
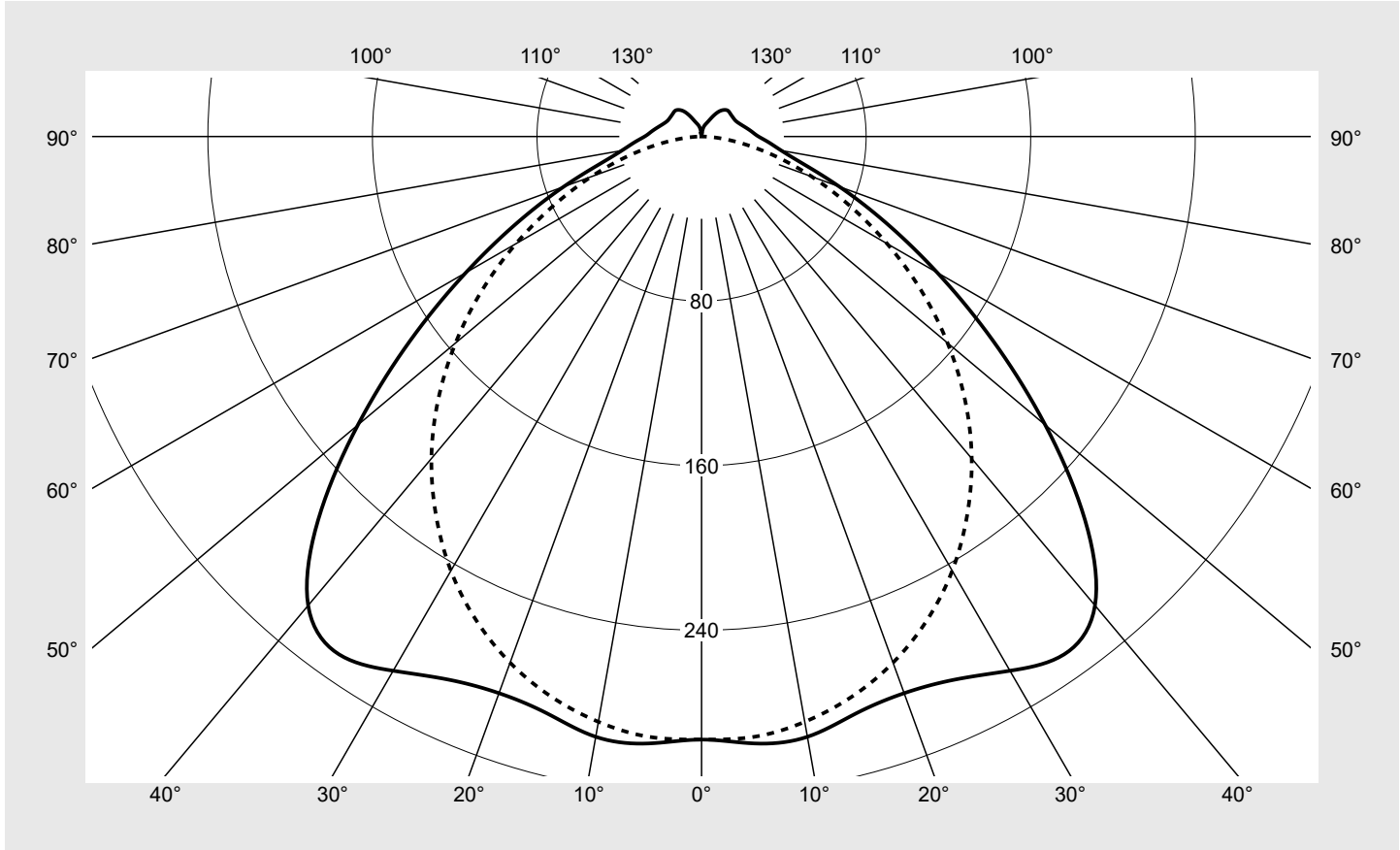


Photometric test report

Family Modario® 31 	Order number: 53BM812DV4F5D2 EAN: 4069025121721	LP number 59594_6
	Version diffuser optic, frosted, wide distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 15730 lm Power consumption = 87.2 W Luminous efficacy = 180.4 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	24.5	26.2	24.8	26.5	26.8	24.3	26.0	24.6	26.3	26.6
	3H	25.3	26.8	25.7	27.2	27.5	25.4	26.9	25.8	27.2	27.6
	4H	25.6	27.1	26.0	27.4	27.8	25.8	27.2	26.2	27.6	27.9
	6H	25.9	27.2	26.3	27.6	28.0	26.0	27.4	26.4	27.7	28.1
	8H	26.1	27.3	26.5	27.7	28.1	26.1	27.4	26.5	27.8	28.2
	12H	26.3	27.4	26.7	27.8	28.2	26.2	27.4	26.6	27.8	28.2
4H	2H	25.1	26.6	25.5	26.9	27.3	25.0	26.4	25.4	26.8	27.1
	3H	26.1	27.3	26.5	27.7	28.1	26.3	27.6	26.8	27.9	28.3
	4H	26.5	27.6	27.0	28.0	28.5	26.8	27.9	27.3	28.3	28.8
	6H	26.9	27.9	27.4	28.3	28.8	27.2	28.2	27.6	28.6	29.0
	8H	27.1	28.0	27.6	28.4	28.9	27.3	28.2	27.8	28.6	29.1
	12H	27.4	28.1	27.8	28.6	29.1	27.4	28.2	27.9	28.6	29.1
8H	4H	26.8	27.7	27.2	28.1	28.6	27.1	28.0	27.5	28.4	28.9
	6H	27.3	28.0	27.8	28.5	29.0	27.6	28.3	28.0	28.8	29.3
	8H	27.6	28.2	28.1	28.7	29.2	27.7	28.4	28.2	28.9	29.4
	12H	27.9	28.5	28.4	29.0	29.5	27.9	28.4	28.4	28.9	29.5
12H	4H	26.8	27.6	27.3	28.1	28.6	27.1	27.9	27.6	28.4	28.8
	6H	27.4	28.0	27.9	28.5	29.0	27.6	28.3	28.1	28.8	29.3
	8H	27.7	28.3	28.2	28.8	29.3	27.9	28.4	28.4	28.9	29.4

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°		39732.3	40775.1	41901.9	41206.7	38210.2	35928.8	36397.1	
50°		34504.0	35702.1	38158.8	39877.8	37780.5	34423.2	34508.6	
55°		29015.1	30080.9	32782.6	36223.0	36229.6	32539.4	32265.9	
60°		23837.2	24676.9	26952.7	30855.0	32943.0	30007.0	29597.7	
65°		19317.8	19936.2	21603.6	25065.0	28373.1	26798.6	26684.3	
70°		15473.2	15998.1	17226.8	20000.8	23430.7	23177.2	23707.4	
75°		12470.9	12868.6	13972.8	16208.9	18918.3	19252.5	20577.1	
80°		11154.7	11327.5	11993.2	13354.8	14949.0	15123.3	17098.3	
85°		11115.9	11195.8	11423.2	11693.0	11805.9	11229.7	13595.6	

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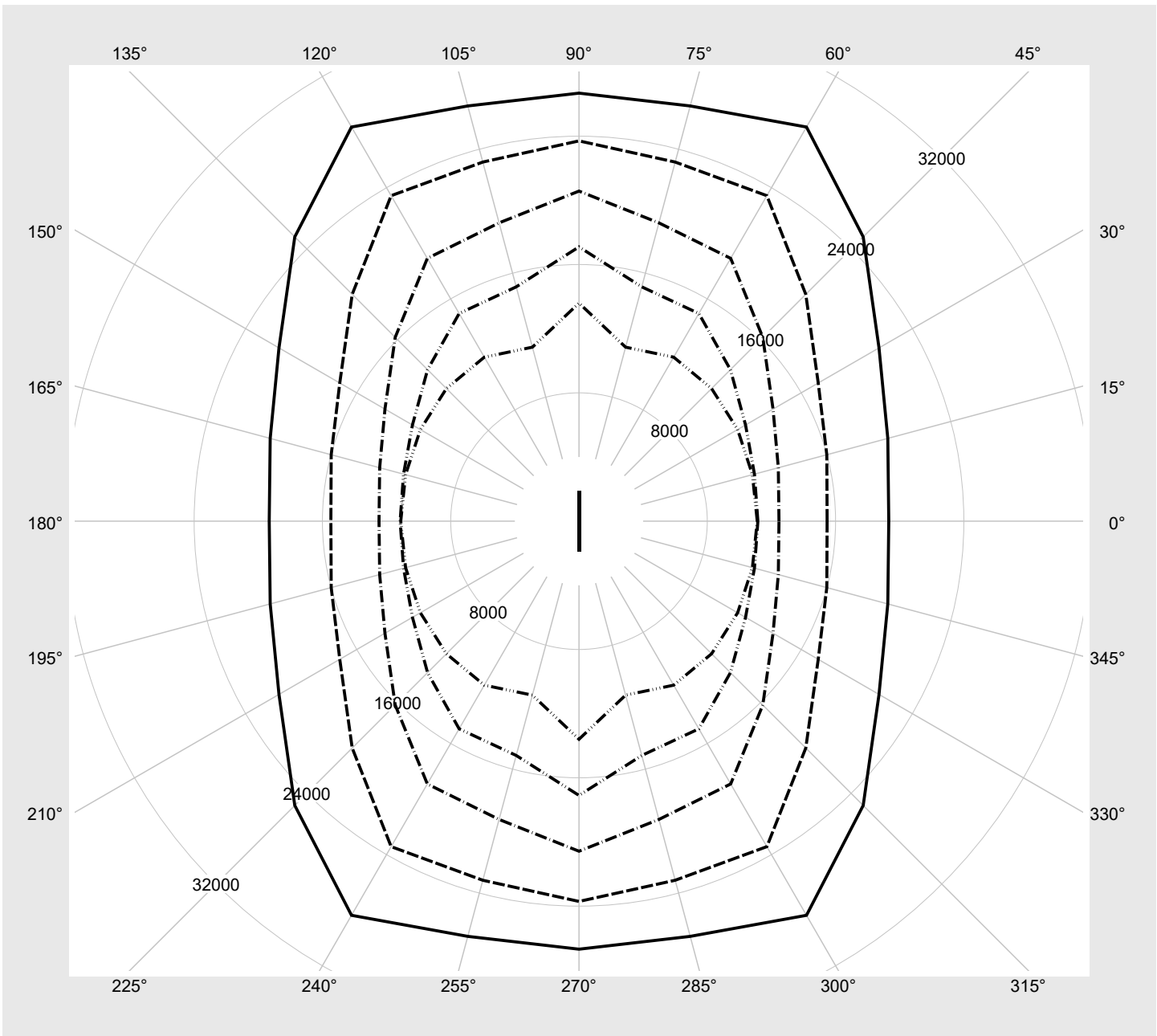
Family
Modario® 31

Order number: 53BM812DV4F5D2
EAN: 4069025121721

LP number
59594_6

Luminance values in cd/m²

γ 65° γ 70° γ 75° γ 80° γ 85°



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Dimming levels table	environmental temperature: 25°C	sITeco
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	15730	87.2
95	240	252	14928	82.3
90	227	250	14173	77.9
85	213	248	13354	73.1
80	200	245	12586	68.6
75	187	243	11811	64.2
70	174	240	11029	59.7
65	161	237	10240	55.4
60	148	234	9445	51.1
55	135	231	8643	46.7
50	123	227	7895	42.8
45	110	223	7083	38.4
40	97	219	6262	34.1
35	85	214	5500	30.2
30	73	208	4733	26.3
25	61	202	3961	22.4
20	48	193	3119	18.3
15	36	182	2338	14.4
10	24	168	1552	10.4
5	12	142	762	6.6
1	4	102	233	4.1