
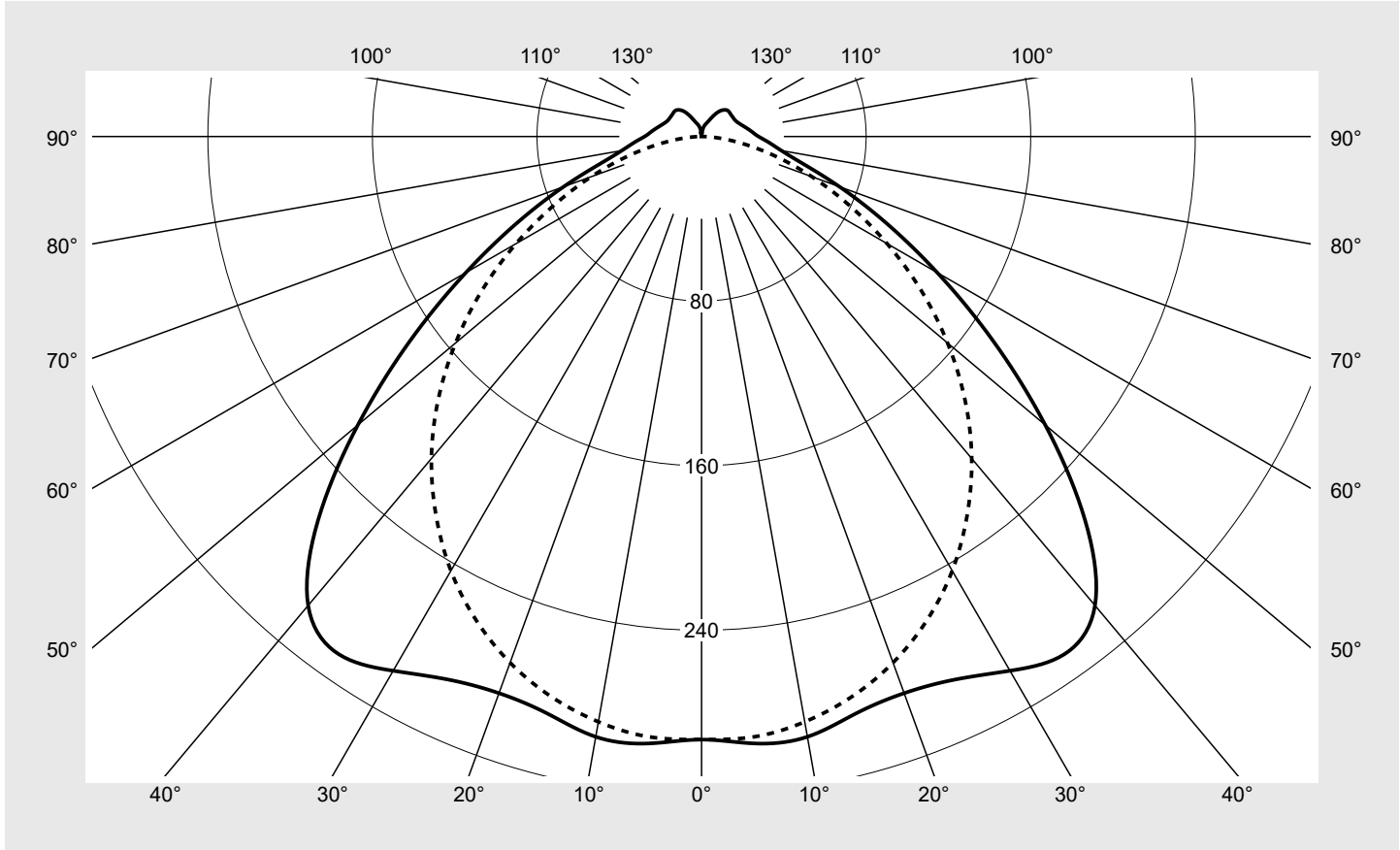


Photometric test report

Family Modario® 31 	Order number: 53BM812MV4G5D2 EAN: 4069025121769	LP number 59594_16
	Version diffuser optic, frosted, wide distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG Multilumen Rated values Net luminous flux = 16690 lm Power consumption = 89.8 W Luminous efficacy = 185.9 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	24.7	26.4	25.0	26.7	27.0	24.5	26.2	24.8	26.5	26.8
	3H	25.5	27.1	25.9	27.4	27.7	25.6	27.1	26.0	27.5	27.8
	4H	25.8	27.3	26.2	27.6	28.0	26.0	27.4	26.4	27.8	28.1
	6H	26.1	27.5	26.5	27.8	28.2	26.2	27.6	26.6	27.9	28.3
	8H	26.3	27.5	26.7	27.9	28.3	26.3	27.6	26.7	28.0	28.4
	12H	26.5	27.6	26.9	28.0	28.4	26.4	27.6	26.8	28.0	28.4
4H	2H	25.3	26.8	25.7	27.1	27.5	25.2	26.6	25.6	27.0	27.4
	3H	26.3	27.5	26.7	27.9	28.3	26.5	27.8	27.0	28.1	28.5
	4H	26.7	27.8	27.2	28.2	28.7	27.0	28.1	27.5	28.6	29.0
	6H	27.1	28.1	27.6	28.5	29.0	27.4	28.4	27.8	28.8	29.2
	8H	27.3	28.2	27.8	28.6	29.1	27.5	28.4	28.0	28.8	29.3
	12H	27.6	28.3	28.0	28.8	29.3	27.6	28.4	28.1	28.8	29.3
8H	4H	27.0	27.9	27.5	28.3	28.8	27.3	28.2	27.7	28.6	29.1
	6H	27.5	28.2	28.0	28.7	29.2	27.8	28.5	28.3	29.0	29.5
	8H	27.8	28.4	28.3	28.9	29.4	27.9	28.6	28.4	29.1	29.6
	12H	28.1	28.7	28.6	29.2	29.7	28.1	28.6	28.6	29.1	29.7
12H	4H	27.0	27.8	27.5	28.3	28.8	27.3	28.1	27.8	28.6	29.1
	6H	27.6	28.2	28.1	28.7	29.2	27.8	28.5	28.3	29.0	29.5
	8H	27.9	28.5	28.4	29.0	29.5	28.1	28.6	28.6	29.1	29.6

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°	42157.2	43263.6	44459.1	43721.6	40542.2	38121.5	38618.5	
	50°	36609.7	37881.0	40487.6	42311.5	40086.3	36524.1	36614.7	
	55°	30785.9	31916.8	34783.4	38433.7	38440.7	34525.2	34235.1	
	60°	25292.0	26182.9	28597.6	32738.0	34953.5	31838.3	31404.0	
	65°	20496.7	21152.9	22922.1	26594.7	30104.7	28434.1	28312.9	
	70°	16417.5	16974.5	18278.2	21221.4	24860.7	24591.7	25154.3	
	75°	13232.0	13654.0	14825.6	17198.1	20072.8	20427.4	21832.9	
	80°	11835.4	12018.9	12725.2	14169.8	15861.3	16046.3	18141.8	
	85°	11794.3	11879.0	12120.3	12406.6	12526.5	11915.1	14425.4	

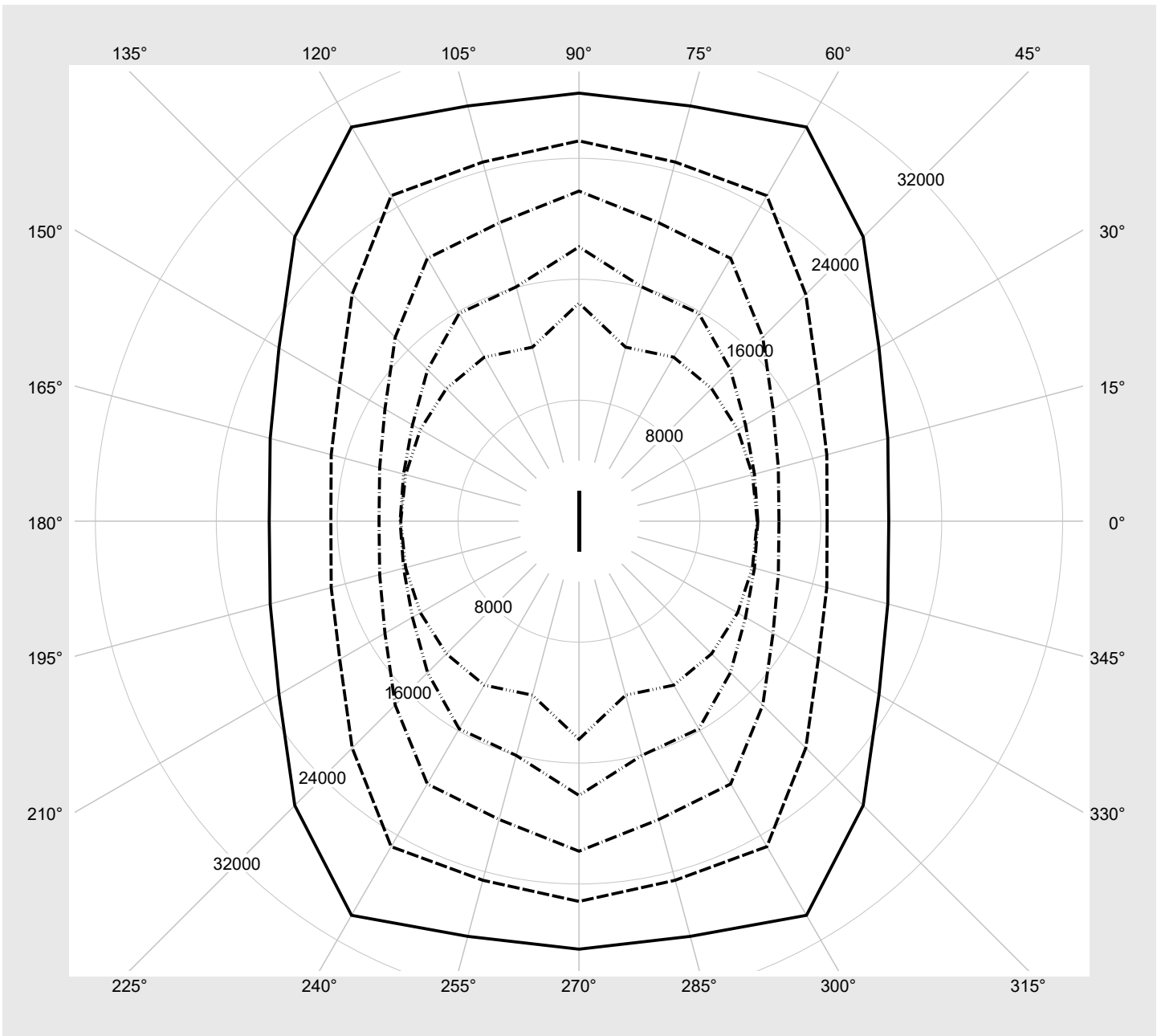
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Family
Modario® 31

Order number: 53BM812MV4G5D2
EAN: 4069025121769

LP number
59594_16

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]
	1	2	3		
1	A	C	E	16690	89.8
2	A	C	F	15819	84.6
3	A	D	E	15072	80.3
4	A	D	F	14252	75.4
5	B	C	E	13495	71.1
6	B	C	F	12738	66.8
7	B	D	E	11970	62.5
8	B	D	F	11192	58.1