
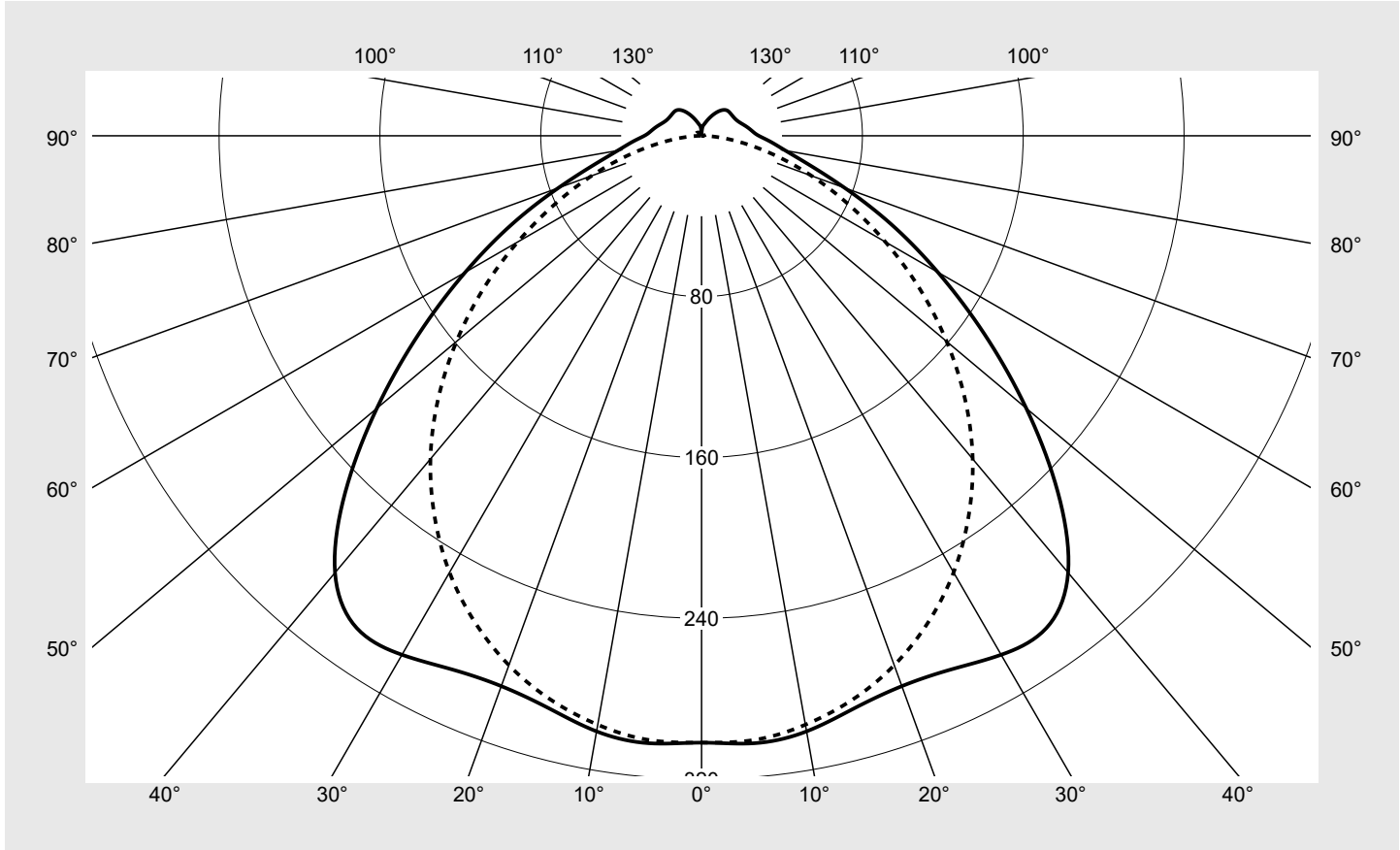


Photometric test report

Family Modario® 31 	Order number: 53BM812M1V4120 EAN: 4058352421888	LP number 59064_2
	Version diffuser optic, frosted, wide distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG Multilumen Rated values Net luminous flux = 12380 lm Power consumption = 77.3 W Luminous efficacy = 160.2 lm/W	serial documentation 01.09.2020

Luminous intensity in cd/klm **C180-0** **C270-90** **Imax: 303 cd/klm**



Classifications	
DIN 5040	A 4 1
CIE	N1=47 N2=80 N3=95 N4=92 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	92.2%
ϕ_o	7.8%

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°	301.8	301.8	301.8	301.8	301.8	301.8	301.8	1.8	1.8
5°	303.3	302.1	299.9	300.9	301.9	301.5	301.6	14.4	16.2
10°	300.8	300.0	297.7	298.5	298.9	297.8	297.4	28.4	44.6
15°	294.6	294.3	291.7	292.6	293.1	291.2	290.3	41.5	86.1
20°	291.3	290.6	285.8	284.4	284.3	281.8	280.2	53.5	139.7
25°	293.0	291.5	283.0	276.7	273.3	269.6	266.9	64.6	204.3
30°	298.0	296.0	283.3	270.8	261.1	254.6	250.8	74.9	279.2
35°	299.0	297.5	283.8	265.6	248.4	237.0	231.5	83.7	362.9
40°	283.7	284.3	276.5	258.3	235.0	217.5	209.8	89.2	452.1
45°	250.6	253.6	254.2	243.8	219.3	195.5	185.4	89.4	541.5
50°	210.8	214.1	220.0	218.9	199.3	171.7	159.1	84.6	626.1
55°	171.6	174.1	180.5	185.1	173.7	146.4	132.4	75.7	701.8
60°	135.7	137.3	141.6	147.2	142.6	119.7	105.6	64.0	765.8
65°	104.1	104.9	107.1	111.0	110.3	93.2	80.6	51.2	817.1
70°	75.8	76.7	78.0	80.6	80.3	68.4	58.2	38.7	855.8
75°	55.2	55.4	55.7	57.0	55.4	46.3	38.3	27.9	883.7
80°	42.4	41.9	40.8	39.2	35.6	27.7	21.5	19.5	903.3
85°	34.5	33.8	31.7	27.6	21.5	14.0	8.7	13.7	916.9
90°	28.5	27.9	25.4	20.0	13.0	5.8	0.8	9.7	926.7
95°	25.4	25.0	22.9	18.2	11.9	5.4	1.1	8.8	935.5
100°	23.4	22.9	21.0	17.1	11.6	5.5	1.7	8.2	943.6
105°	21.5	21.0	19.3	16.3	11.6	5.8	2.4	7.6	951.2
110°	19.9	19.3	18.1	15.8	11.8	6.2	2.9	7.1	958.3
115°	18.9	18.4	17.5	15.6	12.1	6.5	2.9	6.7	965.0
120°	18.5	17.9	17.3	15.6	12.2	6.6	2.9	6.3	971.4
125°	18.2	17.7	17.1	15.5	11.7	6.5	2.7	5.9	977.3
130°	18.1	17.6	16.9	14.9	10.9	6.2	2.5	5.4	982.6
135°	17.9	17.2	16.1	13.6	9.8	5.6	2.4	4.7	987.3
140°	16.8	15.9	14.5	12.0	8.4	5.0	2.2	3.8	991.1
145°	14.9	14.0	12.6	10.1	6.9	4.5	2.0	3.0	994.1
150°	12.5	11.8	10.5	8.0	5.7	4.2	1.8	2.2	996.3
155°	10.2	9.6	8.4	6.3	5.0	3.7	1.6	1.5	997.8
160°	8.1	7.7	6.3	5.1	4.6	3.6	1.5	1.0	998.8
165°	6.4	6.2	4.7	4.5	4.1	4.7	1.5	0.7	999.5
170°	5.4	4.4	3.9	4.0	3.9	3.8	1.5	0.4	999.8
175°	3.9	3.2	4.4	4.7	3.9	2.2	1.5	0.2	1000.0
180°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	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	23.5	25.2	23.9	25.5	25.9	23.3	25.0	23.7	25.3	25.7
	3H	24.5	26.0	24.9	26.4	26.7	24.5	26.0	24.9	26.3	26.7
	4H	24.9	26.3	25.3	26.7	27.0	24.9	26.3	25.3	26.7	27.1
	6H	25.2	26.5	25.6	26.9	27.3	25.2	26.5	25.6	26.9	27.3
	8H	25.4	26.6	25.8	27.0	27.4	25.3	26.5	25.7	26.9	27.3
	12H	25.6	26.7	26.0	27.1	27.5	25.3	26.5	25.7	26.9	27.3
4H	2H	24.2	25.6	24.6	26.0	26.3	24.1	25.5	24.5	25.8	26.2
	3H	25.3	26.5	25.7	26.9	27.3	25.4	26.6	25.8	27.0	27.4
	4H	25.8	26.9	26.2	27.3	27.7	25.9	27.0	26.4	27.4	27.9
	6H	26.2	27.2	26.7	27.6	28.1	26.3	27.3	26.8	27.7	28.2
	8H	26.4	27.3	26.9	27.8	28.2	26.4	27.3	26.9	27.8	28.2
	12H	26.7	27.5	27.2	27.9	28.4	26.5	27.3	27.0	27.8	28.3
8H	4H	26.0	26.9	26.5	27.4	27.9	26.2	27.1	26.7	27.5	28.0
	6H	26.6	27.4	27.1	27.8	28.3	26.7	27.4	27.2	27.9	28.4
	8H	26.9	27.6	27.4	28.1	28.6	26.9	27.5	27.4	28.0	28.5
	12H	27.3	27.8	27.8	28.3	28.9	27.0	27.6	27.5	28.1	28.6
12H	4H	26.1	26.9	26.6	27.3	27.8	26.2	27.0	26.7	27.5	28.0
	6H	26.7	27.3	27.2	27.8	28.3	26.8	27.4	27.3	27.9	28.4
	8H	27.1	27.6	27.6	28.1	28.6	27.0	27.6	27.5	28.1	28.6

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°		29729.5	30334.4	31191.4	31203.4	29730.9	28459.2	29317.7	
50°		26254.3	26920.9	28472.2	29735.0	28931.9	27087.6	27687.6	
55°		22669.9	23256.1	24920.0	27000.0	27350.6	25410.0	25805.3	
60°		19246.5	19712.1	21113.0	23381.8	24747.8	23298.7	23620.0	
65°		16056.7	16424.9	17503.4	19519.3	21493.2	20821.6	21318.7	
70°		12936.0	13301.8	14216.1	16004.4	18015.3	18085.5	19028.6	
75°		10621.6	10873.0	11579.3	13096.0	14759.0	15126.5	16555.2	
80°		9437.5	9548.9	9975.6	10816.0	11795.8	11966.9	13822.1	
85°		9210.6	9272.0	9447.0	9570.6	9474.5	9025.5	11142.9	

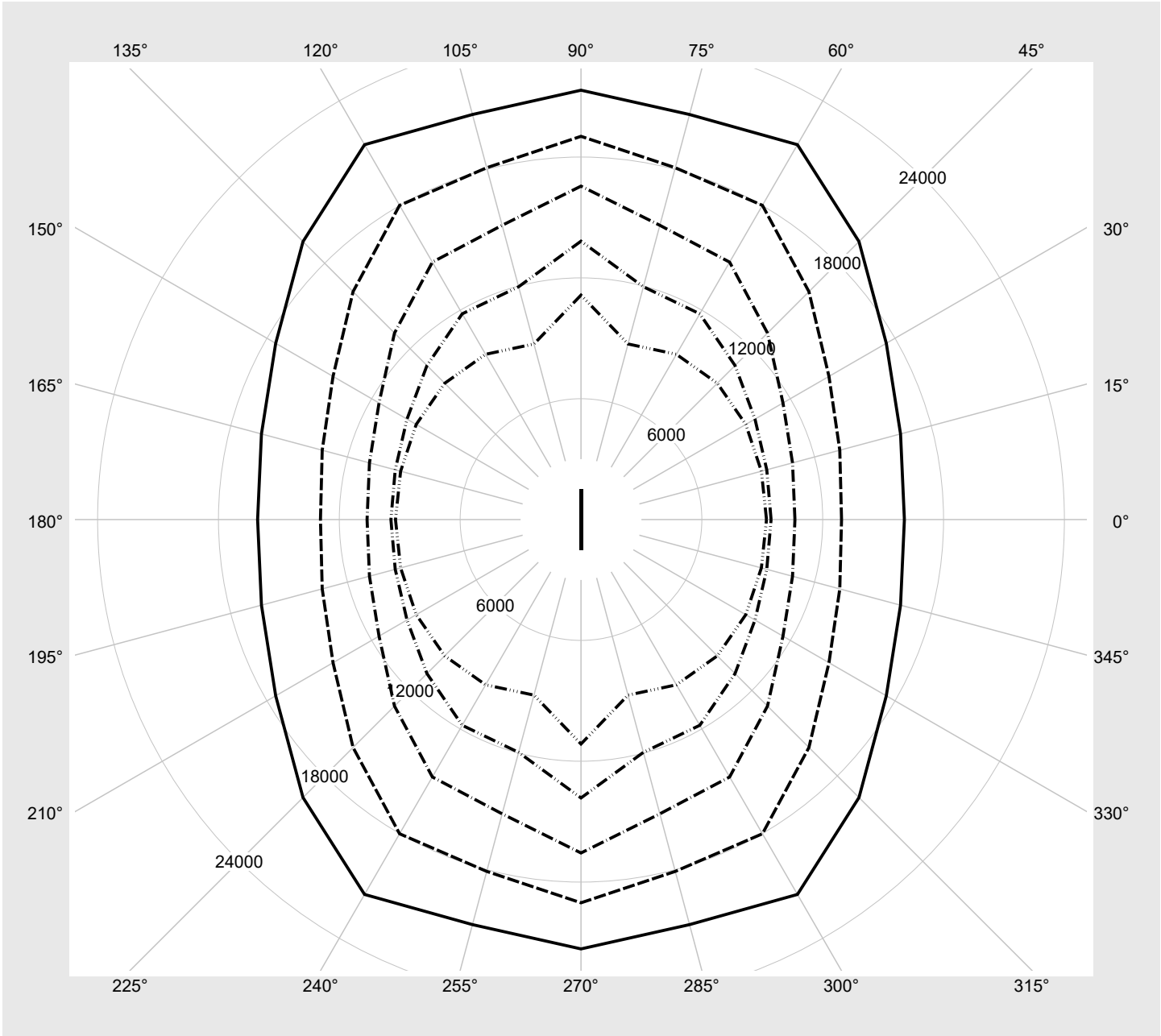
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°



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Multilumen Table	environmental temperature: 25°C	
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DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
1	A	C	E	12380	77.3
2	A	C	F	11050	67.5
3	A	D	E	10060	60.6
4	A	D	F	9050	53.8
5	B	C	E	8010	47.0
6	B	C	F	7020	40.8
7	B	D	E	6010	34.7
8	B	D	F	5050	29.1