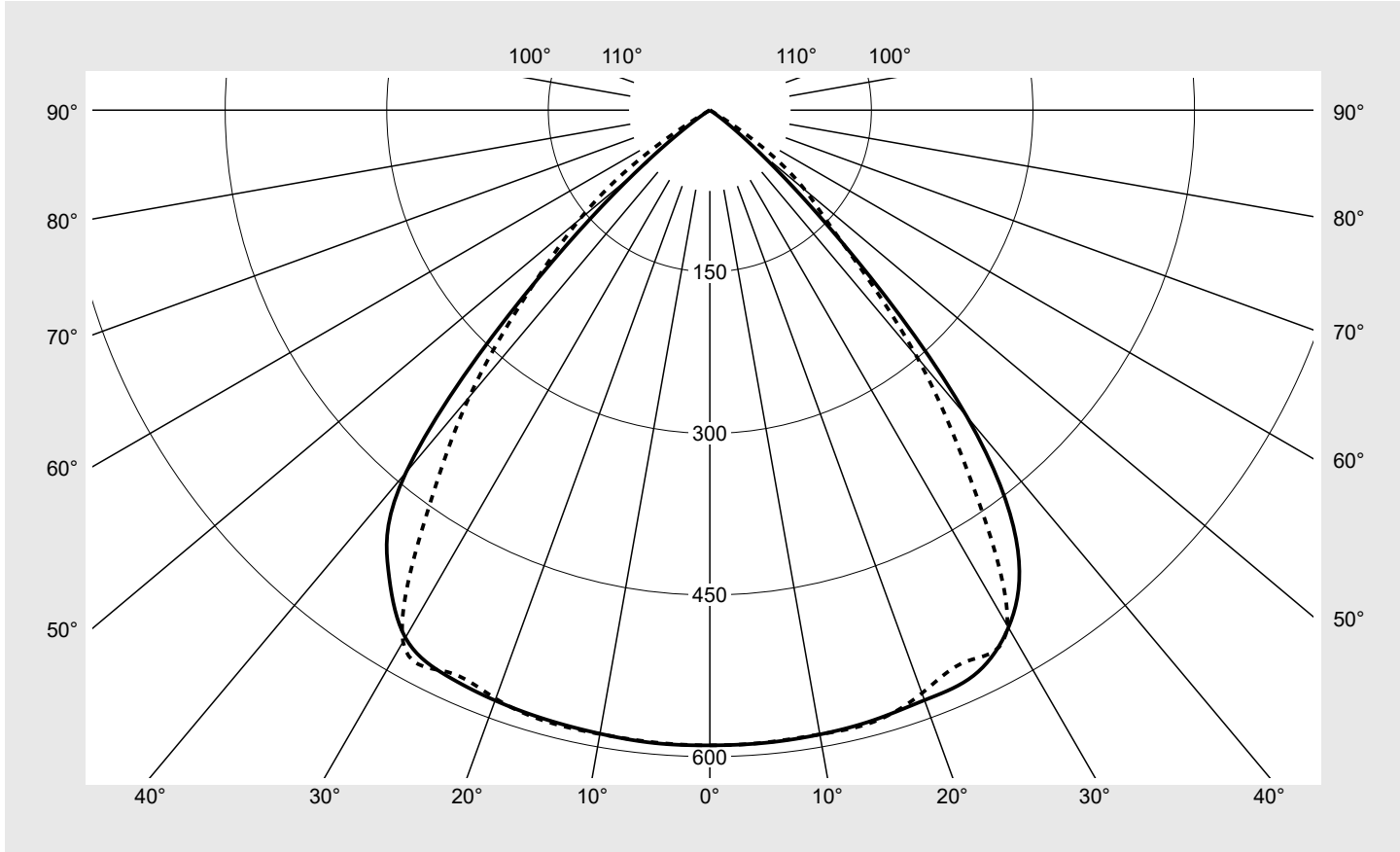


# Photometric test report

<b>Family</b> <b>Silica® 31</b>	<b>Order number: 51MY6LDU44BA</b> <b>EAN: 4069025073280</b>	<b>LP number</b> <b>59650_3</b>
	<b>Version</b>	recessed luminaire for lay-in mounting, black, square M625, reflector, black, wide distribution, UGR≤19 (L65≤1000cd/m²)
	<b>Lamps</b>	LED 4000 K   CRI ≥ 80
	<b>Controlgear</b>	ECG-DALI
	<b>Setting</b>	factory setting: DIP-Step=10
	<b>Rated values</b>	Net luminous flux = 4620 lm Power consumption = 28.0 W Luminous efficacy = 165 lm/W
		<b>serial documentation</b> 28.06.2024
		

**Luminous intensity in cd/klm**
C180-0
C270-90
Imax: 590 cd/klm



Classifications	
DIN 5040	A 6 0
CIE	N1=82 N2=100 N3=100 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

<b>Family</b> <b>Silica® 31</b>	<b>Order number: 51MY6LDU44BA</b> <b>EAN: 4069025073280</b>	<b>LP number</b> <b>59650_3</b>
<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>siteco</b>

C-planes	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°	165°	180°
$\gamma$	Luminous intensity in cd/klm												
0°	589.6	589.6	589.6	589.6	589.6	589.6	589.6	589.6	589.6	589.6	589.6	589.6	589.6
5°	589.5	589.4	589.4	589.4	589.1	588.9	589.2	589.5	589.6	589.5	589.6	589.6	589.7
10°	588.4	588.4	588.5	588.4	588.4	588.1	588.3	588.8	588.4	588.3	587.8	587.7	587.7
15°	586.3	586.7	587.2	587.4	587.7	587.1	587.8	587.6	587.9	587.6	586.9	585.8	585.7
20°	582.8	583.8	584.9	586.9	579.9	576.4	575.9	577.8	581.6	586.4	584.6	583.0	583.1
25°	579.2	579.2	581.5	570.2	565.1	564.1	564.4	566.6	567.6	571.7	580.2	577.6	579.0
30°	554.5	553.6	560.9	539.2	545.9	549.7	552.3	555.3	547.8	540.2	561.0	561.0	565.4
35°	498.6	485.5	470.2	482.4	488.3	439.7	426.4	444.7	494.0	488.0	493.6	513.1	520.6
40°	371.4	369.8	347.4	366.4	347.6	303.2	299.4	314.1	345.6	402.6	363.9	402.3	438.8
45°	173.6	197.8	191.8	230.8	196.6	169.1	173.7	176.6	203.2	230.1	209.2	207.7	245.6
50°	53.2	68.1	63.9	99.8	75.7	99.3	115.6	109.0	73.3	118.0	90.8	77.6	91.9
55°	8.2	12.8	28.5	28.3	40.6	53.2	58.3	56.6	44.0	28.5	31.6	22.9	17.4
60°	0.5	1.7	6.4	13.2	16.3	8.1	0.6	8.4	15.6	16.0	11.1	2.3	1.9
65°	0.1	0.1	0.3	4.4	0.5	0.4	0.4	0.4	0.6	4.7	0.6	0.2	0.2
70°	0.1	0.1	0.1	0.1	0.3	0.2	0.2	0.3	0.4	0.2	0.1	0.1	0.1
75°	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1
80°	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.0	0.0	0.0	0.0	0.0	0.0

## Photometric test report

<b>Family</b> <b>Silica® 31</b>	<b>Order number: 51MY6LDU44BA</b> <b>EAN: 4069025073280</b>	<b>LP number</b> <b>59650_3</b>
<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>sITeco</b>

C-planes	195°	210°	225°	240°	255°	270°	285°	300°	315°	330°	345°	Phi-zone	Total Phi-zone
$\gamma$	Luminous intensity in cd/klm											Luminous flux in lm/klm	
0°	589.6	589.6	589.6	589.6	589.6	589.6	589.6	589.6	589.6	589.6	589.6	3.5	3.5
5°	589.5	589.3	589.3	589.4	589.3	589.1	588.8	589.2	589.5	589.5	589.5	28.2	31.7
10°	587.5	587.5	587.8	587.7	588.4	588.0	588.4	588.9	588.9	588.9	588.7	56.0	87.7
15°	585.8	586.7	586.7	587.0	586.5	587.4	587.6	588.6	588.4	587.7	587.0	83.3	171.0
20°	583.0	584.9	586.7	582.7	580.7	581.3	582.8	584.9	587.8	585.6	584.3	109.3	280.2
25°	578.6	581.4	576.5	573.9	573.7	575.5	576.6	575.9	575.8	582.3	578.8	133.1	413.4
30°	565.7	567.2	554.0	561.2	566.8	569.8	569.4	562.7	551.6	563.9	555.4	152.7	566.1
35°	519.1	512.8	512.1	516.7	470.5	458.8	472.3	512.1	508.2	485.7	495.3	153.4	719.5
40°	419.8	392.7	437.6	379.4	355.4	347.6	349.4	376.2	408.2	372.4	384.6	130.6	850.1
45°	224.5	235.9	266.4	242.6	230.4	237.2	228.0	224.8	263.5	221.4	214.1	83.9	934.0
50°	91.7	102.6	142.9	109.4	150.3	158.2	143.3	100.5	118.0	83.4	71.0	42.1	976.1
55°	27.0	36.0	36.8	66.0	78.6	80.0	77.1	54.2	36.8	37.9	13.2	18.2	994.3
60°	2.7	13.2	20.7	23.8	12.3	1.4	12.4	22.5	17.7	8.3	1.8	4.7	999.1
65°	0.1	1.0	6.4	1.9	1.1	1.0	1.1	1.9	6.4	0.5	0.1	0.7	999.8
70°	0.1	0.1	0.6	1.1	0.6	0.5	0.6	1.1	0.3	0.1	0.1	0.2	999.9
75°	0.0	0.0	0.1	0.3	0.1	0.0	0.1	0.3	0.0	0.0	0.0	0.0	1000.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
90°	0.0	0.0	0.0	0.0	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.0	0.0	0.0	0.0	1000.0

## Photometric test report

Family <b>Silica® 31</b>	Order number: <b>51MY6LDU44BA</b> EAN: <b>4069025073280</b>	LP number <b>59650_3</b>
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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	19.8	21.1	20.1	21.4	21.7	19.7	21.1	20.1	21.4	21.7
	3H	19.7	20.8	20.0	21.2	21.5	19.6	20.8	20.0	21.1	21.5
	4H	19.6	20.7	20.0	21.0	21.4	19.5	20.6	19.9	21.0	21.3
	6H	19.5	20.5	19.9	20.9	21.3	19.5	20.4	19.9	20.8	21.2
	8H	19.5	20.4	19.9	20.8	21.2	19.5	20.4	19.9	20.7	21.1
	12H	19.5	20.3	19.9	20.7	21.1	19.5	20.3	19.9	20.7	21.1
4H	2H	19.6	20.7	20.0	21.0	21.4	19.6	20.6	20.0	21.0	21.4
	3H	19.5	20.3	19.9	20.7	21.2	19.4	20.3	19.8	20.7	21.1
	4H	19.4	20.2	19.8	20.6	21.0	19.3	20.1	19.8	20.5	21.0
	6H	19.3	20.0	19.8	20.4	20.9	19.2	19.9	19.7	20.3	20.8
	8H	19.3	19.9	19.7	20.3	20.8	19.2	19.8	19.7	20.3	20.7
	12H	19.3	19.8	19.7	20.2	20.7	19.2	19.7	19.7	20.2	20.7
8H	4H	19.3	19.9	19.7	20.3	20.8	19.2	19.8	19.7	20.3	20.7
	6H	19.2	19.7	19.7	20.1	20.6	19.1	19.6	19.6	20.1	20.6
	8H	19.1	19.5	19.6	20.0	20.6	19.1	19.5	19.6	20.0	20.5
	12H	19.1	19.4	19.6	19.9	20.5	19.0	19.4	19.5	19.9	20.4
12H	4H	19.3	19.8	19.7	20.2	20.7	19.2	19.7	19.7	20.2	20.7
	6H	19.1	19.5	19.7	20.0	20.6	19.1	19.5	19.6	20.0	20.5
	8H	19.1	19.4	19.6	19.9	20.5	19.0	19.4	19.5	19.9	20.4

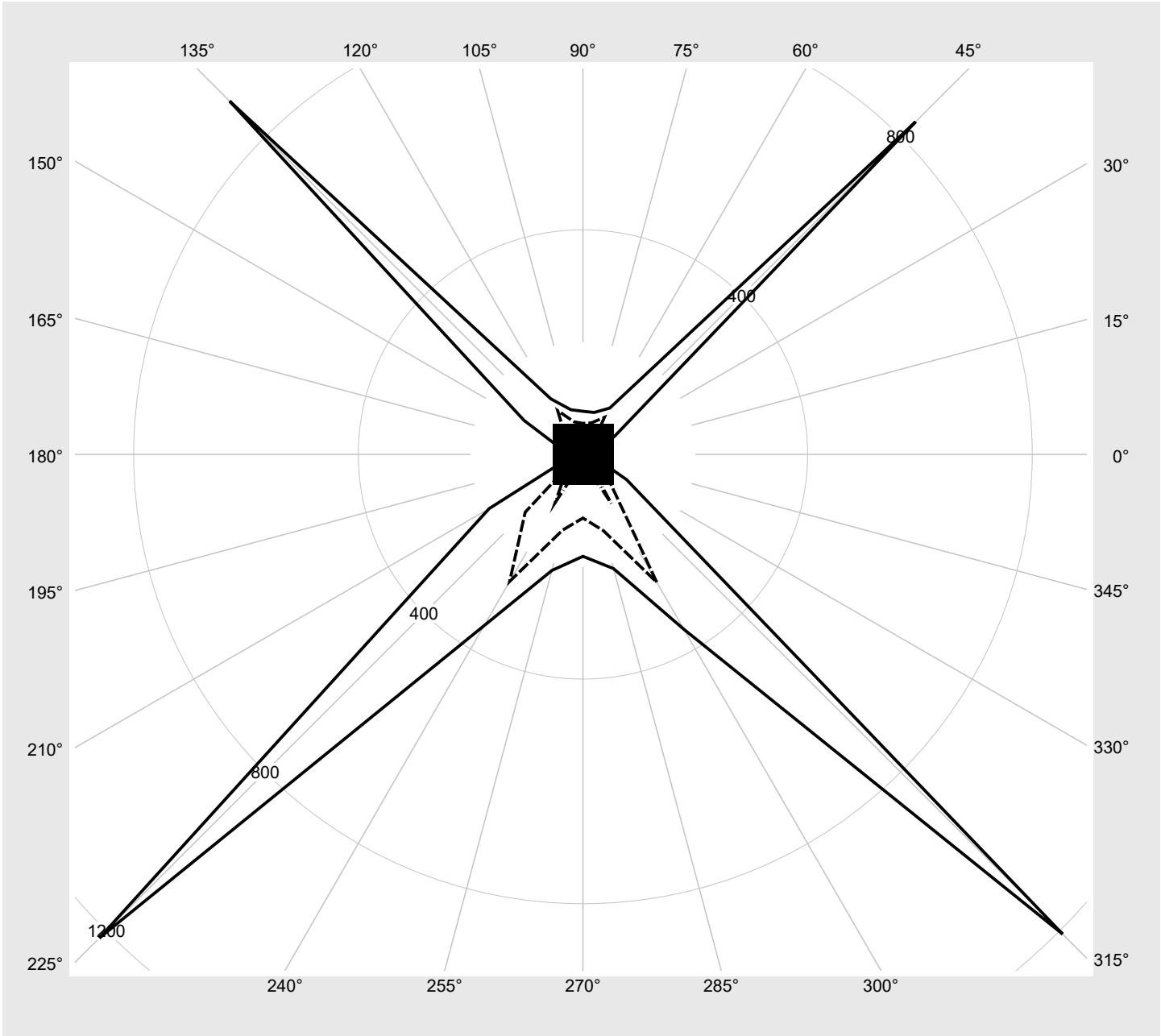
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 240</b>	<b>B = 240</b>
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C-planes	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°	330°
$\gamma$	Luminance in cd/m <sup>2</sup>											
45°	19696.3	21758.8	22302.8	19707.6	23050.7	23730.7	27855.8	26756.6	27515.9	26904.0	25498.7	25113.3
50°	6637.3	7976.2	9449.7	14423.9	9141.8	11331.0	11461.9	12803.4	13651.2	19734.8	12541.6	10409.7
55°	1146.0	3991.4	5673.5	8150.8	6157.0	4423.2	2436.6	5028.2	9223.8	11189.4	7579.3	5293.6
60°	80.4	1028.1	2612.4	92.1	2508.3	1772.6	308.6	2110.8	3812.8	229.1	3617.2	1336.1
65°	26.6	65.3	95.3	76.9	114.3	121.1	36.8	192.8	352.1	181.4	359.7	89.6
70°	13.8	22.7	76.2	55.3	90.1	26.7	26.0	17.6	261.0	113.3	263.1	13.6
75°	3.4	15.2	45.2	20.8	44.9	22.0	19.2	11.5	98.9	3.4	100.7	3.4
80°	0.0	30.0	10.6	0.0	6.9	21.7	15.7	5.1	0.9	0.0	1.4	3.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	17.5	0.0	0.0	0.0	0.0	0.0

**Photometric test report**

<b>Family</b> <b>Silica® 31</b>	<b>Order number: 51MY6LDU44BA</b> <b>EAN: 4069025073280</b>	<b>LP number</b> <b>59650_3</b>
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**Luminance values in cd/m<sup>2</sup>**     γ 65°    γ 70°    γ 75°    γ 80°    γ 85°     **siteco**



### Photometric test report

Family <b>Silica® 31</b>	Order number: <b>51MY6LDU44BA</b> EAN: <b>4069025073280</b>	LP number <b>59650_3</b>
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<b>Multilumen Table</b>	environmental temperature: 25°C	<b>siteco</b>
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DIP-Step	Switch Setting				Luminous flux [lm]	Power consumption [W]
	1	2	3	4		
0	OFF	OFF	OFF	OFF	6310	38.5
1	ON	OFF	OFF	OFF	6040	37.0
2	OFF	ON	OFF	OFF	5750	35.0
4	OFF	OFF	ON	OFF	5470	33.0
7	ON	ON	ON	OFF	5200	31.0
8	OFF	OFF	OFF	ON	4890	29.5
10	OFF	ON	OFF	ON	4620	28.0
12	OFF	OFF	ON	ON	4340	26.0
13	ON	OFF	ON	ON	4000	24.0
14	OFF	ON	ON	ON	3720	22.5