
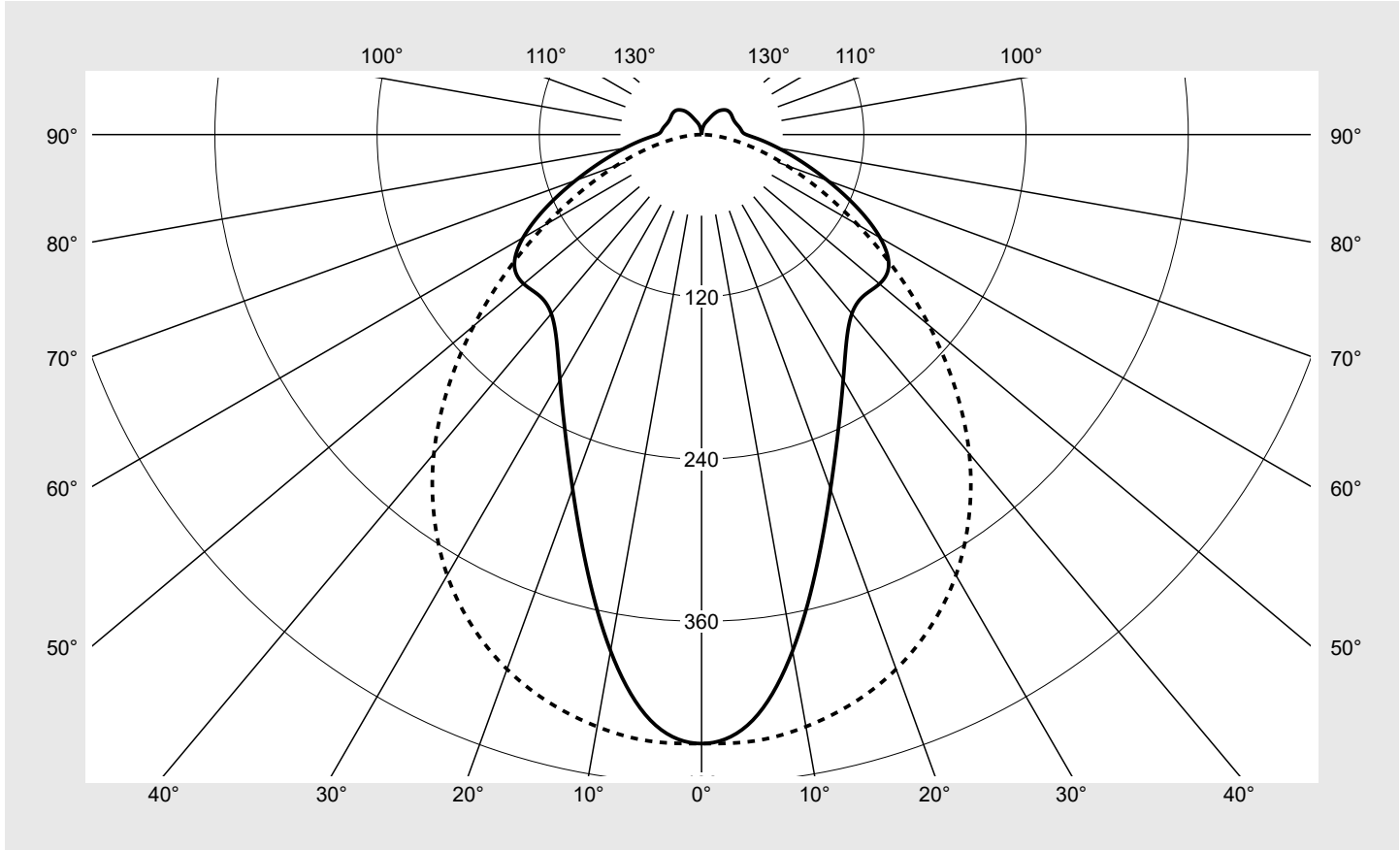


Photometric test report

Family Modario® 31 	Order number: 53BM811DU4L3D2 EAN: 4069025134530	LP number 59593_5
	Version diffuser optic, frosted, narrow distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 23600 lm Power consumption = 128.4 W Luminous efficacy = 183.8 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	23.4	25.1	23.7	25.4	25.7	23.9	25.6	24.3	25.9	26.2
	3H	25.1	26.7	25.5	27.0	27.3	25.1	26.6	25.5	27.0	27.3
	4H	25.8	27.3	26.2	27.6	28.0	25.6	27.0	26.0	27.3	27.7
	6H	26.4	27.7	26.8	28.1	28.5	25.9	27.2	26.3	27.6	28.0
	8H	26.7	27.9	27.1	28.3	28.7	26.0	27.2	26.5	27.6	28.0
	12H	26.9	28.1	27.4	28.5	28.9	26.1	27.2	26.5	27.6	28.1
4H	2H	24.0	25.4	24.4	25.8	26.1	24.4	25.8	24.8	26.1	26.5
	3H	26.0	27.2	26.4	27.5	28.0	25.7	27.0	26.2	27.3	27.8
	4H	26.8	27.9	27.2	28.3	28.7	26.3	27.4	26.7	27.8	28.2
	6H	27.5	28.5	28.0	28.9	29.4	26.7	27.7	27.2	28.1	28.6
	8H	27.9	28.7	28.3	29.2	29.6	26.9	27.8	27.3	28.2	28.7
	12H	28.2	29.0	28.7	29.4	29.9	27.0	27.8	27.5	28.2	28.7
8H	4H	27.1	27.9	27.5	28.4	28.9	26.6	27.5	27.1	28.0	28.4
	6H	28.0	28.7	28.4	29.2	29.7	27.2	27.9	27.7	28.4	28.9
	8H	28.4	29.1	28.9	29.5	30.1	27.4	28.0	27.9	28.5	29.0
	12H	28.9	29.4	29.4	29.9	30.4	27.6	28.1	28.1	28.6	29.1
12H	4H	27.1	27.9	27.6	28.3	28.8	26.7	27.5	27.2	27.9	28.4
	6H	28.0	28.7	28.5	29.2	29.7	27.3	27.9	27.8	28.4	28.9
	8H	28.5	29.1	29.0	29.6	30.1	27.6	28.1	28.1	28.6	29.1

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:		L = 2392	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°		23590.7	23480.5	22896.1	23401.4	27757.7	38676.3	49368.7
50°		25157.5	24763.6	23338.8	22369.9	25026.2	34579.3	45001.8
55°		26256.9	25814.9	24074.7	22006.7	22941.2	30648.1	40152.5
60°		25428.7	25157.7	23761.9	21488.5	21152.1	26907.8	35054.0
65°		22922.6	22854.4	22006.6	20181.4	19361.3	23428.5	30168.6
70°		19883.3	19935.4	19425.9	18258.2	17382.3	20142.7	25823.7
75°		17228.0	17322.1	17058.8	16299.2	15381.2	16973.5	21887.1
80°		15133.3	15230.3	15275.3	14547.4	13475.8	13909.8	18222.4
85°		13643.8	13743.7	13881.2	13265.2	11876.9	11192.7	15178.1

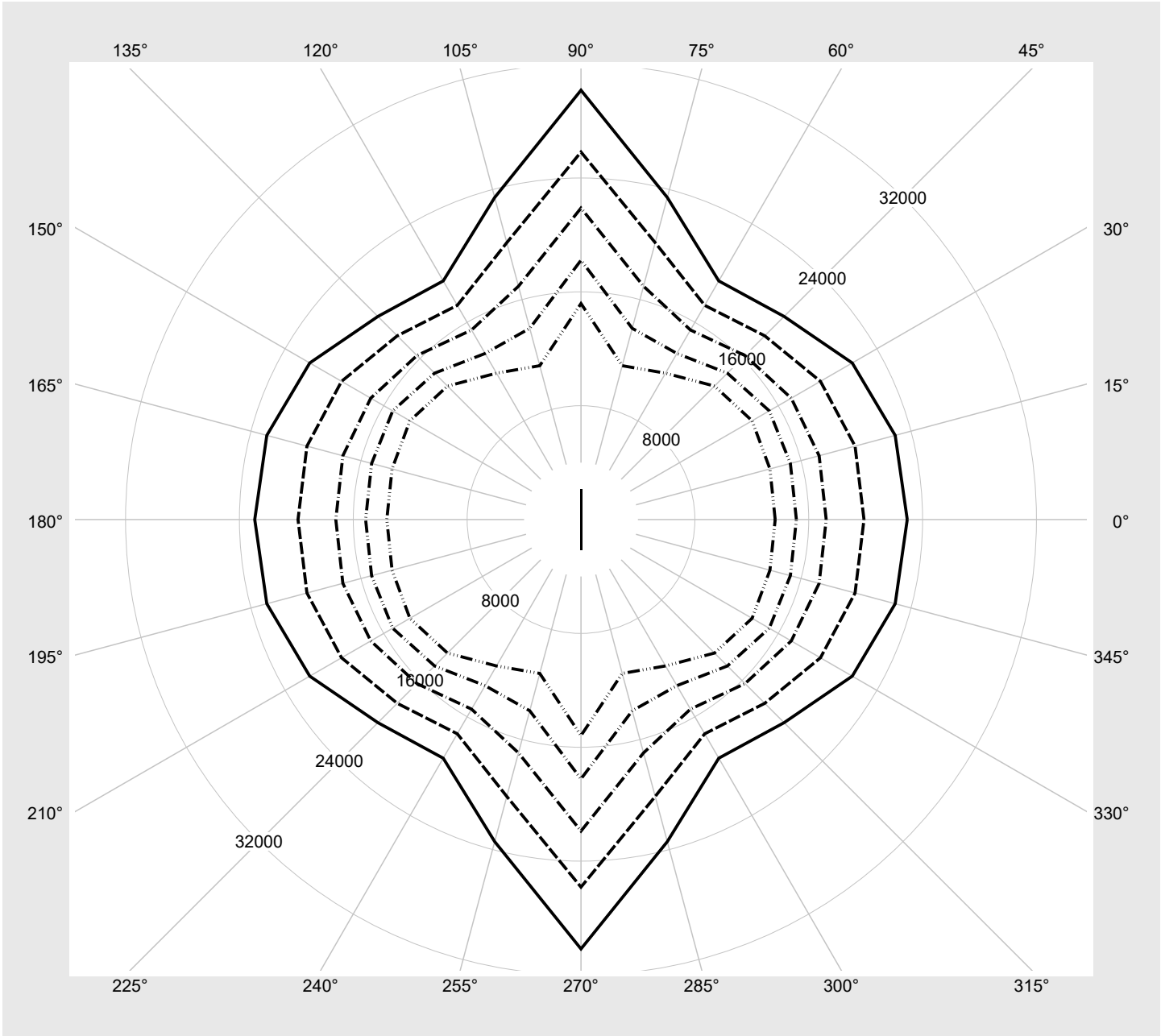
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Luminance values in cd/m²

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	23600	128.4
95	240	252	22397	121.3
90	227	250	21266	114.8
85	213	248	20036	107.7
80	200	245	18885	101.2
75	187	243	17720	94.8
70	174	240	16547	88.3
65	161	237	15364	81.9
60	148	234	14171	75.4
55	135	231	12967	69.0
50	123	227	11846	63.1
45	110	223	10626	56.6
40	97	219	9396	50.2
35	85	214	8252	44.3
30	73	208	7101	38.4
25	61	202	5943	32.5
20	48	193	4680	26.0
15	36	182	3507	20.0
10	24	168	2329	13.8
5	12	142	1143	7.3
1	4	102	350	2.6