
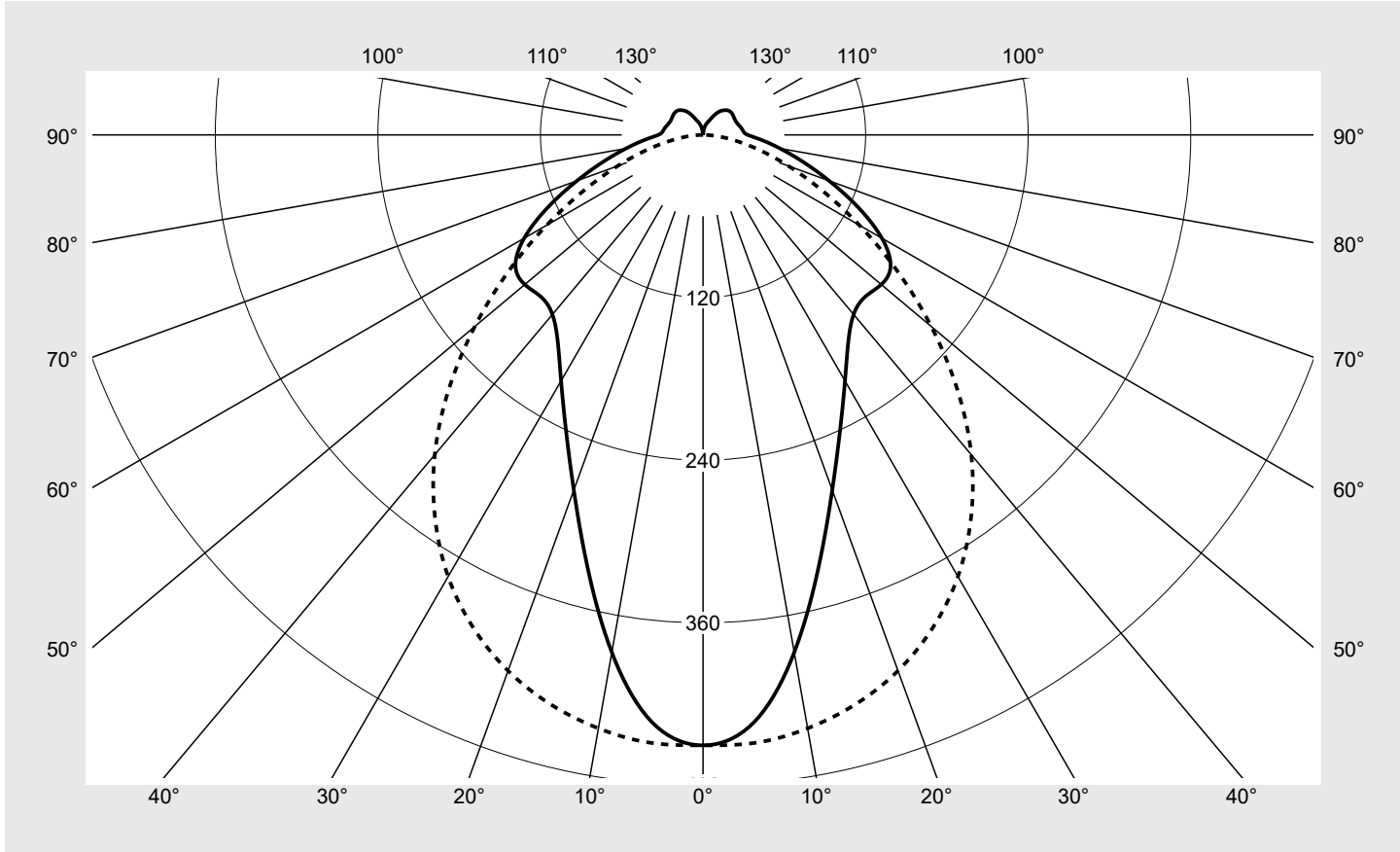


Photometric test report

Family Modario® 31 	Order number: 53BM811DV4A5C2 EAN: 4069025122995	LP number 59593_2
	Version diffuser optic, frosted, narrow distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 10860 lm Power consumption = 61.4 W Luminous efficacy = 176.9 lm/W	serial documentation 02.05.2024

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 450 cd/klm**



Classifications	
DIN 5040	A 4 1
CIE	N1=50 N2=78 N3=94 N4=90 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	90.4%
ϕ_o	9.6%

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°	450.4	450.4	450.4	450.4	450.4	450.4	450.4	2.7	2.7
5°	434.8	434.4	434.2	439.8	445.7	448.7	450.2	21.1	23.8
10°	387.7	390.2	396.4	411.2	428.2	439.8	444.6	39.4	63.1
15°	329.8	334.4	345.9	370.2	400.2	424.7	434.9	53.4	116.5
20°	278.9	283.9	296.1	324.2	364.7	403.3	420.8	63.2	179.7
25°	239.6	243.9	253.6	279.8	325.0	376.1	401.3	69.5	249.1
30°	209.6	212.8	219.1	240.3	283.9	343.6	376.3	72.7	321.9
35°	186.9	188.8	191.5	205.8	243.8	306.6	344.9	73.5	395.4
40°	173.0	173.1	171.1	177.5	207.0	267.1	308.1	72.6	468.0
45°	169.1	166.9	158.6	155.4	174.1	225.8	265.4	70.9	538.9
50°	171.8	167.4	153.3	140.0	146.6	186.3	219.9	69.2	608.2
55°	169.0	164.3	148.2	128.3	123.8	150.1	175.1	66.4	674.5
60°	152.5	148.9	135.5	115.0	103.6	117.6	133.2	60.4	734.9
65°	126.3	124.1	114.5	97.6	84.4	89.2	96.9	51.5	786.4
70°	99.0	97.7	90.6	78.2	65.9	64.8	67.1	41.2	827.6
75°	76.1	75.0	69.7	60.3	49.1	44.1	43.1	31.6	859.2
80°	57.7	56.8	53.2	44.9	34.6	27.3	24.1	23.2	882.4
85°	43.5	42.6	39.5	32.5	22.9	14.7	10.1	16.3	898.6
90°	33.0	32.1	28.8	22.5	14.4	6.3	0.8	11.1	909.7
95°	29.9	28.9	25.8	20.4	13.4	6.1	0.9	10.0	919.7
100°	28.7	27.7	24.5	19.6	13.4	6.3	0.9	9.6	929.3
105°	27.4	26.4	23.6	19.5	13.7	6.7	0.8	9.2	938.4
110°	26.5	25.4	23.3	19.7	14.2	7.2	0.7	8.9	947.3
115°	26.1	25.1	23.5	20.2	14.6	6.8	0.8	8.6	955.9
120°	26.2	25.3	23.9	20.5	14.8	6.4	0.8	8.3	964.2
125°	26.5	25.6	24.0	20.4	14.4	6.3	0.8	7.8	972.0
130°	26.5	25.4	23.5	19.6	12.9	6.2	0.9	7.1	979.0
135°	25.6	24.4	22.2	18.2	10.9	5.6	1.1	6.1	985.2
140°	23.7	22.4	20.1	15.4	9.4	4.6	1.1	4.9	990.1
145°	21.0	19.8	17.0	12.1	7.6	3.5	1.3	3.7	993.8
150°	16.9	15.5	12.9	9.4	6.3	2.5	1.3	2.5	996.4
155°	12.6	11.7	10.1	7.4	5.2	1.9	1.4	1.7	998.0
160°	9.9	9.3	7.5	5.7	3.8	1.6	1.4	1.0	999.1
165°	7.7	7.3	5.1	4.1	2.4	1.5	1.4	0.6	999.7
170°	4.8	3.7	2.7	2.3	1.6	1.5	1.5	0.2	999.9
175°	1.6	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	22.4	24.0	22.7	24.3	24.7	22.9	24.5	23.2	24.9	25.2
	3H	24.1	25.6	24.5	26.0	26.3	24.1	25.6	24.5	25.9	26.3
	4H	24.8	26.2	25.2	26.6	27.0	24.6	26.0	24.9	26.3	26.7
	6H	25.4	26.7	25.8	27.1	27.5	24.9	26.2	25.3	26.5	26.9
	8H	25.7	26.9	26.1	27.3	27.7	25.0	26.2	25.4	26.6	27.0
	12H	25.9	27.1	26.3	27.5	27.9	25.1	26.2	25.5	26.6	27.0
4H	2H	23.0	24.4	23.4	24.8	25.1	23.4	24.8	23.7	25.1	25.5
	3H	24.9	26.1	25.4	26.5	26.9	24.7	25.9	25.1	26.3	26.7
	4H	25.8	26.9	26.2	27.3	27.7	25.3	26.4	25.7	26.8	27.2
	6H	26.5	27.5	27.0	27.9	28.3	25.7	26.7	26.2	27.1	27.6
	8H	26.8	27.7	27.3	28.2	28.6	25.9	26.7	26.3	27.2	27.7
	12H	27.2	27.9	27.6	28.4	28.9	26.0	26.8	26.5	27.2	27.7
8H	4H	26.0	26.9	26.5	27.4	27.8	25.6	26.5	26.1	26.9	27.4
	6H	26.9	27.7	27.4	28.1	28.6	26.2	26.9	26.6	27.4	27.9
	8H	27.4	28.0	27.9	28.5	29.0	26.4	27.0	26.9	27.5	28.0
	12H	27.8	28.4	28.3	28.9	29.4	26.5	27.1	27.0	27.6	28.1
12H	4H	26.1	26.9	26.6	27.3	27.8	25.7	26.5	26.2	26.9	27.4
	6H	27.0	27.7	27.5	28.2	28.7	26.3	26.9	26.8	27.4	27.9
	8H	27.5	28.1	28.0	28.6	29.1	26.5	27.1	27.0	27.6	28.1

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°		17592.7	17510.6	17074.7	17451.6	20700.3	28842.8	36816.6	
50°		18761.2	18467.4	17404.9	16682.3	18663.3	25787.4	33560.0	
55°		19581.0	19251.5	17953.7	16411.5	17108.4	22855.8	29943.7	
60°		18963.4	18761.3	17720.4	16025.0	15774.1	20066.5	26141.5	
65°		17094.5	17043.7	16411.4	15050.3	14438.7	17471.8	22498.2	
70°		14827.9	14866.8	14486.9	13616.0	12962.8	15021.4	19258.0	
75°		12847.8	12918.0	12721.5	12155.1	11470.5	12658.0	16322.3	
80°		11285.7	11358.0	11391.6	10848.7	10049.5	10373.2	13589.4	
85°		10174.9	10249.3	10351.9	9892.5	8857.2	8346.9	11319.1	

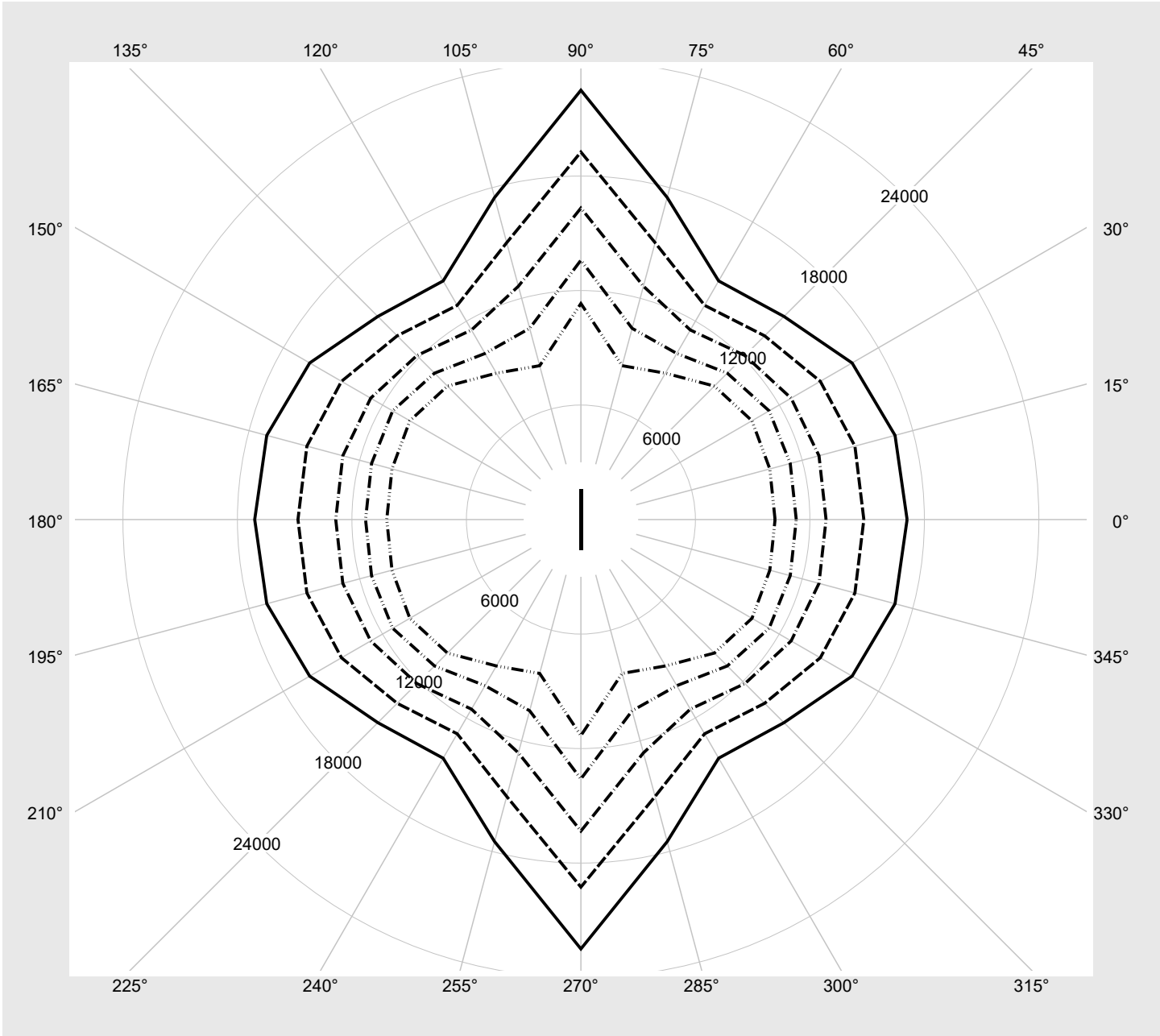
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Luminance values in cd/m²

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	----	----	----	----
100	253	254	10822	61.1
95	240	252	10320	57.9
90	226	250	9772	54.5
85	212	247	9218	51.0
80	199	245	8697	47.9
75	185	242	8126	44.6
70	172	240	7591	41.4
65	159	237	7051	38.3
60	146	234	6504	35.3
55	134	231	5994	32.5
50	121	227	5436	29.4
45	108	223	4872	26.3
40	96	218	4347	23.6
35	84	213	3817	20.8
30	71	207	3237	17.9
25	59	201	2695	15.3
20	47	192	2151	12.6
15	36	182	1649	10.0
10	24	168	1098	7.0
5	12	142	543	4.2
2	4	102	170	2.4