
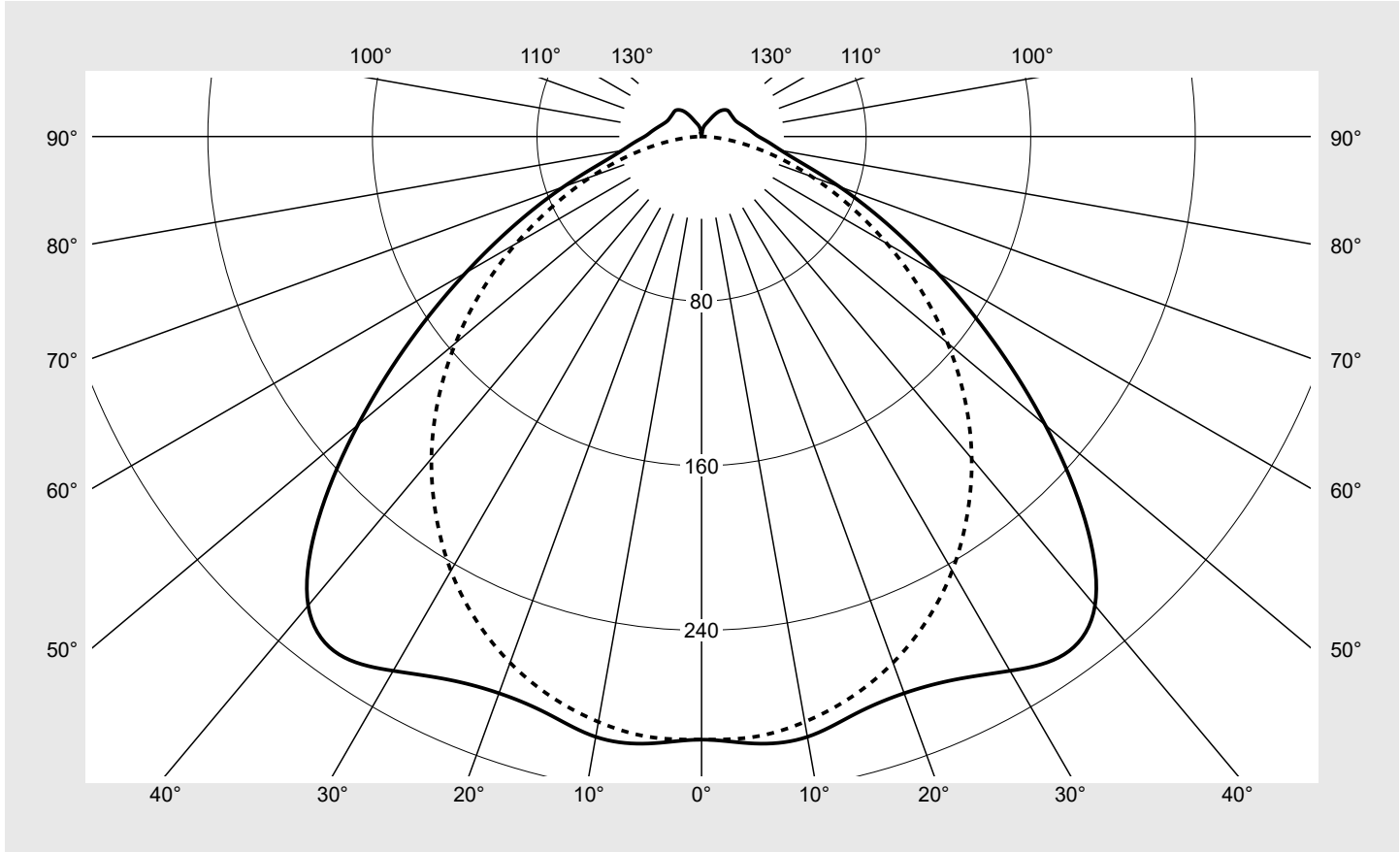


# Photometric test report

<b>Family</b> <b>Modario® 31</b> 	<b>Order number: 53BM812MV4FXD2</b> <b>EAN: 4069025123244</b>	<b>LP number</b> <b>59594_15</b>
	<b>Version</b> diffuser optic, frosted, wide distribution <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG Multilumen <b>Rated values</b> Net luminous flux = 15440 lm Power consumption = 82.3 W Luminous efficacy = 187.6 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: 53BM812MV4FXD2</b> <b>EAN: 4069025123244</b>	<b>LP number</b> <b>59594_15</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>53BM812MV4FXD2</b> EAN: <b>4069025123244</b>	LP number <b>59594_15</b>
------------------------------	--	------------------------------

<b>UGR-Table</b>	<b>Standard room</b>	<b>siteco</b>
------------------	----------------------	---------------

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	24.4	26.1	24.8	26.4	26.7	24.2	25.9	24.5	26.2	26.5
	3H	25.3	26.8	25.6	27.1	27.5	25.3	26.8	25.7	27.2	27.5
	4H	25.6	27.0	26.0	27.4	27.7	25.7	27.2	26.1	27.5	27.9
	6H	25.9	27.2	26.3	27.6	27.9	26.0	27.3	26.4	27.7	28.1
	8H	26.0	27.3	26.5	27.7	28.1	26.1	27.3	26.5	27.7	28.1
	12H	26.2	27.4	26.6	27.8	28.2	26.1	27.3	26.5	27.7	28.1
4H	2H	25.0	26.5	25.4	26.8	27.2	24.9	26.4	25.3	26.7	27.1
	3H	26.0	27.3	26.5	27.7	28.1	26.3	27.5	26.7	27.9	28.3
	4H	26.5	27.6	26.9	28.0	28.4	26.8	27.9	27.2	28.3	28.7
	6H	26.8	27.8	27.3	28.2	28.7	27.1	28.1	27.6	28.5	29.0
	8H	27.1	27.9	27.5	28.4	28.8	27.2	28.1	27.7	28.6	29.0
	12H	27.3	28.1	27.8	28.5	29.0	27.3	28.1	27.8	28.6	29.1
8H	4H	26.7	27.6	27.2	28.1	28.5	27.0	27.9	27.5	28.3	28.8
	6H	27.2	28.0	27.7	28.4	28.9	27.5	28.2	28.0	28.7	29.2
	8H	27.5	28.2	28.0	28.7	29.2	27.7	28.3	28.2	28.8	29.3
	12H	27.9	28.4	28.4	28.9	29.4	27.8	28.4	28.3	28.9	29.4
12H	4H	26.8	27.6	27.2	28.0	28.5	27.1	27.8	27.5	28.3	28.8
	6H	27.3	28.0	27.8	28.4	29.0	27.6	28.2	28.1	28.7	29.2
	8H	27.6	28.2	28.1	28.7	29.2	27.8	28.3	28.3	28.8	29.4

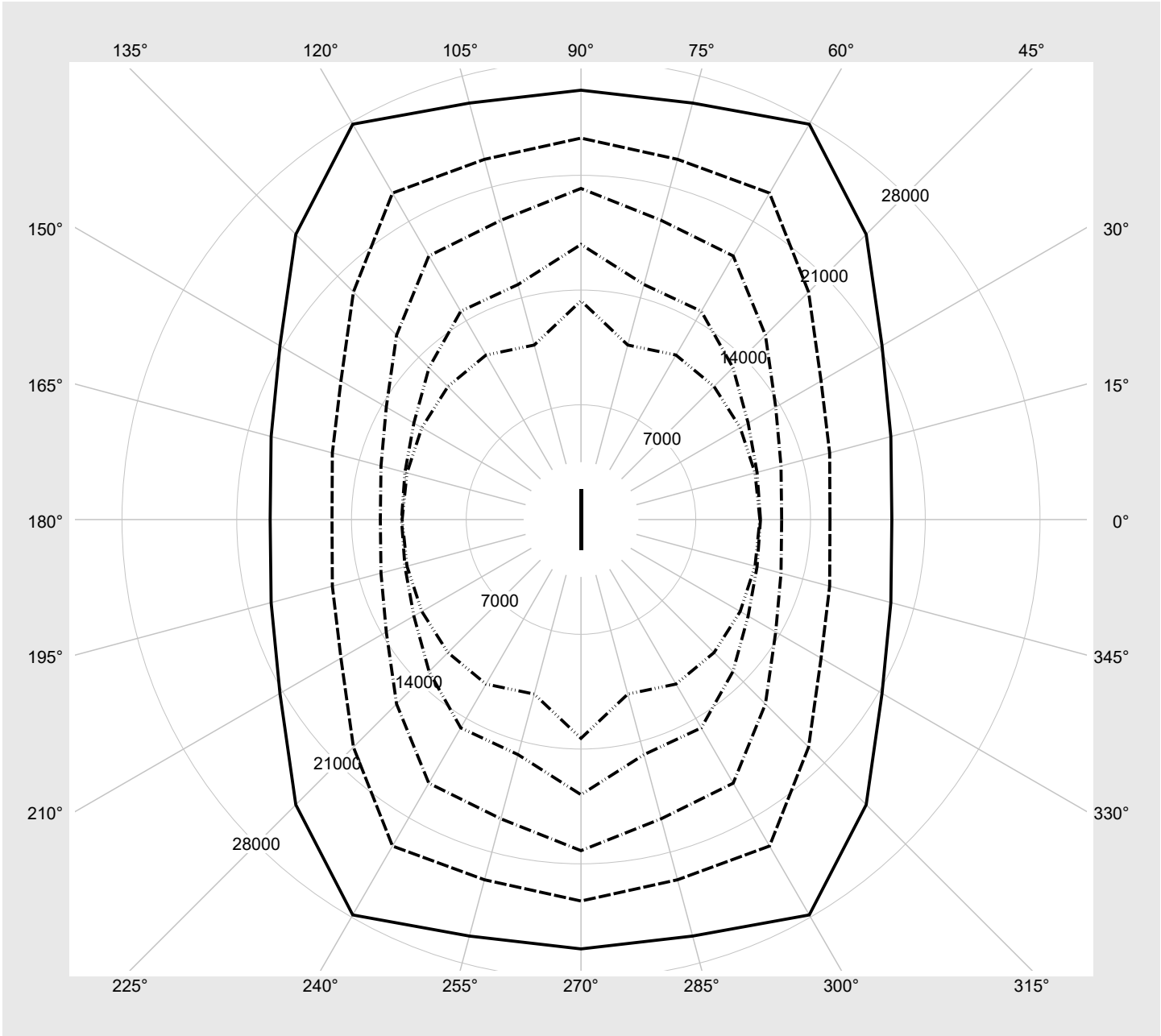
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1476</b>	<b>H(C0) = 25</b>	<b>H(C180) = 25</b>
			<b>B = 75</b>	<b>H(C90) = 0</b>	<b>H(C270) = 0</b>

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°		38999.8	40023.3	41129.3	40447.1	37505.8	35266.4	35726.1	
50°		33867.8	35043.9	37455.3	39142.6	37084.0	33788.6	33872.4	
55°		28480.1	29526.4	32178.3	35555.2	35561.7	31939.5	31671.1	
60°		23397.8	24221.9	26455.8	30286.1	32335.6	29453.8	29052.0	
65°		18961.6	19568.7	21205.4	24602.9	27850.0	26304.5	26192.4	
70°		15187.9	15703.2	16909.2	19632.1	22998.8	22749.9	23270.3	
75°		12241.0	12631.4	13715.2	15910.1	18569.5	18897.5	20197.8	
80°		10949.0	11118.7	11772.1	13108.6	14673.4	14844.5	16783.1	
85°		10911.0	10989.4	11212.6	11477.4	11588.3	11022.7	13345.0	

**Photometric test report**

<b>Family</b> <b>Modario® 31</b>	<b>Order number: 53BM812MV4FXD2</b> <b>EAN: 4069025123244</b>	<b>LP number</b> <b>59594_15</b>
-------------------------------------	--	-------------------------------------

**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>53BM812MV4FXD2</b> EAN: <b>4069025123244</b>	LP number <b>59594_15</b>
------------------------------	--	------------------------------

<b>Multilumen Table</b>	environmental temperature: 25°C	<b>sITeco</b>
-------------------------	---------------------------------	---------------

DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
1	A	C	E	15440	82.3
2	A	C	F	14548	77.2
3	A	D	E	13719	72.4
4	A	D	F	12962	68.1
5	B	C	E	12194	63.8
6	B	C	F	11417	59.5
7	B	D	E	10649	55.2
8	B	D	F	9861	51.0