.8
4H	2H	26.8	27.8	27.7	28.7	29.9	26.8	27.8	27.7	28.7	29.9
	3H	29.7	30.5	30.6	31.4	32.7	29.7	30.5	30.6	31.4	32.7
	4H	31.2	32.0	32.1	32.9	34.2	31.2	32.0	32.1	32.9	34.2
	6H	32.7	33.4	33.7	34.4	35.7	32.7	33.4	33.7	34.4	35.7
	8H	33.5	34.1	34.5	35.1	36.4	33.5	34.1	34.5	35.1	36.4
	12H	34.3	34.9	35.3	35.9	37.2	34.3	34.9	35.3	35.9	37.2
8H	4H	31.7	32.3	32.7	33.3	34.6	31.7	32.3	32.7	33.3	34.6
	6H	33.5	34.0	34.5	35.0	36.3	33.5	34.0	34.5	35.0	36.3
	8H	34.5	35.0	35.5	36.0	37.3	34.5	35.0	35.5	36.0	37.3
	12H	35.4	35.8	36.4	36.9	38.2	35.4	35.8	36.4	36.9	38.2
12H	4H	31.8	32.4	32.8	33.4	34.7	31.8	32.4	32.8	33.4	34.7
	6H	33.7	34.2	34.7	35.2	36.5	33.7	34.2	34.7	35.2	36.5
	8H	34.8	35.2	35.8	36.2	37.6	34.8	35.2	35.8	36.2	37.6

<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	Photometric dimensions in mm: <b>D = 55</b>	<b>H(C0) = 48</b>	<b>H(C180) = 48</b>
			<b>H(C90) = 48</b>	<b>H(C270) = 48</b>

<b>C-planes</b>	<b>0°</b>
$\gamma$	<b>Luminance in cd/m<sup>2</sup></b>
45°	108432.6
50°	111368.6
55°	115523.0
60°	120017.2
65°	125714.6
70°	131486.0
75°	139429.5
80°	148154.7
85°	154155.5

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**Luminance values in cd/m<sup>2</sup>**

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

