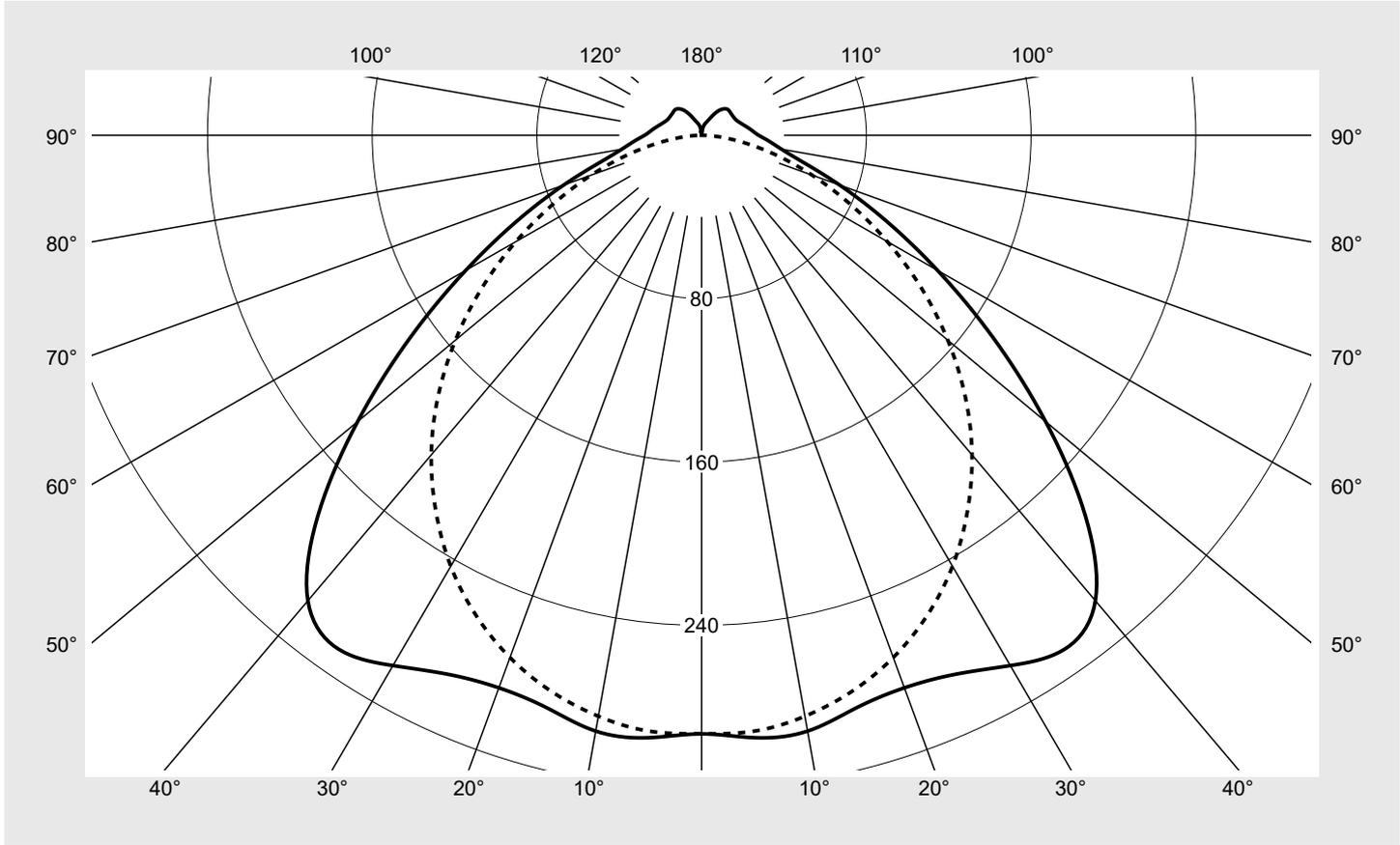


# Photometric test report

<b>Family</b> <b>Modario® 31</b> 	<b>Order number: 53BM812CV4A5D2</b> <b>EAN: 4069025185990</b>	<b>LP number</b> <b>59594_96</b>
	<b>Version</b> diffuser optic, frosted, wide distribution <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG-Multilumen CLOi <b>Rated values</b> Net luminous flux = 10570 lm Power consumption = 54.8 W Luminous efficacy = 192.9 lm/W	<b>serial 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

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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	23.1	24.8	23.4	25.1	25.4	22.9	24.6	23.2	24.9	25.2
	3H	23.9	25.5	24.3	25.8	26.2	24.0	25.5	24.4	25.9	26.2
	4H	24.3	25.7	24.7	26.0	26.4	24.4	25.8	24.8	26.2	26.6
	6H	24.5	25.9	25.0	26.2	26.6	24.6	26.0	25.1	26.4	26.7
	8H	24.7	26.0	25.1	26.3	26.7	24.7	26.0	25.2	26.4	26.8
	12H	24.9	26.0	25.3	26.4	26.9	24.8	26.0	25.2	26.4	26.8
4H	2H	23.7	25.2	24.1	25.5	25.9	23.6	25.0	24.0	25.4	25.8
	3H	24.7	26.0	25.1	26.3	26.7	24.9	26.2	25.4	26.6	27.0
	4H	25.1	26.2	25.6	26.6	27.1	25.5	26.6	25.9	27.0	27.4
	6H	25.5	26.5	26.0	26.9	27.4	25.8	26.8	26.3	27.2	27.7
	8H	25.7	26.6	26.2	27.1	27.5	25.9	26.8	26.4	27.3	27.7
	12H	26.0	26.8	26.5	27.2	27.7	26.0	26.8	26.5	27.3	27.7
8H	4H	25.4	26.3	25.9	26.7	27.2	25.7	26.6	26.2	27.0	27.5
	6H	25.9	26.7	26.4	27.1	27.6	26.2	26.9	26.7	27.4	27.9
	8H	26.2	26.9	26.7	27.3	27.9	26.4	27.0	26.8	27.5	28.0
	12H	26.5	27.1	27.0	27.6	28.1	26.5	27.0	27.0	27.5	28.1
12H	4H	25.4	26.2	25.9	26.7	27.2	25.7	26.5	26.2	27.0	27.5
	6H	26.0	26.6	26.5	27.1	27.6	26.3	26.9	26.8	27.4	27.9
	8H	26.3	26.9	26.8	27.4	27.9	26.5	27.0	27.0	27.5	28.1

<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°		26698.7	27399.4	28156.6	27689.5	25675.9	24142.8	24457.6	
50°		23185.4	23990.5	25641.3	26796.5	25387.2	23131.2	23188.6	
55°		19497.1	20213.3	22028.8	24340.6	24345.0	21865.3	21681.6	
60°		16017.8	16582.0	18111.3	20733.4	22136.5	20163.6	19888.6	
65°		12980.8	13396.4	14516.9	16842.8	19065.7	18007.7	17930.9	
70°		10397.4	10750.2	11575.8	13439.8	15744.6	15574.2	15930.5	
75°		8380.0	8647.3	9389.2	10891.8	12712.4	12937.0	13827.1	
80°		7495.5	7611.7	8059.0	8973.9	10045.2	10162.3	11489.5	
85°		7469.5	7523.2	7676.0	7857.3	7933.2	7546.0	9135.8	

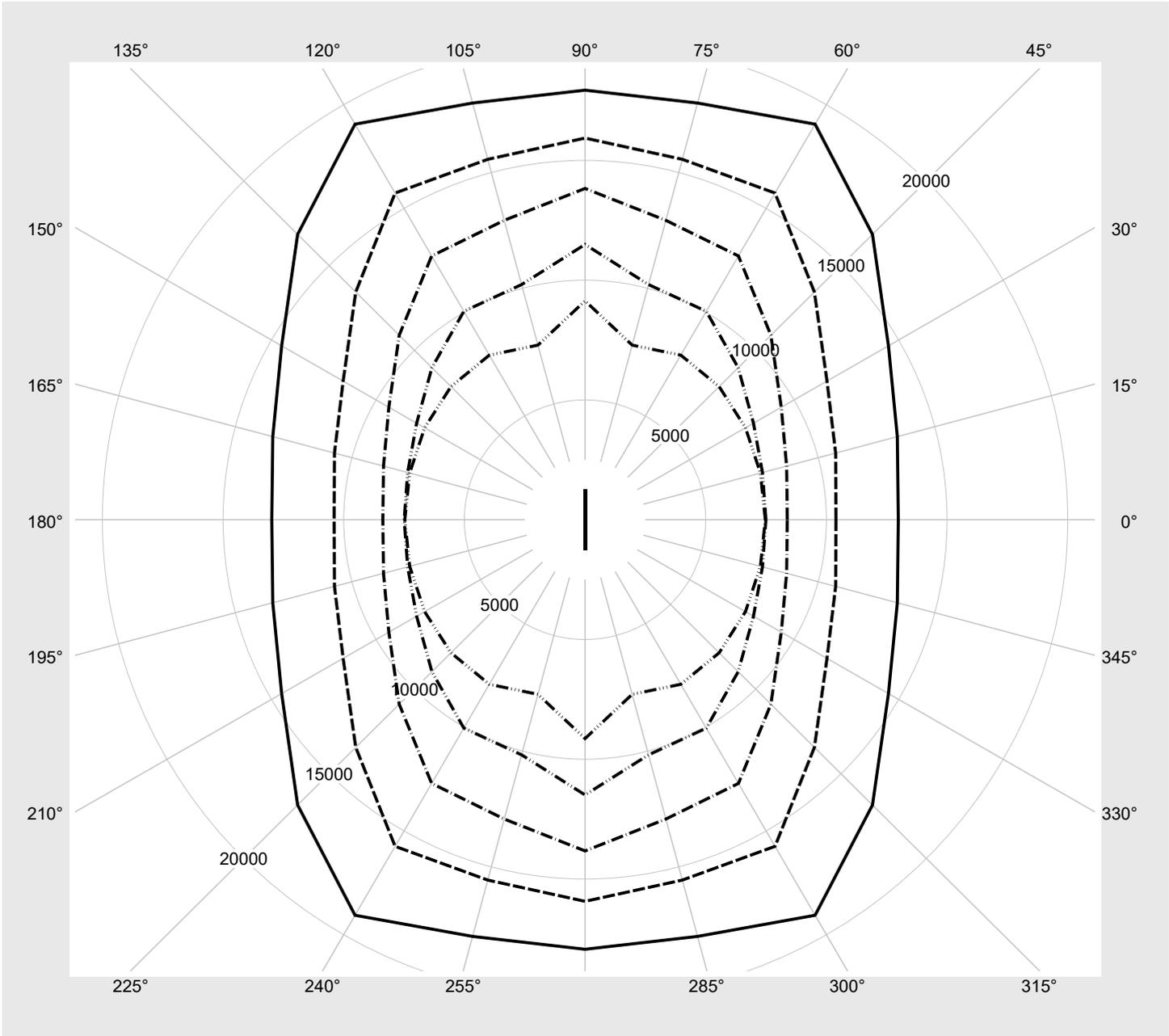
**Photometric test report**

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**Luminance values in cd/m<sup>2</sup>**

$\gamma$  65°   
   $\gamma$  70°   
   $\gamma$  75°   
   $\gamma$  80°   
   $\gamma$  85°



## 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	10570	54.8	65.4	60.1
2	A	C	F	10100	52.2	62.0	57.1
3	A	D	E	9070	46.7	55.6	51.2
4	A	D	F	8030	41.2	48.8	45.0
5	B	C	E	7060	36.2	42.9	39.6
6	B	C	F	6000	30.9	36.2	33.6
7	B	D	E	5090	26.3	30.9	28.6
8	B	D	F	4180	21.8	25.5	23.6