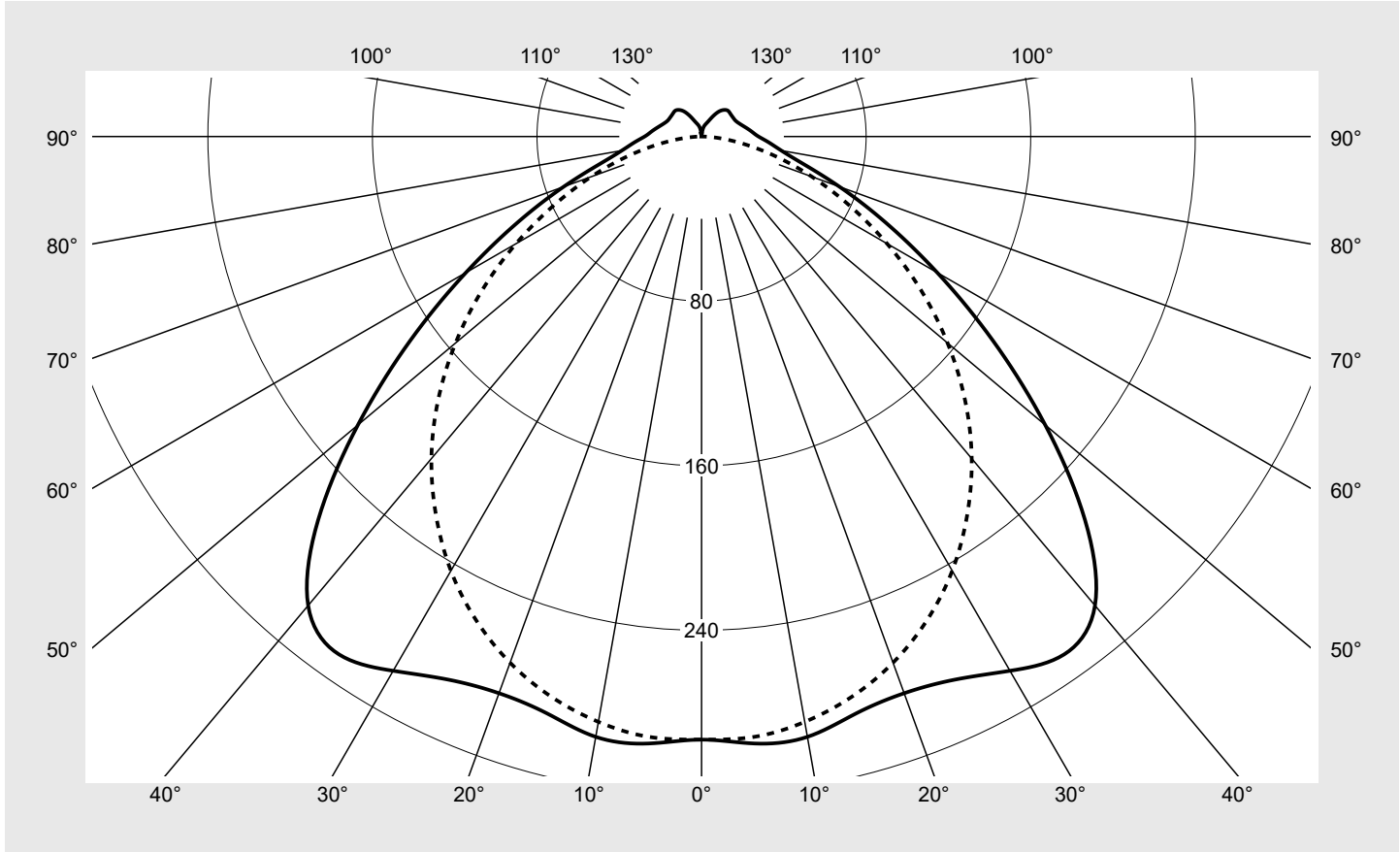


Photometric test report

Family Modario® 31	Order number: 53BM812DU4M1D2D EAN: 4069025134691	LP number 59594_48
Version	diffuser optic, frosted, wide distribution	serial documentation 06.05.2024
Lamps	LED 4000 K CRI ≥ 80	
Controlgear	ECG-DALI	
Setting	AC-mode	
Rated values	Net luminous flux = 26560 lm Power consumption = 146.1 W Luminous efficacy = 181.8 lm/W	



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

Photometric test report

Family Modario® 31	Order number: 53BM812DU4M1D2D EAN: 4069025134691	LP number 59594_48
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

Photometric test report

Family Modario® 31	Order number: 53BM812DU4M1D2D EAN: 4069025134691	LP number 59594_48
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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	24.6	26.3	25.0	26.6	26.9	24.4	26.1	24.8	26.4	26.7
	3H	25.5	27.0	25.8	27.3	27.7	25.5	27.1	25.9	27.4	27.7
	4H	25.8	27.2	26.2	27.6	27.9	25.9	27.4	26.3	27.7	28.1
	6H	26.1	27.4	26.5	27.8	28.1	26.2	27.5	26.6	27.9	28.3
	8H	26.3	27.5	26.7	27.9	28.3	26.3	27.5	26.7	27.9	28.3
	12H	26.4	27.6	26.8	28.0	28.4	26.3	27.5	26.7	27.9	28.3
4H	2H	25.3	26.7	25.6	27.1	27.4	25.1	26.6	25.5	26.9	27.3
	3H	26.3	27.5	26.7	27.9	28.3	26.5	27.7	26.9	28.1	28.5
	4H	26.7	27.8	27.1	28.2	28.6	27.0	28.1	27.4	28.5	28.9
	6H	27.1	28.0	27.5	28.4	28.9	27.3	28.3	27.8	28.7	29.2
	8H	27.3	28.1	27.7	28.6	29.1	27.4	28.3	27.9	28.8	29.2
	12H	27.5	28.3	28.0	28.7	29.2	27.5	28.3	28.0	28.8	29.3
8H	4H	26.9	27.8	27.4	28.3	28.7	27.2	28.1	27.7	28.5	29.0
	6H	27.4	28.2	27.9	28.6	29.1	27.7	28.4	28.2	28.9	29.4
	8H	27.7	28.4	28.2	28.9	29.4	27.9	28.5	28.4	29.0	29.5
	12H	28.1	28.6	28.6	29.1	29.6	28.0	28.6	28.5	29.1	29.6
12H	4H	27.0	27.8	27.4	28.2	28.7	27.3	28.0	27.7	28.5	29.0
	6H	27.5	28.2	28.0	28.6	29.2	27.8	28.4	28.3	28.9	29.4
	8H	27.8	28.4	28.4	28.9	29.4	28.0	28.6	28.5	29.0	29.6

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 2392	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°		41397.0	42483.4	43657.4	42933.2	39811.1	37434.0	37922.1	
50°		35949.5	37197.9	39757.5	41548.5	39363.4	35865.4	35954.4	
55°		30230.7	31341.2	34156.1	37740.7	37747.5	33902.6	33617.8	
60°		24835.9	25710.7	28081.9	32147.7	34323.2	31264.2	30837.7	
65°		20127.1	20771.5	22508.8	26115.1	29561.8	27921.3	27802.3	
70°		16121.4	16668.4	17948.5	20838.8	24412.4	24148.2	24700.7	
75°		12993.4	13407.8	14558.2	16888.0	19710.9	20059.1	21439.2	
80°		11622.0	11802.1	12495.7	13914.3	15575.3	15756.9	17814.7	
85°		11581.7	11664.8	11901.8	12182.9	12300.6	11700.2	14165.2	

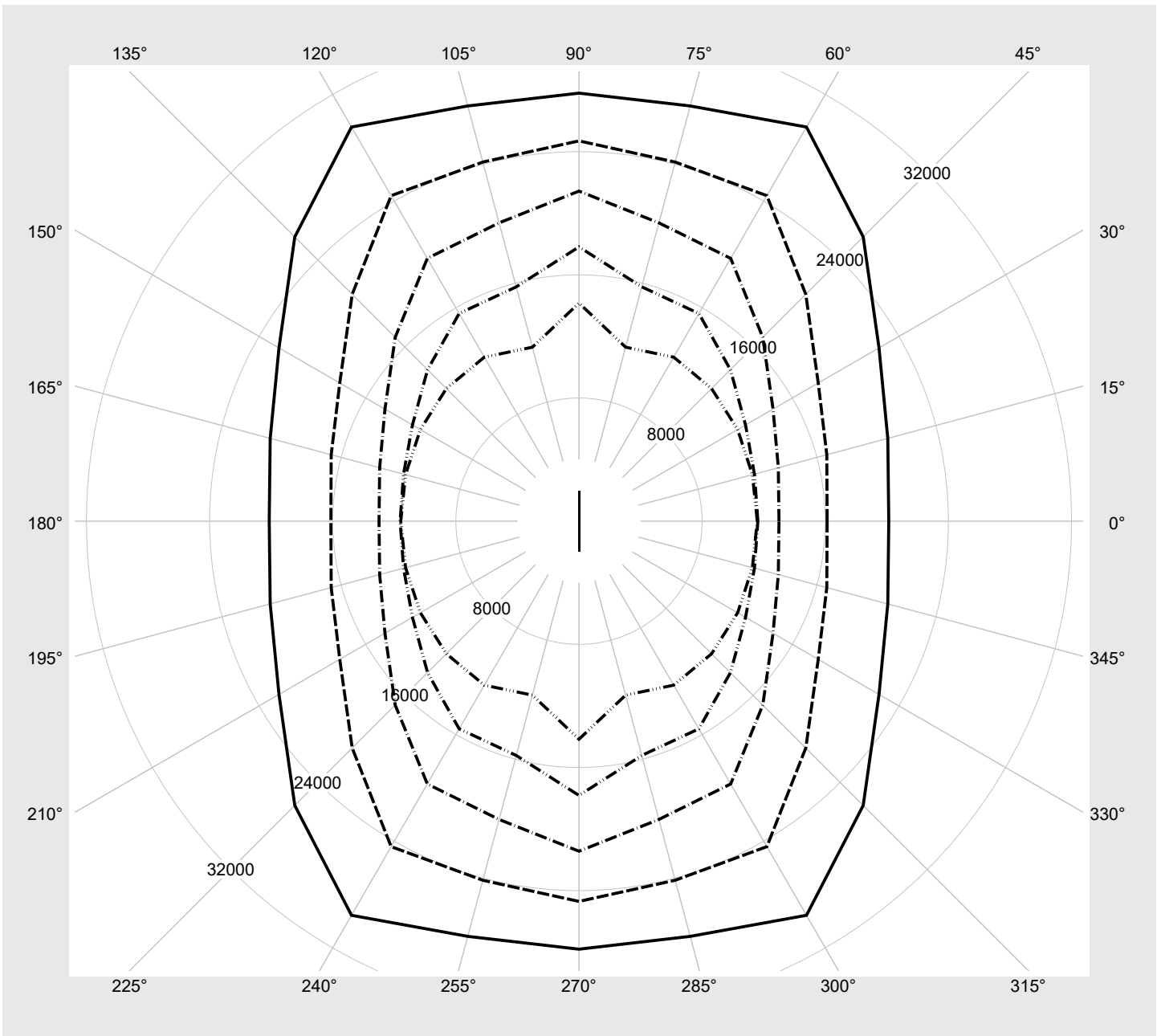
Photometric test report

Family
Modario® 31

Order number: 53BM812DU4M1D2D
EAN: 4069025134691

LP number
59594_48

Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**



Photometric test report

Family Modario® 31	Order number: 53BM812DU4M1D2D EAN: 4069025134691	LP number 59594_48
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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	26560	146.1
95	240	252	25227	138.1
90	226	250	23873	130.1
85	213	248	22602	122.6
80	199	245	21217	114.5
75	186	243	19917	107.0
70	173	240	18604	99.7
65	160	237	17278	92.4
60	147	234	15937	84.9
55	134	231	14584	77.6
50	122	227	13320	70.8
45	109	223	11943	63.6
40	97	219	10662	56.8
35	84	213	9261	49.5
30	72	208	7958	42.8
25	60	201	6646	36.1
20	48	193	5324	29.3
15	36	182	3994	22.5
10	24	168	2655	15.5
5	12	142	1307	8.2
2	4	102	405	2.9