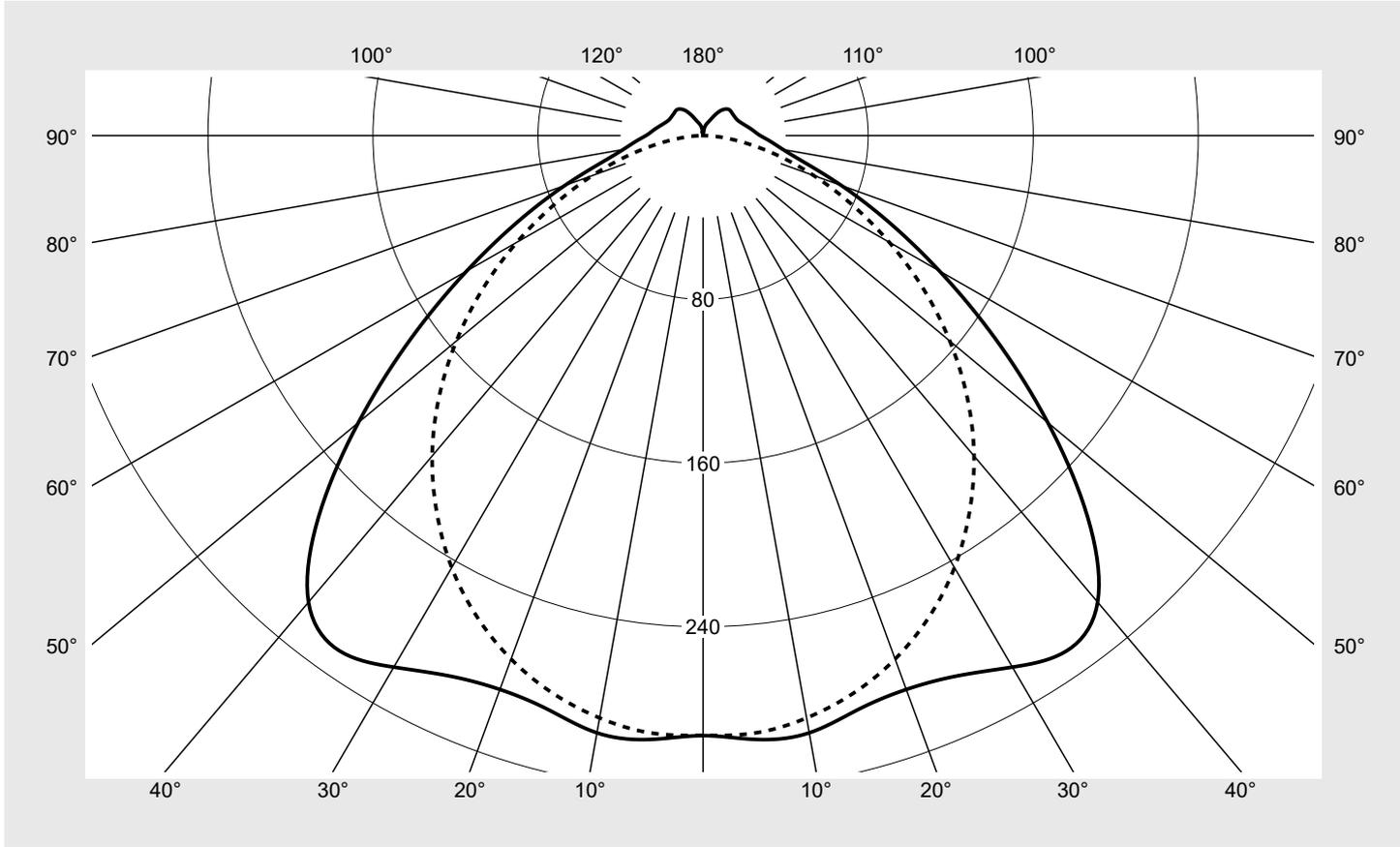


Photometric test report

Family Modario® 31	Order number: 53BM812DV6DXD2 EAN: 4069025123190	LP number 59594_7
	Version	diffuser optic, frosted, wide distribution
	Lamps	LED 6500 K CRI ≥ 80
	Controlgear	ECG-DALI
	Rated values	Net luminous flux = 13280 lm Power consumption = 74.9 W Luminous efficacy = 177.3 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

Photometric test report

Family Modario® 31	Order number: 53BM812DV6DXD2 EAN: 4069025123190	LP number 59594_7
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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Family Modario® 31	Order number: 53BM812DV6DXD2 EAN: 4069025123190	LP number 59594_7
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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	23.9	25.6	24.2	25.9	26.2	23.7	25.4	24.0	25.7	26.0
	3H	24.7	26.3	25.1	26.6	26.9	24.8	26.3	25.2	26.7	27.0
	4H	25.1	26.5	25.4	26.8	27.2	25.2	26.6	25.6	27.0	27.3
	6H	25.3	26.7	25.8	27.0	27.4	25.4	26.8	25.8	27.1	27.5
	8H	25.5	26.7	25.9	27.1	27.5	25.5	26.8	25.9	27.2	27.6
	12H	25.7	26.8	26.1	27.2	27.6	25.6	26.8	26.0	27.2	27.6
4H	2H	24.5	26.0	24.9	26.3	26.7	24.4	25.8	24.8	26.2	26.6
	3H	25.5	26.7	25.9	27.1	27.5	25.7	27.0	26.2	27.3	27.8
	4H	25.9	27.0	26.4	27.4	27.9	26.2	27.4	26.7	27.8	28.2
	6H	26.3	27.3	26.8	27.7	28.2	26.6	27.6	27.1	28.0	28.5
	8H	26.5	27.4	27.0	27.9	28.3	26.7	27.6	27.2	28.0	28.5
	12H	26.8	27.6	27.3	28.0	28.5	26.8	27.6	27.3	28.0	28.5
8H	4H	26.2	27.1	26.7	27.5	28.0	26.5	27.4	27.0	27.8	28.3
	6H	26.7	27.4	27.2	27.9	28.4	27.0	27.7	27.5	28.2	28.7
	8H	27.0	27.6	27.5	28.1	28.6	27.1	27.8	27.6	28.3	28.8
	12H	27.3	27.9	27.8	28.4	28.9	27.3	27.8	27.8	28.3	28.9
12H	4H	26.2	27.0	26.7	27.5	28.0	26.5	27.3	27.0	27.8	28.3
	6H	26.8	27.4	27.3	27.9	28.4	27.1	27.7	27.6	28.2	28.7
	8H	27.1	27.7	27.6	28.2	28.7	27.3	27.8	27.8	28.3	28.9

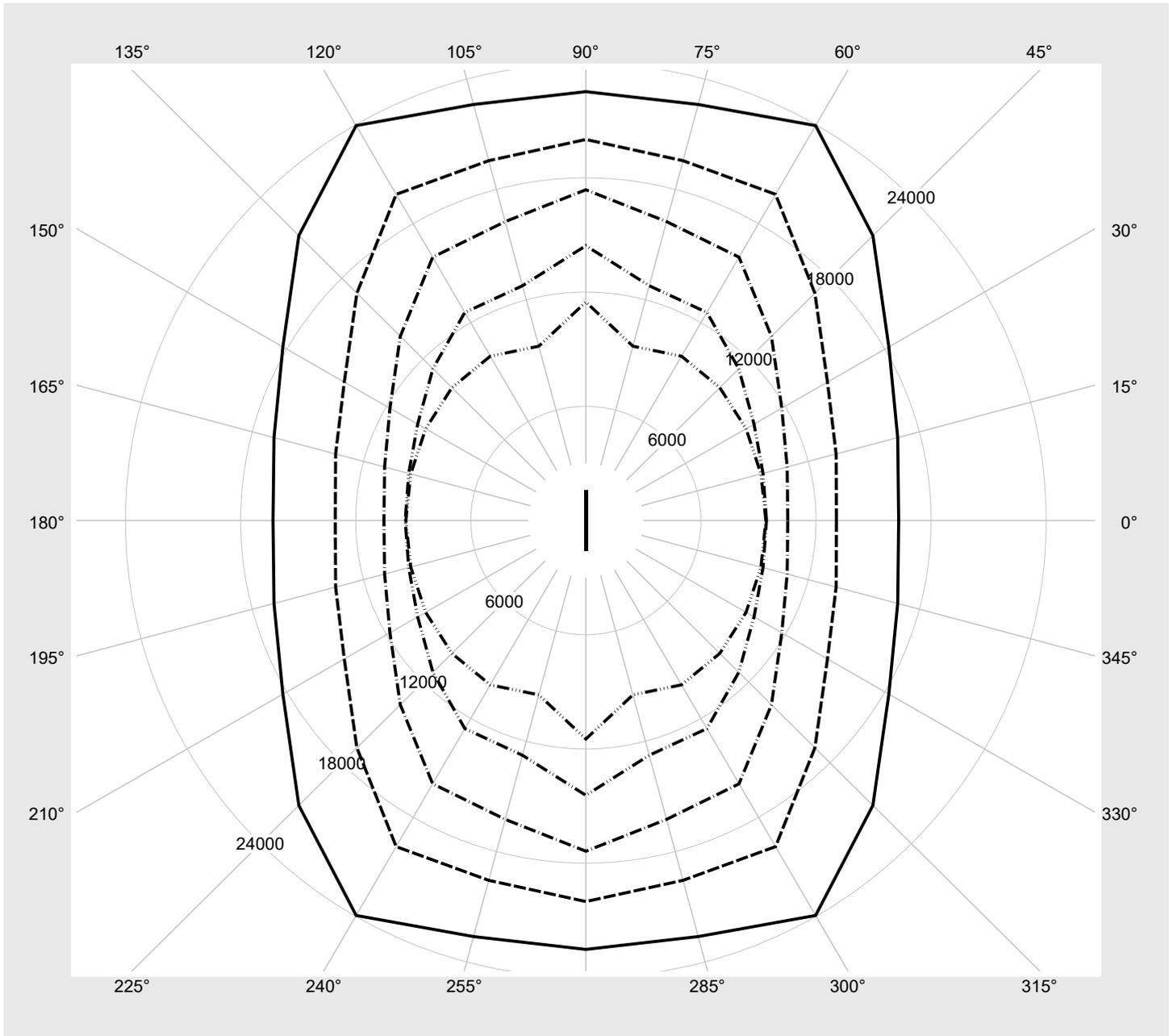
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1476	H(C0) = 25	H(C180) = 25
			B = 75	H(C90) = 0	H(C270) = 0

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°		33543.9	34424.2	35375.5	34788.7	32258.8	30332.7	30728.2	
50°		29129.8	30141.4	32215.4	33666.7	31896.1	29061.7	29133.8	
55°		24495.9	25395.7	27676.6	30581.2	30586.7	27471.2	27240.4	
60°		20124.5	20833.4	22754.7	26049.2	27812.0	25333.3	24987.8	
65°		16309.0	16831.1	18238.8	21161.0	23953.9	22624.6	22528.2	
70°		13063.2	13506.4	14543.7	16885.6	19781.3	19567.2	20014.9	
75°		10528.5	10864.3	11796.5	13684.3	15971.7	16253.8	17372.2	
80°		9417.3	9563.2	10125.2	11274.7	12620.6	12767.8	14435.2	
85°		9384.6	9452.0	9644.0	9871.8	9967.1	9480.7	11478.1	

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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	13280	74.9
95	241	252	12641	71.0
90	227	250	11945	67.0
85	214	248	11295	63.2
80	201	245	10639	59.3
75	188	243	9980	55.6
70	175	240	9315	51.9
65	162	238	8644	48.2
60	149	234	7971	44.5
55	136	231	7293	40.8
50	124	228	6666	37.3
45	111	224	5979	33.6
40	98	219	5289	30.0
35	86	214	4649	26.6
30	74	209	4005	23.3
25	61	202	3304	19.8
20	49	194	2654	16.4
15	37	183	2002	13.0
10	25	169	1345	9.7
5	13	145	686	6.4
2	5	110	245	4.2