
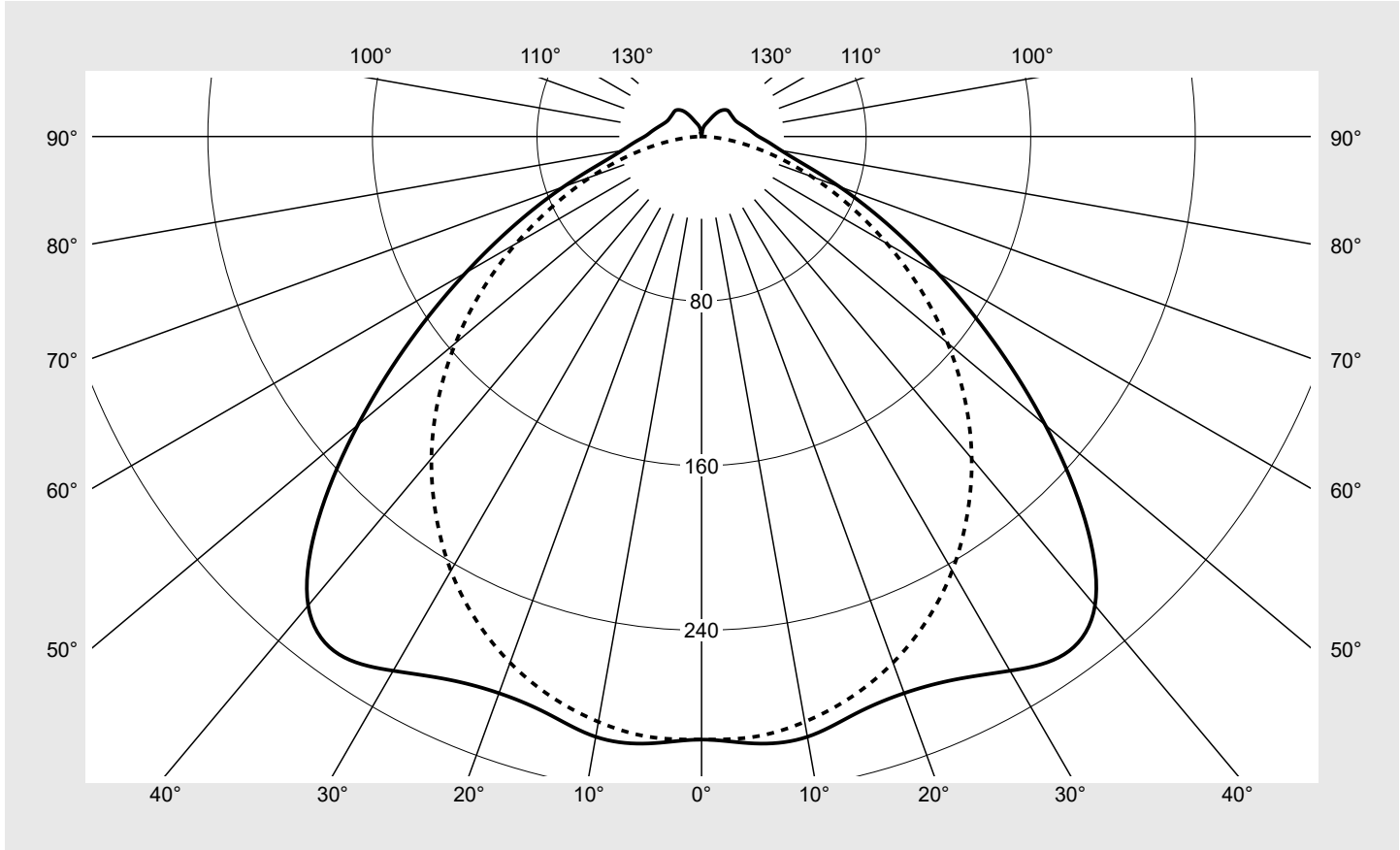


Photometric test report

Family Modario® 31 	Order number: 53BM812MV4A5C2 EAN: 4069025123213	LP number 59594_13
	Version diffuser optic, frosted, wide distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG Multilumen Rated values Net luminous flux = 10960 lm Power consumption = 60.5 W Luminous efficacy = 181.2 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	23.2	24.9	23.6	25.2	25.5	23.0	24.7	23.4	25.0	25.3
	3H	24.1	25.6	24.4	25.9	26.3	24.1	25.7	24.5	26.0	26.3
	4H	24.4	25.8	24.8	26.2	26.5	24.5	26.0	24.9	26.3	26.7
	6H	24.7	26.0	25.1	26.4	26.8	24.8	26.1	25.2	26.5	26.9
	8H	24.9	26.1	25.3	26.5	26.9	24.9	26.1	25.3	26.5	26.9
	12H	25.0	26.2	25.4	26.6	27.0	24.9	26.1	25.3	26.5	26.9
4H	2H	23.9	25.3	24.3	25.7	26.0	23.7	25.2	24.1	25.5	25.9
	3H	24.9	26.1	25.3	26.5	26.9	25.1	26.3	25.5	26.7	27.1
	4H	25.3	26.4	25.7	26.8	27.2	25.6	26.7	26.0	27.1	27.5
	6H	25.7	26.6	26.1	27.0	27.5	25.9	26.9	26.4	27.3	27.8
	8H	25.9	26.7	26.3	27.2	27.7	26.0	26.9	26.5	27.4	27.9
	12H	26.1	26.9	26.6	27.3	27.8	26.1	26.9	26.6	27.4	27.9
8H	4H	25.5	26.4	26.0	26.9	27.3	25.8	26.7	26.3	27.1	27.6
	6H	26.0	26.8	26.5	27.2	27.7	26.3	27.0	26.8	27.5	28.0
	8H	26.3	27.0	26.8	27.5	28.0	26.5	27.1	27.0	27.6	28.1
	12H	26.7	27.2	27.2	27.7	28.2	26.6	27.2	27.1	27.7	28.2
12H	4H	25.6	26.4	26.0	26.8	27.3	25.9	26.6	26.3	27.1	27.6
	6H	26.1	26.8	26.6	27.2	27.8	26.4	27.0	26.9	27.5	28.0
	8H	26.4	27.0	27.0	27.5	28.0	26.6	27.2	27.1	27.6	28.2

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°		27683.8	28410.3	29195.4	28711.1	26623.3	25033.6	25360.0	
50°		24040.9	24875.7	26587.4	27785.2	26323.9	23984.7	24044.2	
55°		20216.5	20959.1	22841.6	25238.7	25243.3	22672.0	22481.5	
60°		16608.8	17193.8	18779.5	21498.4	22953.3	20907.6	20622.4	
65°		13459.8	13890.7	15052.5	17464.2	19769.2	18672.1	18592.5	
70°		10781.1	11146.8	12002.9	13935.7	16325.5	16148.9	16518.3	
75°		8689.2	8966.3	9735.7	11293.7	13181.5	13414.3	14337.3	
80°		7772.1	7892.6	8356.4	9305.0	10415.8	10537.3	11913.4	
85°		7745.1	7800.7	7959.2	8147.2	8225.9	7824.4	9472.9	

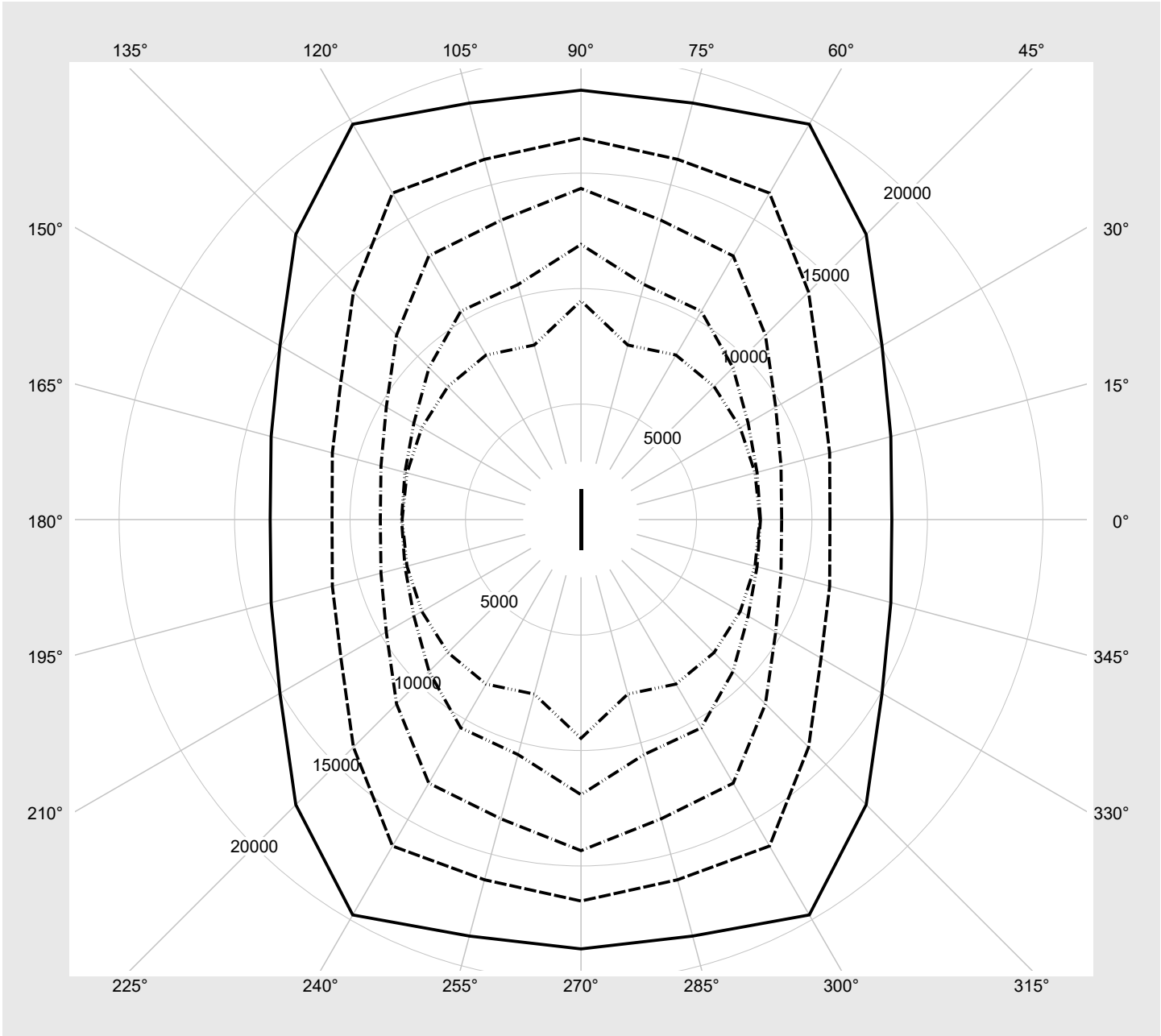
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°



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Family
Modario® 31

Order number: 53BM812MV4A5C2
EAN: 4069025123213

LP number
59594_13

Multilumen Table

environmental temperature: 25°C

siteco

DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
1	A	C	E	10960	60.5
2	A	C	F	10390	56.9
3	A	D	E	9819	53.4
4	A	D	F	9311	50.4
5	B	C	E	8803	47.4
6	B	C	F	8274	44.3
7	B	D	E	7756	41.3
8	B	D	F	7300	38.8