
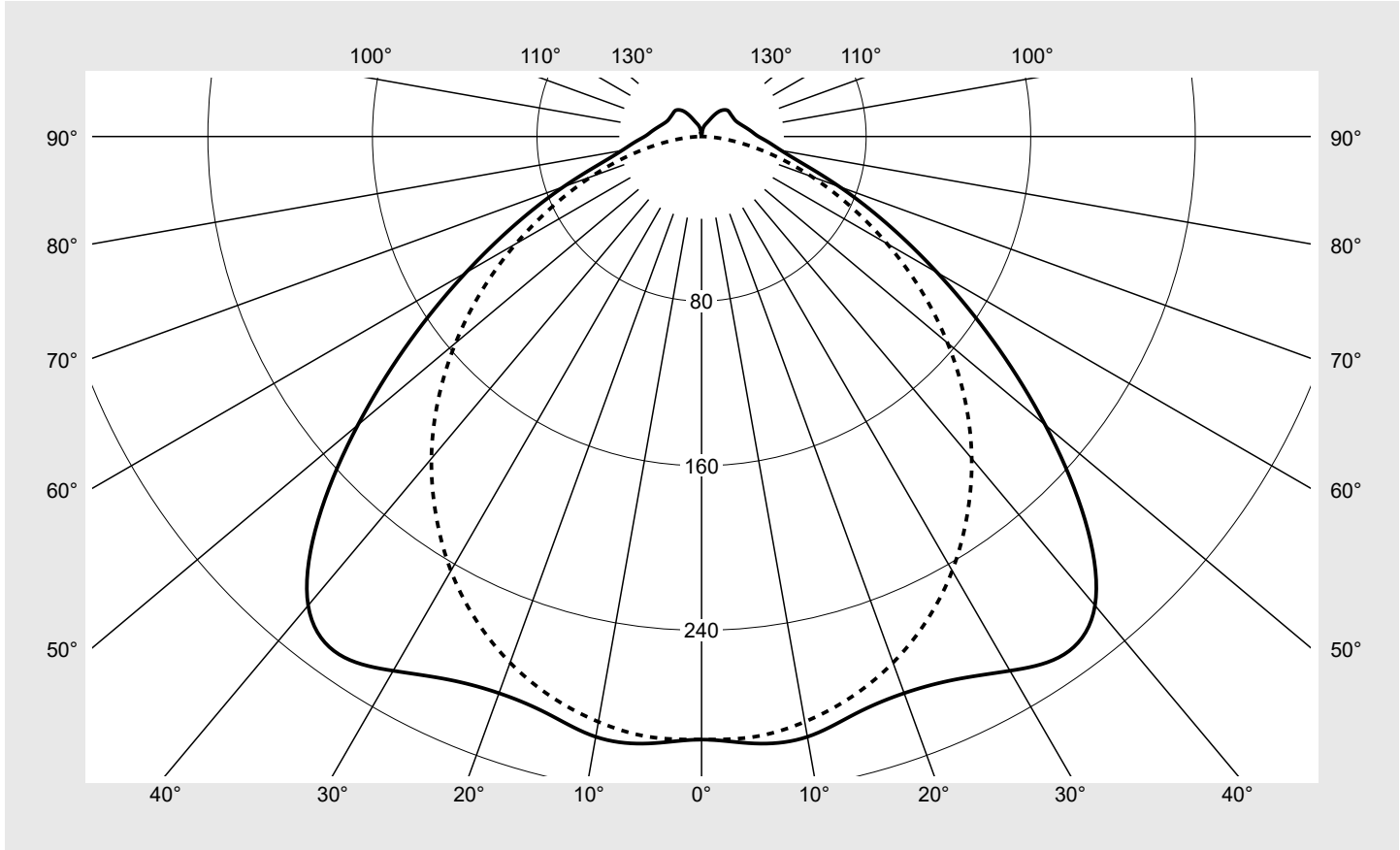


Photometric test report

Family Modario® 31 	Order number: 53BM812CV6C5D2 EAN: 4069025123114	LP number 59594_20
	Version diffuser optic, frosted, wide distribution Lamps LED 6500 K CRI ≥ 80 Controlgear ECG-Multilumen CLOi Rated values Net luminous flux = 12660 lm Power consumption = 68.5 W Luminous efficacy = 184.8 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	23.7	25.4	24.1	25.7	26.0	23.5	25.2	23.9	25.5	25.8
	3H	24.6	26.1	24.9	26.4	26.8	24.6	26.2	25.0	26.5	26.8
	4H	24.9	26.3	25.3	26.7	27.0	25.0	26.5	25.4	26.8	27.2
	6H	25.2	26.5	25.6	26.9	27.3	25.3	26.6	25.7	27.0	27.4
	8H	25.4	26.6	25.8	27.0	27.4	25.4	26.6	25.8	27.0	27.4
	12H	25.5	26.7	25.9	27.1	27.5	25.4	26.6	25.8	27.0	27.4
4H	2H	24.4	25.8	24.8	26.2	26.5	24.2	25.7	24.6	26.0	26.4
	3H	25.4	26.6	25.8	27.0	27.4	25.6	26.8	26.0	27.2	27.6
	4H	25.8	26.9	26.2	27.3	27.7	26.1	27.2	26.5	27.6	28.0
	6H	26.2	27.1	26.6	27.5	28.0	26.4	27.4	26.9	27.8	28.3
	8H	26.4	27.2	26.8	27.7	28.2	26.5	27.4	27.0	27.9	28.4
	12H	26.6	27.4	27.1	27.8	28.3	26.6	27.4	27.1	27.9	28.4
8H	4H	26.0	26.9	26.5	27.4	27.8	26.3	27.2	26.8	27.6	28.1
	6H	26.5	27.3	27.0	27.7	28.2	26.8	27.5	27.3	28.0	28.5
	8H	26.8	27.5	27.3	28.0	28.5	27.0	27.6	27.5	28.1	28.6
	12H	27.2	27.7	27.7	28.2	28.7	27.1	27.7	27.6	28.2	28.7
12H	4H	26.1	26.9	26.5	27.3	27.8	26.4	27.1	26.8	27.6	28.1
	6H	26.6	27.3	27.1	27.7	28.3	26.9	27.5	27.4	28.0	28.5
	8H	26.9	27.5	27.5	28.0	28.5	27.1	27.7	27.6	28.2	28.7

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°		31977.8	32817.1	33723.9	33164.5	30752.8	28916.6	29293.6	
50°		27769.9	28734.2	30711.4	32094.9	30407.0	27704.9	27773.6	
55°		23352.2	24210.1	26384.5	29153.4	29158.7	26188.7	25968.6	
60°		19185.0	19860.7	21692.4	24833.1	26513.6	24150.6	23821.2	
65°		15547.5	16045.3	17387.3	20173.1	22835.6	21568.3	21476.4	
70°		12453.3	12875.8	13864.7	16097.3	18857.8	18653.7	19080.5	
75°		10037.0	10357.1	11245.8	13045.4	15226.0	15495.0	16561.1	
80°		8977.6	9116.8	9652.5	10748.3	12031.4	12171.7	13761.3	
85°		8946.5	9010.7	9193.7	9410.9	9501.8	9038.0	10942.2	

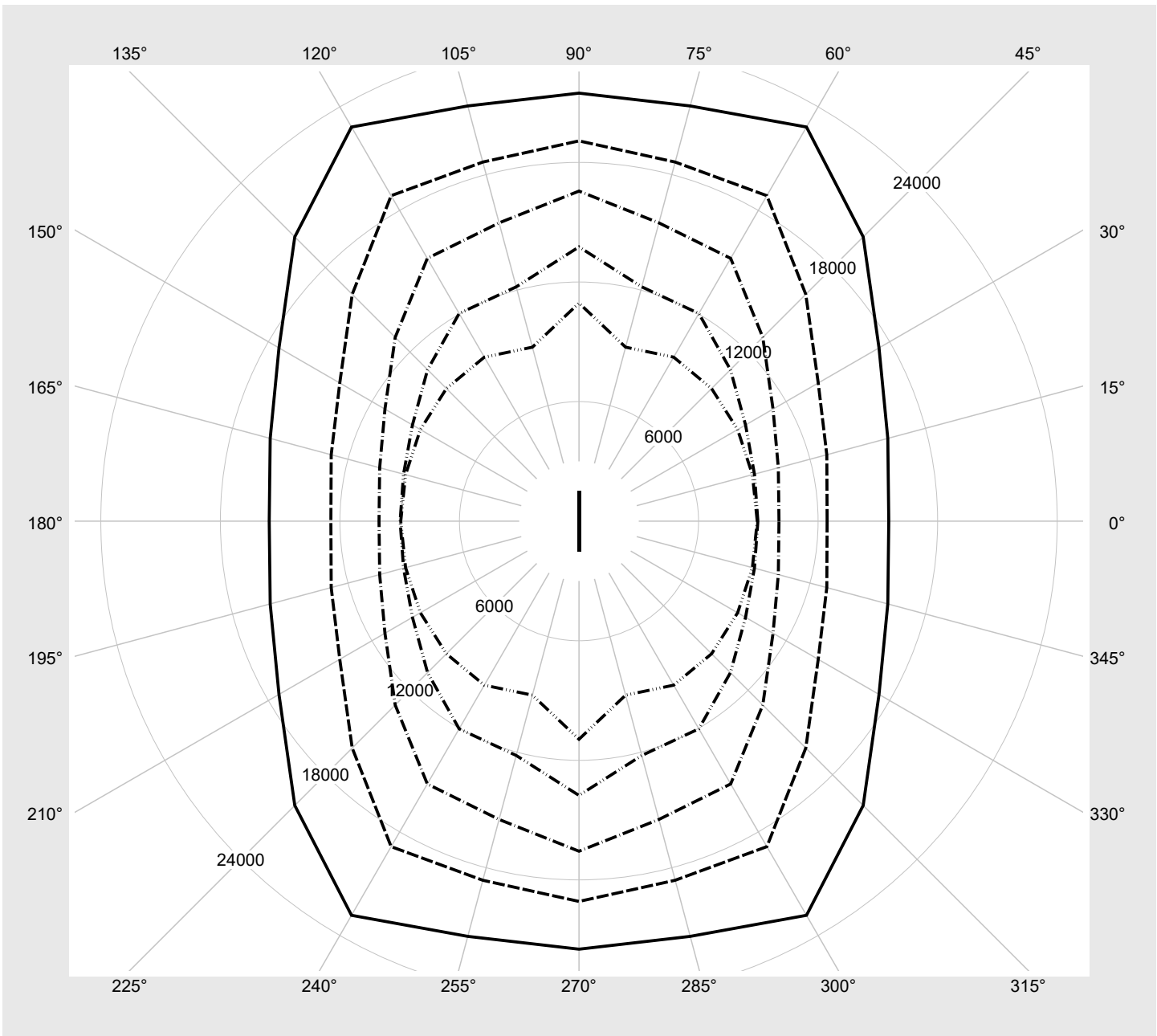
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Family
Modario® 31

Order number: 53BM812CV6C5D2
EAN: 4069025123114

LP number
59594_20

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



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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			end of lifetime [W]	average [W]
1	A	C	E	12660	68.5	82.3	75.4
2	A	C	F	11842	63.8	76.3	70.0
3	A	D	E	11087	59.5	71.1	65.3
4	A	D	F	10331	55.2	65.9	60.6
5	B	C	E	9565	51.0	60.7	55.8
6	B	C	F	8799	46.7	55.6	51.2
7	B	D	E	8012	42.4	50.5	46.4
8	B	D	F	7319	38.7	45.8	42.2