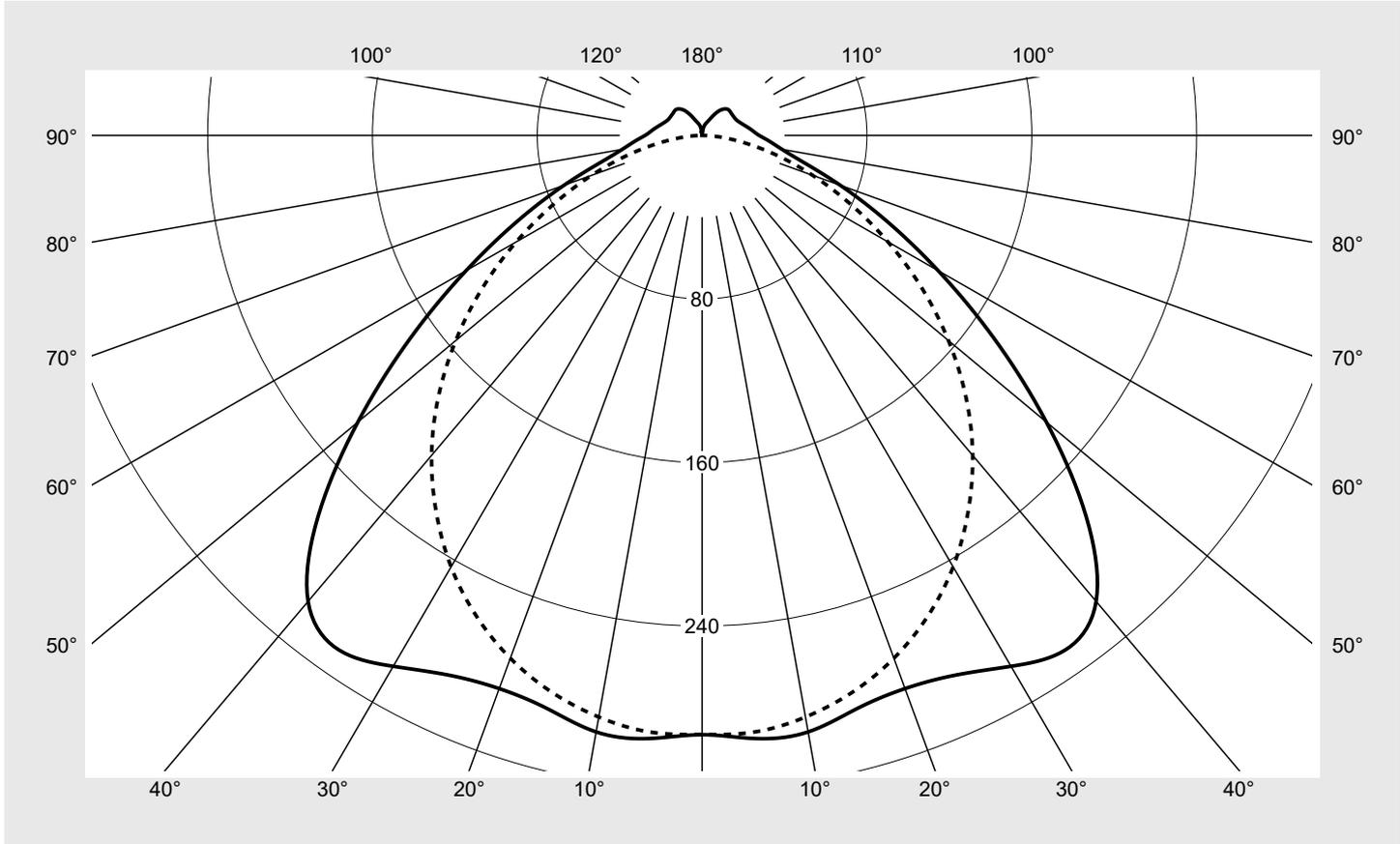


# Photometric test report

<b>Family</b> <b>Modario® 31</b> 	<b>Order number: 53BM812DV4F5D23S</b> <b>EAN: 4069025254931</b>	<b>LP number</b> <b>59594_24</b>
	<b>Version</b> diffuser optic, frosted, wide distribution <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI <b>Setting</b> AC-mode <b>Rated values</b> Net luminous flux = 15730 lm Power consumption = 91.0 W Luminous efficacy = 172.9 lm/W	<b>serial documentation</b> <b>02.05.2024</b>

**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 307 cd/klm**



Classifications	
DIN 5040	A 4 1
CIE	N1=47 N2=80 N3=95 N4=93 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	92.6%
$\phi_o$	7.4%

**Measurement conditions**  
DIN EN 13032 and DIN 5032

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<b>Family</b> <b>Modario® 31</b>	<b>Order number: 53BM812DV4F5D23S</b> <b>EAN: 4069025254931</b>	<b>LP number</b> <b>59594_24</b>
<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>siteco</b>

C-planes $\gamma$	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Phi-zone	Total Phi-zone
0°	293.1	293.1	293.1	293.1	293.1	293.1	293.1	1.8	1.8
5°	296.1	295.6	293.1	293.6	293.8	293.0	292.9	14.0	15.8
10°	296.3	296.3	293.6	293.6	292.6	289.9	288.9	27.9	43.7
15°	290.3	290.9	288.4	289.1	288.3	284.2	281.9	40.8	84.5
20°	287.9	288.2	282.8	281.1	280.6	275.9	272.2	52.8	137.3
25°	291.3	290.8	281.6	274.0	270.0	264.7	259.4	64.0	201.2
30°	299.8	298.4	283.7	269.7	258.3	250.5	243.7	74.6	275.8
35°	307.3	306.0	288.6	266.7	246.6	233.7	225.0	84.2	360.1
40°	297.5	299.0	287.4	263.1	235.0	215.2	204.3	91.1	451.1
45°	263.6	268.2	268.7	253.4	221.8	194.2	181.1	92.3	543.4
50°	218.1	223.5	232.0	231.1	204.9	171.7	156.1	87.5	630.9
55°	172.9	177.3	186.9	195.4	181.1	147.5	130.2	77.8	708.7
60°	132.3	135.3	142.3	152.9	149.4	121.4	104.1	64.8	773.5
65°	98.5	100.2	104.0	112.2	114.5	94.5	79.4	50.9	824.4
70°	71.4	72.6	74.4	79.3	82.2	69.0	57.1	37.9	862.3
75°	51.0	51.6	52.9	55.5	55.9	46.4	37.5	27.0	889.4
80°	39.4	39.1	38.7	38.1	35.5	27.5	20.9	18.8	908.2
85°	32.8	32.1	30.1	26.5	21.0	13.7	8.3	13.1	921.3
90°	27.7	27.1	24.5	19.3	12.6	5.6	0.8	9.4	930.7
95°	24.8	24.4	22.4	17.8	11.6	5.3	0.8	8.6	939.3
100°	22.5	22.2	20.5	16.7	11.5	5.5	0.8	7.9	947.2
105°	20.6	20.3	18.7	16.0	11.5	5.9	0.8	7.3	954.6
110°	19.2	18.7	17.6	15.5	11.7	6.3	0.7	6.8	961.4
115°	18.2	17.8	17.0	15.3	12.2	5.8	0.8	6.4	967.8
120°	17.9	17.4	16.9	15.5	12.3	5.3	0.8	6.1	973.9
125°	17.8	17.4	16.9	15.5	11.8	5.2	0.8	5.7	979.6
130°	17.9	17.4	16.8	15.0	10.1	5.0	0.9	5.2	984.7
135°	17.9	17.3	16.2	13.6	8.1	4.3	1.0	4.5	989.2
140°	16.9	16.0	14.5	11.2	6.7	3.5	1.1	3.6	992.8
145°	14.9	14.0	12.0	8.5	5.5	2.8	1.2	2.7	995.4
150°	11.8	10.8	9.0	6.5	4.7	2.2	1.4	1.8	997.3
155°	8.6	8.1	7.0	5.2	4.0	1.7	1.5	1.2	998.5
160°	6.8	6.5	5.3	4.3	3.2	1.5	1.5	0.8	999.2
165°	5.5	5.3	3.9	3.4	2.1	1.6	1.6	0.5	999.7
170°	3.8	3.1	2.5	2.0	1.6	1.6	1.6	0.2	999.9
175°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.1	1000.0
180°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.0	1000.0

## Photometric test report

Family <b>Modario® 31</b>	Order number: <b>53BM812DV4F5D23S</b> EAN: <b>4069025254931</b>	LP number <b>59594_24</b>
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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	24.5	26.2	24.8	26.5	26.8	24.3	26.0	24.6	26.3	26.6
	3H	25.3	26.8	25.7	27.2	27.5	25.4	26.9	25.8	27.2	27.6
	4H	25.6	27.1	26.0	27.4	27.8	25.8	27.2	26.2	27.6	27.9
	6H	25.9	27.2	26.3	27.6	28.0	26.0	27.4	26.4	27.7	28.1
	8H	26.1	27.3	26.5	27.7	28.1	26.1	27.4	26.5	27.8	28.2
	12H	26.3	27.4	26.7	27.8	28.2	26.2	27.4	26.6	27.8	28.2
4H	2H	25.1	26.6	25.5	26.9	27.3	25.0	26.4	25.4	26.8	27.1
	3H	26.1	27.3	26.5	27.7	28.1	26.3	27.6	26.8	27.9	28.3
	4H	26.5	27.6	27.0	28.0	28.5	26.8	27.9	27.3	28.3	28.8
	6H	26.9	27.9	27.4	28.3	28.8	27.2	28.2	27.6	28.6	29.0
	8H	27.1	28.0	27.6	28.4	28.9	27.3	28.2	27.8	28.6	29.1
	12H	27.4	28.1	27.8	28.6	29.1	27.4	28.2	27.9	28.6	29.1
8H	4H	26.8	27.7	27.2	28.1	28.6	27.1	28.0	27.5	28.4	28.9
	6H	27.3	28.0	27.8	28.5	29.0	27.6	28.3	28.0	28.8	29.3
	8H	27.6	28.2	28.1	28.7	29.2	27.7	28.4	28.2	28.9	29.4
	12H	27.9	28.5	28.4	29.0	29.5	27.9	28.4	28.4	28.9	29.5
12H	4H	26.8	27.6	27.3	28.1	28.6	27.1	27.9	27.6	28.4	28.8
	6H	27.4	28.0	27.9	28.5	29.0	27.6	28.3	28.1	28.8	29.3
	8H	27.7	28.3	28.2	28.8	29.3	27.9	28.4	28.4	28.9	29.4

<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1476</b>	<b>H(C0) = 25</b>	<b>H(C180) = 25</b>
			<b>B = 75</b>	<b>H(C90) = 0</b>	<b>H(C270) = 0</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°	45°	39732.3	40775.1	41901.9	41206.7	38210.2	35928.8	36397.1	
50°	50°	34504.0	35702.1	38158.8	39877.8	37780.5	34423.2	34508.6	
55°	55°	29015.1	30080.9	32782.6	36223.0	36229.6	32539.4	32265.9	
60°	60°	23837.2	24676.9	26952.7	30855.0	32943.0	30007.0	29597.7	
65°	65°	19317.8	19936.2	21603.6	25065.0	28373.1	26798.6	26684.3	
70°	70°	15473.2	15998.1	17226.8	20000.8	23430.7	23177.2	23707.4	
75°	75°	12470.9	12868.6	13972.8	16208.9	18918.3	19252.5	20577.1	
80°	80°	11154.7	11327.5	11993.2	13354.8	14949.0	15123.3	17098.3	
85°	85°	11115.9	11195.8	11423.2	11693.0	11805.9	11229.7	13595.6	

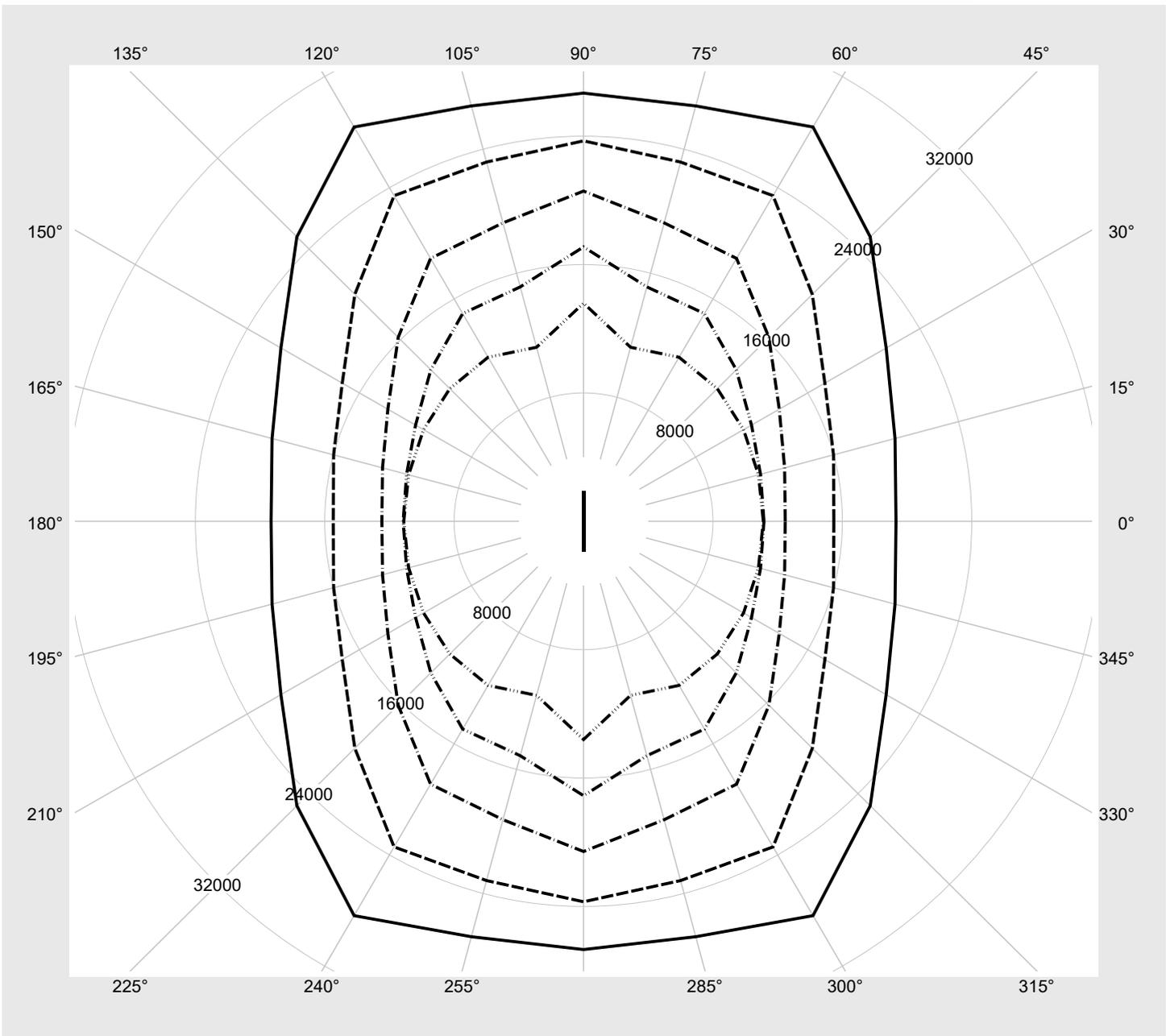
**Photometric test report**

**Family**  
**Modario® 31**

**Order number: 53BM812DV4F5D23S**  
**EAN: 4069025254931**

**LP number**  
**59594\_24**

**Luminance values in cd/m<sup>2</sup>**     γ 65°   γ 70°   γ 75°   γ 80°   γ 85°     **siteco**



## Photometric test report

Family <b>Modario® 31</b>	Order number: <b>53BM812DV4F5D23S</b> EAN: <b>4069025254931</b>	LP number <b>59594_24</b>
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<b>Dimming levels table</b>	environmental temperature: 25°C	<b>sITeco</b>
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	15730	91.0
95	240	252	14928	86.1
90	227	250	14173	81.7
85	213	248	13354	76.9
80	200	245	12586	72.4
75	187	243	11811	68.0
70	174	240	11029	63.5
65	161	237	10240	59.2
60	148	234	9445	54.9
55	135	231	8643	50.5
50	123	227	7895	46.6
45	110	223	7083	42.2
40	97	219	6262	37.9
35	85	214	5500	34.0
30	73	208	4733	30.1
25	61	202	3961	26.2
20	48	193	3119	22.1
15	36	182	2338	18.2
10	24	168	1552	14.2
5	12	142	762	10.4
1	4	102	233	7.9