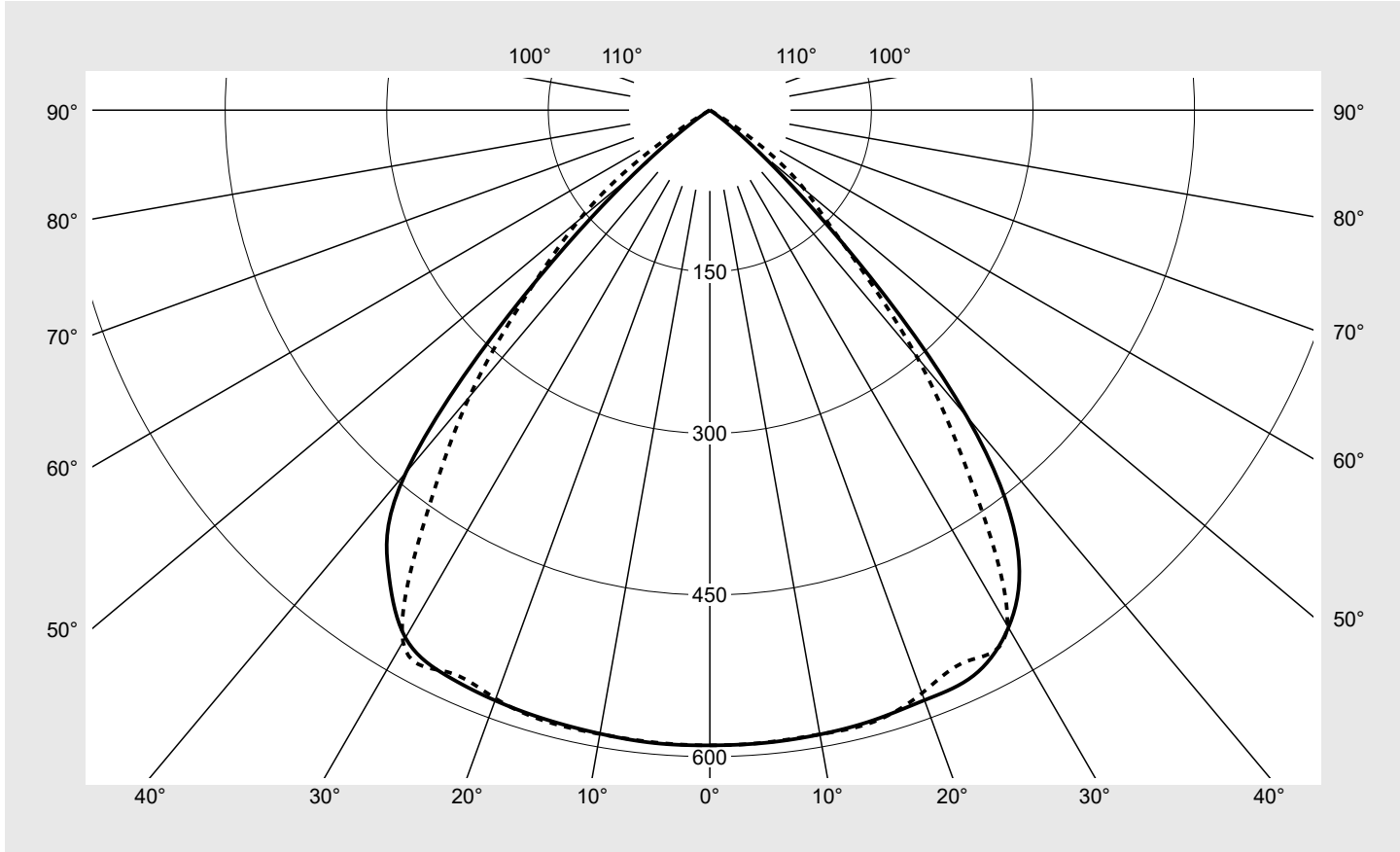


# Photometric test report

<b>Family</b> <b>Silica® 31</b>	<b>Order number: 51MY6LMU34BA</b> <b>EAN: 4069025073358</b>	<b>LP number</b> <b>59650_4</b>
	<b>Version</b> recessed luminaire for lay-in mounting, black, square M625, reflector, black, wide distribution, UGR≤19 (L65≤1000cd/m²)	<b>serial documentation</b> <b>28.06.2024</b>
	<b>Lamps</b> LED 3000 K   CRI ≥ 80	
<b>Controlgear</b> ECG Multilumen		
<b>Setting</b> factory setting: DIP-Step=8		
<b>Rated values</b> Net luminous flux = 4600 lm		
Power consumption = 28.0 W		
Luminous efficacy = 164.3 lm/W		



**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: 51MY6LMU34BA</b> <b>EAN: 4069025073358</b>	<b>LP number</b> <b>59650_4</b>
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### Table of values for luminous intensities Maximum luminous intensity

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: 51MY6LMU34BA</b> <b>EAN: 4069025073358</b>	<b>LP number</b> <b>59650_4</b>
<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>siteco</b>

C-planes $\gamma$	195°	210°	225°	240°	255°	270°	285°	300°	315°	330°	345°	Phi-zone	Total Phi-zone
	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	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

<b>Family</b> Silica® 31	<b>Order number: 51MY6LMU34BA</b> <b>EAN: 4069025073358</b>	<b>LP number</b> 59650_4
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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	19.6	20.8	20.0	21.1	21.5	19.6	20.8	20.0	21.1	21.5
	4H	19.6	20.6	20.0	21.0	21.4	19.5	20.6	19.9	21.0	21.3
	6H	19.5	20.5	19.9	20.8	21.2	19.5	20.4	19.9	20.8	21.2
	8H	19.5	20.4	19.9	20.8	21.2	19.4	20.3	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	19.5	20.6	19.9	21.0	21.3
	3H	19.5	20.3	19.9	20.7	21.1	19.4	20.3	19.8	20.7	21.1
	4H	19.4	20.1	19.8	20.6	21.0	19.3	20.1	19.8	20.5	20.9
	6H	19.3	20.0	19.8	20.4	20.9	19.2	19.9	19.7	20.3	20.8
	8H	19.3	19.8	19.7	20.3	20.8	19.2	19.8	19.7	20.2	20.7
	12H	19.2	19.7	19.7	20.2	20.7	19.2	19.7	19.7	20.1	20.6
8H	4H	19.3	19.8	19.7	20.3	20.8	19.2	19.8	19.7	20.2	20.7
	6H	19.2	19.6	19.6	20.1	20.6	19.1	19.6	19.6	20.1	20.6
	8H	19.1	19.5	19.6	20.0	20.5	19.0	19.5	19.5	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	19.2	19.7	19.7	20.2	20.7	19.2	19.7	19.7	20.1	20.6
	6H	19.1	19.5	19.6	20.0	20.5	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

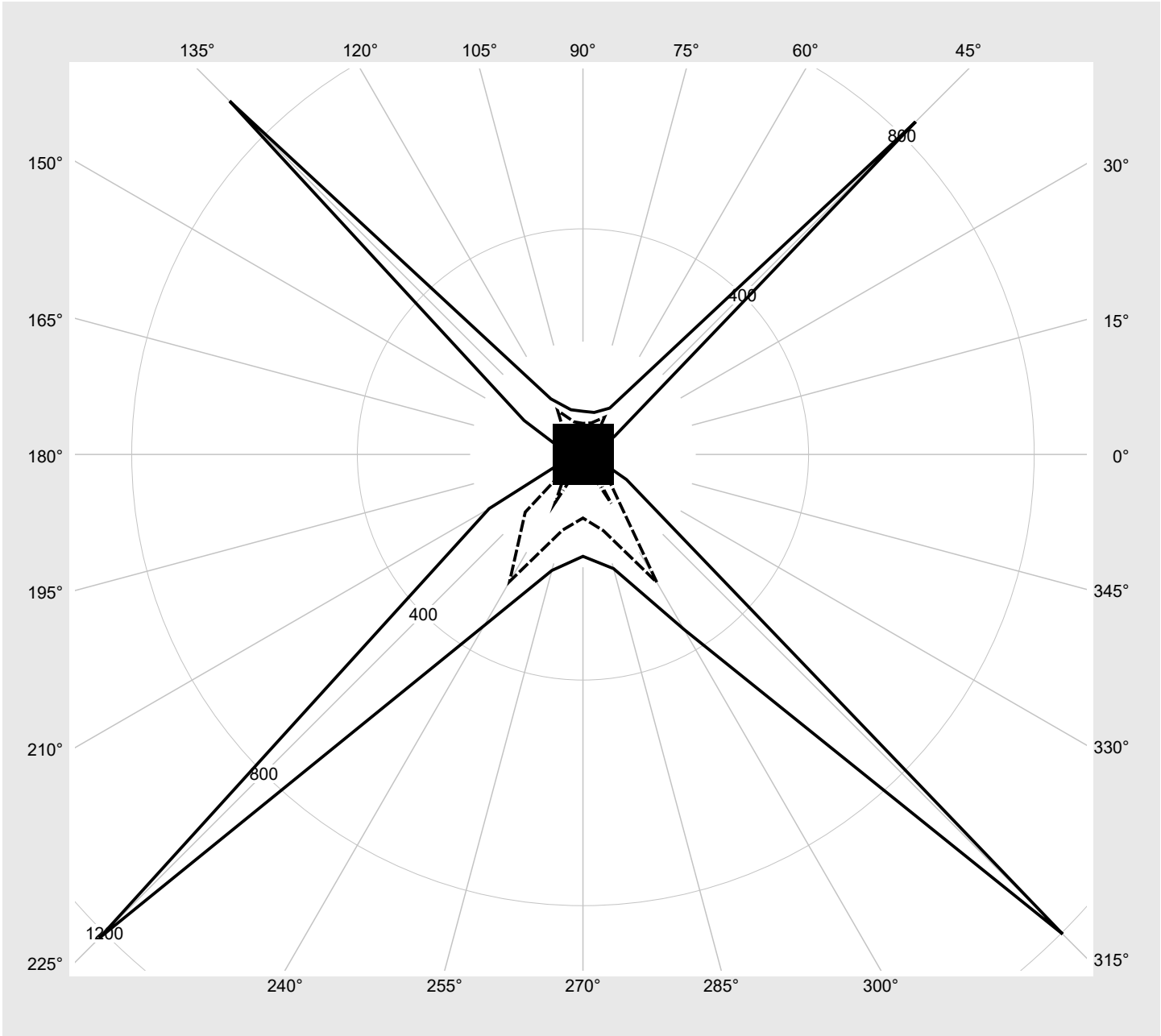
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 240</b>	<b>B = 240</b>
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<b>C-planes</b>	<b>0°</b>	<b>30°</b>	<b>60°</b>	<b>90°</b>	<b>120°</b>	<b>150°</b>	<b>180°</b>	<b>210°</b>	<b>240°</b>	<b>270°</b>	<b>300°</b>	<b>330°</b>
$\gamma$	<b>Luminance in cd/m<sup>2</sup></b>											
45°	19611.0	21664.6	22206.3	19622.3	22950.9	23628.0	27735.2	26640.8	27396.8	26787.5	25388.3	25004.6
50°	6608.5	7941.7	9408.8	14361.5	9102.2	11281.9	11412.2	12748.0	13592.1	19649.3	12487.3	10364.6
55°	1141.0	3974.1	5649.0	8115.5	6130.3	4404.1	2426.0	5006.4	9183.8	11140.9	7546.5	5270.7
60°	80.0	1023.7	2601.1	91.7	2497.4	1764.9	307.3	2101.6	3796.3	228.1	3601.6	1330.3
65°	26.5	65.0	94.9	76.5	113.8	120.6	36.7	192.0	350.5	180.7	358.1	89.2
70°	13.8	22.6	75.9	55.1	89.7	26.6	25.9	17.5	259.9	112.8	262.0	13.5
75°	3.4	15.1	45.0	20.7	44.7	21.9	19.1	11.4	98.4	3.4	100.3	3.4
80°	0.0	29.9	10.6	0.0	6.9	21.6	15.6	5.1	0.9	0.0	1.4	3.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	17.4	0.0	0.0	0.0	0.0	0.0

**Photometric test report**

<b>Family</b> <b>Silica® 31</b>	<b>Order number: 51MY6LMU34BA</b> <b>EAN: 4069025073358</b>	<b>LP number</b> <b>59650_4</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>51MY6LMU34BA</b> EAN: <b>4069025073358</b>	LP number <b>59650_4</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		
15	ON	ON	ON	ON	6250	39.0
14	OFF	ON	ON	ON	5990	37.0
13	ON	OFF	ON	ON	5720	35.0
12	OFF	OFF	ON	ON	5450	33.0
10	OFF	ON	OFF	ON	5180	31.5
9	ON	OFF	OFF	ON	4930	30.0
8	OFF	OFF	OFF	ON	4600	28.0
6	OFF	ON	ON	OFF	4340	26.0
5	ON	OFF	ON	OFF	4090	24.5
4	OFF	OFF	ON	OFF	3820	22.5
2	OFF	ON	OFF	OFF	3530	21.0
1	ON	OFF	OFF	OFF	3240	19.0
0	OFF	OFF	OFF	OFF	2950	17.5