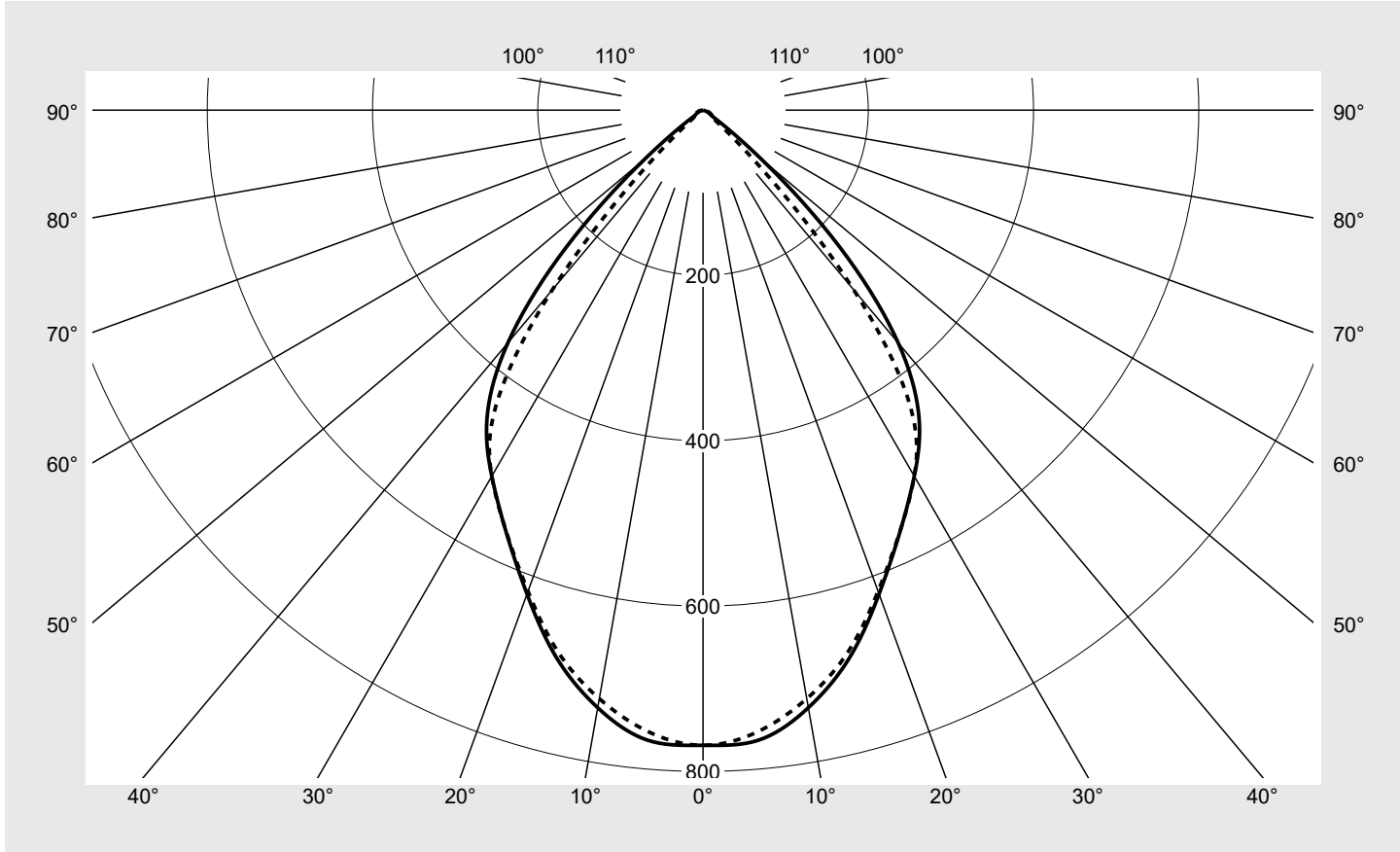


Photometric test report

Family Modario® 31 Silica®	Order number: 51RY1TMB46C EAN: 4058352068359	LP number 59587_2
	Version luminaire insert LED, Combined lens and reflector optics, reflector, white, medium distribution, UGR≤19 (L65≤3000cd/m²), for Modario® 31 rail	serial documentation 11.04.2024
	Lamps LED 4000 K CRI ≥ 80	
	Controlgear ECG Multilumen	
Rated values Net luminous flux = 6710 lm Power consumption = 37.8 W Luminous efficacy = 177.5 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	
η_{LB}	100.0%
ϕ_u	100.0%
ϕ_o	0.0%

Measurement conditions
DIN EN 13032 and DIN 5032

Photometric test report

Family Modario® 31 Silica®	Order number: 51RY1TMB46C EAN: 4058352068359	LP number 59587_2
Table of values for luminous intensities		Maximum luminous intensity
		siteco

C-planes γ	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°	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

Photometric test report

Family Modario® 31 Silica®	Order number: 51RY1TMB46C EAN: 4058352068359	LP number 59587_2
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UGR-Table	Standard room	siteco
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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	19.9	21.2	20.2	21.5	21.8	18.8	20.1	19.2	20.4	20.7
	3H	19.8	20.9	20.2	21.3	21.6	18.7	19.9	19.1	20.2	20.6
	4H	19.7	20.8	20.1	21.1	21.5	18.7	19.8	19.1	20.1	20.5
	6H	19.7	20.6	20.1	21.0	21.4	18.7	19.7	19.1	20.0	20.4
	8H	19.7	20.5	20.1	20.9	21.3	18.8	19.6	19.2	20.0	20.4
	12H	19.7	20.4	20.1	20.8	21.3	18.8	19.5	19.2	19.9	20.4
4H	2H	19.7	20.8	20.1	21.1	21.5	18.7	19.7	19.0	20.1	20.4
	3H	19.6	20.5	20.0	20.8	21.3	18.6	19.5	19.0	19.9	20.3
	4H	19.5	20.3	20.0	20.7	21.1	18.6	19.3	19.0	19.8	20.2
	6H	19.5	20.1	19.9	20.5	21.0	18.6	19.2	19.1	19.7	20.1
	8H	19.4	20.0	19.9	20.5	20.9	18.6	19.2	19.1	19.6	20.1
	12H	19.4	19.9	19.9	20.4	20.9	18.7	19.1	19.1	19.6	20.1
8H	4H	19.4	20.0	19.9	20.5	20.9	18.5	19.1	19.0	19.5	20.0
	6H	19.3	19.8	19.8	20.3	20.8	18.5	19.0	19.0	19.5	20.0
	8H	19.3	19.7	19.8	20.2	20.7	18.6	19.0	19.1	19.5	20.0
	12H	19.3	19.6	19.8	20.1	20.7	18.6	19.0	19.2	19.5	20.0
12H	4H	19.4	19.9	19.9	20.4	20.9	18.5	19.0	19.0	19.4	19.9
	6H	19.3	19.7	19.9	20.2	20.7	18.5	18.9	19.0	19.4	19.9
	8H	19.3	19.6	19.8	20.1	20.7	18.6	18.9	19.1	19.4	19.9

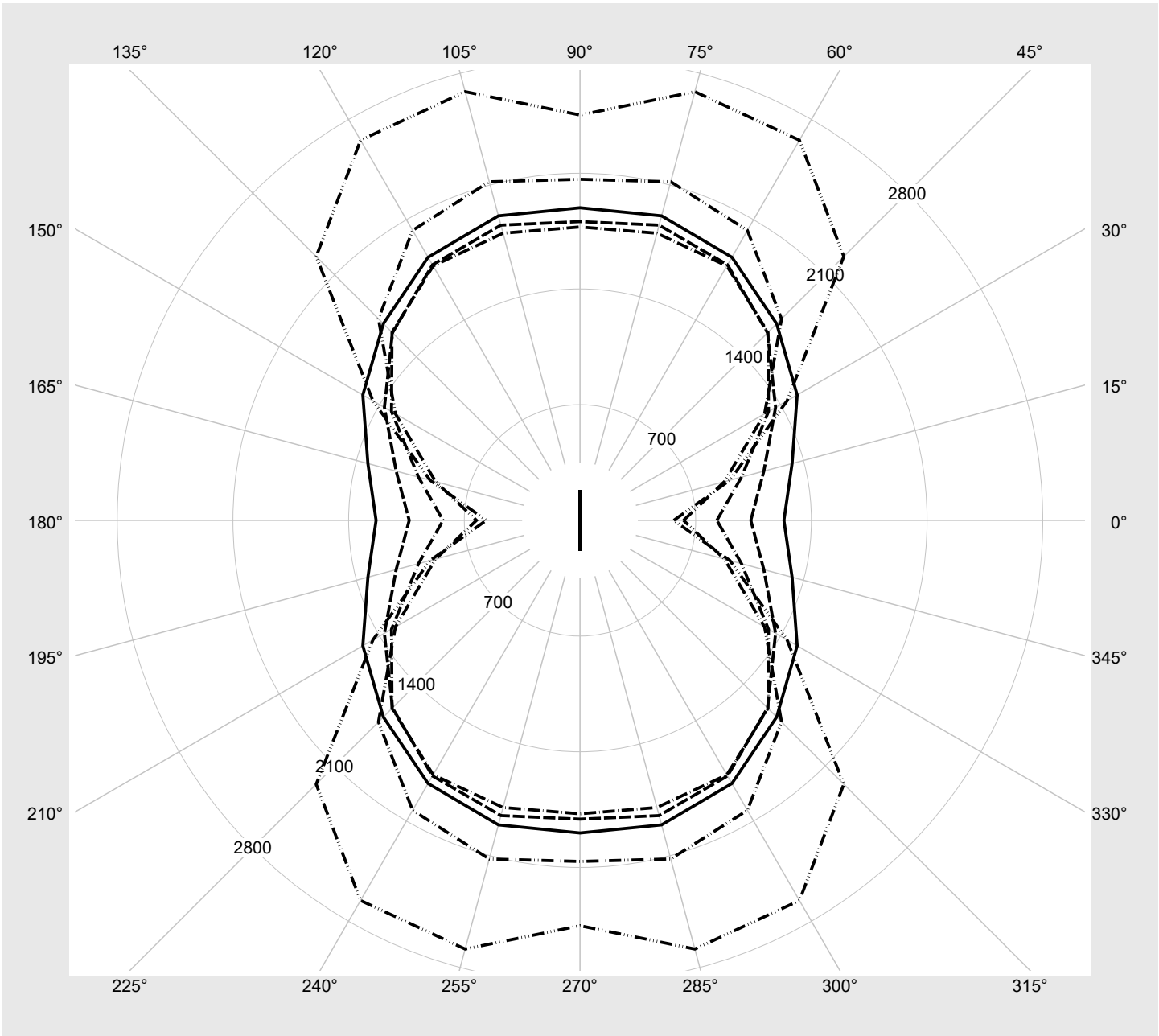
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1490
			B = 58

C-planes	γ	Luminance in cd/m ²								
		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°		25588.3	25725.7	25725.7	25472.0	19920.8	14274.5	11261.0		
50°		11055.9	12422.6	10980.4	9639.1	7384.9	2797.3	2415.9		
55°		2772.5	2964.2	3284.8	2831.2	2143.0	2081.8	2079.1		
60°		1576.2	1670.3	1914.1	1940.9	1942.5	1978.4	1981.3		
65°		1233.9	1328.7	1517.4	1682.7	1838.1	1907.2	1891.2		
70°		1033.4	1151.7	1366.4	1604.8	1785.3	1849.0	1807.5		
75°		828.3	1011.6	1317.0	1608.6	1777.2	1798.5	1775.1		
80°		626.4	904.6	1289.5	1724.6	2025.5	2120.8	2063.5		
85°		567.5	939.0	1446.8	2257.5	2655.7	2685.1	2452.6		

Photometric test report

Family Modario® 31 Silica®	Order number: 51RY1TMB46C EAN: 4058352068359	LP number 59587_2
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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**



Photometric test report

Family Modario® 31 Silica®	Order number: 51RY1TMB46C EAN: 4058352068359	LP number 59587_2
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Multilumen Table	environmental temperature: 25°C	sITeco
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DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
0	OFF	OFF	OFF	6710	37.8
1	ON	OFF	OFF	5690	31.8
2	OFF	ON	OFF	4730	26.2
4	OFF	OFF	ON	3920	21.7