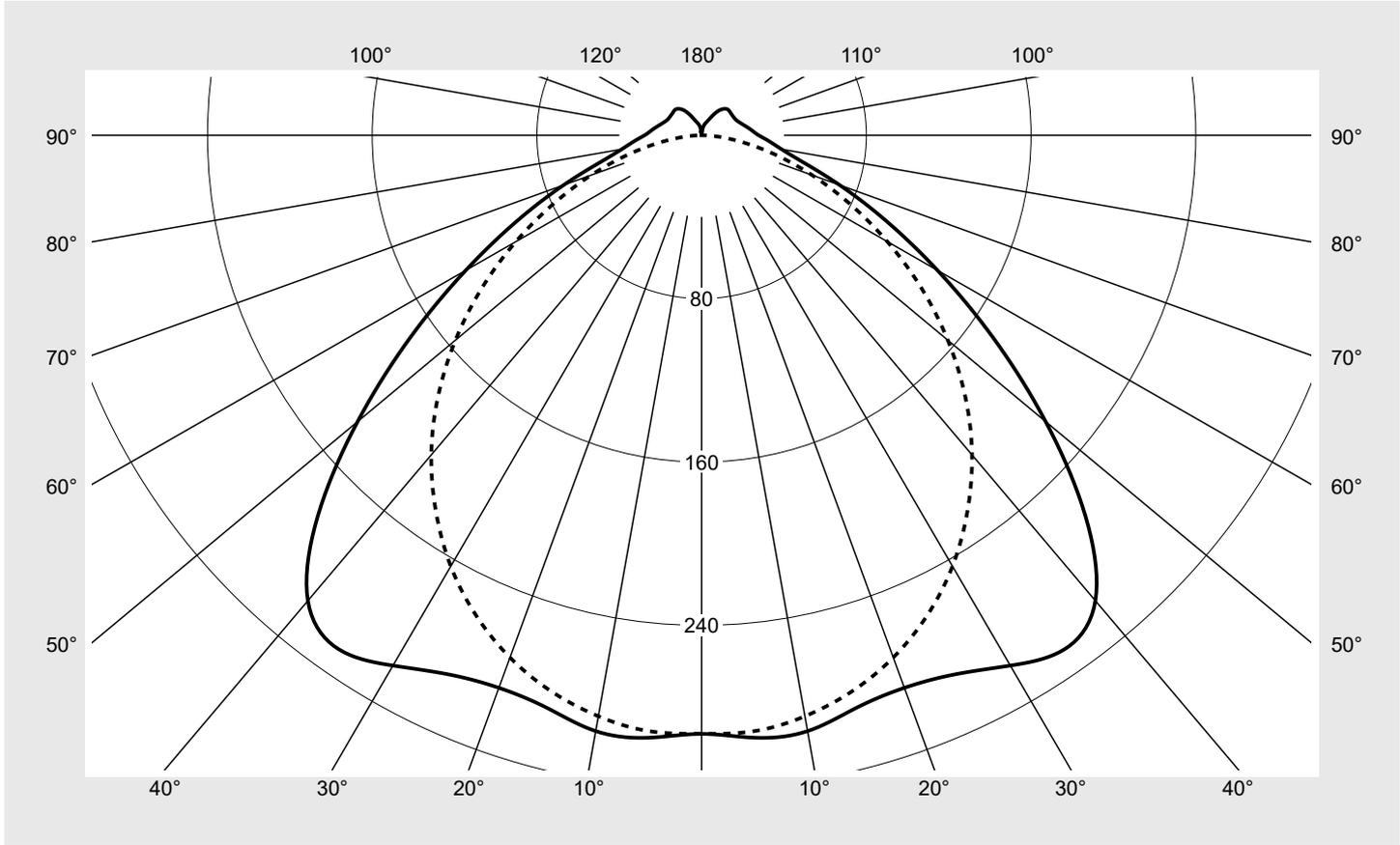


# Photometric test report

<b>Family</b> <b>Modario® 31</b>	<b>Order number: 53BM812MV6AXC2</b> <b>EAN: 4069025540843</b>	<b>LP number</b> <b>59594_199</b>
	<b>Version</b> diffuser optic, frosted, wide distribution <b>Lamps</b> LED 6500 K   CRI ≥ 80 <b>Controlgear</b> ECG Multilumen <b>Rated values</b> Net luminous flux = 10390 lm Power consumption = 60.4 W Luminous efficacy = 172 lm/W	<b>serial</b> <b>documentation</b> <b>10.09.2025</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>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

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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	23.0	24.7	23.4	25.0	25.4	22.8	24.5	23.2	24.8	25.1
	3H	23.9	25.4	24.3	25.7	26.1	23.9	25.5	24.3	25.8	26.2
	4H	24.2	25.6	24.6	26.0	26.3	24.3	25.8	24.7	26.1	26.5
	6H	24.5	25.8	24.9	26.2	26.6	24.6	25.9	25.0	26.3	26.7
	8H	24.7	25.9	25.1	26.3	26.7	24.7	25.9	25.1	26.3	26.7
	12H	24.8	26.0	25.3	26.4	26.8	24.7	25.9	25.1	26.3	26.7
4H	2H	23.7	25.1	24.1	25.5	25.8	23.6	25.0	24.0	25.3	25.7
	3H	24.7	25.9	25.1	26.3	26.7	24.9	26.1	25.3	26.5	26.9
	4H	25.1	26.2	25.5	26.6	27.0	25.4	26.5	25.8	26.9	27.3
	6H	25.5	26.4	25.9	26.9	27.3	25.7	26.7	26.2	27.1	27.6
	8H	25.7	26.6	26.1	27.0	27.5	25.9	26.8	26.3	27.2	27.7
	12H	25.9	26.7	26.4	27.2	27.6	25.9	26.7	26.4	27.2	27.7
8H	4H	25.3	26.2	25.8	26.7	27.1	25.6	26.5	26.1	27.0	27.4
	6H	25.9	26.6	26.3	27.1	27.6	26.1	26.9	26.6	27.3	27.8
	8H	26.1	26.8	26.6	27.3	27.8	26.3	27.0	26.8	27.4	27.9
	12H	26.5	27.0	27.0	27.5	28.1	26.4	27.0	26.9	27.5	28.0
12H	4H	25.4	26.2	25.9	26.6	27.1	25.7	26.5	26.2	26.9	27.4
	6H	25.9	26.6	26.4	27.1	27.6	26.2	26.8	26.7	27.3	27.8
	8H	26.3	26.8	26.8	27.3	27.9	26.4	27.0	26.9	27.5	28.0

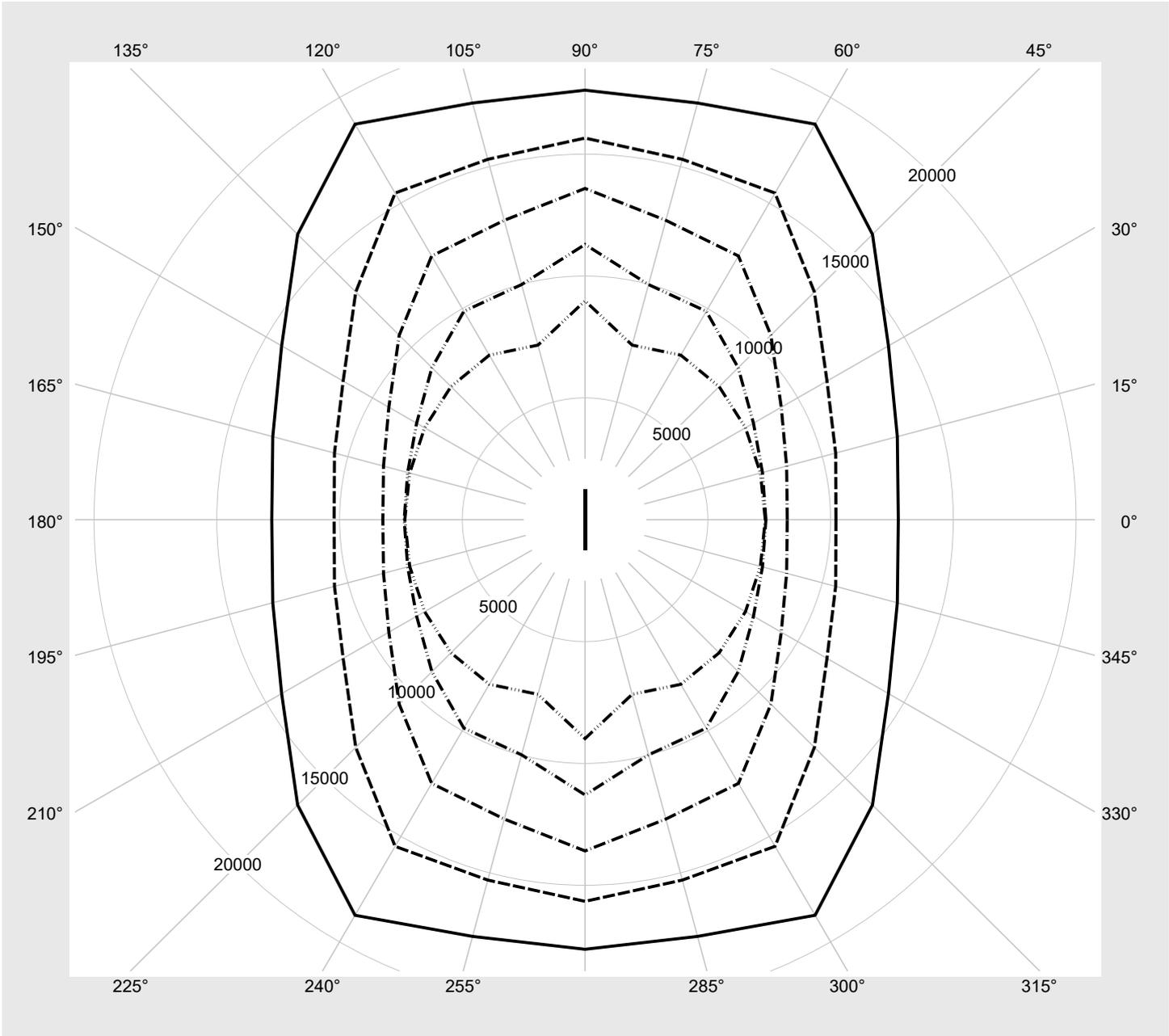
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1476</b>	<b>H(C0) = 25</b>	<b>H(C180) = 25</b>
			<b>B = 75</b>	<b>H(C90) = 0</b>	<b>H(C270) = 0</b>

C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>							
		0°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
	45°	26244.0	26932.8	27677.1	27217.9	25238.7	23731.7	24041.1	
	50°	22790.6	23582.0	25204.7	26340.1	24954.9	22737.3	22793.7	
	55°	19165.1	19869.1	21653.6	23926.1	23930.4	21492.9	21312.3	
	60°	15745.0	16299.6	17802.8	20380.4	21759.5	19820.3	19549.9	
	65°	12759.8	13168.3	14269.7	16555.9	18741.0	17701.0	17625.6	
	70°	10220.4	10567.1	11378.7	13211.0	15476.5	15309.0	15659.2	
	75°	8237.3	8500.0	9229.4	10706.3	12495.9	12716.7	13591.6	
	80°	7367.9	7482.1	7921.8	8821.1	9874.1	9989.3	11293.8	
	85°	7342.3	7395.0	7545.3	7723.5	7798.1	7417.5	8980.2	

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



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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		
1	A	C	E	10390	60.4
2	A	C	F	9850	56.9
3	A	D	E	9310	53.4
4	A	D	F	8830	50.4
5	B	C	E	8340	47.4
6	B	C	F	7840	44.3
7	B	D	E	7350	41.3
8	B	D	F	6910	38.7