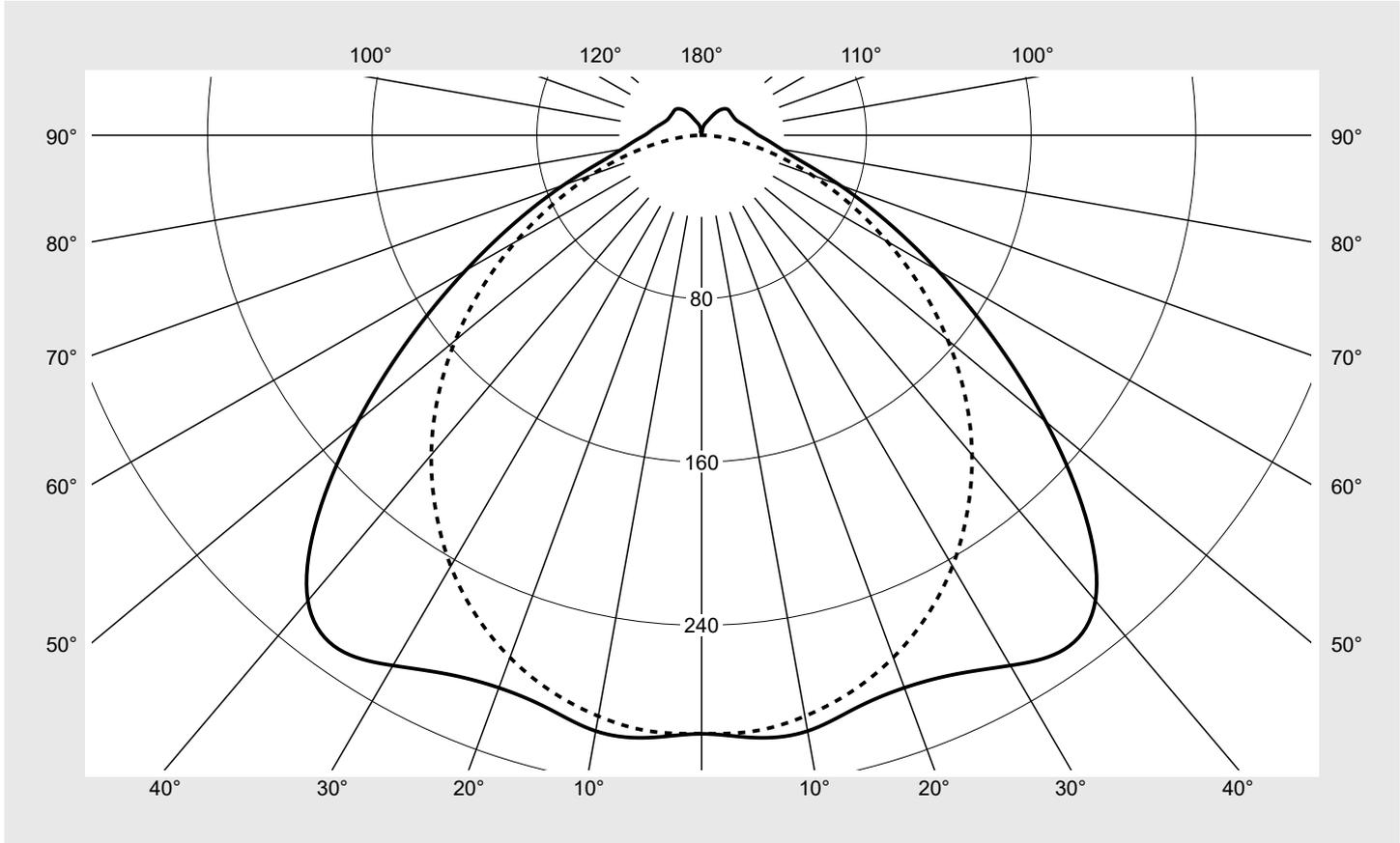


# Photometric test report

<b>Family</b> <b>Modario® 31</b>	<b>Order number: 53BM812CV675C2</b> <b>EAN: 4069025186010</b>	<b>LP number</b> <b>59594_95</b>
	<b>Version</b> diffuser optic, frosted, wide distribution <b>Lamps</b> LED 6500 K   CRI ≥ 80 <b>Controlgear</b> ECG-Multilumen CLOi <b>Rated values</b> Net luminous flux = 7670 lm Power consumption = 42.1 W Luminous efficacy = 182.2 lm/W	<b>serial</b> <b>documentation</b> <b>16.07.2024</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>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

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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	22.0	23.7	22.3	24.0	24.3	21.8	23.5	22.1	23.8	24.1
	3H	22.8	24.4	23.2	24.7	25.0	22.9	24.4	23.3	24.8	25.1
	4H	23.1	24.6	23.5	24.9	25.3	23.3	24.7	23.7	25.1	25.4
	6H	23.4	24.8	23.8	25.1	25.5	23.5	24.9	23.9	25.2	25.6
	8H	23.6	24.8	24.0	25.2	25.6	23.6	24.9	24.0	25.3	25.7
	12H	23.8	24.9	24.2	25.3	25.7	23.7	24.9	24.1	25.3	25.7
4H	2H	22.6	24.1	23.0	24.4	24.8	22.5	23.9	22.9	24.3	24.7
	3H	23.6	24.8	24.0	25.2	25.6	23.8	25.1	24.3	25.4	25.8
	4H	24.0	25.1	24.5	25.5	26.0	24.3	25.4	24.8	25.9	26.3
	6H	24.4	25.4	24.9	25.8	26.3	24.7	25.7	25.1	26.1	26.5
	8H	24.6	25.5	25.1	25.9	26.4	24.8	25.7	25.3	26.1	26.6
	12H	24.9	25.6	25.3	26.1	26.6	24.9	25.7	25.4	26.1	26.6
8H	4H	24.3	25.2	24.8	25.6	26.1	24.6	25.5	25.0	25.9	26.4
	6H	24.8	25.5	25.3	26.0	26.5	25.1	25.8	25.5	26.3	26.8
	8H	25.1	25.7	25.6	26.2	26.7	25.2	25.9	25.7	26.4	26.9
	12H	25.4	26.0	25.9	26.5	27.0	25.4	25.9	25.9	26.4	27.0
12H	4H	24.3	25.1	24.8	25.6	26.1	24.6	25.4	25.1	25.9	26.3
	6H	24.9	25.5	25.4	26.0	26.5	25.1	25.8	25.6	26.3	26.8
	8H	25.2	25.8	25.7	26.3	26.8	25.4	25.9	25.9	26.4	26.9

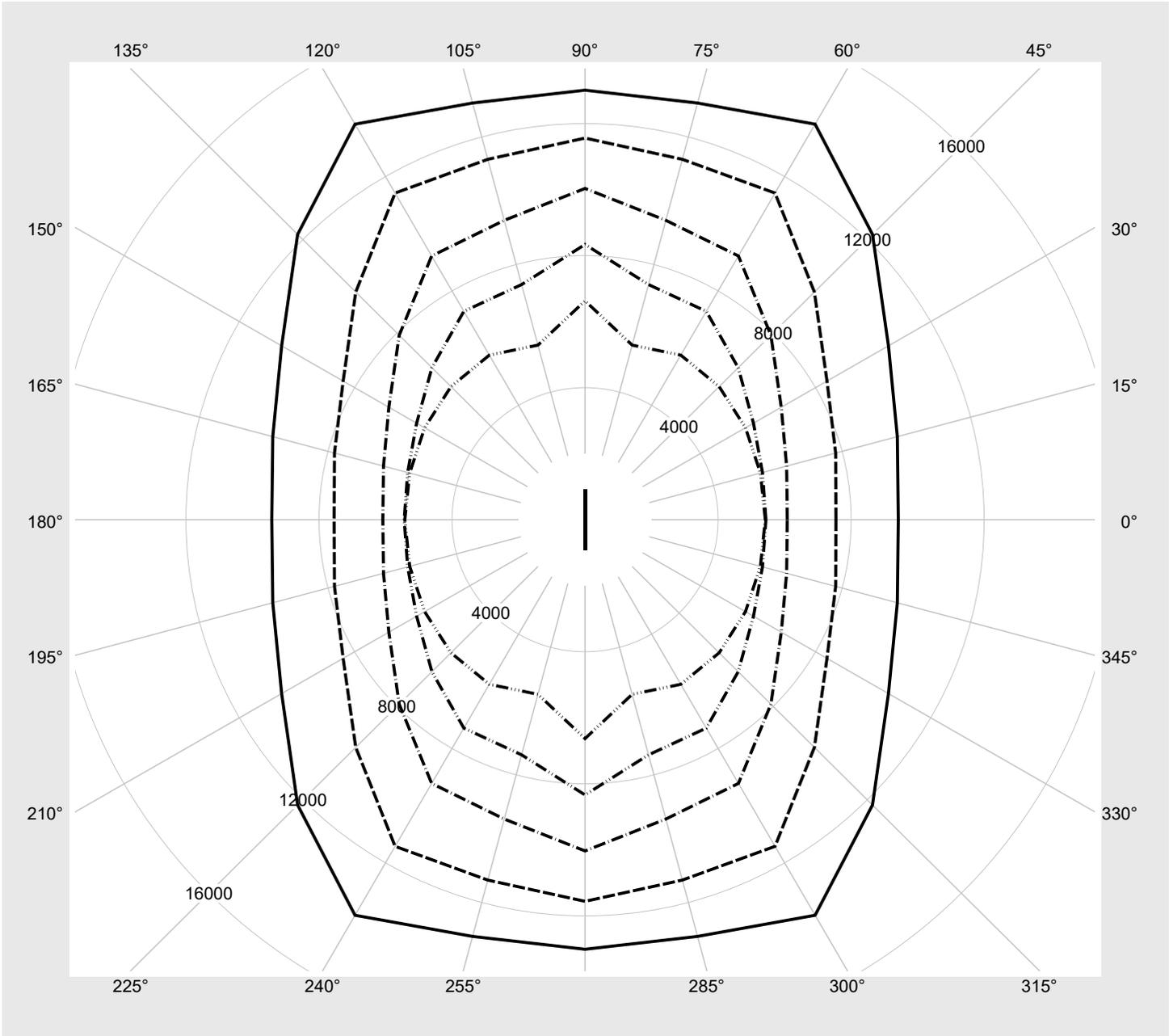
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1476</b>	<b>H(C0) = 25</b>	<b>H(C180) = 25</b>
			<b>B = 75</b>	<b>H(C90) = 0</b>	<b>H(C270) = 0</b>

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°		19373.6	19882.1	20431.5	20092.5	18631.4	17519.0	17747.4	
50°		16824.2	17408.5	18606.4	19444.5	18421.9	16784.9	16826.5	
55°		14147.8	14667.6	15984.9	17662.5	17665.7	15866.3	15733.0	
60°		11623.1	12032.5	13142.2	15045.0	16063.1	14631.5	14431.9	
65°		9419.4	9721.0	10534.0	12221.8	13834.8	13067.1	13011.4	
70°		7544.8	7800.7	8399.8	9752.5	11424.9	11301.3	11559.8	
75°		6080.9	6274.8	6813.2	7903.5	9224.6	9387.6	10033.5	
80°		5439.0	5523.3	5847.9	6511.8	7289.2	7374.2	8337.2	
85°		5420.2	5459.1	5570.0	5701.5	5756.6	5475.6	6629.3	

**Photometric test report**

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



### Photometric test report

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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]	Power consumption	Power consumption
	1	2	3			[W] end of lifetime	[W] average
1	A	C	E	7670	42.1	50.4	46.2
2	A	C	F	7080	38.8	46.5	42.6
3	A	D	E	6560	35.8	42.6	39.2
4	A	D	F	6110	33.2	39.6	36.4
5	B	C	E	5500	29.9	35.3	32.6
6	B	C	F	5040	27.4	32.0	29.7
7	B	D	E	4580	24.9	29.0	27.0
8	B	D	F	4030	22.0	25.7	23.8