
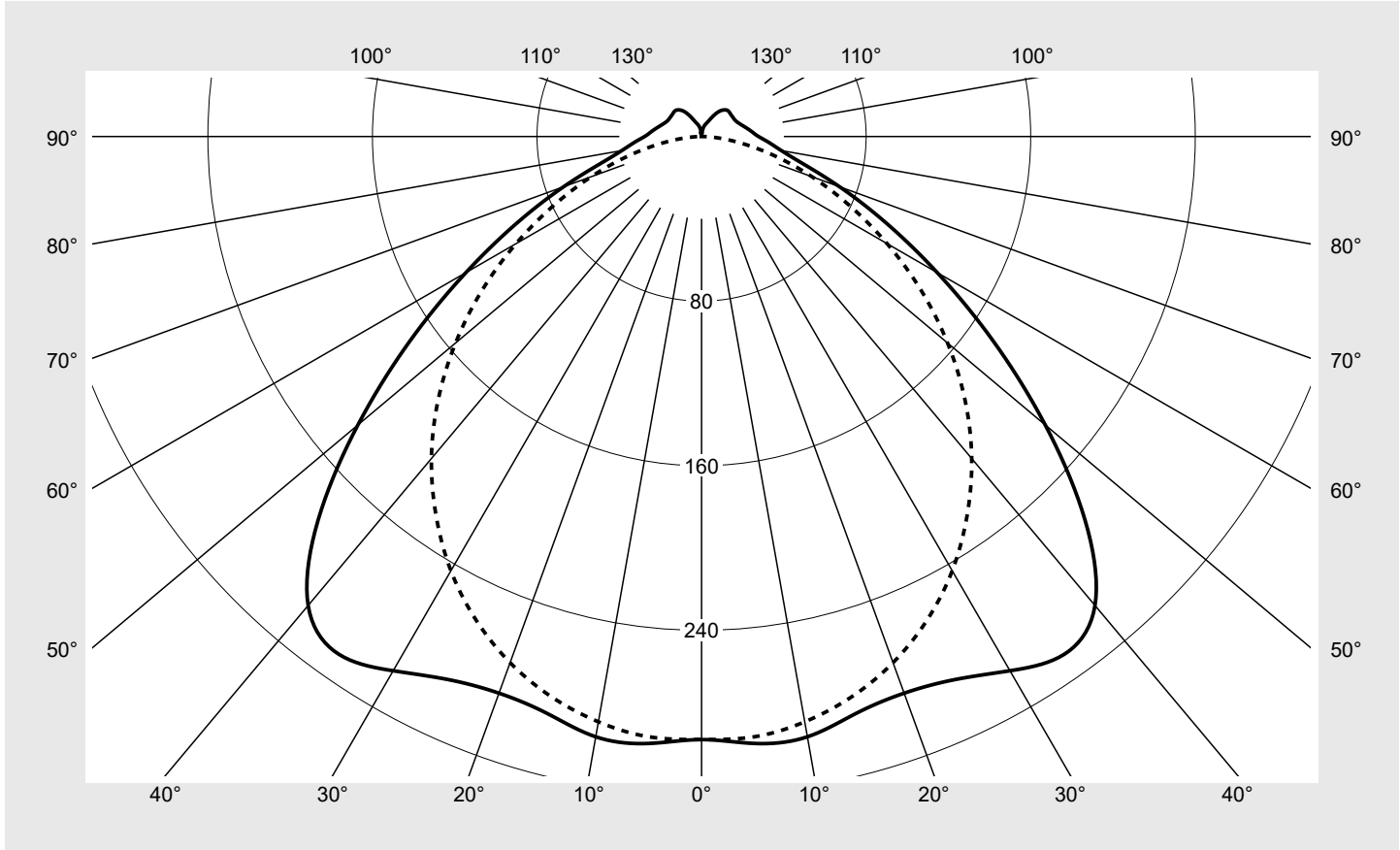


Photometric test report

Family Modario® 31 	Order number: 53BM812CV4DXD2 EAN: 4069025123077	LP number 59594_19
	Version diffuser optic, frosted, wide distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-Multilumen CLOi Rated values Net luminous flux = 13040 lm Power consumption = 68.5 W Luminous efficacy = 190.4 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	23.8	25.5	24.2	25.8	26.1	23.6	25.3	24.0	25.6	25.9
	3H	24.7	26.2	25.0	26.5	26.9	24.7	26.3	25.1	26.6	26.9
	4H	25.0	26.4	25.4	26.8	27.1	25.1	26.6	25.5	26.9	27.3
	6H	25.3	26.6	25.7	27.0	27.4	25.4	26.7	25.8	27.1	27.5
	8H	25.5	26.7	25.9	27.1	27.5	25.5	26.7	25.9	27.1	27.5
	12H	25.6	26.8	26.0	27.2	27.6	25.5	26.7	25.9	27.1	27.5
4H	2H	24.5	25.9	24.9	26.3	26.6	24.3	25.8	24.7	26.1	26.5
	3H	25.5	26.7	25.9	27.1	27.5	25.7	26.9	26.1	27.3	27.7
	4H	25.9	27.0	26.3	27.4	27.8	26.2	27.3	26.6	27.7	28.1
	6H	26.3	27.2	26.7	27.7	28.1	26.5	27.5	27.0	27.9	28.4
	8H	26.5	27.3	26.9	27.8	28.3	26.6	27.5	27.1	28.0	28.5
	12H	26.7	27.5	27.2	27.9	28.4	26.7	27.5	27.2	28.0	28.5
8H	4H	26.1	27.0	26.6	27.5	27.9	26.4	27.3	26.9	27.7	28.2
	6H	26.6	27.4	27.1	27.9	28.3	26.9	27.6	27.4	28.1	28.6
	8H	26.9	27.6	27.4	28.1	28.6	27.1	27.7	27.6	28.2	28.7
	12H	27.3	27.8	27.8	28.3	28.8	27.2	27.8	27.7	28.3	28.8
12H	4H	26.2	27.0	26.7	27.4	27.9	26.5	27.2	26.9	27.7	28.2
	6H	26.7	27.4	27.2	27.9	28.4	27.0	27.6	27.5	28.1	28.6
	8H	27.0	27.6	27.6	28.1	28.6	27.2	27.8	27.7	28.3	28.8

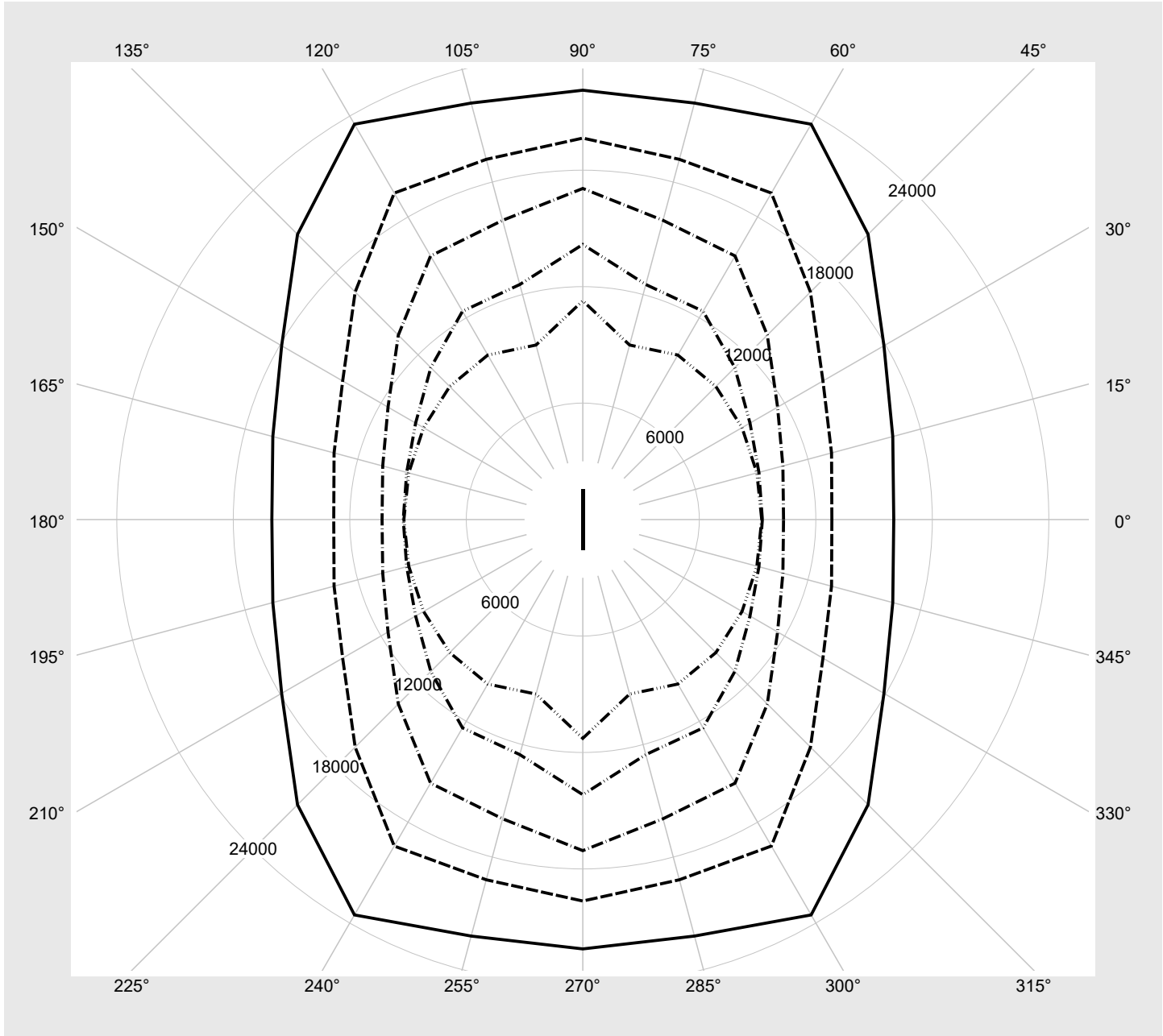
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1476	H(C0) = 25	H(C180) = 25
			B = 75	H(C90) = 0	H(C270) = 0

C-planes	γ	0° 180°	15°	30°	45°	60°	75°	90° 270°
			165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°	
			Luminance in cd/m²					
45°		32937.7	33802.1	34736.2	34159.9	31675.8	29784.5	30172.8
50°		28603.4	29596.7	31633.2	33058.3	31319.7	28536.5	28607.3
55°		24053.2	24936.8	27176.5	30028.5	30034.0	26974.8	26748.1
60°		19760.8	20456.9	22343.5	25578.4	27309.4	24875.5	24536.2
65°		16014.2	16526.9	17909.2	20778.6	23521.0	22215.7	22121.0
70°		12827.1	13262.3	14280.8	16580.4	19423.8	19213.6	19653.2
75°		10338.3	10668.0	11583.3	13437.0	15683.0	15960.1	17058.2
80°		9247.1	9390.4	9942.2	11071.0	12392.6	12537.0	14174.3
85°		9215.0	9281.2	9469.7	9693.4	9787.0	9309.3	11270.6

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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			end of lifetime [W]	average [W]
1	A	C	E	13040	68.5	82.3	75.4
2	A	C	F	12200	63.8	76.3	70.0
3	A	D	E	11422	59.5	71.1	65.3
4	A	D	F	10654	55.2	65.9	60.6
5	B	C	E	9866	51.0	60.7	55.8
6	B	C	F	9067	46.7	55.6	51.2
7	B	D	E	8268	42.4	50.5	46.4
8	B	D	F	7542	38.7	45.8	42.2