

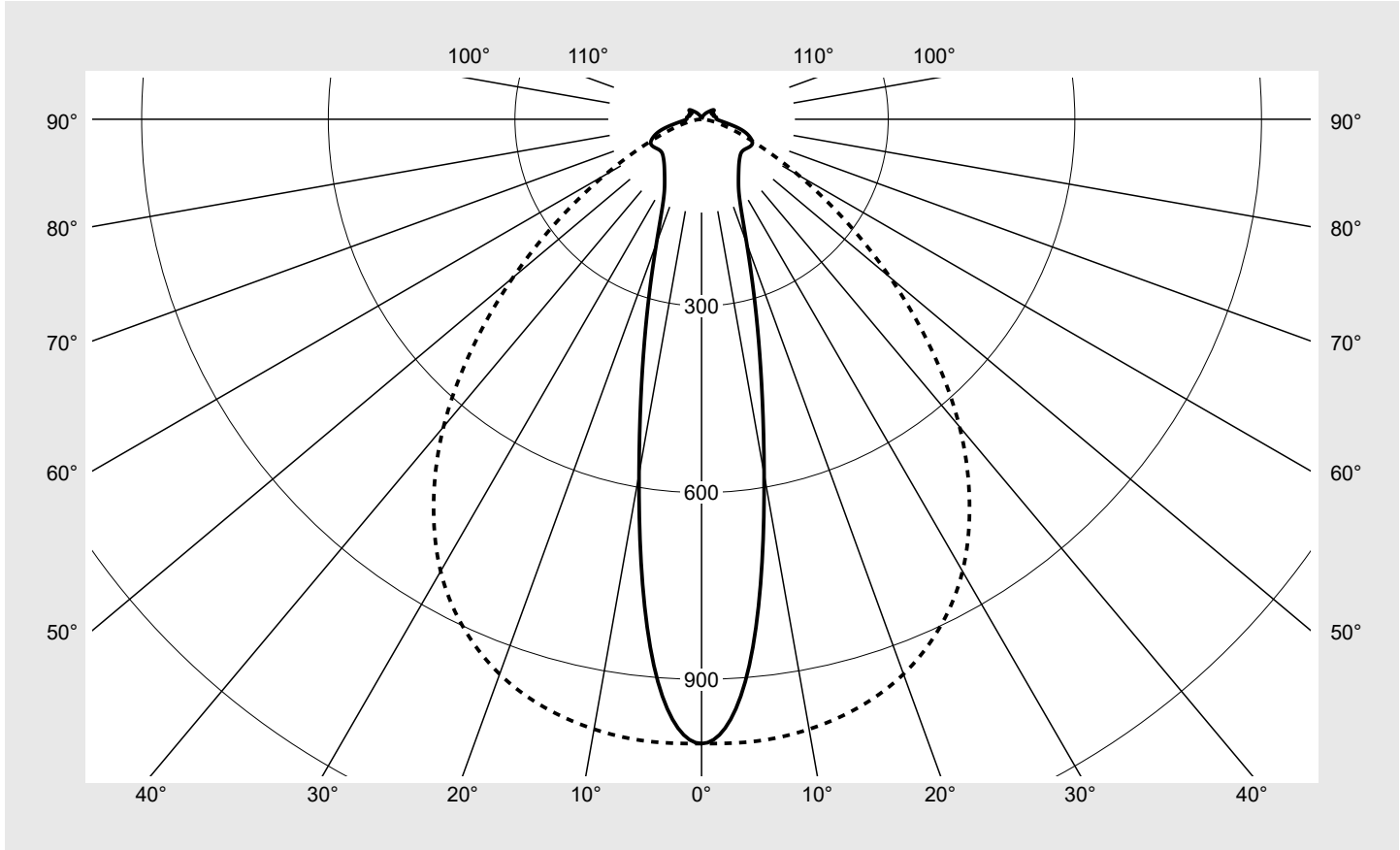


Photometric test report

Family Modario® 31	Order number: 53BM813D2V4120 EAN: 4058352421901	LP number 59063_2
	Version diffuser optic, frosted, extremely narrow distribution	serial documentation 01.09.2020
	Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 12260 lm Power consumption = 79.4 W Luminous efficacy = 154.4 lm/W	
		

Luminous intensity in cd/klm C180-0 C270-90 I_{max}: 1003 cd/klm



Classifications	
DIN 5040	A 5 1
CIE	N1=62 N2=84 N3=96 N4=93 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	92.6%
ϕ_o	7.4%

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°	1003.4	1003.4	1003.4	1003.4	1003.4	1003.4	1003.4	6.0	6.0
5°	880.9	882.9	898.7	934.3	971.4	994.6	1003.4	44.8	50.8
10°	579.1	592.1	643.1	740.8	862.1	958.5	995.4	72.7	123.5
15°	347.5	359.5	407.5	513.8	693.4	893.1	978.2	83.5	207.0
20°	212.0	221.0	257.1	342.2	518.7	799.5	948.9	85.0	291.9
25°	146.0	150.7	170.4	227.6	370.3	686.1	903.3	82.2	374.1
30°	118.7	120.4	127.6	159.3	262.2	563.7	838.9	78.2	452.3
35°	103.8	104.5	106.6	120.5	188.1	446.9	750.8	73.0	525.4
40°	93.6	93.2	93.3	98.9	140.1	348.0	645.2	67.1	592.5
45°	86.9	86.1	83.8	84.5	107.8	268.6	521.9	60.4	652.9
50°	83.4	82.5	79.1	74.5	86.1	206.2	395.7	53.7	706.7
55°	84.5	83.4	79.1	70.7	71.8	154.6	278.8	48.0	754.6
60°	88.9	87.5	82.4	72.7	63.0	113.0	180.1	43.8	798.4
65°	90.1	88.0	80.7	67.6	54.9	80.6	107.5	39.0	837.4
70°	82.2	80.0	70.8	57.2	45.3	54.9	61.5	32.6	870.0
75°	67.3	64.9	56.5	45.0	34.3	34.4	33.8	25.2	895.2
80°	45.4	43.8	39.1	31.3	22.5	19.0	16.7	16.8	912.0
85°	30.8	29.6	26.4	21.0	13.5	8.8	6.0	10.7	922.7
90°	24.1	23.3	20.2	14.1	8.7	4.0	0.7	7.6	930.3
95°	23.9	23.0	18.9	12.9	9.6	4.5	0.9	7.4	937.7
100°	22.9	21.6	17.6	14.2	11.3	5.3	1.3	7.4	945.1
105°	19.9	19.2	17.7	16.3	12.4	5.6	1.9	7.2	952.3
110°	21.4	20.9	19.4	16.4	14.4	5.2	2.4	7.6	959.9
115°	19.8	18.9	17.8	21.0	13.3	5.0	2.5	7.2	967.1
120°	18.8	19.4	23.3	22.7	11.0	4.6	2.5	7.3	974.3
125°	24.3	24.7	24.6	17.4	9.1	4.1	2.4	7.0	981.3
130°	23.1	21.9	18.8	13.2	7.5	3.8	2.4	5.5	986.8
135°	18.4	17.0	14.4	10.4	6.1	3.5	2.2	4.0	990.8
140°	14.7	13.6	11.6	8.4	5.1	3.5	2.1	3.0	993.7
145°	11.7	10.8	9.2	6.7	4.3	3.4	2.0	2.2	995.9
150°	8.8	8.2	7.1	5.2	3.9	3.2	1.8	1.5	997.4
155°	6.7	6.3	5.5	4.4	3.6	2.9	1.6	1.0	998.4
160°	5.4	5.2	4.4	3.6	3.2	2.8	1.4	0.7	999.1
165°	4.2	4.0	3.3	3.1	3.0	3.6	1.4	0.5	999.6
170°	3.5	3.0	2.8	2.9	3.0	3.0	1.3	0.3	999.9
175°	2.9	2.4	3.2	3.5	3.0	1.9	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	19.0	20.5	19.4	20.8	21.2	24.7	26.2	25.0	26.5	26.8
	3H	21.8	23.2	22.2	23.5	23.9	25.5	26.8	25.8	27.1	27.5
	4H	22.9	24.2	23.3	24.6	25.0	25.7	26.9	26.1	27.2	27.6
	6H	23.7	24.9	24.1	25.3	25.7	25.8	26.9	26.2	27.3	27.7
	8H	24.0	25.1	24.4	25.5	25.9	25.9	26.9	26.3	27.3	27.7
	12H	24.2	25.3	24.6	25.7	26.1	25.9	26.8	26.3	27.2	27.6
4H	2H	20.0	21.2	20.3	21.5	21.9	24.7	26.0	25.0	26.3	26.7
	3H	22.8	23.9	23.3	24.3	24.7	25.5	26.6	25.9	27.0	27.4
	4H	24.1	25.0	24.5	25.4	25.9	25.8	26.8	26.2	27.2	27.6
	6H	24.9	25.8	25.4	26.2	26.7	26.0	26.8	26.5	27.3	27.7
	8H	25.2	26.0	25.7	26.5	27.0	26.1	26.8	26.5	27.3	27.7
	12H	25.5	26.2	26.0	26.7	27.2	26.1	26.8	26.6	27.2	27.7
8H	4H	24.4	25.1	24.8	25.5	26.0	25.9	26.7	26.4	27.1	27.6
	6H	25.4	26.0	25.9	26.5	27.0	26.2	26.8	26.7	27.3	27.8
	8H	25.8	26.3	26.3	26.8	27.3	26.3	26.8	26.8	27.3	27.8
	12H	26.1	26.6	26.7	27.1	27.7	26.3	26.8	26.8	27.3	27.8
12H	4H	24.4	25.0	24.9	25.5	26.0	25.9	26.6	26.4	27.1	27.6
	6H	25.4	26.0	25.9	26.4	27.0	26.2	26.8	26.7	27.3	27.8
	8H	25.9	26.4	26.4	26.9	27.4	26.3	26.8	26.8	27.3	27.8

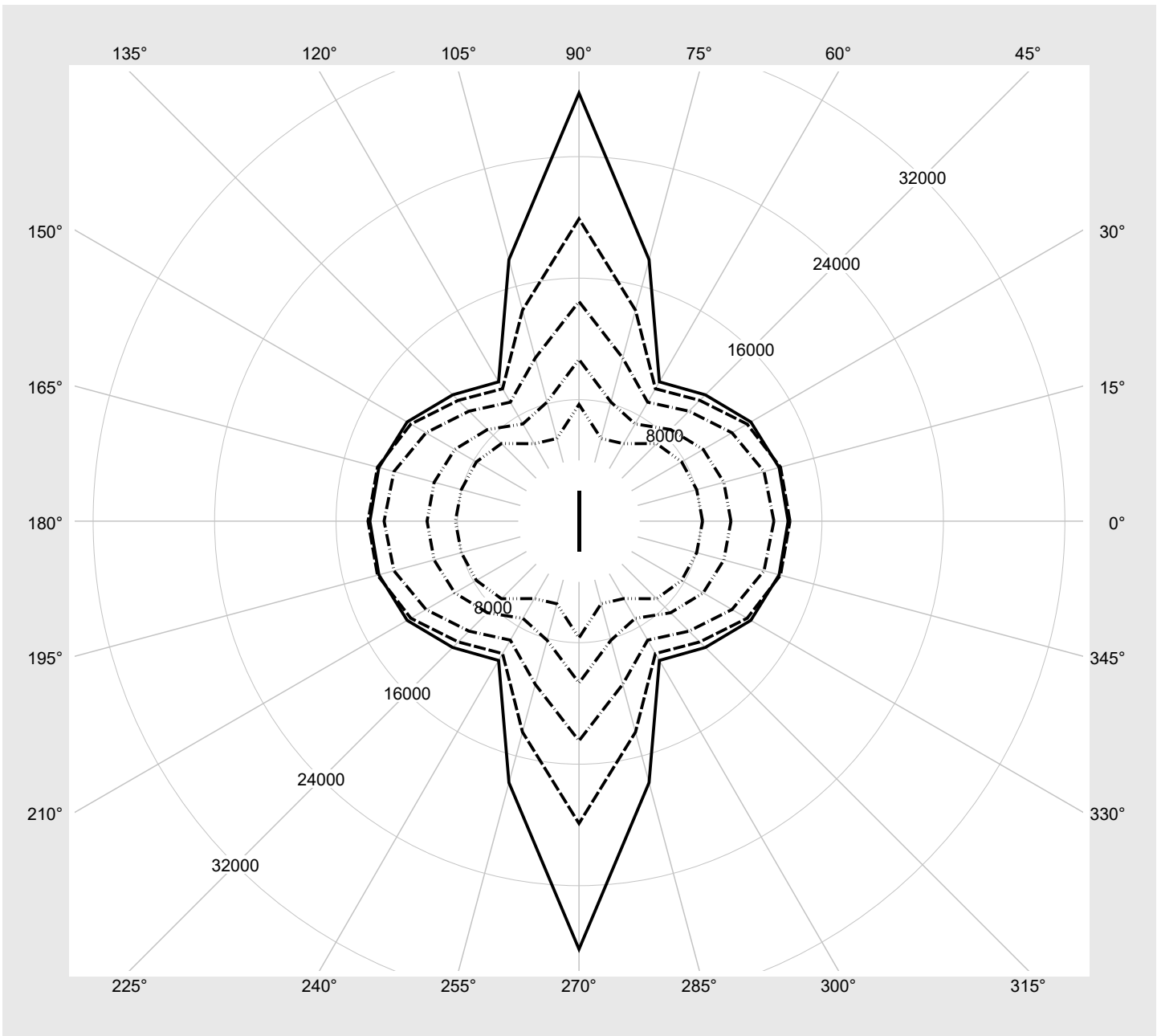
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1476	H(C0) = 25	H(C180) = 25
			B = 75	H(C90) = 0	H(C270) = 0

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°		10211.5	10204.3	10181.0	10708.8	14477.7	38724.1	81747.9	
50°		10280.2	10268.5	10138.2	10026.9	12372.0	32214.9	68171.7	
55°		11057.4	11032.1	10815.3	10219.0	11198.3	26578.0	53824.6	
60°		12476.9	12446.6	12165.8	11431.8	10831.3	21772.5	39892.7	
65°		13773.6	13646.3	13066.0	11762.8	10590.4	17825.4	28181.8	
70°		13894.5	13739.6	12785.4	11246.8	10067.2	14378.4	19905.0	
75°		12836.6	12617.1	11635.3	10242.5	9045.6	11123.1	14461.0	
80°		10007.5	9877.0	9446.9	8529.3	7391.2	8119.2	10647.1	
85°		8139.4	8023.9	7804.4	7225.1	5888.6	5630.9	7684.0	

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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**



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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	12260	79.4
95	239	252	11627	74.7
90	225	250	11020	70.1
85	211	247	10406	65.7
80	198	245	9827	61.6
75	184	242	9195	57.3
70	171	240	8585	53.2
65	158	237	7975	49.2
60	145	233	7359	45.2
55	132	230	6731	41.3
50	120	227	6143	37.6
45	107	222	5502	33.7
40	95	218	4901	30.2
35	83	213	4292	26.6
30	71	207	3675	23.0
25	59	201	3062	19.6
20	47	192	2440	16.1
15	36	182	1863	12.9
10	24	168	1231	9.4
5	12	142	599	6.0
3	7	122	340	4.5