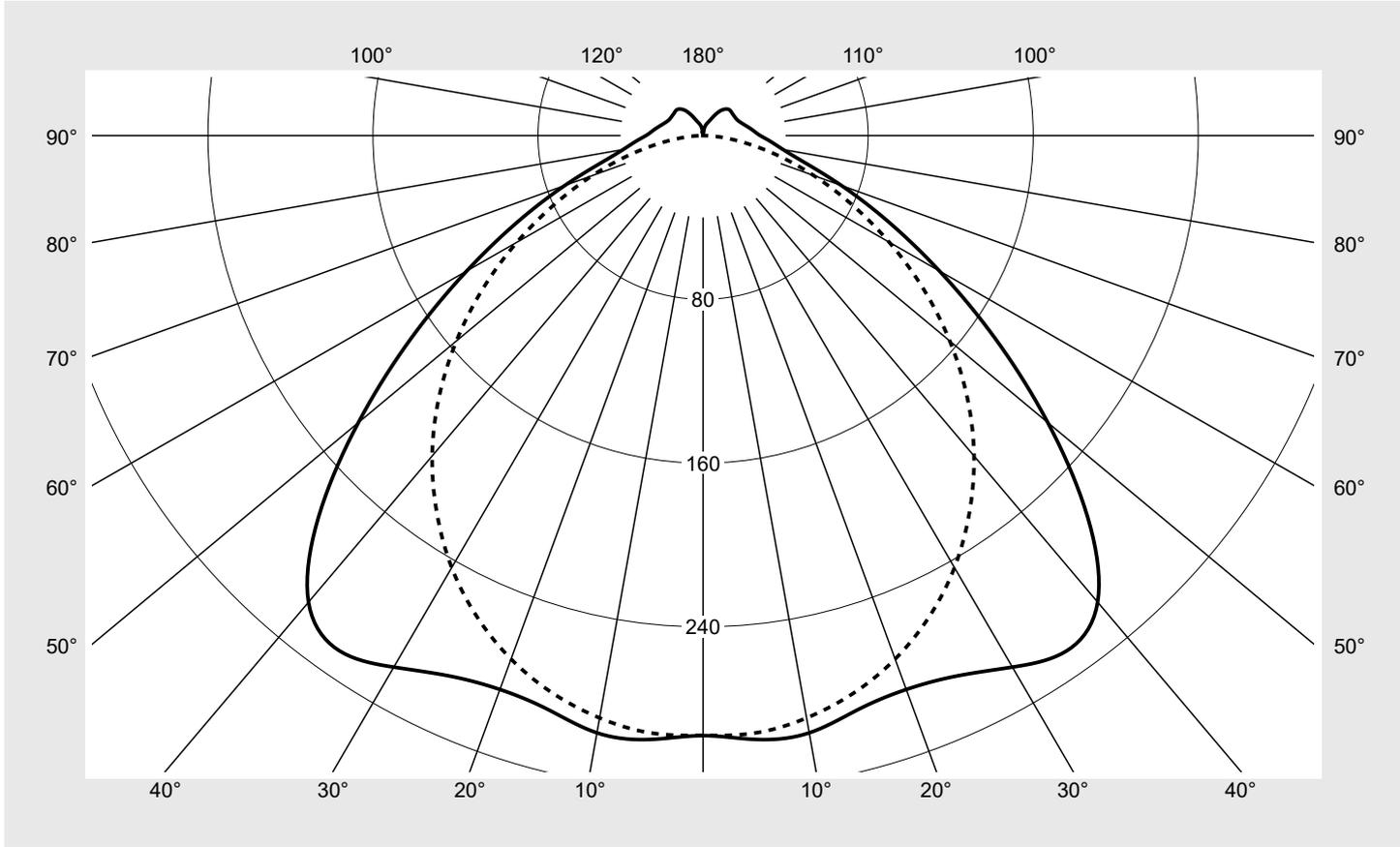


# Photometric test report

<b>Family</b> <b>Modario® 31</b> 	<b>Order number: 53BM812DV4D5D23S</b> <b>EAN: 4069025254924</b>	<b>LP number</b> <b>59594_23</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 = 13680 lm Power consumption = 78.7 W Luminous efficacy = 173.8 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

## Photometric test report

<b>Family</b> <b>Modario® 31</b>	<b>Order number: 53BM812DV4D5D23S</b> <b>EAN: 4069025254924</b>	<b>LP number</b> <b>59594_23</b>
<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>siteco</b>

C-planes γ	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

<b>Family</b> Modario® 31	<b>Order number: 53BM812DV4D5D23S</b> <b>EAN: 4069025254924</b>	<b>LP number</b> 59594_23
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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	24.0	25.7	24.3	26.0	26.3	23.8	25.5	24.1	25.8	26.1
	3H	24.8	26.4	25.2	26.7	27.0	24.9	26.4	25.3	26.8	27.1
	4H	25.2	26.6	25.5	26.9	27.3	25.3	26.7	25.7	27.1	27.4
	6H	25.4	26.8	25.9	27.1	27.5	25.5	26.9	25.9	27.3	27.6
	8H	25.6	26.9	26.0	27.2	27.6	25.6	26.9	26.1	27.3	27.7
	12H	25.8	26.9	26.2	27.3	27.7	25.7	26.9	26.1	27.3	27.7
4H	2H	24.6	26.1	25.0	26.4	26.8	24.5	25.9	24.9	26.3	26.7
	3H	25.6	26.9	26.0	27.2	27.6	25.8	27.1	26.3	27.5	27.9
	4H	26.0	27.1	26.5	27.5	28.0	26.4	27.5	26.8	27.9	28.3
	6H	26.4	27.4	26.9	27.8	28.3	26.7	27.7	27.2	28.1	28.6
	8H	26.6	27.5	27.1	28.0	28.4	26.8	27.7	27.3	28.1	28.6
	12H	26.9	27.7	27.4	28.1	28.6	26.9	27.7	27.4	28.2	28.6
8H	4H	26.3	27.2	26.8	27.6	28.1	26.6	27.5	27.1	27.9	28.4
	6H	26.8	27.6	27.3	28.0	28.5	27.1	27.8	27.6	28.3	28.8
	8H	27.1	27.8	27.6	28.2	28.7	27.2	27.9	27.7	28.4	28.9
	12H	27.4	28.0	27.9	28.5	29.0	27.4	27.9	27.9	28.4	29.0
12H	4H	26.3	27.1	26.8	27.6	28.1	26.6	27.4	27.1	27.9	28.4
	6H	26.9	27.5	27.4	28.0	28.5	27.2	27.8	27.7	28.3	28.8
	8H	27.2	27.8	27.7	28.3	28.8	27.4	27.9	27.9	28.4	29.0

<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°		34554.2	35461.1	36441.0	35836.5	33230.5	31246.4	31653.7	
50°		30007.3	31049.3	33185.8	34680.7	32856.8	29937.0	30011.3	
55°		25233.7	26160.7	28510.3	31502.3	31508.0	28298.7	28060.9	
60°		20730.7	21460.9	23440.1	26833.8	28649.7	26096.3	25740.4	
65°		16800.2	17338.0	18788.2	21798.4	24675.4	23306.1	23206.7	
70°		13456.6	13913.2	14981.7	17394.2	20377.1	20156.6	20617.8	
75°		10845.7	11191.5	12151.8	14096.5	16452.8	16743.4	17895.4	
80°		9700.9	9851.3	10430.2	11614.3	13000.8	13152.4	14870.0	
85°		9667.3	9736.7	9934.5	10169.1	10267.3	9766.2	11823.8	

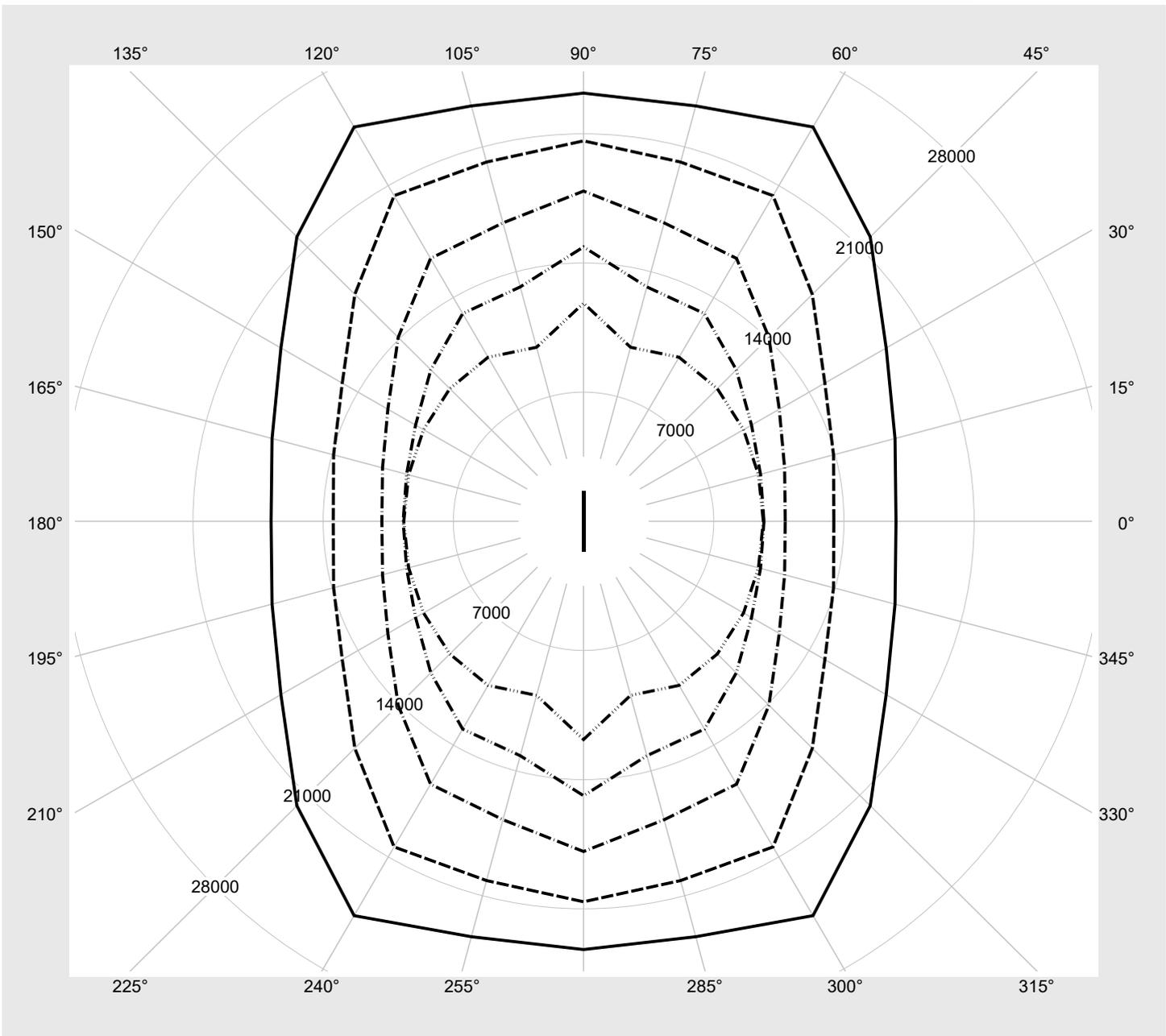
**Photometric test report**

**Family**  
**Modario® 31**

**Order number: 53BM812DV4D5D23S**  
**EAN: 4069025254924**

**LP number**  
**59594\_23**

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



## Photometric test report

<b>Family</b> <b>Modario® 31</b>	<b>Order number: 53BM812DV4D5D23S</b> <b>EAN: 4069025254924</b>	<b>LP number</b> <b>59594_23</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	13680	78.7
95	240	252	12972	74.5
90	227	250	12308	70.8
85	214	248	11640	67.0
80	201	245	10966	63.1
75	187	243	10234	59.2
70	174	240	9551	55.4
65	162	238	8913	52.0
60	149	234	8220	48.3
55	136	231	7522	44.6
50	123	227	6821	40.9
45	111	224	6168	37.4
40	98	219	5457	33.8
35	86	214	4797	30.4
30	73	208	4078	26.8
25	61	202	3411	23.6
20	49	194	2740	20.2
15	37	183	2066	16.8
10	25	169	1389	13.5
5	13	145	708	10.2
2	5	110	253	8.0