
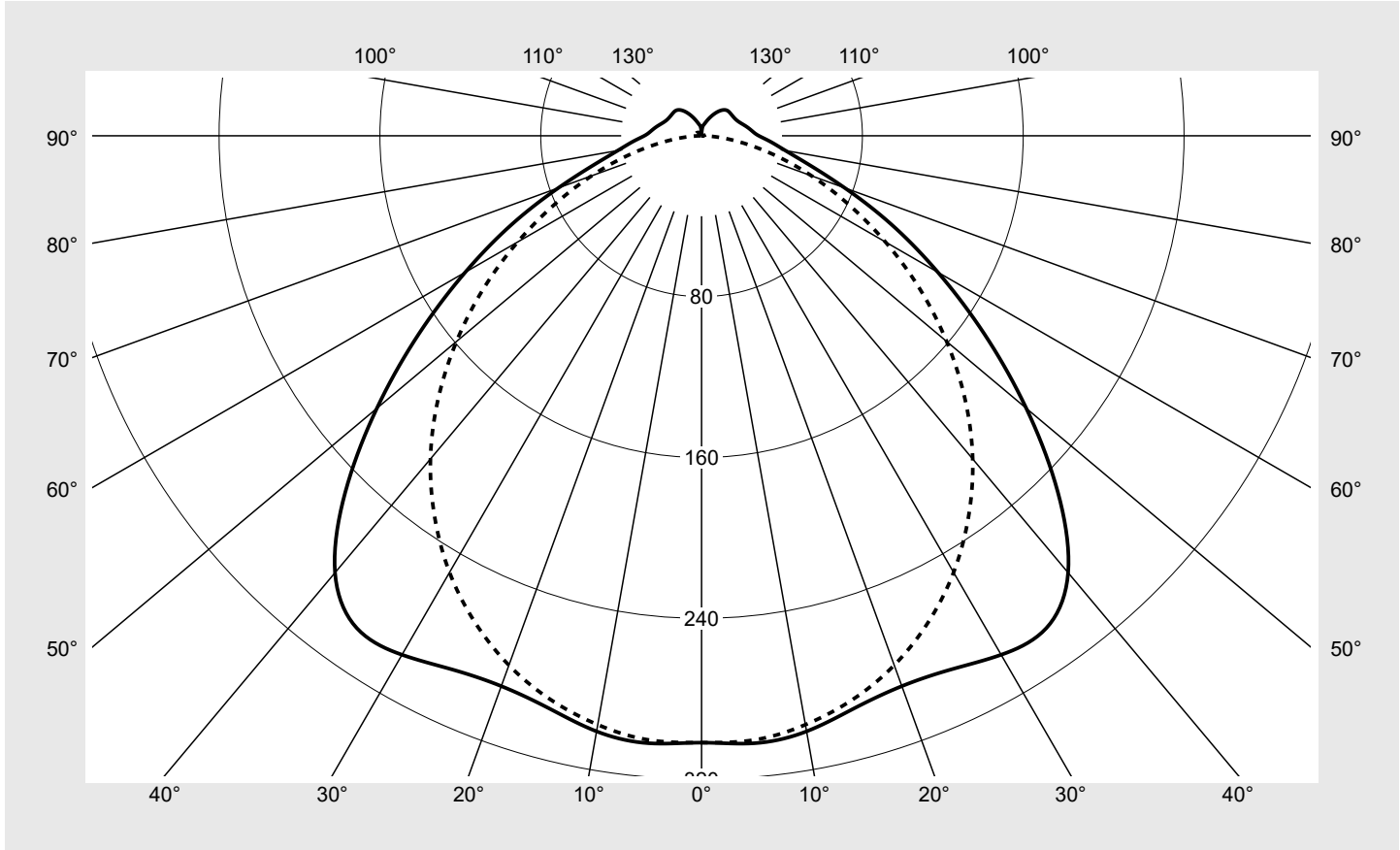


Photometric test report

Family Modario® 31 	Order number: 53BM812D2V6120 EAN: 4058352434635	LP number 59064_6
	Version diffuser optic, frosted, wide distribution Lamps LED 6500 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 12400 lm Power consumption = 79.5 W Luminous efficacy = 156 lm/W	serial documentation 01.09.2020

Luminous intensity in cd/klm **C180-0** **C270-90** **Imax: 303 cd/klm**



Classifications	
DIN 5040	A 4 1
CIE	N1=47 N2=80 N3=95 N4=92 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	92.2%
ϕ_o	7.8%

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°	301.8	301.8	301.8	301.8	301.8	301.8	301.8	1.8	1.8
5°	303.3	302.1	299.9	300.9	301.9	301.5	301.6	14.4	16.2
10°	300.8	300.0	297.7	298.5	298.9	297.8	297.4	28.4	44.6
15°	294.6	294.3	291.7	292.6	293.1	291.2	290.3	41.5	86.1
20°	291.3	290.6	285.8	284.4	284.3	281.8	280.2	53.5	139.7
25°	293.0	291.5	283.0	276.7	273.3	269.6	266.9	64.6	204.3
30°	298.0	296.0	283.3	270.8	261.1	254.6	250.8	74.9	279.2
35°	299.0	297.5	283.8	265.6	248.4	237.0	231.5	83.7	362.9
40°	283.7	284.3	276.5	258.3	235.0	217.5	209.8	89.2	452.1
45°	250.6	253.6	254.2	243.8	219.3	195.5	185.4	89.4	541.5
50°	210.8	214.1	220.0	218.9	199.3	171.7	159.1	84.6	626.1
55°	171.6	174.1	180.5	185.1	173.7	146.4	132.4	75.7	701.8
60°	135.7	137.3	141.6	147.2	142.6	119.7	105.6	64.0	765.8
65°	104.1	104.9	107.1	111.0	110.3	93.2	80.6	51.2	817.1
70°	75.8	76.7	78.0	80.6	80.3	68.4	58.2	38.7	855.8
75°	55.2	55.4	55.7	57.0	55.4	46.3	38.3	27.9	883.7
80°	42.4	41.9	40.8	39.2	35.6	27.7	21.5	19.5	903.3
85°	34.5	33.8	31.7	27.6	21.5	14.0	8.7	13.7	916.9
90°	28.5	27.9	25.4	20.0	13.0	5.8	0.8	9.7	926.7
95°	25.4	25.0	22.9	18.2	11.9	5.4	1.1	8.8	935.5
100°	23.4	22.9	21.0	17.1	11.6	5.5	1.7	8.2	943.6
105°	21.5	21.0	19.3	16.3	11.6	5.8	2.4	7.6	951.2
110°	19.9	19.3	18.1	15.8	11.8	6.2	2.9	7.1	958.3
115°	18.9	18.4	17.5	15.6	12.1	6.5	2.9	6.7	965.0
120°	18.5	17.9	17.3	15.6	12.2	6.6	2.9	6.3	971.4
125°	18.2	17.7	17.1	15.5	11.7	6.5	2.7	5.9	977.3
130°	18.1	17.6	16.9	14.9	10.9	6.2	2.5	5.4	982.6
135°	17.9	17.2	16.1	13.6	9.8	5.6	2.4	4.7	987.3
140°	16.8	15.9	14.5	12.0	8.4	5.0	2.2	3.8	991.1
145°	14.9	14.0	12.6	10.1	6.9	4.5	2.0	3.0	994.1
150°	12.5	11.8	10.5	8.0	5.7	4.2	1.8	2.2	996.3
155°	10.2	9.6	8.4	6.3	5.0	3.7	1.6	1.5	997.8
160°	8.1	7.7	6.3	5.1	4.6	3.6	1.5	1.0	998.8
165°	6.4	6.2	4.7	4.5	4.1	4.7	1.5	0.7	999.5
170°	5.4	4.4	3.9	4.0	3.9	3.8	1.5	0.4	999.8
175°	3.9	3.2	4.4	4.7	3.9	2.2	1.5	0.2	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	23.5	25.2	23.9	25.5	25.9	23.3	25.0	23.7	25.3	25.7
	3H	24.5	26.0	24.9	26.4	26.7	24.5	26.0	24.9	26.4	26.7
	4H	24.9	26.3	25.3	26.7	27.0	24.9	26.3	25.3	26.7	27.1
	6H	25.2	26.5	25.6	26.9	27.3	25.2	26.5	25.6	26.9	27.3
	8H	25.4	26.6	25.8	27.0	27.4	25.3	26.5	25.7	26.9	27.3
	12H	25.6	26.7	26.0	27.1	27.6	25.3	26.5	25.7	26.9	27.3
4H	2H	24.2	25.6	24.6	26.0	26.3	24.1	25.5	24.5	25.8	26.2
	3H	25.3	26.5	25.7	26.9	27.3	25.4	26.6	25.8	27.0	27.4
	4H	25.8	26.9	26.2	27.3	27.7	25.9	27.0	26.4	27.5	27.9
	6H	26.2	27.2	26.7	27.6	28.1	26.3	27.3	26.8	27.7	28.2
	8H	26.5	27.3	26.9	27.8	28.3	26.4	27.3	26.9	27.8	28.2
	12H	26.7	27.5	27.2	27.9	28.4	26.5	27.3	27.0	27.8	28.3
8H	4H	26.0	26.9	26.5	27.4	27.9	26.2	27.1	26.7	27.5	28.0
	6H	26.6	27.4	27.1	27.8	28.3	26.7	27.4	27.2	27.9	28.4
	8H	26.9	27.6	27.4	28.1	28.6	26.9	27.5	27.4	28.0	28.5
	12H	27.3	27.8	27.8	28.3	28.9	27.0	27.6	27.5	28.1	28.6
12H	4H	26.1	26.9	26.6	27.3	27.8	26.2	27.0	26.7	27.5	28.0
	6H	26.7	27.4	27.2	27.8	28.4	26.8	27.4	27.3	27.9	28.4
	8H	27.1	27.6	27.6	28.1	28.7	27.0	27.6	27.5	28.1	28.6

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°		29777.5	30383.4	31241.8	31253.9	29778.9	28505.2	29365.1	
50°		26296.7	26964.4	28518.2	29783.1	28978.7	27131.3	27732.3	
55°		22706.5	23293.6	24960.3	27043.7	27394.8	25451.1	25847.0	
60°		19277.5	19743.9	21147.1	23419.6	24787.8	23336.3	23658.1	
65°		16082.7	16451.4	17531.6	19550.9	21527.9	20855.2	21353.1	
70°		12956.9	13323.3	14239.1	16030.3	18044.4	18114.7	19059.3	
75°		10638.8	10890.6	11598.0	13117.1	14782.8	15150.9	16581.9	
80°		9452.7	9564.3	9991.7	10833.5	11814.8	11986.3	13844.4	
85°		9225.5	9287.0	9462.3	9586.0	9489.8	9040.1	11160.9	

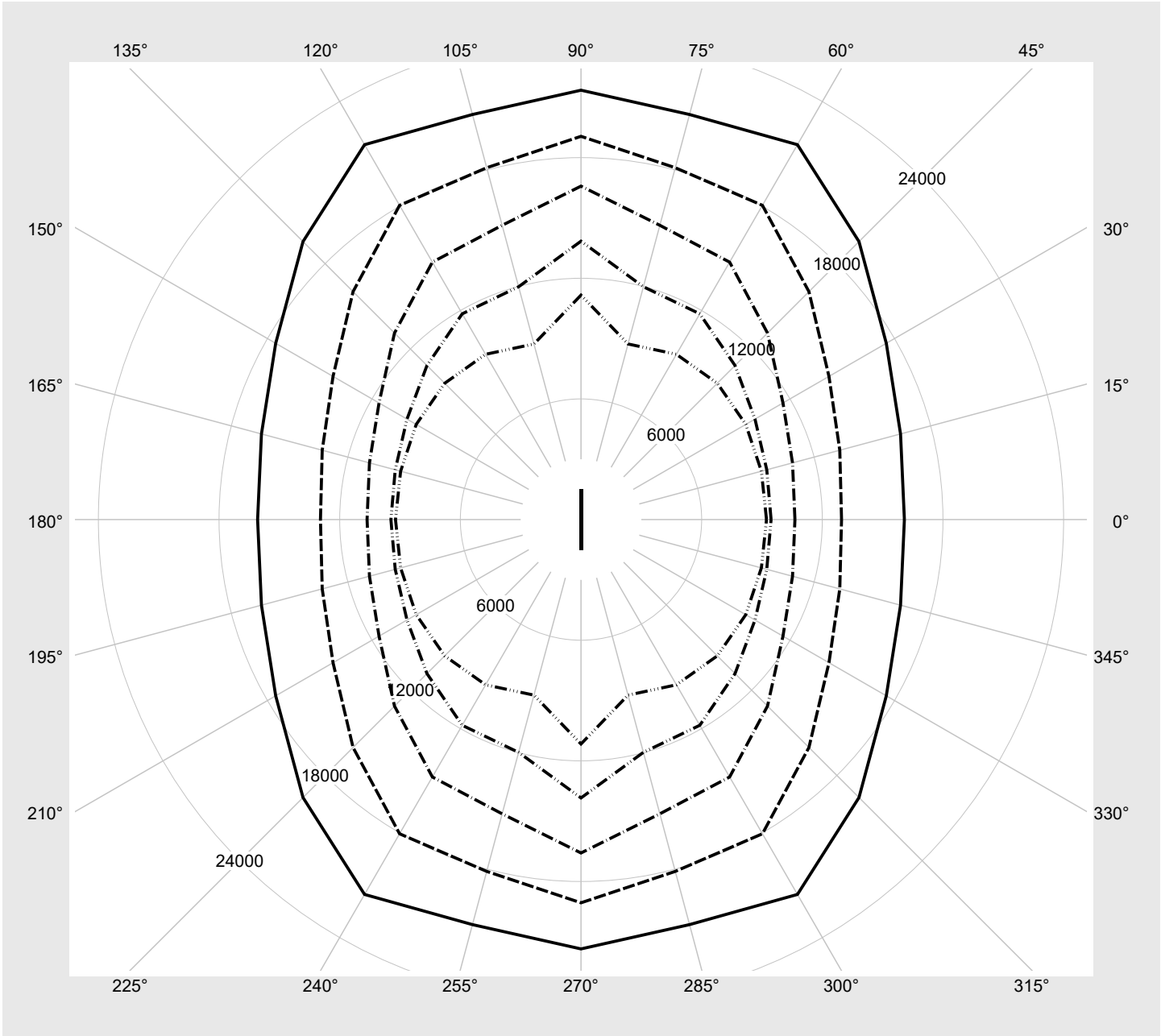
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Luminance values in cd/m²

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	12400	79.5
95	240	252	11800	75.0
90	225	250	11138	70.1
85	212	247	10558	66.0
80	198	245	9928	61.6
75	184	242	9285	57.3
70	171	240	8666	53.2
65	158	237	8048	49.2
60	145	233	7424	45.2
55	133	230	6838	41.6
50	120	227	6193	37.6
45	108	223	5594	34.0
40	95	218	4938	30.2
35	83	213	4324	26.6
30	71	207	3701	23.0
25	59	201	3083	19.6
20	47	192	2455	16.1
15	36	182	1874	12.9
10	24	168	1238	9.4
5	12	142	602	6.0
3	7	122	342	4.5