

Photometric test report

Family
Modario® 31



Order number: 53BM812CV6A5D2
EAN: 4069025186034

Version

Lamps

Controlgear

Rated values

diffuser optic, frosted, wide distribution

LED 6500 K | CRI ≥ 80

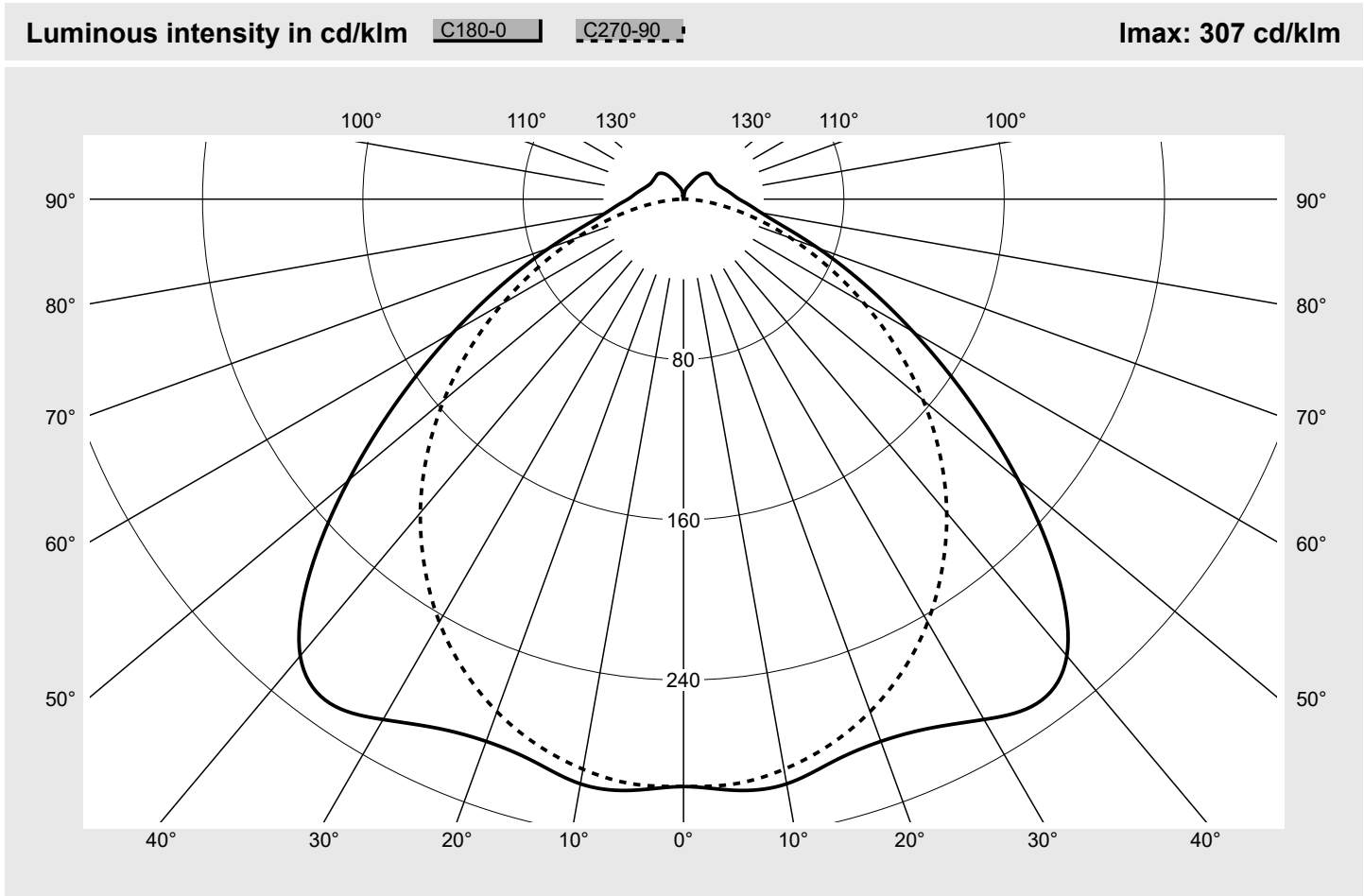
ECG-Multilumen CLOi

Net luminous flux = 10550 lm
Power consumption = 56.5 W
Luminous efficacy = 186.7 lm/W

LP number
59594_97

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	23.1	24.8	23.4	25.1	25.4	22.9	24.6	23.2	24.9	25.2
	3H	23.9	25.5	24.3	25.8	26.1	24.0	25.5	24.4	25.9	26.2
	4H	24.3	25.7	24.6	26.0	26.4	24.4	25.8	24.8	26.2	26.5
	6H	24.5	25.9	25.0	26.2	26.6	24.6	26.0	25.0	26.3	26.7
	8H	24.7	26.0	25.1	26.3	26.7	24.7	26.0	25.1	26.4	26.8
	12H	24.9	26.0	25.3	26.4	26.8	24.8	26.0	25.2	26.4	26.8
4H	2H	23.7	25.2	24.1	25.5	25.9	23.6	25.0	24.0	25.4	25.8
	3H	24.7	25.9	25.1	26.3	26.7	24.9	26.2	25.4	26.5	27.0
	4H	25.1	26.2	25.6	26.6	27.1	25.4	26.6	25.9	27.0	27.4
	6H	25.5	26.5	26.0	26.9	27.4	25.8	26.8	26.3	27.2	27.7
	8H	25.7	26.6	26.2	27.1	27.5	25.9	26.8	26.4	27.2	27.7
	12H	26.0	26.8	26.5	27.2	27.7	26.0	26.8	26.5	27.2	27.7
8H	4H	25.4	26.3	25.9	26.7	27.2	25.7	26.6	26.2	27.0	27.5
	6H	25.9	26.6	26.4	27.1	27.6	26.2	26.9	26.7	27.4	27.9
	8H	26.2	26.8	26.7	27.3	27.8	26.3	27.0	26.8	27.5	28.0
	12H	26.5	27.1	27.0	27.6	28.1	26.5	27.0	27.0	27.5	28.1
12H	4H	25.4	26.2	25.9	26.7	27.2	25.7	26.5	26.2	27.0	27.5
	6H	26.0	26.6	26.5	27.1	27.6	26.3	26.9	26.8	27.4	27.9
	8H	26.3	26.9	26.8	27.4	27.9	26.5	27.0	27.0	27.5	28.1

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° 50° 55° 60°	γ	26648.2	27347.6	28103.3	27637.1	25627.3	24097.2	24411.3
		23141.6	23945.2	25592.8	26745.7	25339.1	23087.4	23144.7
		19460.2	20175.1	21987.1	24294.5	24299.0	21823.9	21640.5
		15987.5	16550.6	18077.0	20694.2	22094.6	20125.5	19851.0
65° 70° 75° 80° 85°	γ	12956.3	13371.1	14489.4	16810.9	19029.6	17973.6	17897.0
		10377.8	10729.8	11553.9	13414.4	15714.8	15544.8	15900.4
		8364.2	8630.9	9371.5	10871.2	12688.3	12912.5	13800.9
		7481.3	7597.3	8043.8	8957.0	10026.2	10143.1	11467.7
		7455.4	7508.9	7661.4	7842.4	7918.2	7531.7	9118.5

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Luminance values in cd/m²

γ 65°

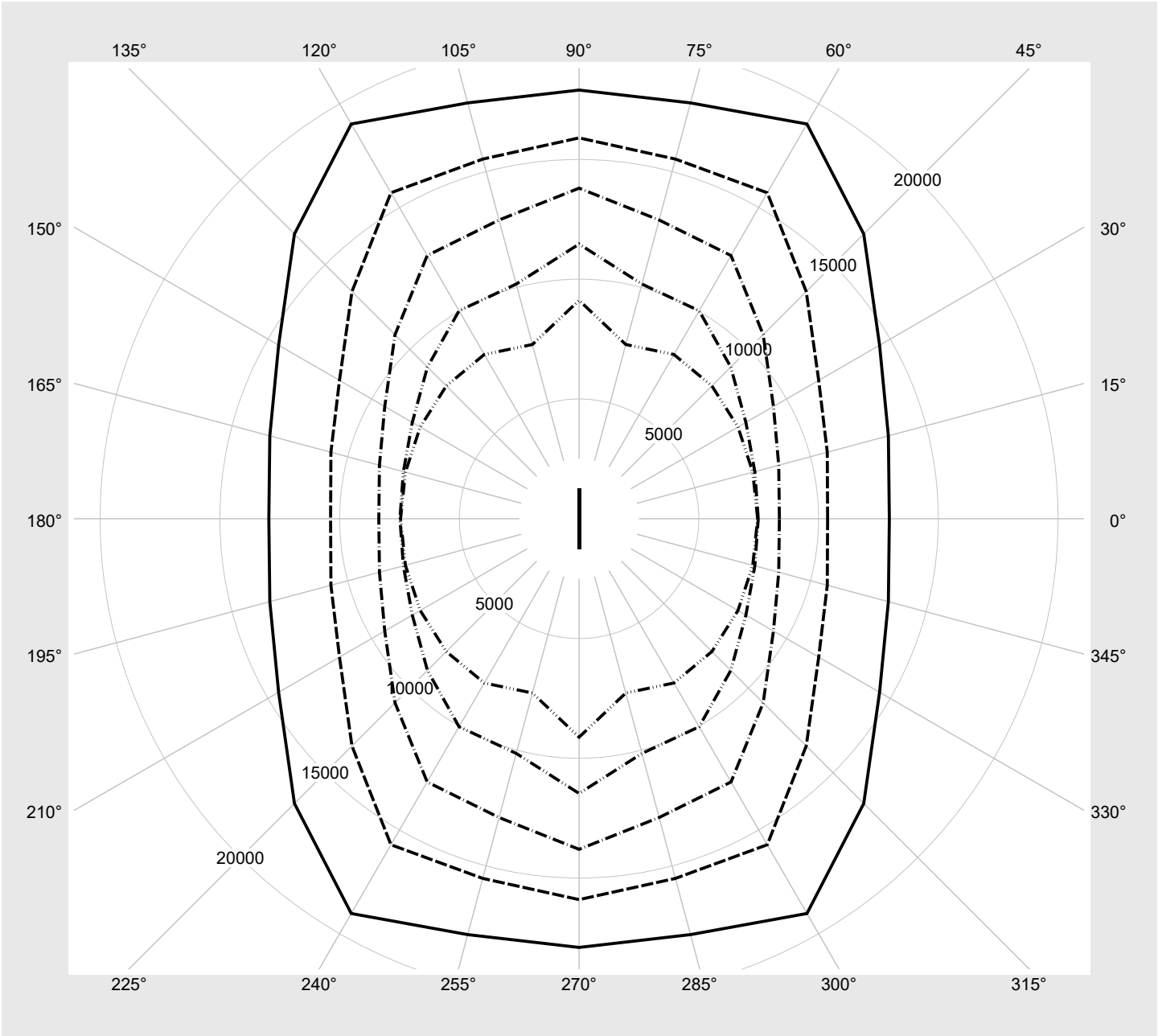
γ 70°

γ 75°

γ 80°

γ 85°

siteco



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Family Modario® 31	Order number: 53BM812CV6A5D2 EAN: 4069025186034	LP number 59594_97
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	10550	56.5	67.6	62.0
2	A	C	F	10090	53.9	64.2	59.0
3	A	D	E	9100	48.4	57.7	53.0
4	A	D	F	8010	42.4	50.5	46.4
5	B	C	E	7000	37.1	43.8	40.4
6	B	C	F	5970	31.7	37.1	34.4
7	B	D	E	5020	26.7	31.3	29.0
8	B	D	F	4050	21.8	25.5	23.6