
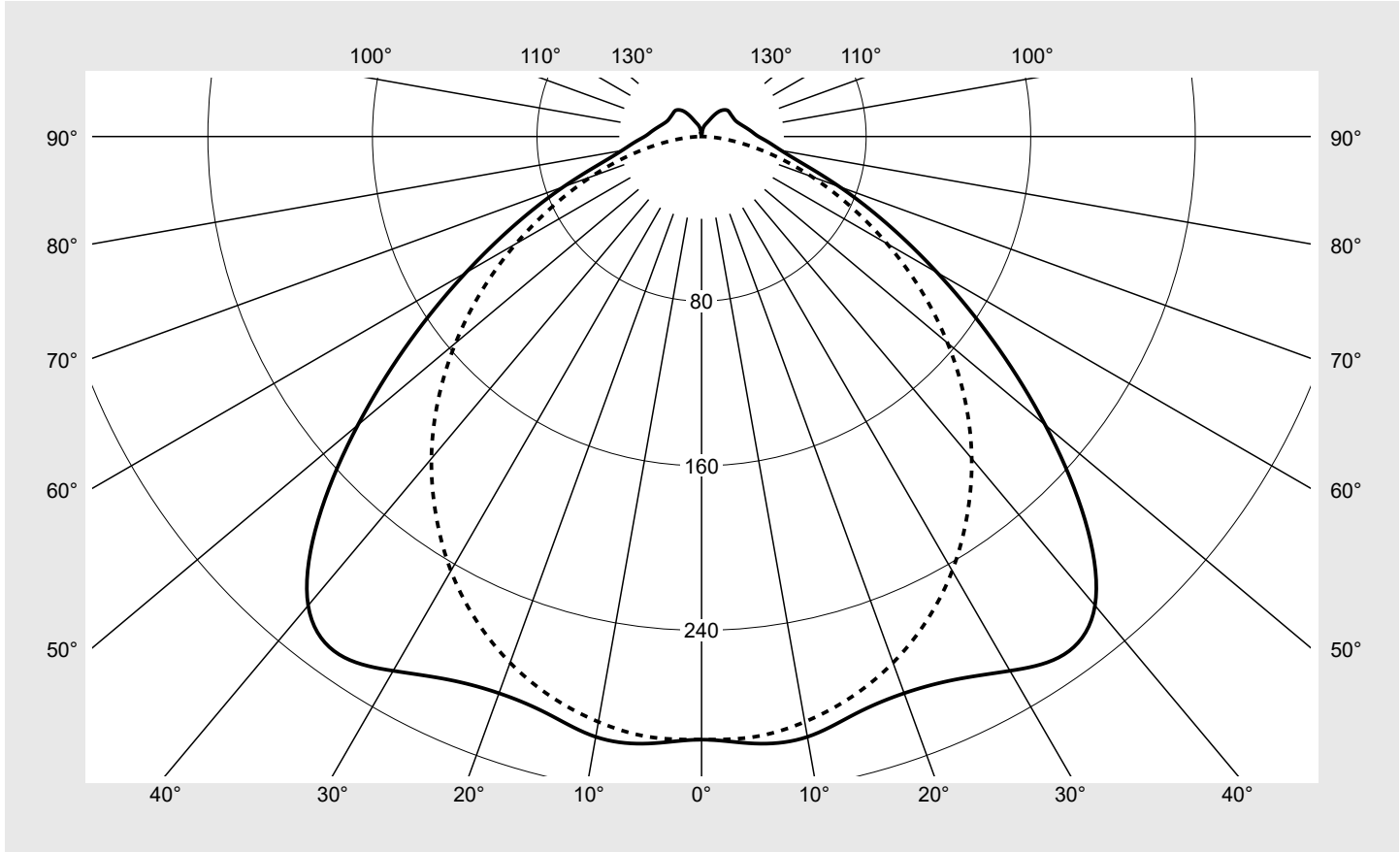


Photometric test report

Family Modario® 31 	Order number: 53BM812CV685C2 EAN: 4069025123107	LP number 59594_18
	Version diffuser optic, frosted, wide distribution Lamps LED 6500 K CRI ≥ 80 Controlgear ECG-Multilumen CLOi Rated values Net luminous flux = 8970 lm Power consumption = 49.9 W Luminous efficacy = 179.8 lm/W	serial documentation 02.05.2024

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	
η_{LB}	100.0%
ϕ_u	92.6%
ϕ_o	7.4%

Measurement conditions
DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		Maximum luminous intensity
		siteco

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

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UGR-Table	Standard room	siteco								
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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	22.5	24.2	22.9	24.5	24.8	22.3	24.0	22.7	24.3	24.6
	3H	23.4	24.9	23.7	25.2	25.6	23.4	25.0	23.8	25.3	25.6
	4H	23.7	25.1	24.1	25.5	25.8	23.8	25.3	24.2	25.6	26.0
	6H	24.0	25.3	24.4	25.7	26.1	24.1	25.4	24.5	25.8	26.2
	8H	24.2	25.4	24.6	25.8	26.2	24.2	25.4	24.6	25.8	26.2
	12H	24.3	25.5	24.7	25.9	26.3	24.2	25.4	24.6	25.8	26.2
4H	2H	23.2	24.6	23.6	25.0	25.3	23.0	24.5	23.4	24.8	25.2
	3H	24.2	25.4	24.6	25.8	26.2	24.4	25.6	24.8	26.0	26.4
	4H	24.6	25.7	25.0	26.1	26.5	24.9	26.0	25.3	26.4	26.8
	6H	25.0	25.9	25.4	26.4	26.8	25.2	26.2	25.7	26.6	27.1
	8H	25.2	26.0	25.6	26.5	27.0	25.3	26.2	25.8	26.7	27.2
	12H	25.4	26.2	25.9	26.6	27.1	25.4	26.2	25.9	26.7	27.2
8H	4H	24.8	25.7	25.3	26.2	26.6	25.1	26.0	25.6	26.4	26.9
	6H	25.3	26.1	25.8	26.6	27.0	25.6	26.3	26.1	26.8	27.3
	8H	25.6	26.3	26.1	26.8	27.3	25.8	26.4	26.3	26.9	27.4
	12H	26.0	26.5	26.5	27.0	27.6	25.9	26.5	26.4	27.0	27.5
12H	4H	24.9	25.7	25.4	26.1	26.6	25.2	25.9	25.6	26.4	26.9
	6H	25.4	26.1	25.9	26.6	27.1	25.7	26.3	26.2	26.8	27.3
	8H	25.7	26.3	26.3	26.8	27.3	25.9	26.5	26.4	27.0	27.5

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

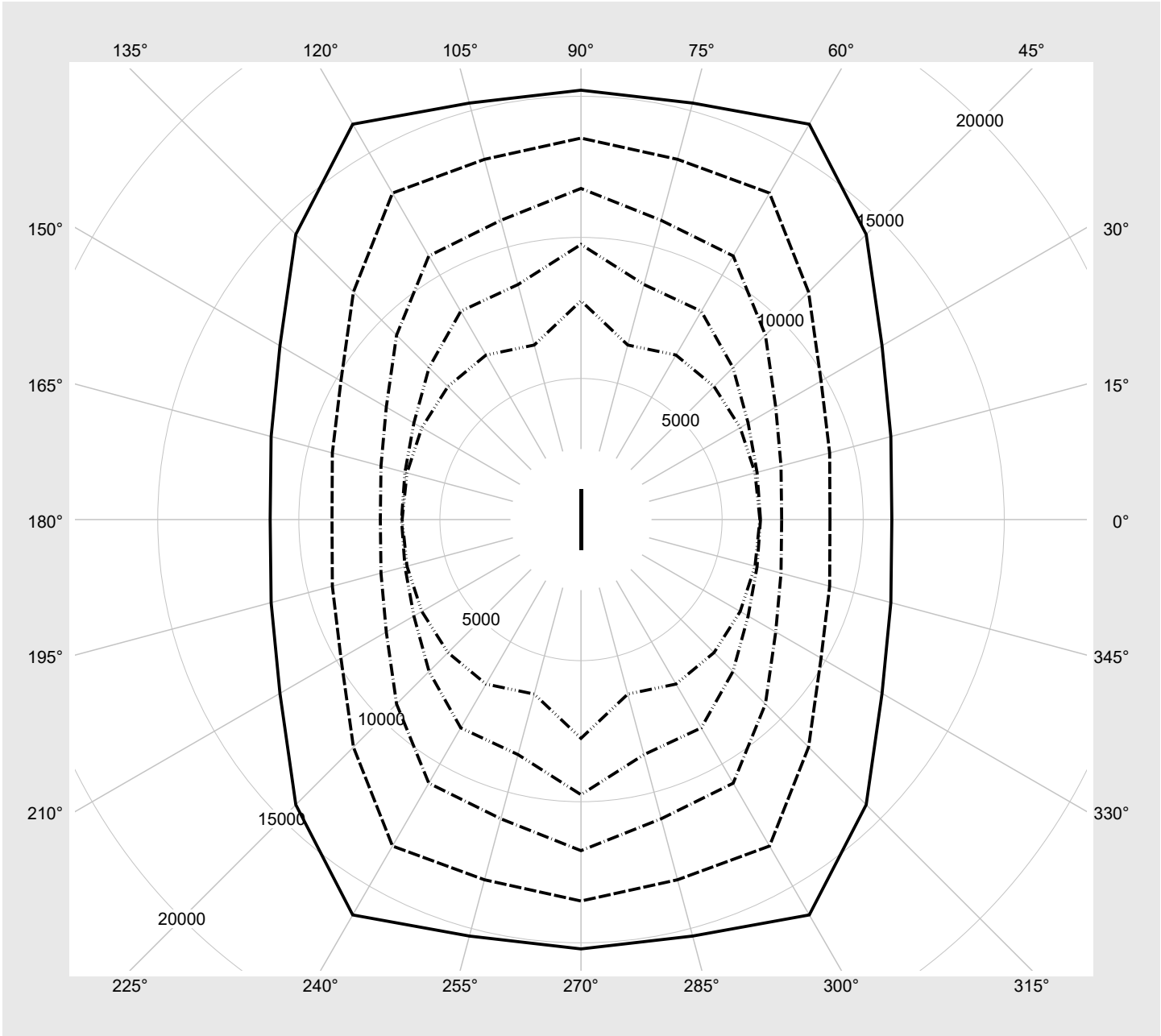
C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		22657.3	23251.9	23894.4	23498.1	21789.3	20488.3	20755.4	
50°		19675.8	20359.1	21760.0	22740.2	21544.3	19629.8	19678.5	
55°		16545.8	17153.6	18694.2	20656.1	20659.9	18555.5	18399.6	
60°		13593.1	14071.9	15369.7	17595.0	18785.7	17111.4	16878.0	
65°		11015.9	11368.6	12319.4	14293.2	16179.7	15281.8	15216.7	
70°		8823.5	9122.9	9823.6	11405.4	13361.3	13216.7	13519.1	
75°		7111.5	7338.3	7968.0	9243.1	10788.1	10978.7	11734.1	
80°		6360.9	6459.5	6839.1	7615.5	8524.6	8624.0	9750.3	
85°		6338.8	6384.4	6514.0	6667.9	6732.3	6403.7	7752.9	

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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85°



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Multilumen Table	environmental temperature: 25°C	sITeco
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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	8970	49.9	60.5	55.2
2	A	C	F	8546	47.4	56.9	52.2
3	A	D	E	8029	44.3	53.4	48.8
4	A	D	F	7522	41.3	49.5	45.4
5	B	C	E	7077	38.8	46.5	42.6
6	B	C	F	6559	35.8	42.6	39.2
7	B	D	E	6032	32.8	39.1	36.0
8	B	D	F	5494	29.9	35.3	32.6