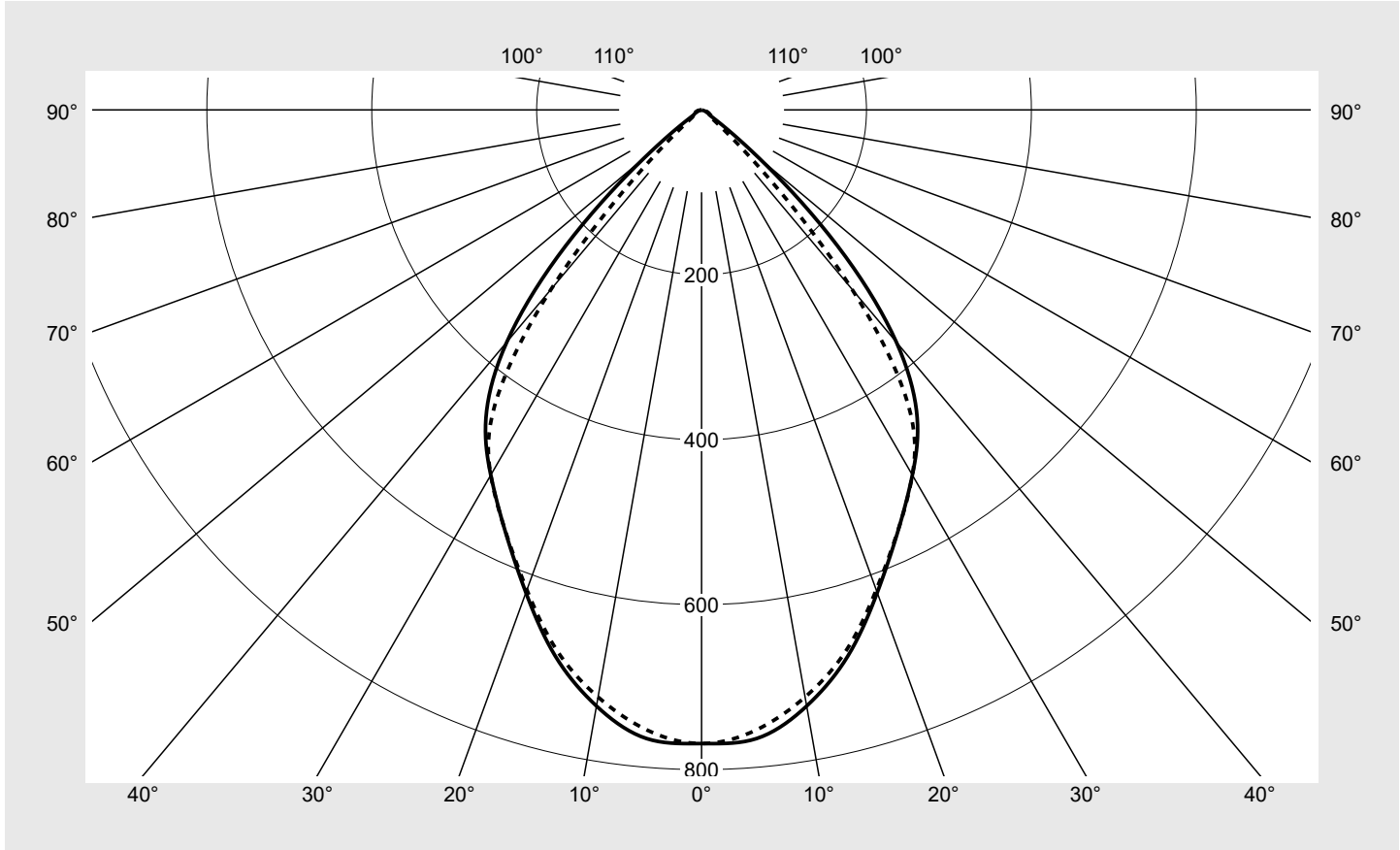


# Photometric test report

<b>Family</b> <b>Modario® 31 Silica®</b>	<b>Order number: 51RY1TDB46C</b> <b>EAN: 4058352068328</b>	<b>LP number</b> <b>59587_1</b>
	<b>Version</b> luminaire insert LED, Combined lens and reflector optics, reflector, white, medium distribution, UGR≤19 (L65≤3000cd/m²), for Modario® 31 rail	<b>serial documentation</b> 11.04.2024
	<b>Lamps</b> LED 4000 K   CRI ≥ 80	
	<b>Controlgear</b> ECG-DALI	
<b>Rated values</b> Net luminous flux = 6610 lm Power consumption = 38.1 W Luminous efficacy = 173.5 lm/W		



**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 768 cd/klm**



Classifications	
DIN 5040	A 6 0
CIE	N1=84 N2=98 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

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

C-planes	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°			
γ									
Luminous intensity in cd/klm								Luminous flux in lm/klm	
0°	768.4	768.4	768.4	768.4	768.4	768.4	768.4	4.6	4.6
5°	765.3	768.0	765.0	762.8	759.5	757.9	755.0	36.4	41.0
10°	734.1	734.0	732.4	737.2	742.1	737.7	723.0	70.0	111.0
15°	685.6	681.9	681.6	675.1	683.9	691.5	678.4	96.8	207.8
20°	622.9	626.4	622.8	619.9	623.1	627.2	619.4	116.9	324.7
25°	563.6	566.5	563.0	563.9	569.1	572.1	563.2	131.2	455.9
30°	511.3	514.7	512.7	517.1	520.8	522.1	511.3	141.5	597.5
35°	456.0	458.5	457.0	463.1	461.6	452.4	437.3	143.5	741.0
40°	367.5	370.5	373.7	377.6	365.2	325.0	283.8	125.5	866.5
45°	233.0	234.3	234.3	232.0	181.4	130.0	102.6	76.2	942.7
50°	91.5	102.8	90.9	79.8	61.1	23.2	20.0	28.9	971.7
55°	20.5	21.9	24.3	20.9	15.8	15.4	15.4	8.7	980.4
60°	10.2	10.8	12.3	12.5	12.5	12.7	12.8	5.7	986.1
65°	6.7	7.2	8.3	9.2	10.0	10.4	10.3	4.4	990.5
70°	4.6	5.1	6.0	7.1	7.9	8.1	8.0	3.5	994.0
75°	2.8	3.4	4.4	5.4	5.9	6.0	5.9	2.6	996.6
80°	1.4	2.0	2.9	3.9	4.5	4.7	4.6	1.9	998.5
85°	0.6	1.1	1.6	2.5	3.0	3.0	2.8	1.2	999.7
90°	0.2	0.3	0.5	0.8	0.9	0.8	0.5	0.3	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	19.8	21.1	20.2	21.5	21.8	18.8	20.1	19.1	20.4	20.7
	3H	19.7	20.9	20.1	21.2	21.6	18.7	19.8	19.1	20.2	20.5
	4H	19.7	20.7	20.1	21.1	21.4	18.7	19.7	19.1	20.1	20.5
	6H	19.6	20.6	20.0	20.9	21.3	18.7	19.6	19.1	20.0	20.4
	8H	19.7	20.5	20.1	20.9	21.3	18.7	19.6	19.1	19.9	20.3
	12H	19.6	20.4	20.1	20.8	21.2	18.7	19.5	19.1	19.9	20.3
4H	2H	19.6	20.7	20.0	21.1	21.4	18.6	19.7	19.0	20.0	20.4
	3H	19.5	20.4	20.0	20.8	21.2	18.5	19.4	19.0	19.8	20.2
	4H	19.5	20.2	19.9	20.6	21.1	18.5	19.3	19.0	19.7	20.1
	6H	19.4	20.1	19.9	20.5	21.0	18.5	19.2	19.0	19.6	20.1
	8H	19.4	20.0	19.8	20.4	20.9	18.6	19.1	19.0	19.6	20.1
	12H	19.4	19.8	19.9	20.3	20.8	18.6	19.1	19.1	19.6	20.1
8H	4H	19.4	20.0	19.8	20.4	20.9	18.4	19.0	18.9	19.5	20.0
	6H	19.3	19.8	19.8	20.3	20.8	18.5	19.0	19.0	19.4	19.9
	8H	19.2	19.7	19.8	20.2	20.7	18.5	18.9	19.0	19.4	19.9
	12H	19.2	19.6	19.8	20.1	20.6	18.6	18.9	19.1	19.4	20.0
12H	4H	19.4	19.9	19.9	20.3	20.8	18.4	18.9	18.9	19.4	19.9
	6H	19.3	19.7	19.8	20.2	20.7	18.5	18.9	19.0	19.3	19.9
	8H	19.2	19.6	19.8	20.1	20.6	18.5	18.8	19.0	19.4	19.9

<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>
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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°		25206.9	25342.3	25342.3	25092.4	19623.9	14061.7	11093.1		
50°		10891.1	12237.4	10816.8	9495.5	7274.8	2755.6	2379.9		
55°		2731.2	2920.0	3235.9	2789.0	2111.1	2050.8	2048.1		
60°		1552.7	1645.4	1885.6	1912.0	1913.5	1948.9	1951.8		
65°		1215.5	1308.9	1494.7	1657.6	1810.7	1878.8	1863.0		
70°		1018.0	1134.5	1346.0	1580.9	1758.6	1821.5	1780.6		
75°		815.9	996.5	1297.3	1584.6	1750.7	1771.7	1748.6		
80°		617.1	891.1	1270.3	1698.9	1995.3	2089.2	2032.8		
85°		559.0	925.0	1425.2	2223.8	2616.1	2645.1	2416.0		

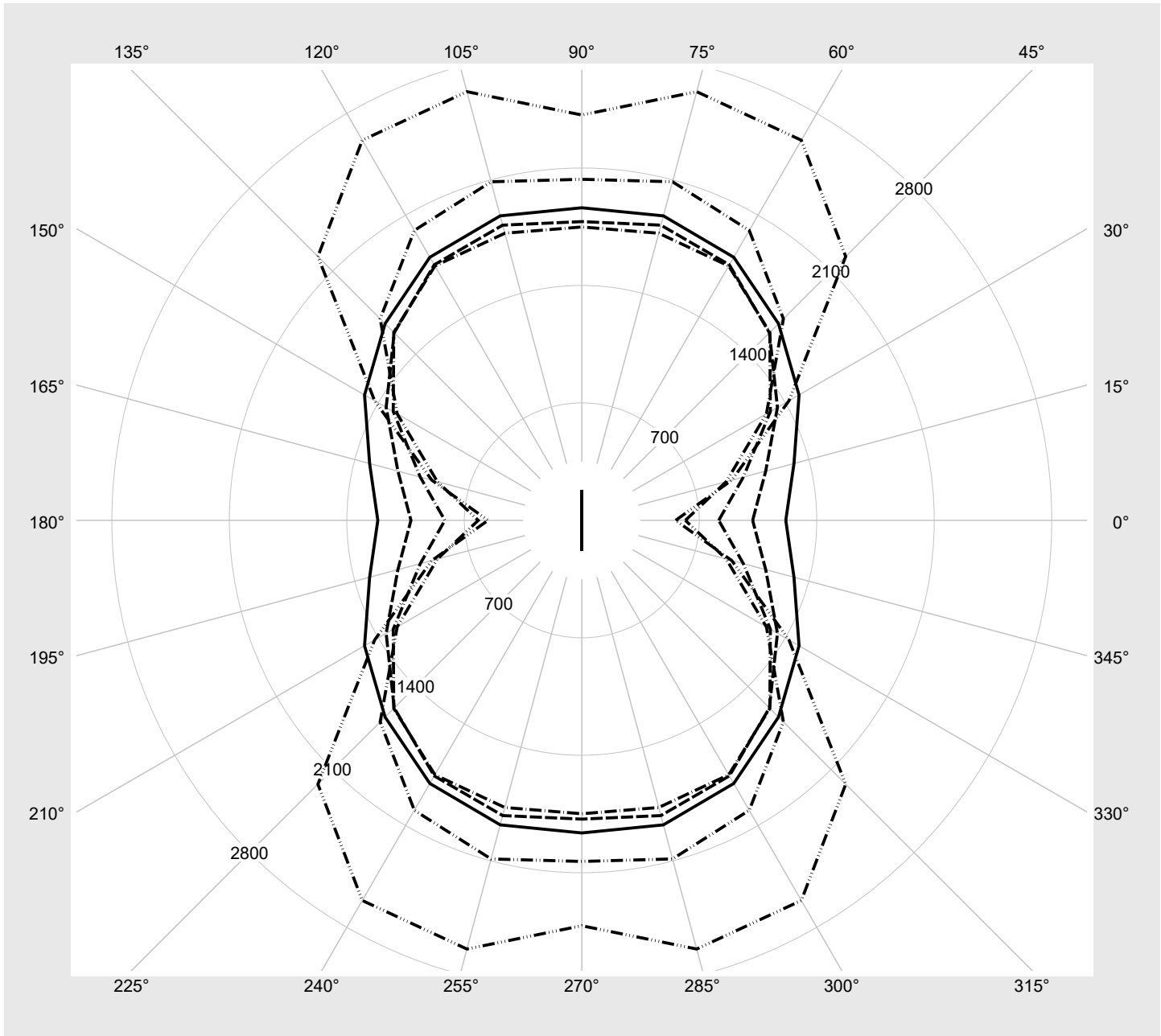
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**Luminance values in cd/m<sup>2</sup>**


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

**siteco**



## Photometric test report

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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	4		
2	OFF	ON	OFF	OFF	6610	38.1
3	ON	ON	OFF	OFF	6170	35.4
4	OFF	OFF	ON	OFF	5710	32.7
5	ON	OFF	ON	OFF	5270	30.1
6	OFF	ON	ON	OFF	4830	27.5
7	ON	ON	ON	OFF	4270	24.4
8	OFF	OFF	OFF	ON	3780	21.7
9	ON	OFF	OFF	ON	3300	18.9
10	OFF	ON	OFF	ON	2910	16.6
11	ON	ON	OFF	ON	2450	14.0
12	OFF	OFF	ON	ON	2010	11.5
13	ON	OFF	ON	ON	1720	9.8