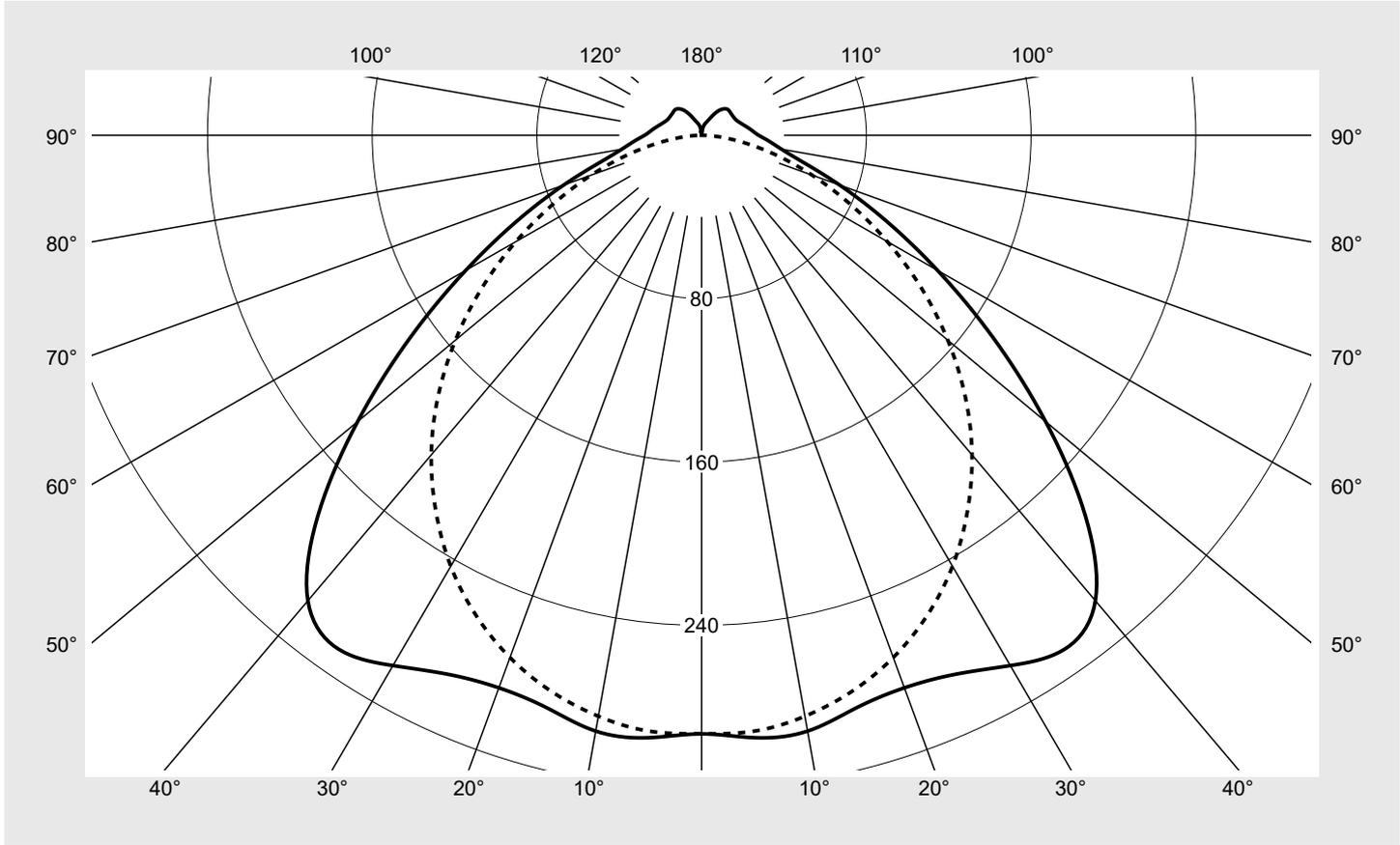


Photometric test report

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

Photometric test report

Family Modario® 31	Order number: 53BM812MV4G5D2 EAN: 4069025121769	LP number 59594_16
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

Photometric test report

Family Modario® 31	Order number: 53BM812MV4G5D2 EAN: 4069025121769	LP number 59594_16
-------------------------------------	--	-------------------------------------

UGR-Table	Standard room	siteco
------------------	----------------------	---------------

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	

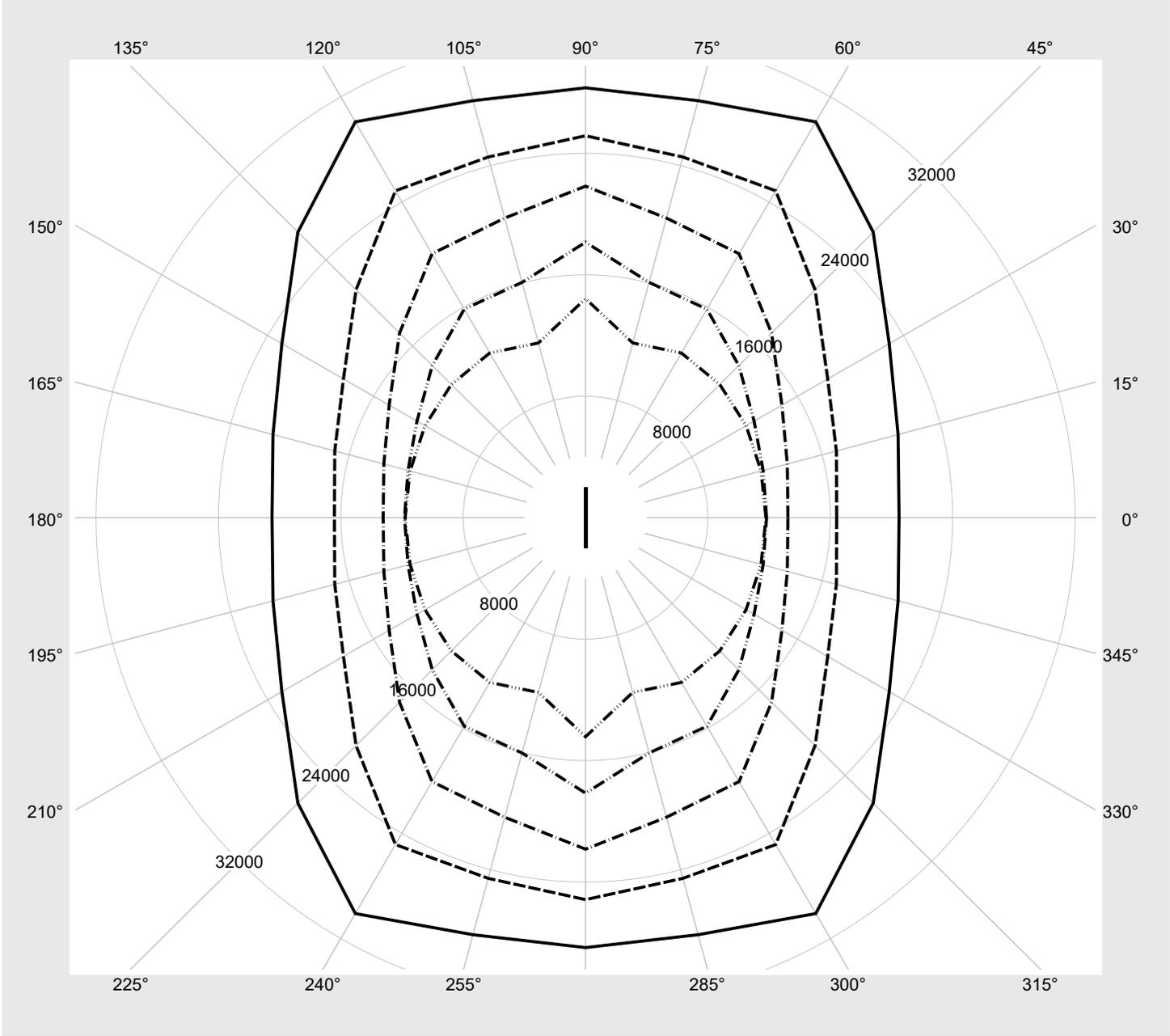
Photometric test report

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°



Photometric test report

Family Modario® 31	Order number: 53BM812MV4G5D2 EAN: 4069025121769	LP number 59594_16
------------------------------	--	------------------------------

Multilumen Table	environmental temperature: 25°C	sITeco
-------------------------	---------------------------------	---------------

DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
1	A	C	E	16690	89.8
2	A	C	F	15810	84.6
3	A	D	E	15070	80.3
4	A	D	F	14250	75.4
5	B	C	E	13490	71.1
6	B	C	F	12730	66.8
7	B	D	E	11970	62.5
8	B	D	F	11190	58.1