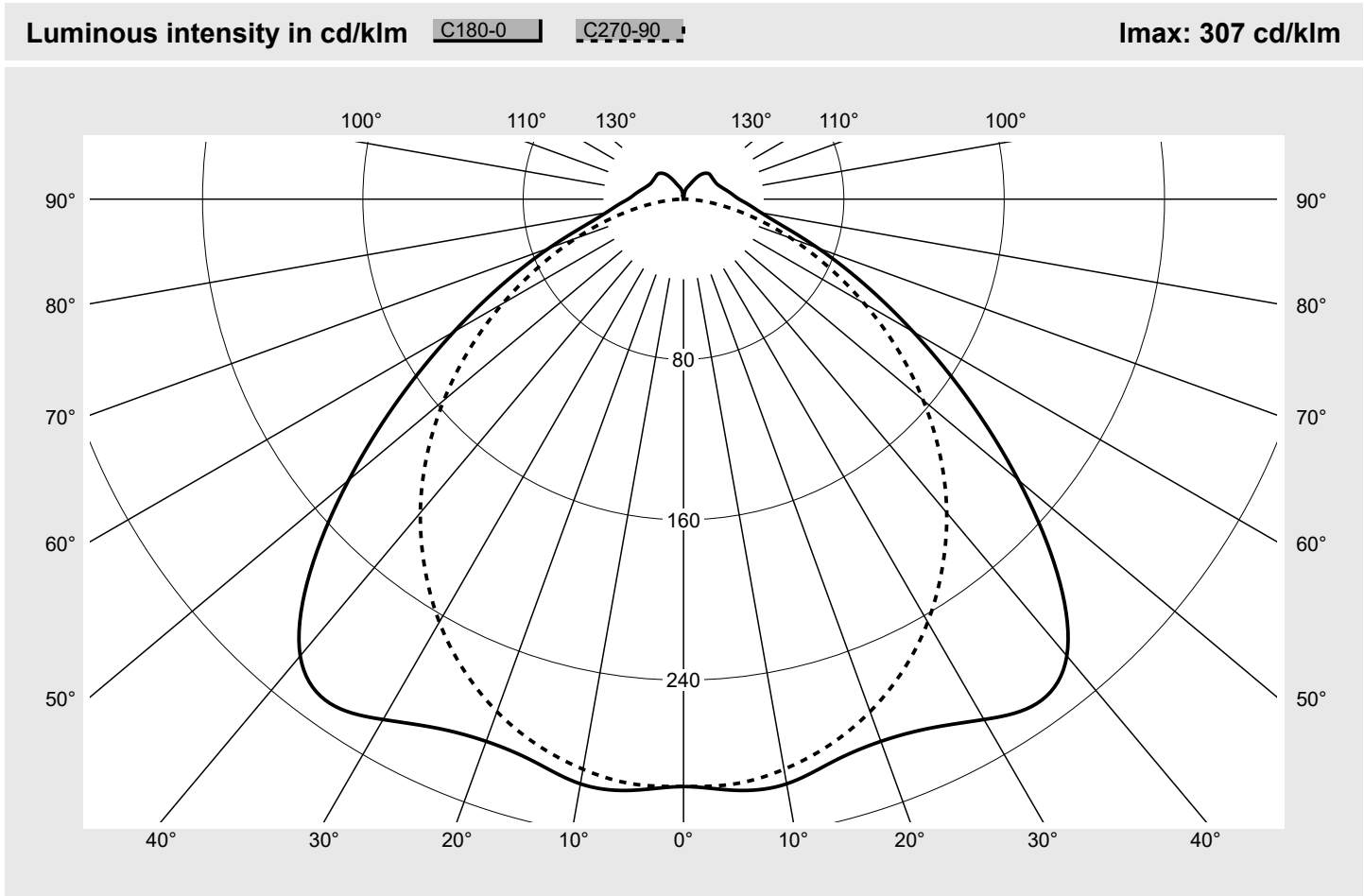


Photometric test report

Family Modario® 31	Order number: 53BM812DV4D5D2 EAN: 4069025123152	LP number 59594_5
	Version	diffuser optic, frosted, wide distribution
	Lamps	LED 4000 K CRI ≥ 80
	Controlgear	ECG-DALI
	Rated values	Net luminous flux = 13680 lm Power consumption = 74.9 W Luminous efficacy = 182.6 lm/W
		serial documentation 02.05.2024
		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

Photometric test report

Family Modario® 31	Order number: 53BM812DV4D5D2 EAN: 4069025123152	LP number 59594_5
Table of values for luminous intensities		Maximum luminous intensity
		siteco

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

Photometric test report

Family Modario® 31	Order number: 53BM812DV4D5D2 EAN: 4069025123152	LP number 59594_5
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	24.0	25.7	24.3	26.0	26.3	23.8	25.5	24.1	25.8	26.1
	3H	24.8	26.4	25.2	26.7	27.0	24.9	26.4	25.3	26.8	27.1
	4H	25.2	26.6	25.5	26.9	27.3	25.3	26.7	25.7	27.1	27.4
	6H	25.4	26.8	25.9	27.1	27.5	25.5	26.9	25.9	27.3	27.6
	8H	25.6	26.9	26.0	27.2	27.6	25.6	26.9	26.1	27.3	27.7
	12H	25.8	26.9	26.2	27.3	27.7	25.7	26.9	26.1	27.3	27.7
4H	2H	24.6	26.1	25.0	26.4	26.8	24.5	25.9	24.9	26.3	26.7
	3H	25.6	26.9	26.0	27.2	27.6	25.8	27.1	26.3	27.5	27.9
	4H	26.0	27.1	26.5	27.5	28.0	26.4	27.5	26.8	27.9	28.3
	6H	26.4	27.4	26.9	27.8	28.3	26.7	27.7	27.2	28.1	28.6
	8H	26.6	27.5	27.1	28.0	28.4	26.8	27.7	27.3	28.1	28.6
	12H	26.9	27.7	27.4	28.1	28.6	26.9	27.7	27.4	28.2	28.6
8H	4H	26.3	27.2	26.8	27.6	28.1	26.6	27.5	27.1	27.9	28.4
	6H	26.8	27.6	27.3	28.0	28.5	27.1	27.8	27.6	28.3	28.8
	8H	27.1	27.8	27.6	28.2	28.7	27.2	27.9	27.7	28.4	28.9
	12H	27.4	28.0	27.9	28.5	29.0	27.4	27.9	27.9	28.4	29.0
12H	4H	26.3	27.1	26.8	27.6	28.1	26.6	27.4	27.1	27.9	28.4
	6H	26.9	27.5	27.4	28.0	28.5	27.2	27.8	27.7	28.3	28.8
	8H	27.2	27.8	27.7	28.3	28.8	27.4	27.9	27.9	28.4	29.0

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	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°				
		γ Luminance in cd/m²									
45°	34554.2	35461.1	36441.0	35836.5	33230.5	31246.4	31653.7				
50°	30007.3	31049.3	33185.8	34680.7	32856.8	29937.0	30011.3				
55°	25233.7	26160.7	28510.3	31502.3	31508.0	28298.7	28060.9				
60°	20730.7	21460.9	23440.1	26833.8	28649.7	26096.3	25740.4				
65°	16800.2	17338.0	18788.2	21798.4	24675.4	23306.1	23206.7				
70°	13456.6	13913.2	14981.7	17394.2	20377.1	20156.6	20617.8				
75°	10845.7	11191.5	12151.8	14096.5	16452.8	16743.4	17895.4				
80°	9700.9	9851.3	10430.2	11614.3	13000.8	13152.4	14870.0				
85°	9667.3	9736.7	9934.5	10169.1	10267.3	9766.2	11823.8				

Photometric test report

Family
Modario® 31

Order number: 53BM812DV4D5D2
EAN: 4069025123152

LP number
59594_5

Luminance values in cd/m²

γ 65°

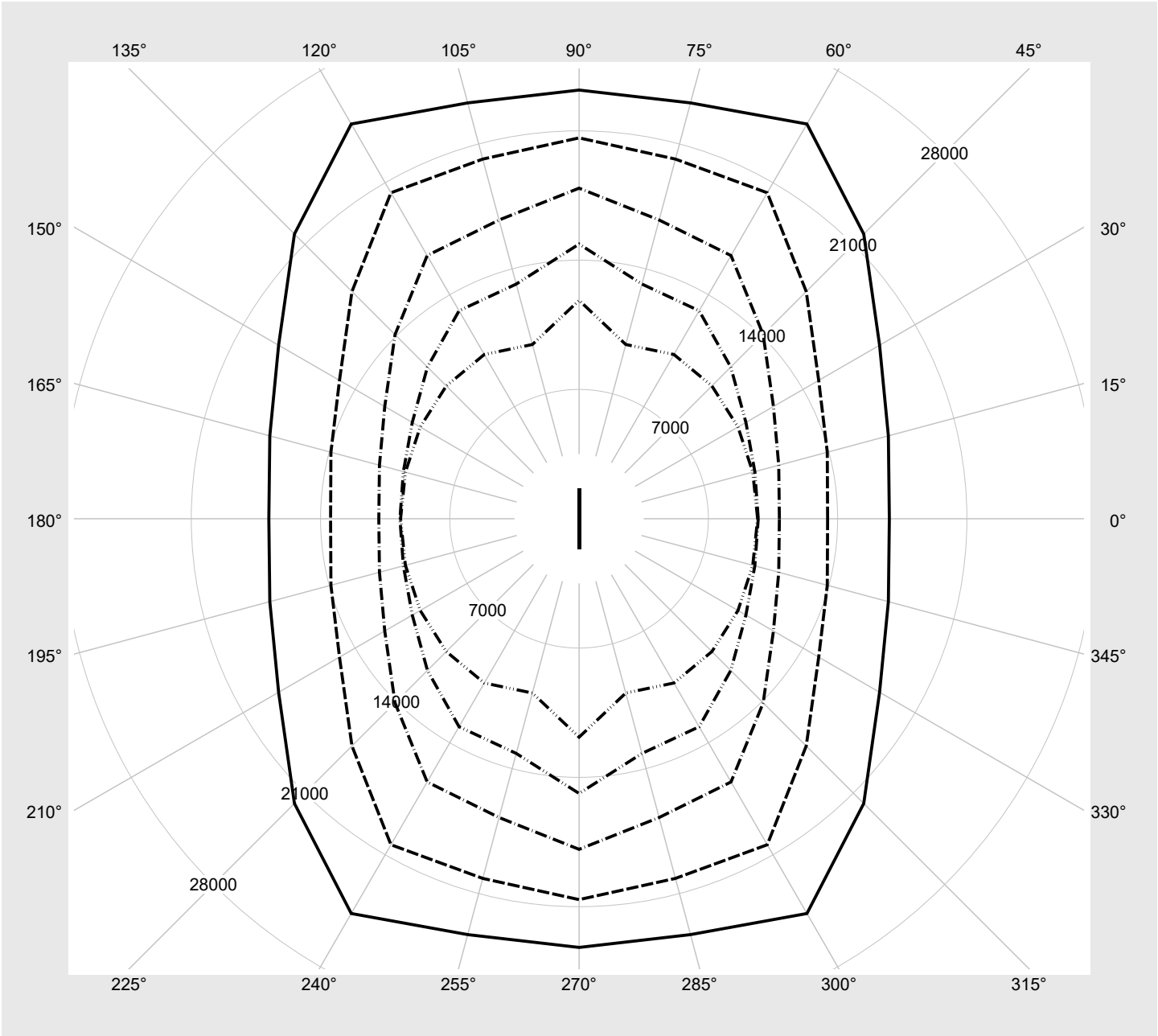
γ 70°

γ 75°

γ 80°

γ 85°

siteco



Photometric test report

Family Modario® 31	Order number: 53BM812DV4D5D2 EAN: 4069025123152	LP number 59594_5
Dimming levels table		environmental temperature: 25°C



Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	13680	74.9
95	240	252	12972	70.7
90	227	250	12308	67.0
85	214	248	11640	63.2
80	201	245	10966	59.3
75	187	243	10234	55.4
70	174	240	9551	51.6
65	162	238	8913	48.2
60	149	234	8220	44.5
55	136	231	7522	40.8
50	123	227	6821	37.1
45	111	224	6168	33.6
40	98	219	5457	30.0
35	86	214	4797	26.6
30	73	208	4078	23.0
25	61	202	3411	19.8
20	49	194	2740	16.4
15	37	183	2066	13.0
10	25	169	1389	9.7
5	13	145	708	6.4
2	5	110	253	4.2