
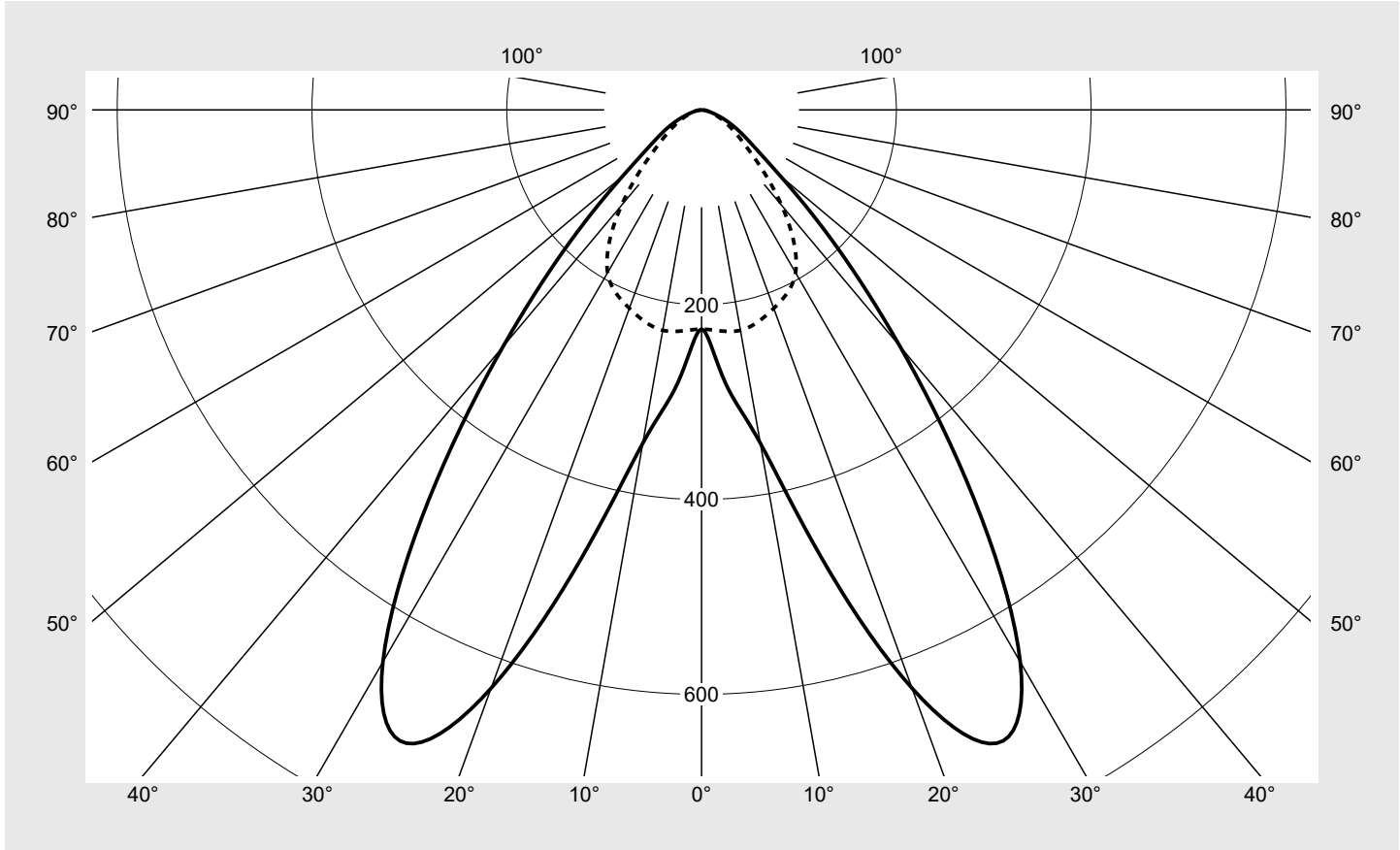


# Photometric test report

<b>Family</b> <b>Modario® 31 Silica®</b>	<b>Order number: 51RY19MB46C</b> <b>EAN: 4058352068298</b>	<b>LP number</b> <b>59586_1</b>
	<b>Version</b> luminaire insert LED, Combined lens and reflector optics, reflector, white, double asymmetric distribution, UGR≤22, for Modario® 31 rail	<b>serial documentation</b> 11.04.2024
	<b>Lamps</b> LED 4000 K   CRI ≥ 80	<b>Controlgear</b> ECG Multilumen
	<b>Rated values</b> Net luminous flux = 6620 lm Power consumption = 37.8 W Luminous efficacy = 175.1 lm/W	



**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 763 cd/klm**



Classifications	
DIN 5040	A 5 0
CIE	N1=72 N2=95 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

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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°	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°	225.1	225.1	225.1	225.1	225.1	225.1	225.1	1.3	1.3
5°	281.5	282.9	282.5	276.3	260.7	240.6	227.8	12.7	14.1
10°	347.4	348.0	337.9	323.1	302.5	268.5	229.8	29.6	43.7
15°	476.2	473.7	454.1	408.5	345.8	285.5	225.0	54.8	98.5
20°	631.8	642.6	617.5	523.3	394.6	284.8	216.8	90.2	188.7
25°	717.4	749.9	744.5	641.0	440.5	279.4	207.7	128.1	316.8
30°	654.4	712.7	762.9	691.0	461.6	264.1	192.9	151.5	468.3
35°	488.0	558.6	656.1	652.8	455.0	226.0	164.9	150.6	618.9
40°	317.0	369.7	473.8	536.5	390.9	175.4	127.8	127.4	746.3
45°	189.8	221.5	301.4	378.2	292.6	124.7	90.7	94.2	840.5
50°	105.7	126.2	179.1	238.7	176.8	78.8	62.0	61.8	902.4
55°	65.7	73.4	98.3	131.9	95.0	54.1	44.5	38.0	940.3
60°	46.1	49.1	56.0	63.2	58.5	38.1	32.2	24.1	964.4
65°	31.5	32.7	33.4	34.3	35.1	25.8	22.6	15.6	980.0
70°	19.4	19.8	19.3	19.5	16.8	15.1	14.5	9.2	989.2
75°	10.4	10.9	11.0	10.3	9.6	9.4	9.1	5.4	994.6
80°	6.0	6.1	6.1	6.2	6.1	6.1	5.9	3.3	997.9
85°	3.1	3.2	3.1	3.2	3.1	3.1	2.9	1.7	999.6
90°	0.9	0.9	0.9	0.8	0.6	0.5	0.3	0.4	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

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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	21.9	23.4	22.3	23.7	24.0	20.2	21.6	20.5	21.9	22.3
	3H	22.0	23.3	22.4	23.6	24.0	20.2	21.5	20.6	21.9	22.2
	4H	22.0	23.2	22.4	23.5	23.9	20.2	21.4	20.6	21.8	22.2
	6H	22.0	23.1	22.4	23.4	23.8	20.2	21.3	20.6	21.7	22.1
	8H	22.1	23.0	22.5	23.4	23.8	20.2	21.3	20.7	21.7	22.1
	12H	22.1	22.9	22.5	23.3	23.7	20.2	21.2	20.7	21.6	22.0
4H	2H	21.9	23.1	22.3	23.5	23.9	20.4	21.6	20.8	21.9	22.3
	3H	22.1	23.1	22.5	23.4	23.9	20.5	21.5	20.9	21.9	22.3
	4H	22.1	23.0	22.5	23.4	23.8	20.5	21.4	20.9	21.8	22.2
	6H	22.1	22.8	22.6	23.3	23.7	20.5	21.3	21.0	21.7	22.2
	8H	22.1	22.8	22.6	23.2	23.7	20.5	21.2	21.0	21.7	22.1
	12H	22.1	22.7	22.6	23.2	23.6	20.6	21.2	21.0	21.6	22.1
8H	4H	22.0	22.7	22.5	23.2	23.6	20.5	21.2	21.0	21.6	22.1
	6H	22.0	22.6	22.5	23.1	23.6	20.5	21.1	21.0	21.6	22.1
	8H	22.0	22.5	22.5	23.0	23.5	20.5	21.0	21.0	21.5	22.1
	12H	22.1	22.5	22.6	23.0	23.5	20.6	21.0	21.1	21.5	22.0
12H	4H	22.0	22.6	22.5	23.1	23.6	20.5	21.1	21.0	21.5	22.0
	6H	22.0	22.5	22.5	23.0	23.5	20.6	21.0	21.1	21.5	22.0
	8H	22.0	22.4	22.6	22.9	23.5	20.6	21.0	21.1	21.5	22.0

<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1490</b>
			<b>B = 58</b>

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°		20557.0	23996.9	32650.7	40971.0	31698.4	13510.3	9826.2	
50°		12592.8	15045.4	21343.8	28440.9	21068.8	9386.0	7389.2	
55°		8772.4	9802.5	13126.2	17609.3	12683.1	7227.1	5941.6	
60°		7061.7	7526.4	8573.4	9682.7	8969.1	5837.9	4925.5	
65°		5712.0	5924.9	6060.5	6219.8	6363.2	4672.3	4096.8	
70°		4345.9	4434.6	4311.4	4370.6	3762.7	3381.3	3258.3	
75°		3092.6	3221.0	3258.6	3062.1	2852.0	2768.2	2699.2	
80°		2641.1	2699.8	2689.2	2717.4	2709.5	2694.5	2609.3	
85°		2745.7	2809.0	2758.9	2785.3	2753.6	2725.5	2584.9	

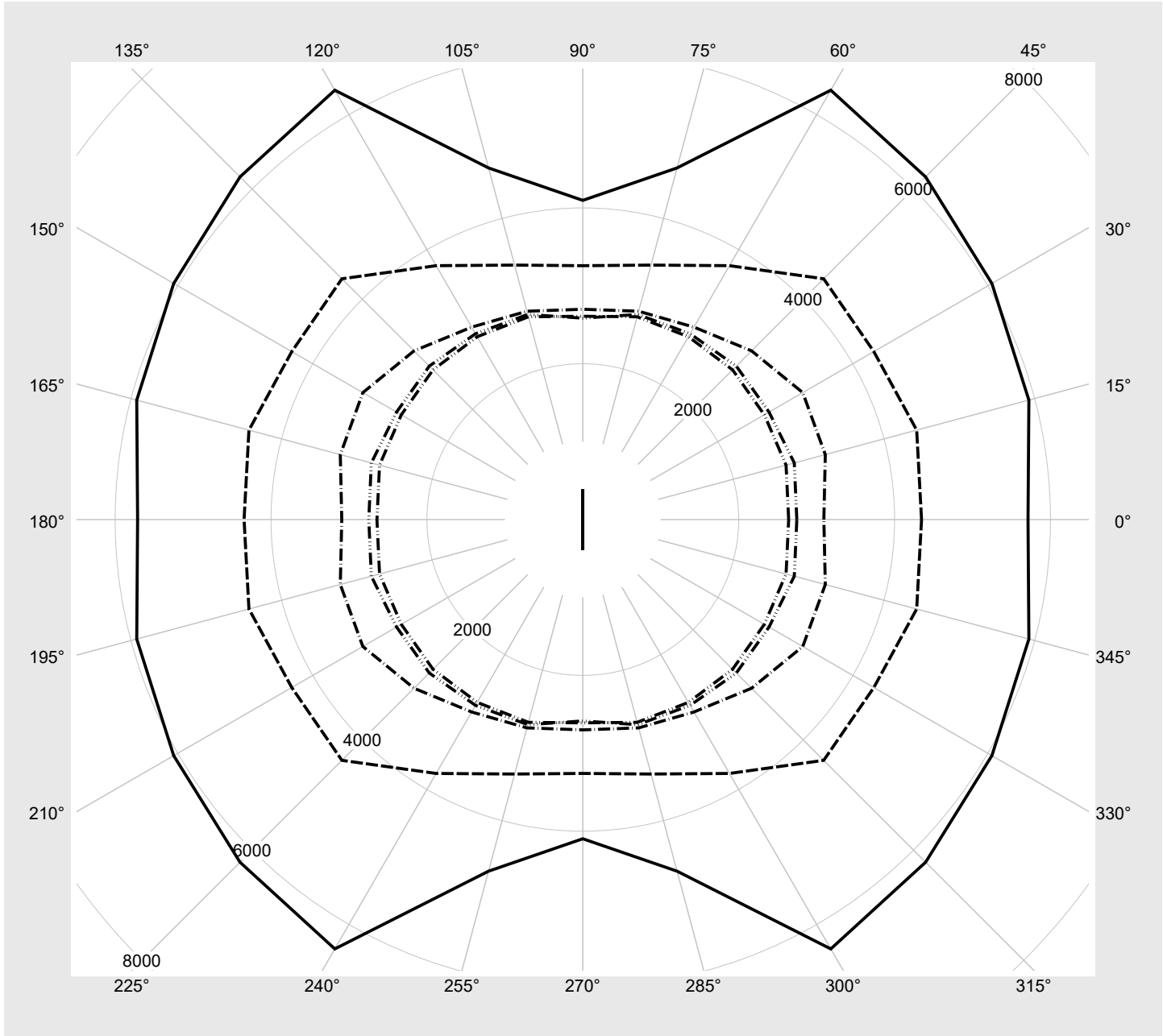
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**Luminance values in cd/m<sup>2</sup>**

$\gamma$ 65°	$\gamma$ 70°	$\gamma$ 75°	$\gamma$ 80°	$\gamma$ 85°
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<b>Multilumen Table</b>	environmental temperature: 25°C	
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DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
0	OFF	OFF	OFF	6620	37.8
1	ON	OFF	OFF	5610	31.8
2	OFF	ON	OFF	4650	26.3
4	OFF	OFF	ON	3850	21.7