

Photometric test report

Family
Modario® 31



Order number: 53BM812CV675C2
EAN: 4069025186010

Version

Lamps

Controlgear

Rated values

diffuser optic, frosted, wide distribution

LED 6500 K | CRI ≥ 80

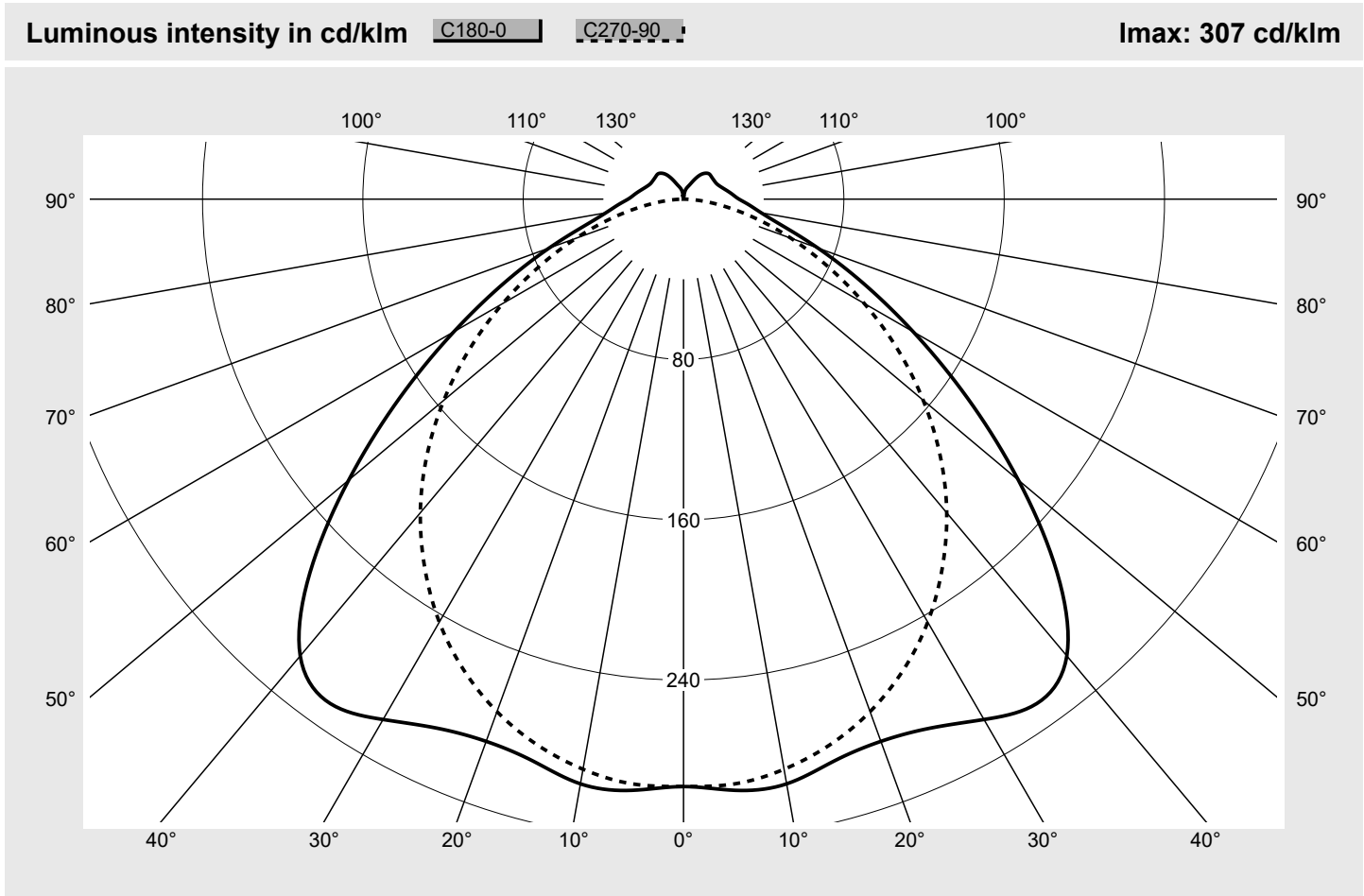
ECG-Multilumen CLOi

Net luminous flux = 7670 lm
Power consumption = 42.1 W
Luminous efficacy = 182.2 lm/W

LP number
59594_95

serial
documentation
16.07.2024

siteco



Classifications		Luminaire light output ratios	
DIN 5040	A 4 1	η_{LB}	100.0%
CIE	N1=47 N2=80 N3=95	ϕ_u	92.6%
	N4=93 N5=100	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
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C- planes	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
γ	Luminous intensity in cd/klm							Luminous flux in lm/klm	
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	
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	22.0	23.7	22.3	24.0	24.3	21.8	23.5	22.1	23.8	24.1
	3H	22.8	24.4	23.2	24.7	25.0	22.9	24.4	23.3	24.8	25.1
	4H	23.1	24.6	23.5	24.9	25.3	23.3	24.7	23.7	25.1	25.4
	6H	23.4	24.8	23.8	25.1	25.5	23.5	24.9	23.9	25.2	25.6
	8H	23.6	24.8	24.0	25.2	25.6	23.6	24.9	24.0	25.3	25.7
	12H	23.8	24.9	24.2	25.3	25.7	23.7	24.9	24.1	25.3	25.7
4H	2H	22.6	24.1	23.0	24.4	24.8	22.5	23.9	22.9	24.3	24.7
	3H	23.6	24.8	24.0	25.2	25.6	23.8	25.1	24.3	25.4	25.8
	4H	24.0	25.1	24.5	25.5	26.0	24.3	25.4	24.8	25.9	26.3
	6H	24.4	25.4	24.9	25.8	26.3	24.7	25.7	25.1	26.1	26.5
	8H	24.6	25.5	25.1	25.9	26.4	24.8	25.7	25.3	26.1	26.6
	12H	24.9	25.6	25.3	26.1	26.6	24.9	25.7	25.4	26.1	26.6
8H	4H	24.3	25.2	24.8	25.6	26.1	24.6	25.5	25.0	25.9	26.4
	6H	24.8	25.5	25.3	26.0	26.5	25.1	25.8	25.5	26.3	26.8
	8H	25.1	25.7	25.6	26.2	26.7	25.2	25.9	25.7	26.4	26.9
	12H	25.4	26.0	25.9	26.5	27.0	25.4	25.9	25.9	26.4	27.0
12H	4H	24.3	25.1	24.8	25.6	26.1	24.6	25.4	25.1	25.9	26.3
	6H	24.9	25.5	25.4	26.0	26.5	25.1	25.8	25.6	26.3	26.8
	8H	25.2	25.8	25.7	26.3	26.8	25.4	25.9	25.9	26.4	26.9

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 1476 B = 75	H(C0) = 25 H(C90) = 0	H(C180) = 25 H(C270) = 0
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°
			Luminance in cd/m²					
45°		19373.6	19882.1	20431.5	20092.5	18631.4	17519.0	17747.4
50°		16824.2	17408.5	18606.4	19444.5	18421.9	16784.9	16826.5
55°		14147.8	14667.6	15984.9	17662.5	17665.7	15866.3	15733.0
60°		11623.1	12032.5	13142.2	15045.0	16063.1	14631.5	14431.9
65°		9419.4	9721.0	10534.0	12221.8	13834.8	13067.1	13011.4
70°		7544.8	7800.7	8399.8	9752.5	11424.9	11301.3	11559.8
75°		6080.9	6274.8	6813.2	7903.5	9224.6	9387.6	10033.5
80°		5439.0	5523.3	5847.9	6511.8	7289.2	7374.2	8337.2
85°		5420.2	5459.1	5570.0	5701.5	5756.6	5475.6	6629.3

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Luminance values in cd/m²

γ 65°

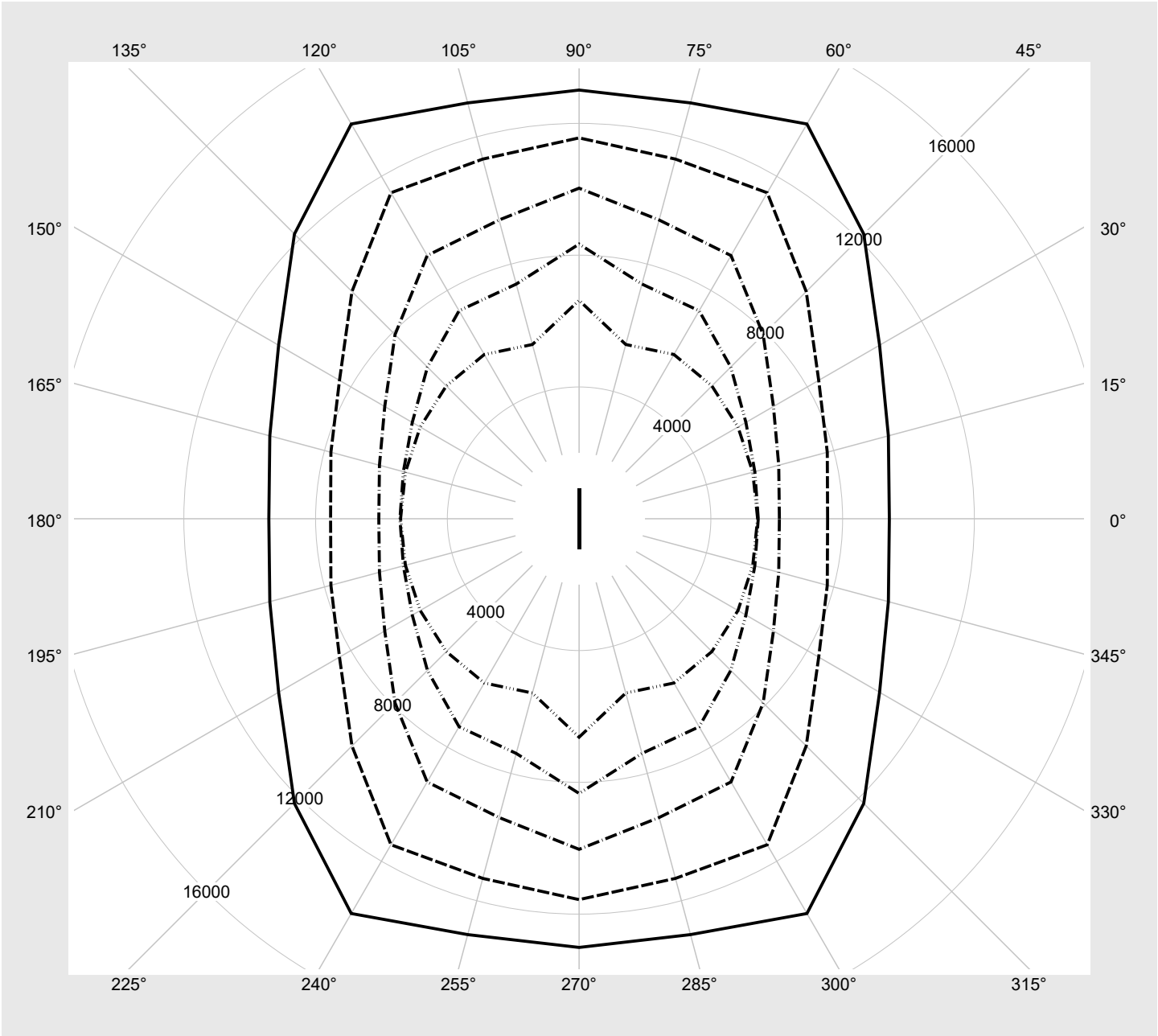
γ 70°

γ 75°

γ 80°

γ 85°

siteco



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Family Modario® 31	Order number: 53BM812CV675C2 EAN: 4069025186010	LP number 59594_95
Multilumen Table	environmental temperature: 25°C	siteco

DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]	Power consumption [W]	Power consumption [W]
	1	2	3			end of lifetime	average
1	A	C	E	7670	42.1	50.4	46.2
2	A	C	F	7080	38.8	46.5	42.6
3	A	D	E	6560	35.8	42.6	39.2
4	A	D	F	6110	33.2	39.6	36.4
5	B	C	E	5500	29.9	35.3	32.6
6	B	C	F	5040	27.4	32.0	29.7
7	B	D	E	4580	24.9	29.0	27.0
8	B	D	F	4030	22.0	25.7	23.8