

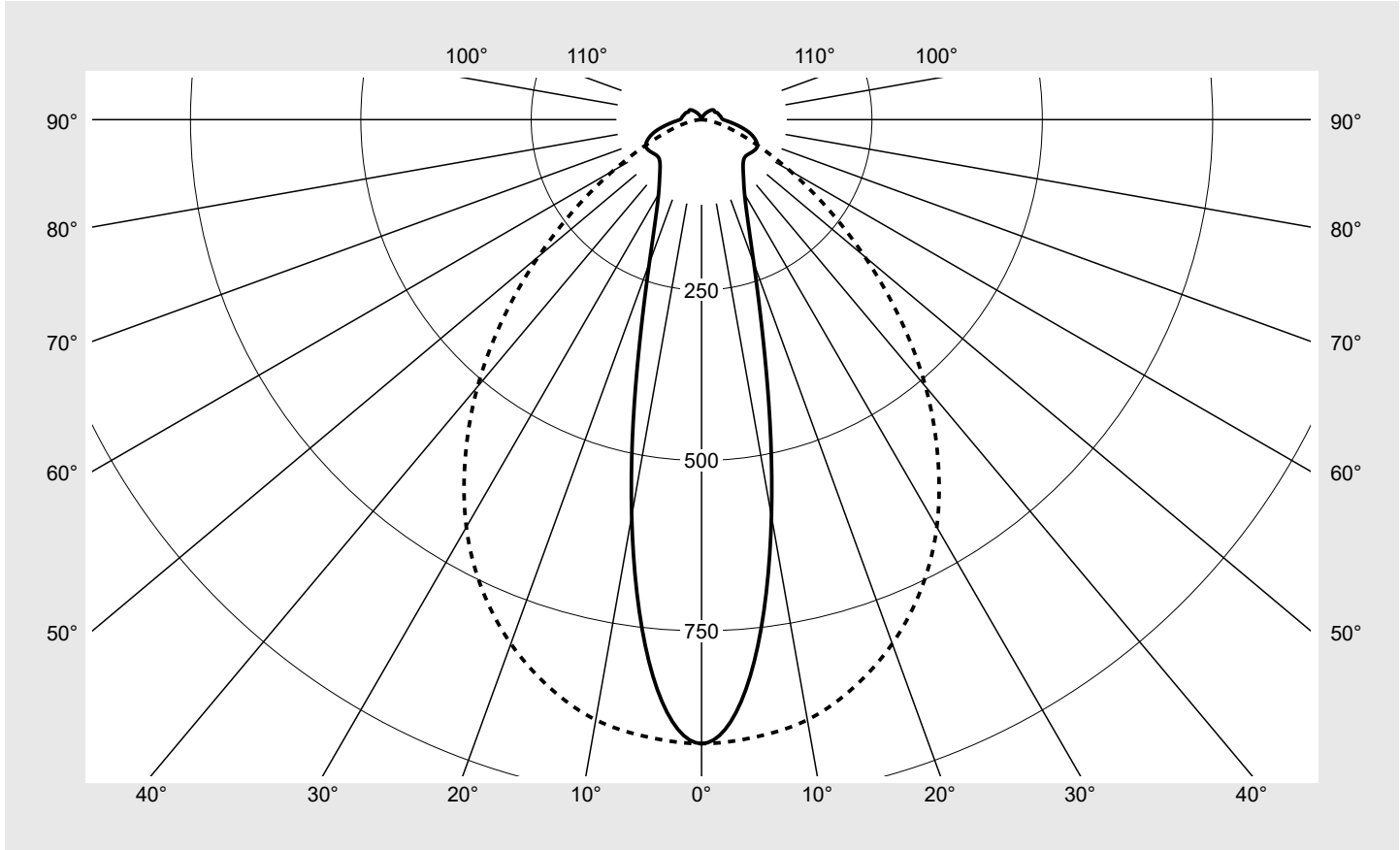


Photometric test report

Family Modario® 31	Order number: 53BM813D2V4085 EAN: 4058352453209	LP number 55864_39
	Version diffuser optic, frosted, extremely narrow distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 8770 lm Power consumption = 61.8 W Luminous efficacy = 141.9 lm/W	serial documentation 26.11.2021
		

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 915 cd/klm**



Classifications	
DIN 5040	A 5 1
CIE	N1=62 N2=83 N3=94 N4=92 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	91.5%
ϕ_o	8.5%

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°	915.5	915.5	915.5	915.5	915.5	915.5	915.5	5.5	5.5
5°	819.5	825.1	832.3	860.4	886.8	904.6	909.2	41.2	46.7
10°	590.6	607.1	648.0	721.7	805.5	867.1	894.2	69.7	116.3
15°	358.4	377.7	428.3	533.4	678.6	807.9	862.4	81.2	197.6
20°	224.3	237.2	273.7	366.7	536.1	730.4	818.2	83.3	280.9
25°	159.5	166.0	188.1	251.8	404.9	637.9	761.3	81.4	362.3
30°	126.2	130.1	141.6	181.4	299.0	538.0	690.4	77.6	439.9
35°	107.6	109.0	114.6	137.4	220.1	437.8	604.4	72.0	511.9
40°	94.8	95.1	98.0	109.1	166.6	347.2	511.3	65.7	577.6
45°	86.7	85.9	86.0	92.0	129.2	268.8	411.0	58.8	636.5
50°	84.0	82.1	78.9	79.1	101.9	202.0	312.3	51.9	688.4
55°	86.3	83.8	77.3	71.6	83.0	150.4	223.9	46.5	734.9
60°	89.8	87.1	79.4	68.3	68.5	108.2	149.5	42.0	776.9
65°	90.3	87.9	79.4	65.8	58.2	76.4	93.9	38.1	815.0
70°	83.5	81.8	73.4	60.1	48.2	52.2	56.9	33.1	848.1
75°	72.1	70.7	63.0	50.5	37.4	33.6	33.1	27.2	875.3
80°	56.4	55.2	49.4	38.5	26.5	19.6	17.0	20.3	895.6
85°	42.1	40.9	36.8	28.1	17.8	10.3	6.9	14.4	910.0
90°	32.0	31.0	27.4	20.9	12.6	4.9	0.8	10.3	920.4
95°	29.3	28.4	25.5	20.9	13.0	5.0	0.9	9.8	930.2
100°	28.2	27.4	25.5	22.2	14.1	5.5	0.9	9.8	940.0
105°	26.8	26.3	25.8	23.4	14.6	5.9	0.9	9.7	949.7
110°	25.9	25.4	25.1	22.3	14.3	6.0	0.8	9.1	958.8
115°	24.6	23.6	22.7	20.4	13.5	5.8	0.8	8.2	967.0
120°	22.5	21.9	21.4	19.0	12.2	4.9	0.8	7.2	974.2
125°	22.6	22.1	21.0	17.0	10.5	4.3	0.9	6.5	980.7
130°	22.2	21.2	18.9	14.4	9.0	4.0	1.1	5.5	986.2
135°	19.6	18.2	15.8	12.0	6.9	3.8	1.2	4.3	990.6
140°	16.0	15.0	12.9	9.8	5.6	3.5	1.3	3.3	993.8
145°	12.7	11.9	10.4	7.4	4.5	3.2	1.4	2.3	996.2
150°	9.7	9.0	7.7	5.4	3.9	2.8	1.5	1.6	997.7
155°	6.7	6.4	5.6	4.2	3.5	2.1	1.5	1.0	998.7
160°	5.1	4.9	4.1	3.6	3.2	1.5	1.4	0.6	999.4
165°	4.0	3.8	3.2	3.1	2.5	1.4	1.4	0.4	999.8
170°	3.1	2.8	2.6	2.2	1.4	1.4	1.4	0.2	1000.0
175°	1.3	1.3	1.3	1.4	1.4	1.4	1.4	0.1	1000.0
180°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	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	17.9	19.4	18.2	19.7	20.0	22.8	24.3	23.1	24.6	24.9
	3H	20.7	22.1	21.1	22.5	22.8	23.6	24.9	24.0	25.3	25.6
	4H	22.0	23.3	22.4	23.6	24.0	23.8	25.1	24.2	25.4	25.8
	6H	22.9	24.2	23.4	24.5	24.9	24.0	25.1	24.4	25.5	25.9
	8H	23.4	24.5	23.8	24.9	25.3	24.1	25.1	24.5	25.5	25.9
	12H	23.7	24.8	24.2	25.2	25.6	24.1	25.1	24.6	25.5	25.9
4H	2H	18.8	20.0	19.2	20.4	20.8	22.8	24.1	23.2	24.5	24.8
	3H	21.8	22.9	22.2	23.3	23.7	23.7	24.8	24.2	25.2	25.6
	4H	23.1	24.1	23.6	24.5	25.0	24.1	25.1	24.5	25.5	25.9
	6H	24.3	25.2	24.7	25.6	26.1	24.3	25.2	24.8	25.6	26.1
	8H	24.8	25.6	25.2	26.0	26.5	24.4	25.2	24.9	25.6	26.1
	12H	25.2	25.9	25.7	26.4	26.9	24.5	25.2	25.0	25.6	26.1
8H	4H	23.5	24.3	24.0	24.7	25.2	24.3	25.1	24.8	25.6	26.0
	6H	24.8	25.5	25.3	26.0	26.5	24.6	25.3	25.1	25.8	26.3
	8H	25.4	26.0	25.9	26.5	27.0	24.8	25.4	25.3	25.8	26.4
	12H	26.0	26.5	26.5	27.0	27.5	24.9	25.4	25.4	25.9	26.4
12H	4H	23.5	24.2	24.0	24.7	25.2	24.4	25.1	24.8	25.5	26.0
	6H	24.9	25.5	25.4	26.0	26.5	24.8	25.3	25.3	25.8	26.3
	8H	25.6	26.1	26.1	26.6	27.1	24.9	25.4	25.4	25.9	26.5

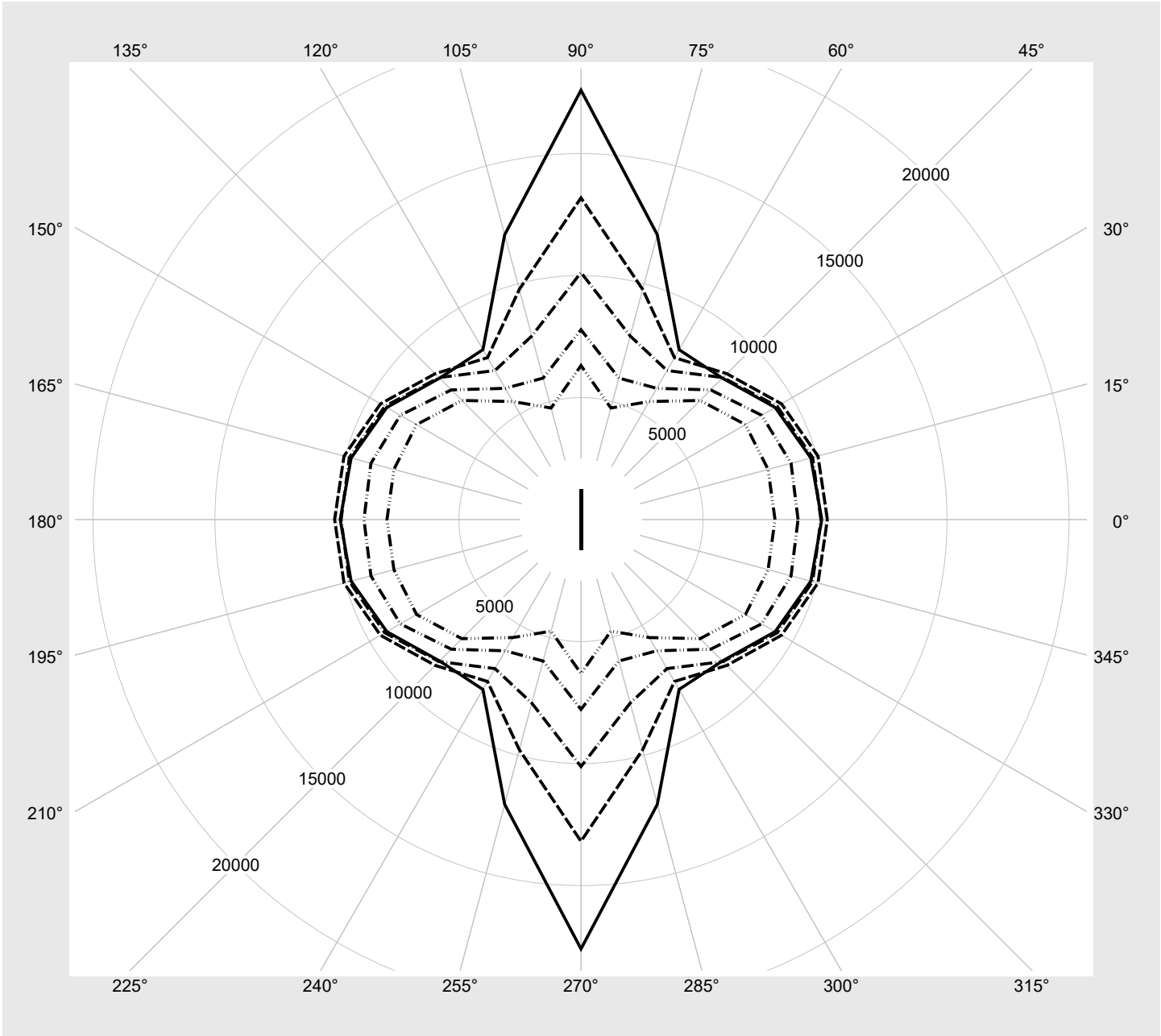
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1476	H(C0) = 25	H(C180) = 25
			B = 75	H(C90) = 0	H(C270) = 0

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°		7287.1	7279.0	7474.4	8339.7	12406.8	27727.0	46052.9	
50°		7406.2	7316.3	7233.4	7614.4	10480.8	22578.6	38491.4	
55°		8077.4	7925.9	7559.8	7398.6	9258.2	18490.8	30924.8	
60°		9018.9	8863.7	8387.5	7686.7	8423.6	14912.2	23681.1	
65°		9868.0	9751.6	9187.3	8195.2	8039.0	12083.9	17595.9	
70°		10097.9	10054.4	9486.1	8452.9	7662.0	9765.8	13183.6	
75°		9831.1	9827.1	9282.4	8229.4	7053.2	7788.0	10122.9	
80°		8895.3	8911.9	8549.3	7515.2	6210.3	6001.8	7778.2	
85°		7950.6	7937.3	7780.8	6903.1	5583.7	4733.7	6310.2	

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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	8770	61.8
95	239	252	8326	58.0
90	225	250	7902	54.4
85	211	247	7471	50.9
80	197	245	7025	47.4
75	183	242	6574	43.9
70	170	239	6146	40.8
65	157	236	5711	37.6
60	144	233	5271	34.4
55	131	230	4825	31.4
50	118	226	4371	28.3
45	106	222	3947	25.6
40	94	218	3519	22.8
35	82	213	3084	20.1
30	70	207	2645	17.4
25	58	200	2202	14.8
20	46	191	1755	12.0
15	34	180	1302	9.4
10	23	166	884	7.0
5	11	139	425	4.6
2	4	102	154	2.9