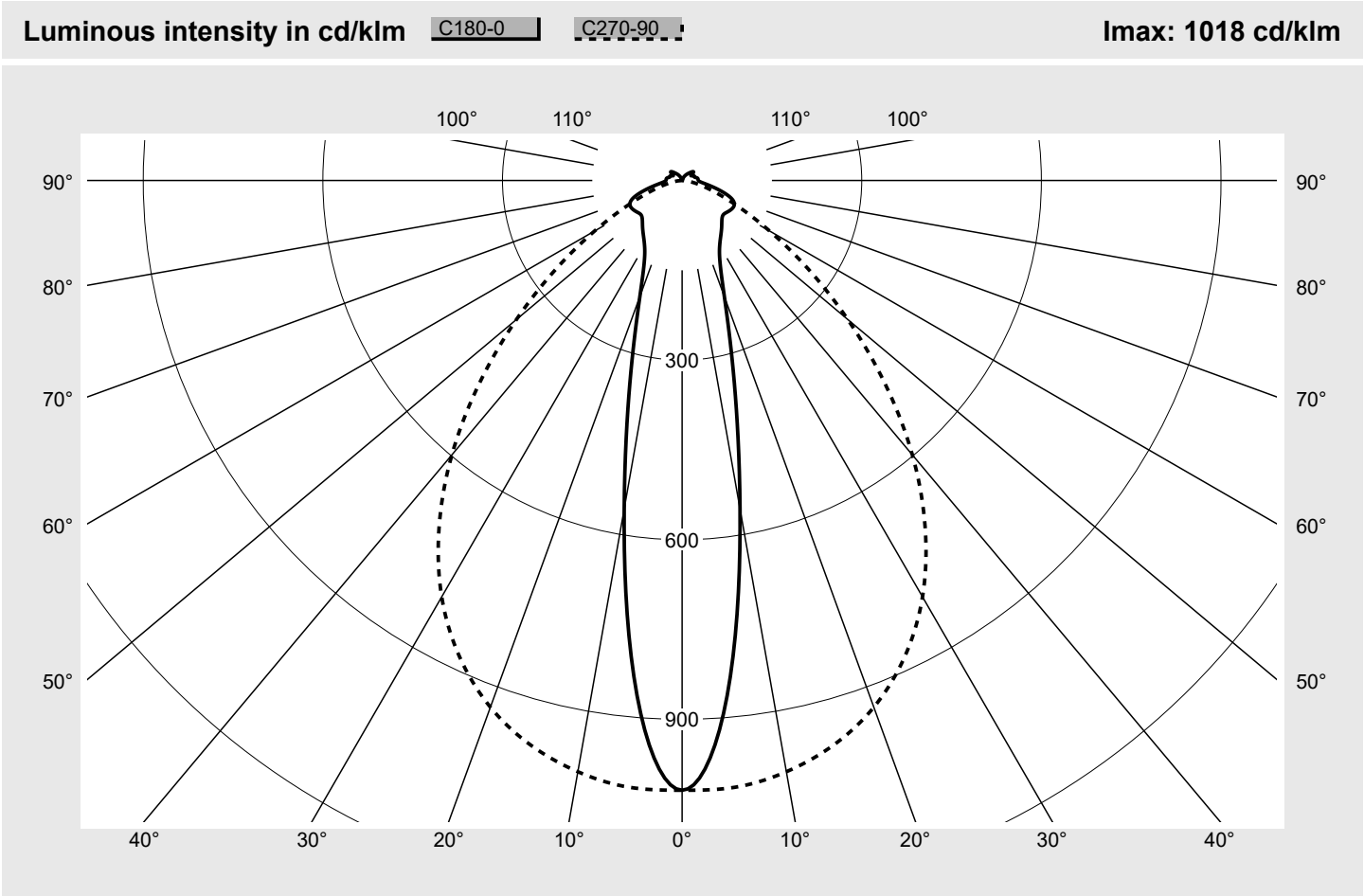


Photometric test report

Family Modario® 31	Order number: 53BM813DU4L3D2 EAN: 4069025134738	LP number 59591_5
	Version	diffuser optic, frosted, extremely narrow distribution
	Lamps	LED 4000 K CRI ≥ 80
	Controlgear	ECG-DALI
	Rated values	Net luminous flux = 23060 lm Power consumption = 128.4 W Luminous efficacy = 179.6 lm/W
		serial documentation 02.05.2024
		siteco



Classifications		Luminaire light output ratios	
DIN 5040	A 5 1	η_{LB}	100.0%
CIE	N1=62 N2=83 N3=95	ϕ_u	92.8%
	N4=93 N5=100	ϕ_o	7.2%

Measurement conditions
DIN EN 13032 and DIN 5032

Photometric test report

Family Modario® 31	Order number: 53BM813DU4L3D2 EAN: 4069025134738	LP number 59591_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°	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	6.1	6.1
5°	863.5	865.5	885.2	926.9	972.5	1004.2	1017.2	44.5	50.6
10°	557.0	571.1	621.3	716.9	841.6	954.3	1002.7	71.2	121.8
15°	330.4	345.0	393.6	498.9	672.6	875.0	976.4	81.3	203.1
20°	206.3	216.3	249.8	333.3	506.8	775.2	936.2	82.9	286.0
25°	149.5	154.3	171.2	225.2	368.7	662.8	878.7	80.9	366.9
30°	125.5	127.4	133.4	162.0	266.2	549.9	803.0	77.8	444.7
35°	112.6	113.0	113.6	126.4	194.4	443.6	707.7	73.4	518.1
40°	102.7	102.5	100.9	105.0	146.7	352.3	598.2	68.0	586.1
45°	93.9	93.4	90.8	90.4	114.5	275.3	478.6	61.4	647.5
50°	89.5	88.3	84.1	80.2	92.6	211.5	361.2	54.7	702.3
55°	91.9	90.0	83.1	75.6	78.1	158.7	256.1	49.4	751.6
60°	95.5	93.6	85.8	74.7	67.8	115.2	168.7	45.0	796.7
65°	96.1	94.0	85.1	70.0	57.9	81.0	104.2	40.4	837.1
70°	87.7	84.6	73.6	58.2	46.6	54.7	61.7	33.7	870.8
75°	66.6	64.7	55.8	44.2	34.3	34.3	34.9	25.1	895.8
80°	45.0	43.9	38.9	31.0	22.7	19.3	17.8	16.8	912.7
85°	31.6	30.7	28.4	21.9	13.8	9.4	6.9	11.2	923.9
90°	27.2	26.2	22.9	14.6	8.5	3.8	0.6	8.2	932.1
95°	26.6	25.3	20.3	12.9	8.9	4.2	0.7	7.8	939.9
100°	25.2	23.4	18.5	13.8	10.2	5.1	0.7	7.5	947.4
105°	21.7	20.9	18.5	15.3	11.2	5.6	0.7	7.3	954.7
110°	21.5	20.8	18.3	14.7	13.6	5.3	0.7	7.2	961.9
115°	18.6	17.5	16.2	18.7	13.7	4.5	0.8	6.6	968.5
120°	17.4	17.9	21.4	21.9	11.5	3.8	0.8	6.8	975.3
125°	23.0	23.5	23.9	18.0	9.5	3.5	0.9	6.8	982.1
130°	22.8	21.9	19.4	14.0	7.3	3.3	1.1	5.5	987.5
135°	18.6	17.4	15.0	10.9	5.5	3.1	1.2	4.0	991.5
140°	14.9	13.8	11.8	8.1	4.5	2.9	1.3	2.9	994.4
145°	11.8	10.9	8.9	6.0	4.0	2.6	1.4	2.0	996.4
150°	8.7	8.0	6.5	4.8	3.6	2.2	1.4	1.4	997.8
155°	6.2	5.8	5.2	4.1	3.2	1.8	1.4	0.9	998.7
160°	5.1	4.8	4.0	3.4	2.7	1.6	1.4	0.6	999.3
165°	4.0	3.9	3.1	2.8	2.0	1.5	1.4	0.4	999.7
170°	3.1	2.7	2.2	1.9	1.6	1.5	1.4	0.2	999.9
175°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.1	1000.0
180°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.0	1000.0

Photometric test report

Family Modario® 31			Order number: 53BM813DU4L3D2 EAN: 4069025134738							LP number 59591_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	20.0	21.5	20.3	21.8	22.1	25.0	26.5	25.3	26.8	27.1
	3H	22.8	24.1	23.2	24.5	24.8	25.8	27.1	26.2	27.4	27.8
	4H	23.8	25.1	24.2	25.4	25.8	26.0	27.2	26.4	27.6	28.0
	6H	24.4	25.7	24.8	26.0	26.4	26.1	27.3	26.6	27.6	28.0
	8H	24.7	25.8	25.1	26.2	26.6	26.2	27.3	26.7	27.6	28.0
	12H	24.9	26.0	25.3	26.4	26.8	26.2	27.2	26.7	27.6	28.0
4H	2H	20.9	22.1	21.3	22.4	22.8	25.0	26.3	25.4	26.6	27.0
	3H	23.7	24.8	24.1	25.2	25.6	25.9	27.0	26.3	27.3	27.8
	4H	24.8	25.8	25.3	26.2	26.6	26.2	27.2	26.6	27.6	28.0
	6H	25.6	26.5	26.1	26.9	27.4	26.4	27.2	26.8	27.7	28.1
	8H	25.9	26.7	26.4	27.2	27.6	26.5	27.2	27.0	27.7	28.2
	12H	26.2	26.9	26.7	27.4	27.9	26.5	27.2	27.0	27.7	28.1
8H	4H	25.1	25.8	25.6	26.3	26.8	26.3	27.1	26.8	27.5	28.0
	6H	26.1	26.7	26.5	27.1	27.6	26.6	27.2	27.1	27.7	28.2
	8H	26.4	27.0	26.9	27.5	28.0	26.7	27.3	27.2	27.7	28.3
	12H	26.8	27.3	27.3	27.8	28.3	26.7	27.2	27.3	27.7	28.3
12H	4H	25.1	25.8	25.6	26.2	26.7	26.3	27.0	26.8	27.5	28.0
	6H	26.1	26.6	26.6	27.1	27.6	26.6	27.2	27.1	27.7	28.2
	8H	26.5	27.0	27.0	27.5	28.0	26.7	27.2	27.2	27.7	28.3

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 2392 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°		12804.5	12845.9	12812.9	13297.7	17844.4	46074.4	87002.7
50°		12804.9	12761.8	12517.3	12517.9	15456.9	38356.1	72219.9
55°		13956.0	13811.5	13184.2	12677.5	14133.5	31672.7	57385.1
60°		15568.3	15450.4	14706.6	13640.3	13523.7	25773.2	43380.8
65°		17044.2	16908.7	15986.1	14148.2	12962.6	20801.1	31703.4
70°		17207.1	16861.5	15429.3	13265.3	12017.8	16624.6	23197.8
75°		14745.5	14589.3	13350.8	11672.4	10501.3	12881.3	17339.6
80°		11519.2	11485.8	10925.7	9830.6	8642.4	9604.8	13140.6
85°		9698.6	9672.3	9739.3	8738.6	7003.0	6968.3	10179.3

Photometric test report

Family
Modario® 31

Order number: 53BM813DU4L3D2
EAN: 4069025134738

LP number
59591_5

Luminance values in cd/m²

γ 65°

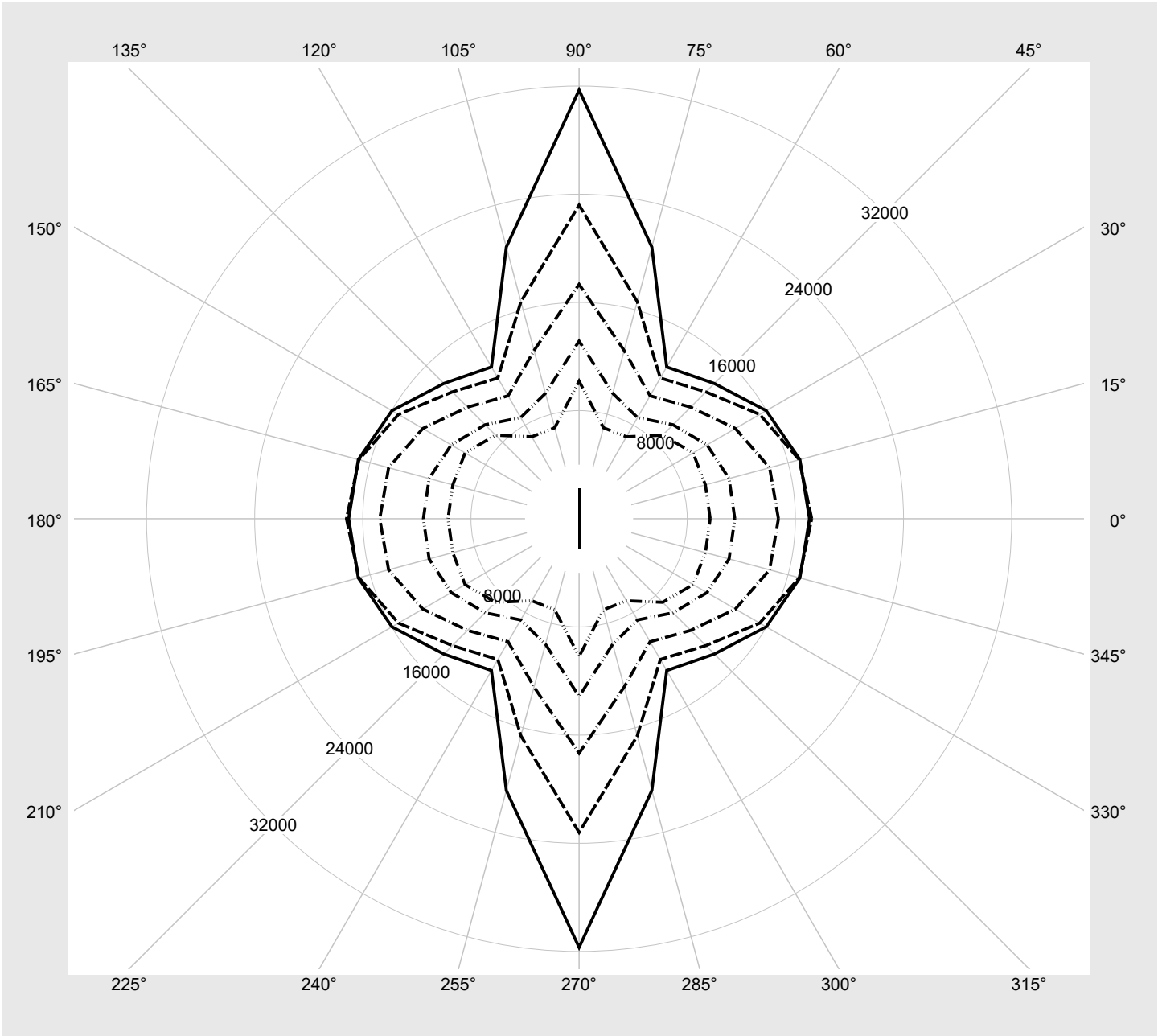
γ 70°

γ 75°

γ 80°

γ 85°

siteco



Photometric test report

Family Modario® 31	Order number: 53BM813DU4L3D2 EAN: 4069025134738	LP number 59591_5
Dimming levels table		environmental temperature: 25°C

siteco

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	23060	128.4
95	240	252	21885	121.3
90	227	250	20779	114.8
85	213	248	19577	107.7
80	200	245	18452	101.2
75	187	243	17315	94.8
70	174	240	16169	88.3
65	161	237	15012	81.9
60	148	234	13847	75.4
55	135	231	12670	69.0
50	123	227	11575	63.1
45	110	223	10383	56.6
40	97	219	9181	50.2
35	85	214	8064	44.3
30	73	208	6938	38.4
25	61	202	5807	32.5
20	48	193	4573	26.0
15	36	182	3427	20.0
10	24	168	2275	13.8
5	12	142	1117	7.3
1	4	102	342	2.6