
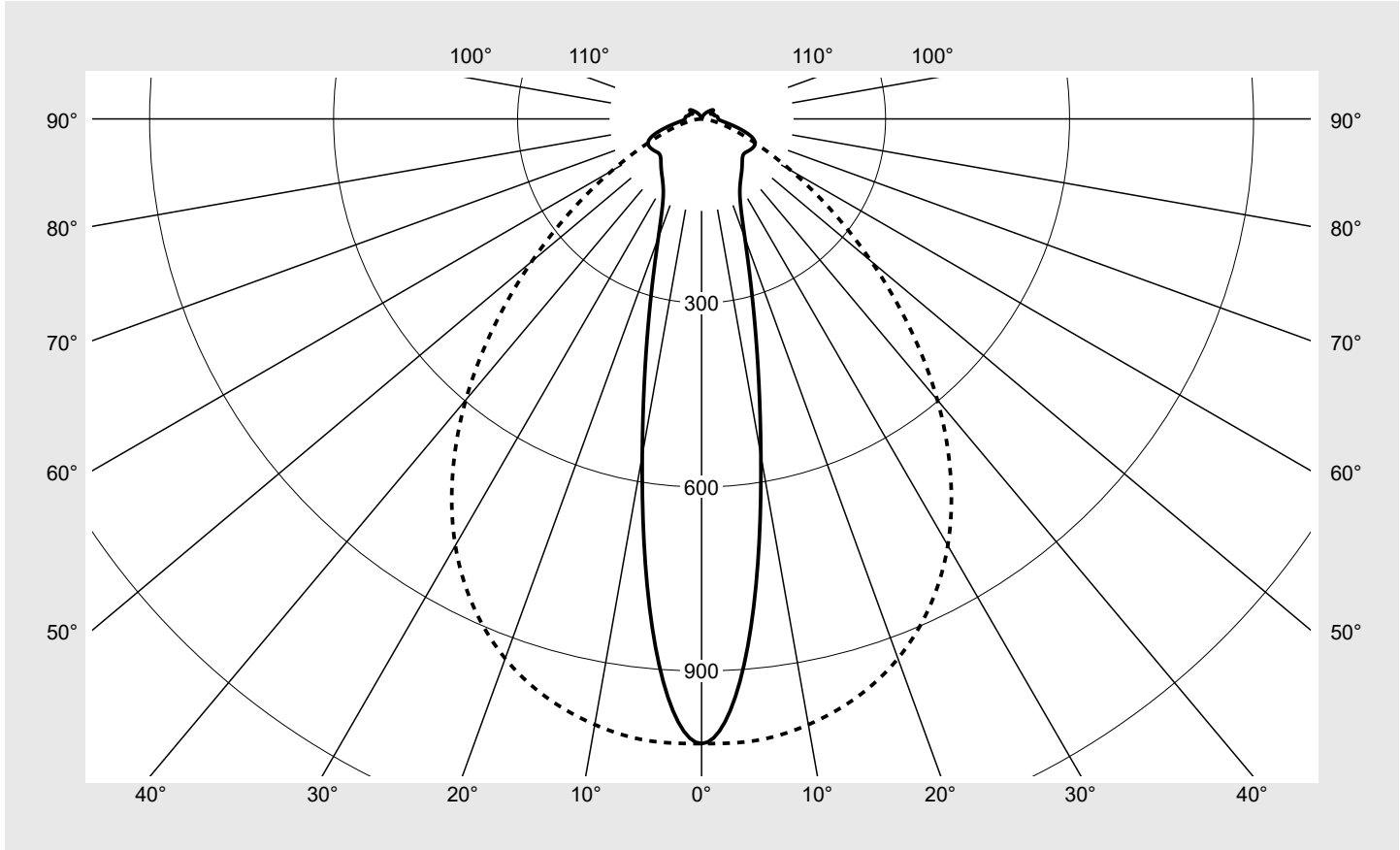


Photometric test report

Family Modario® 31	Order number: 53BM813DV4A5C2 EAN: 4069025123251	LP number 59591_2
	Version diffuser optic, frosted, extremely narrow distribution	serial documentation 02.05.2024
	Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 10610 lm Power consumption = 61.4 W Luminous efficacy = 172.8 lm/W	
		

Luminous intensity in cd/klm C180-0 C270-90 Imax: 1018 cd/klm



Classifications	
DIN 5040	A 5 1
CIE	N1=62 N2=83 N3=95 N4=93 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	92.8%
ϕ_o	7.2%

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°	30°	45°	60°	75°	90° 270°	Phi-zone	Total Phi-zone
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			
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

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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	19.0	20.5	19.3	20.8	21.1	24.0	25.5	24.3	25.8	26.1
	3H	21.8	23.1	22.1	23.5	23.8	24.8	26.1	25.1	26.4	26.8
	4H	22.7	24.1	23.1	24.4	24.8	25.0	26.2	25.4	26.6	27.0
	6H	23.4	24.6	23.8	25.0	25.4	25.1	26.3	25.5	26.6	27.0
	8H	23.7	24.8	24.1	25.2	25.6	25.2	26.2	25.6	26.6	27.0
	12H	23.9	25.0	24.3	25.4	25.8	25.2	26.2	25.7	26.6	27.0
4H	2H	19.8	21.1	20.2	21.4	21.8	24.0	25.3	24.3	25.6	26.0
	3H	22.7	23.8	23.1	24.2	24.6	24.8	25.9	25.3	26.3	26.7
	4H	23.8	24.8	24.2	25.2	25.6	25.2	26.1	25.6	26.6	27.0
	6H	24.6	25.5	25.0	25.9	26.4	25.4	26.2	25.8	26.7	27.1
	8H	24.9	25.7	25.4	26.1	26.6	25.5	26.2	25.9	26.7	27.1
	12H	25.2	25.9	25.7	26.4	26.8	25.5	26.2	26.0	26.6	27.1
8H	4H	24.1	24.8	24.5	25.3	25.7	25.3	26.1	25.8	26.5	27.0
	6H	25.0	25.7	25.5	26.1	26.6	25.6	26.2	26.1	26.7	27.2
	8H	25.4	26.0	25.9	26.5	27.0	25.7	26.2	26.2	26.7	27.2
	12H	25.8	26.3	26.3	26.8	27.3	25.7	26.2	26.2	26.7	27.3
12H	4H	24.1	24.8	24.6	25.2	25.7	25.3	26.0	25.8	26.5	27.0
	6H	25.1	25.6	25.6	26.1	26.6	25.6	26.2	26.1	26.7	27.2
	8H	25.5	26.0	26.0	26.5	27.0	25.7	26.2	26.2	26.7	27.3

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°		9547.6	9578.4	9553.8	9915.4	13305.5	34355.1	64872.9	
50°		9547.9	9515.8	9333.5	9333.9	11525.3	28599.9	53850.3	
55°		10406.2	10298.5	9830.7	9452.9	10538.6	23616.5	42788.8	
60°		11608.4	11520.5	10965.9	10170.8	10083.8	19217.6	32346.6	
65°		12708.9	12607.8	11919.9	10549.5	9665.5	15510.2	23639.4	
70°		12830.4	12572.6	11504.7	9891.2	8961.0	12396.0	17297.3	
75°		10994.8	10878.4	9954.9	8703.4	7830.2	9604.8	12929.2	
80°		8589.2	8564.3	8146.6	7330.1	6444.2	7161.7	9798.2	
85°		7231.7	7212.1	7262.0	6515.8	5221.7	5195.9	7590.1	

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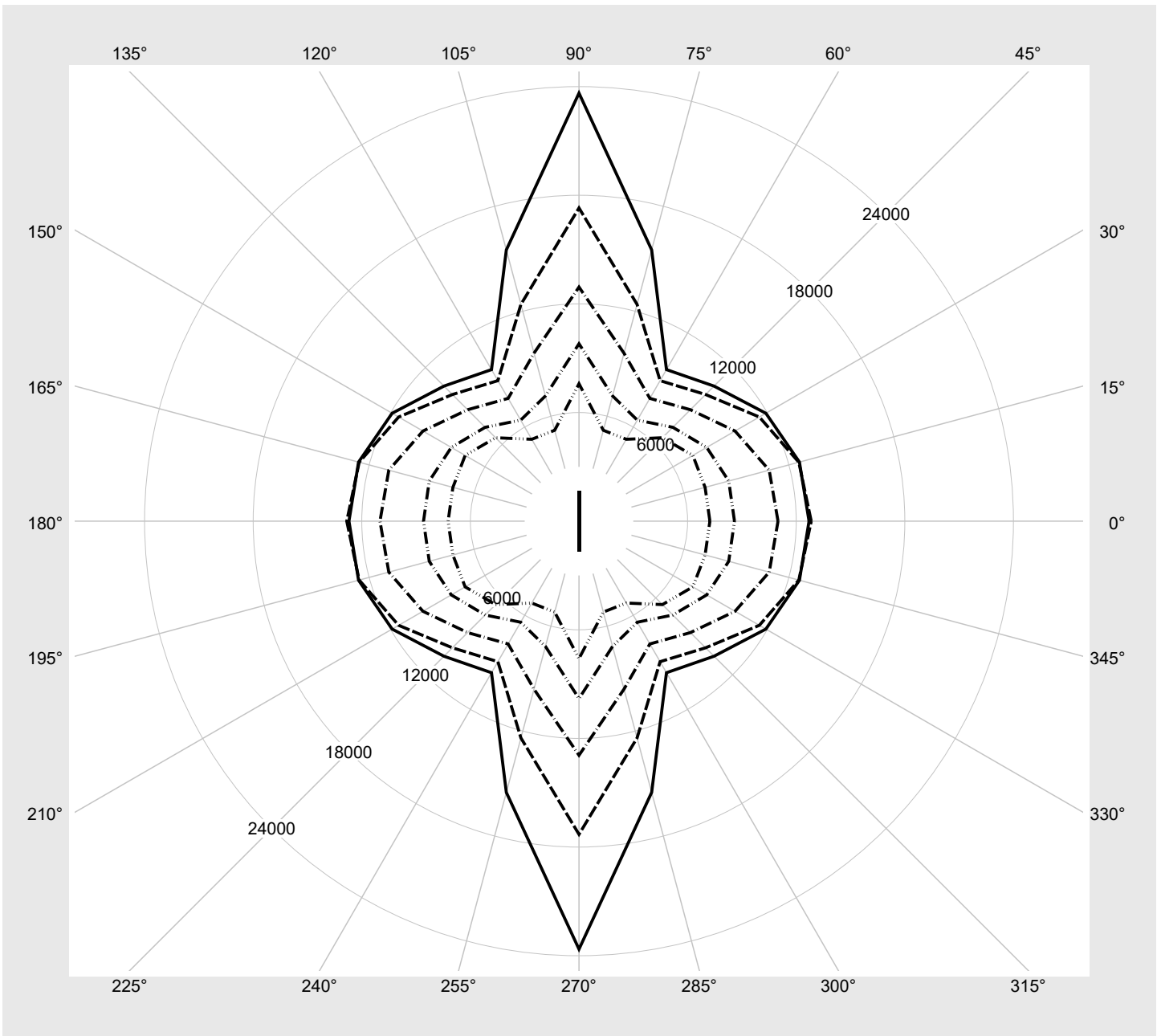
Family
Modario® 31

Order number: 53BM813DV4A5C2
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LP number
59591_2

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	----	----	----	----
100	253	254	10573	61.1
95	240	252	10082	57.9
90	226	250	9547	54.5
85	212	247	9006	51.0
80	199	245	8496	47.9
75	185	242	7939	44.6
70	172	240	7416	41.4
65	159	237	6888	38.3
60	146	234	6355	35.3
55	134	231	5856	32.5
50	121	227	5311	29.4
45	108	223	4759	26.3
40	96	218	4247	23.6
35	84	213	3729	20.8
30	71	207	3162	17.9
25	59	201	2633	15.3
20	47	192	2101	12.6
15	36	182	1611	10.0
10	24	168	1073	7.0
5	12	142	530	4.2
2	4	102	166	2.4