
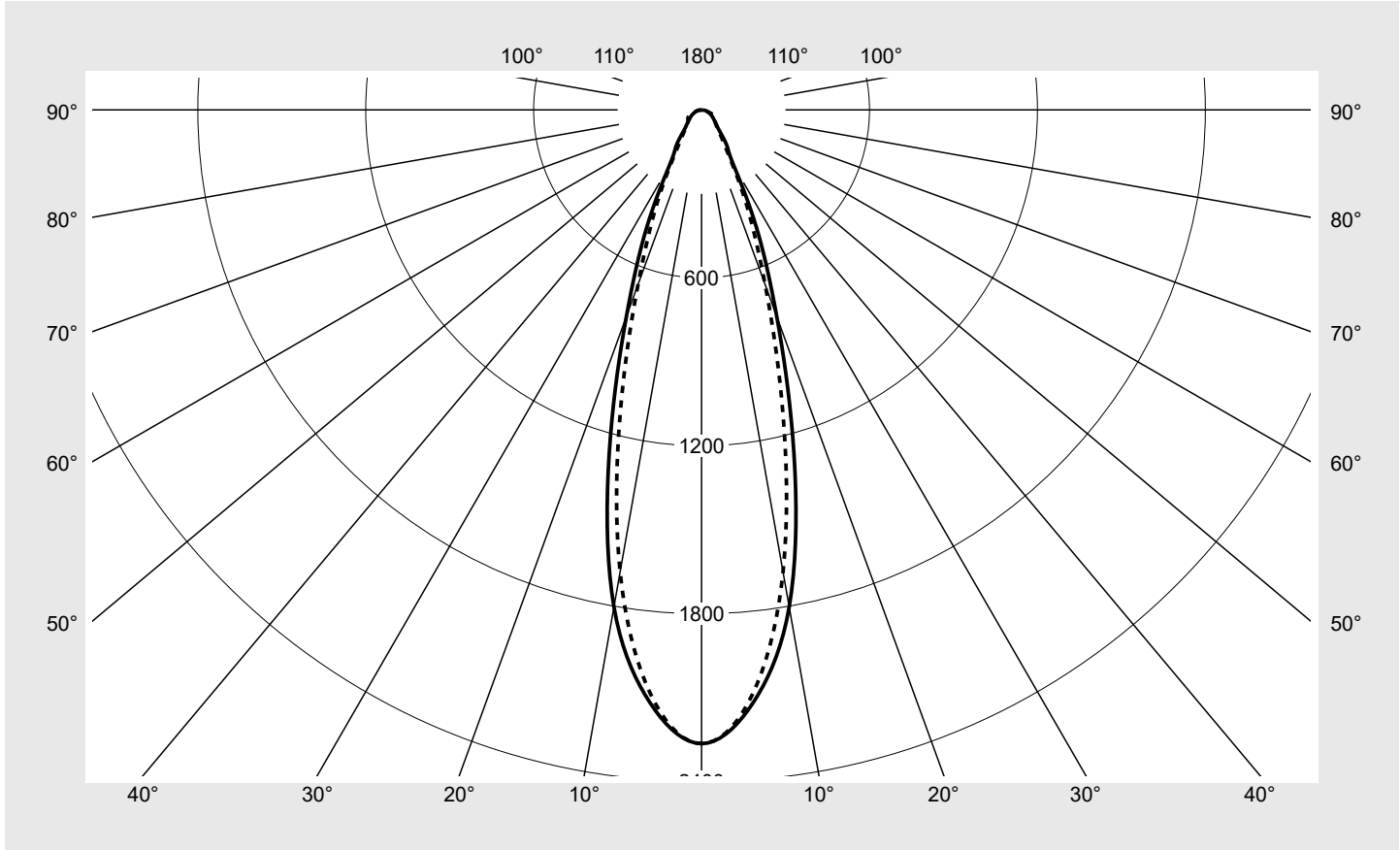


# Photometric test report

<b>Family</b> <b>Modario® 31</b> 	<b>Order number: 51RN11MB4B5G5</b> <b>EAN: 4069025522931</b>	<b>LP number</b> <b>59298_114</b>
	<b>Version</b> primary light control with lens, transparent, PMMA, narrow distribution <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG Multilumen <b>Rated values</b> Net luminous flux = 11850 lm Power consumption = 67.8 W Luminous efficacy = 174.8 lm/W	<b>serial documentation</b> <b>08.08.2025</b>

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 2264 cd/klm**



Classifications	
DIN 5040	A 7 1
CIE	N1=83 N2=93 N3=98 N4=100 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	99.6%
$\phi_o$	0.4%

**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 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°	2264.0	2264.0	2264.0	2264.0	2264.0	2264.0	2264.0	13.5	13.5
5°	2124.6	2117.3	2110.0	2106.4	2102.8	2098.6	2094.4	100.7	114.2
10°	1803.1	1798.4	1793.7	1758.4	1723.0	1699.6	1676.2	166.8	281.0
15°	1276.6	1263.1	1249.6	1218.9	1188.2	1155.9	1123.7	172.0	453.0
20°	785.2	773.2	761.2	738.3	715.4	689.4	663.4	137.5	590.6
25°	464.9	459.0	453.1	430.5	408.0	399.6	391.2	99.5	690.1
30°	231.5	245.6	259.7	243.1	226.4	219.0	211.5	64.6	754.8
35°	159.7	155.6	151.5	146.8	142.0	136.2	130.5	46.0	800.7
40°	102.9	101.3	99.7	98.2	96.6	94.1	91.5	34.5	835.2
45°	75.8	74.7	73.5	74.4	75.2	73.4	71.7	28.7	863.9
50°	60.6	60.0	59.4	61.7	64.1	63.5	63.0	25.9	889.9
55°	50.2	50.1	50.0	53.9	57.9	58.8	59.6	24.4	914.2
60°	41.8	41.5	41.2	46.6	51.9	53.9	55.8	22.5	936.7
65°	33.8	33.4	32.9	37.5	42.1	45.1	48.0	19.2	955.9
70°	26.2	26.2	26.2	27.6	29.0	31.8	34.7	14.7	970.6
75°	20.4	20.2	20.1	21.5	22.8	21.7	20.6	11.2	981.8
80°	14.1	14.0	14.0	15.4	16.8	16.1	15.5	8.2	990.0
85°	7.7	7.7	7.8	9.4	11.0	10.5	10.0	5.0	995.0
90°	1.9	1.9	1.9	3.7	5.5	4.9	4.4	1.9	996.9
95°	0.0	0.0	0.0	1.4	2.7	3.0	3.2	0.8	997.7
100°	0.0	0.0	0.0	1.0	2.1	2.5	2.9	0.6	998.3
105°	0.0	0.0	0.0	1.0	1.9	2.2	2.5	0.6	998.9
110°	0.0	0.0	0.0	0.8	1.6	1.9	2.2	0.5	999.4
115°	0.0	0.0	0.0	0.7	1.3	1.5	1.8	0.4	999.7
120°	0.0	0.0	0.0	0.5	1.1	1.2	1.4	0.3	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	17.4	18.6	17.7	18.9	19.2	18.5	19.7	18.9	20.0	20.4
	3H	18.6	19.7	19.0	20.0	20.4	20.1	21.2	20.5	21.6	21.9
	4H	19.2	20.2	19.6	20.5	20.9	20.7	21.7	21.1	22.0	22.4
	6H	19.7	20.6	20.1	20.9	21.3	21.2	22.1	21.6	22.4	22.8
	8H	20.0	20.7	20.4	21.1	21.5	21.5	22.3	22.0	22.7	23.1
	12H	20.1	20.8	20.5	21.2	21.6	21.8	22.5	22.2	22.9	23.3
4H	2H	18.0	19.0	18.4	19.4	19.8	19.0	20.0	19.4	20.3	20.7
	3H	19.4	20.2	19.8	20.6	21.1	20.7	21.6	21.2	22.0	22.4
	4H	20.1	20.8	20.5	21.3	21.7	21.4	22.2	21.9	22.6	23.0
	6H	20.7	21.3	21.2	21.8	22.3	22.1	22.7	22.5	23.1	23.6
	8H	21.0	21.5	21.4	22.0	22.5	22.4	23.0	22.9	23.4	23.9
	12H	21.2	21.6	21.7	22.1	22.6	22.8	23.2	23.3	23.7	24.2
8H	4H	20.5	21.0	20.9	21.5	21.9	21.6	22.2	22.1	22.6	23.1
	6H	21.2	21.7	21.7	22.1	22.6	22.5	22.9	23.0	23.4	23.9
	8H	21.5	21.9	22.0	22.4	22.9	22.9	23.3	23.4	23.8	24.3
	12H	21.8	22.1	22.3	22.6	23.2	23.4	23.7	23.9	24.2	24.8
12H	4H	20.6	21.0	21.0	21.5	22.0	21.7	22.1	22.2	22.6	23.1
	6H	21.3	21.7	21.9	22.2	22.7	22.5	22.9	23.0	23.4	23.9
	8H	21.7	22.0	22.2	22.5	23.1	23.0	23.3	23.5	23.9	24.4

<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1433</b>	<b>H(C0) = 5</b>	<b>H(C180) = 5</b>
			<b>B = 61</b>	<b>H(C90) = 5</b>	<b>H(C270) = 5</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°		13430.6	13253.7	13142.7	13447.6	13813.9	13742.9	13691.7	
50°		11636.4	11547.1	11526.1	12145.2	12841.2	13017.0	13227.2	
55°		10610.7	10615.4	10695.1	11729.5	12868.7	13415.3	14025.6	
60°		9930.3	9879.6	9911.1	11425.2	13084.7	14014.3	15049.0	
65°		9233.7	9137.5	9132.2	10652.9	12345.2	13732.2	15288.0	
70°		8465.2	8511.6	8665.1	9379.6	10239.1	11814.9	13618.8	
75°		8174.9	8162.8	8281.2	9174.0	10270.1	10415.1	10646.4	
80°		7496.8	7524.2	7717.4	8931.9	10472.2	11049.4	11859.6	
85°		6147.3	6284.1	6642.7	8661.7	11392.0	12765.0	14981.6	

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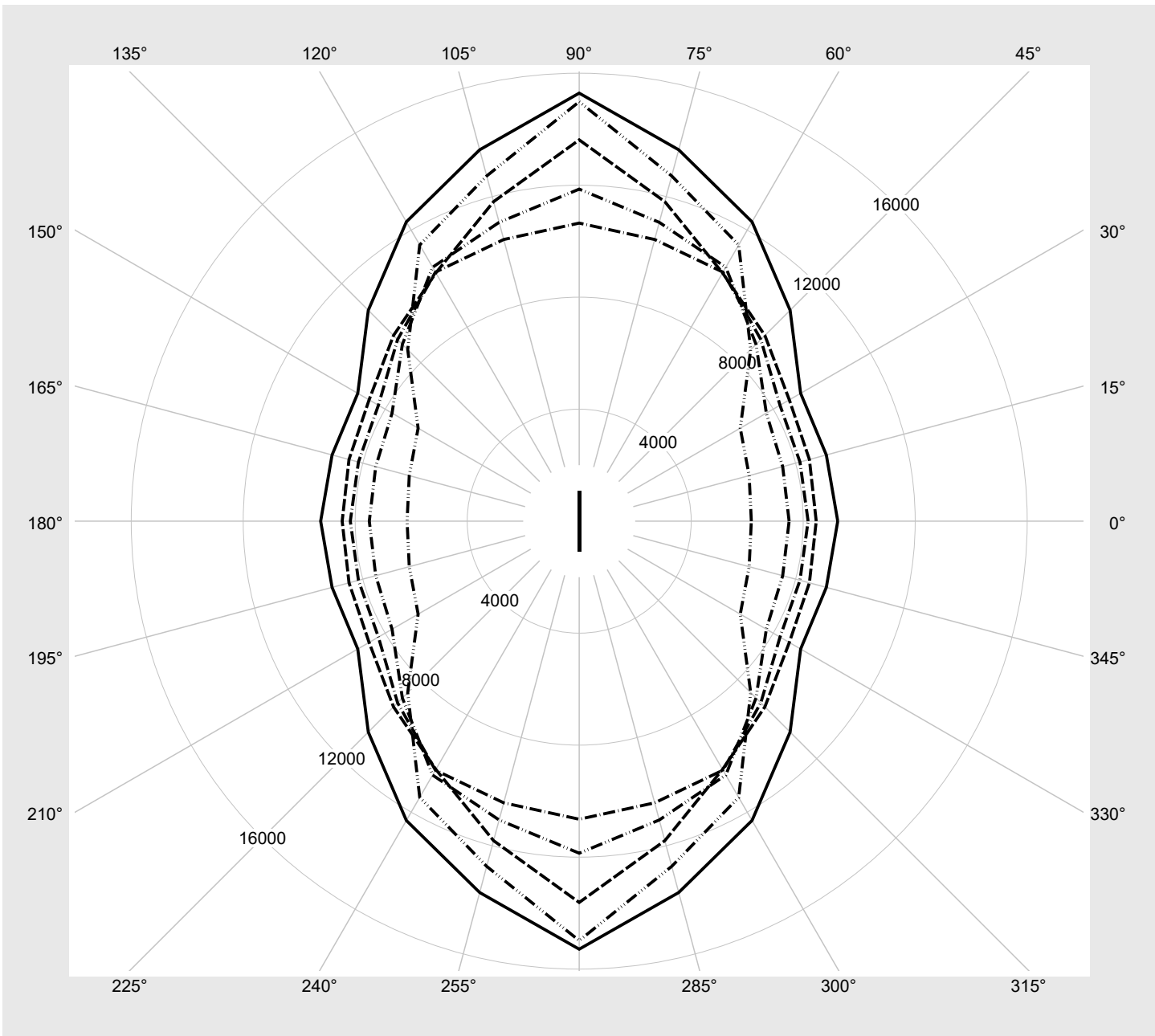
**Family**  
**Modario® 31**

**Order number: 51RN11MB4B5G5**  
**EAN: 4069025522931**

**LP number**  
**59298\_114**

**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	<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	11850	67.8
13	ON	ON	OFF	ON	11070	62.8
11	ON	OFF	ON	ON	10270	57.9
9	ON	OFF	OFF	ON	9470	52.9
7	OFF	ON	ON	ON	8660	48.0
5	OFF	ON	OFF	ON	7830	43.3