

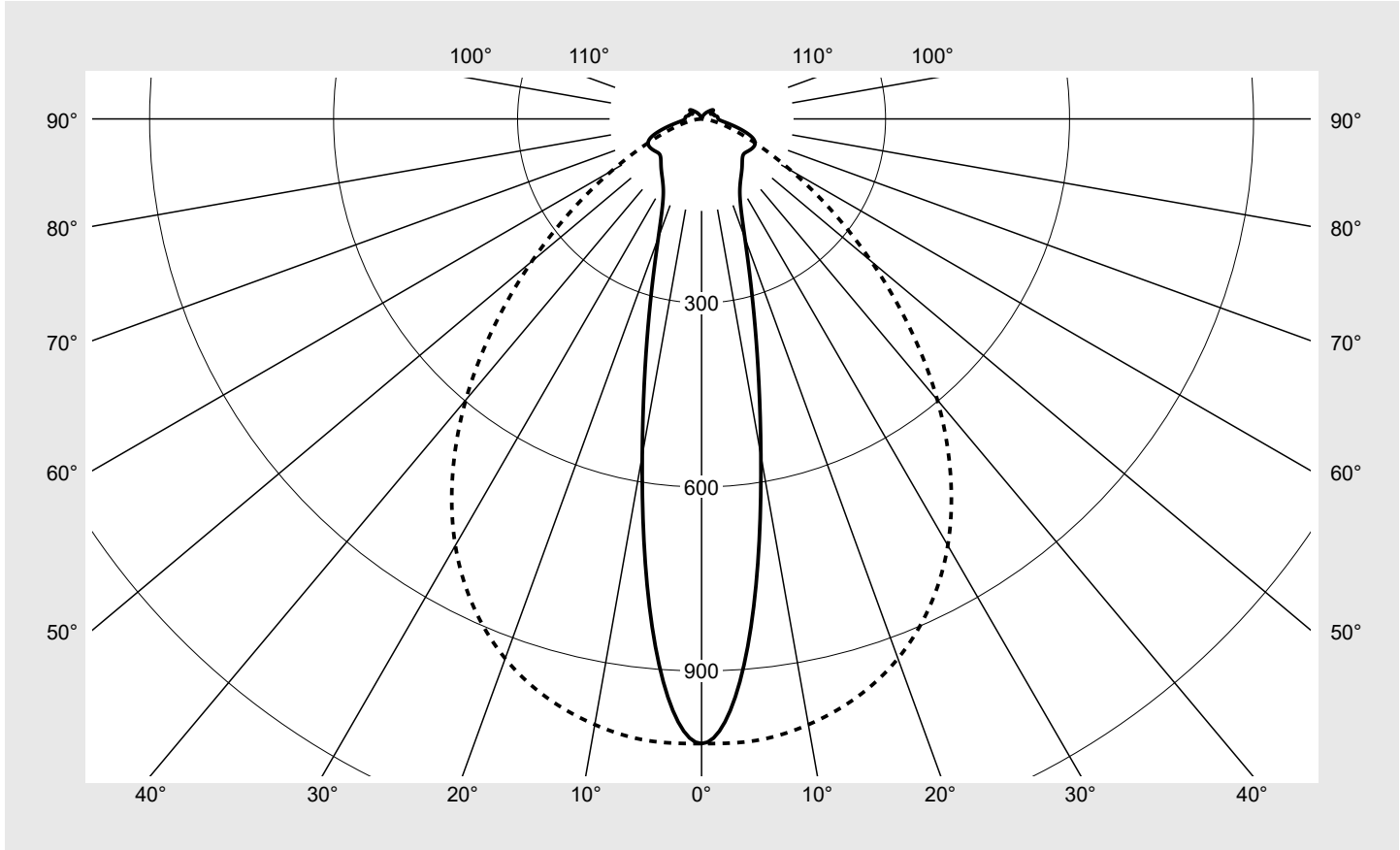


Photometric test report

Family Modario® 31	Order number: 53BM813DV4DXD2 EAN: 4069025123275	LP number 59591_3
	Version diffuser optic, frosted, extremely narrow distribution	serial documentation 02.05.2024
	Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 13370 lm Power consumption = 74.9 W Luminous efficacy = 178.5 lm/W	
		

Luminous intensity in cd/klm C180-0 C270-90 Imax: 1018 cd/klm



Classifications	
DIN 5040	A 5 1
CIE	N1=62 N2=83 N3=95 N4=93 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	92.8%
ϕ_o	7.2%

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°	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	6.1	6.1
5°	863.5	865.5	885.2	926.9	972.5	1004.2	1017.2	44.5	50.6
10°	557.0	571.1	621.3	716.9	841.6	954.3	1002.7	71.2	121.8
15°	330.4	345.0	393.6	498.9	672.6	875.0	976.4	81.3	203.1
20°	206.3	216.3	249.8	333.3	506.8	775.2	936.2	82.9	286.0
25°	149.5	154.3	171.2	225.2	368.7	662.8	878.7	80.9	366.9
30°	125.5	127.4	133.4	162.0	266.2	549.9	803.0	77.8	444.7
35°	112.6	113.0	113.6	126.4	194.4	443.6	707.7	73.4	518.1
40°	102.7	102.5	100.9	105.0	146.7	352.3	598.2	68.0	586.1
45°	93.9	93.4	90.8	90.4	114.5	275.3	478.6	61.4	647.5
50°	89.5	88.3	84.1	80.2	92.6	211.5	361.2	54.7	702.3
55°	91.9	90.0	83.1	75.6	78.1	158.7	256.1	49.4	751.6
60°	95.5	93.6	85.8	74.7	67.8	115.2	168.7	45.0	796.7
65°	96.1	94.0	85.1	70.0	57.9	81.0	104.2	40.4	837.1
70°	87.7	84.6	73.6	58.2	46.6	54.7	61.7	33.7	870.8
75°	66.6	64.7	55.8	44.2	34.3	34.3	34.9	25.1	895.8
80°	45.0	43.9	38.9	31.0	22.7	19.3	17.8	16.8	912.7
85°	31.6	30.7	28.4	21.9	13.8	9.4	6.9	11.2	923.9
90°	27.2	26.2	22.9	14.6	8.5	3.8	0.6	8.2	932.1
95°	26.6	25.3	20.3	12.9	8.9	4.2	0.7	7.8	939.9
100°	25.2	23.4	18.5	13.8	10.2	5.1	0.7	7.5	947.4
105°	21.7	20.9	18.5	15.3	11.2	5.6	0.7	7.3	954.7
110°	21.5	20.8	18.3	14.7	13.6	5.3	0.7	7.2	961.9
115°	18.6	17.5	16.2	18.7	13.7	4.5	0.8	6.6	968.5
120°	17.4	17.9	21.4	21.9	11.5	3.8	0.8	6.8	975.3
125°	23.0	23.5	23.9	18.0	9.5	3.5	0.9	6.8	982.1
130°	22.8	21.9	19.4	14.0	7.3	3.3	1.1	5.5	987.5
135°	18.6	17.4	15.0	10.9	5.5	3.1	1.2	4.0	991.5
140°	14.9	13.8	11.8	8.1	4.5	2.9	1.3	2.9	994.4
145°	11.8	10.9	8.9	6.0	4.0	2.6	1.4	2.0	996.4
150°	8.7	8.0	6.5	4.8	3.6	2.2	1.4	1.4	997.8
155°	6.2	5.8	5.2	4.1	3.2	1.8	1.4	0.9	998.7
160°	5.1	4.8	4.0	3.4	2.7	1.6	1.4	0.6	999.3
165°	4.0	3.9	3.1	2.8	2.0	1.5	1.4	0.4	999.7
170°	3.1	2.7	2.2	1.9	1.6	1.5	1.4	0.2	999.9
175°	1.5	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	19.8	21.3	20.1	21.6	21.9	24.8	26.3	25.1	26.6	26.9
	3H	22.6	23.9	22.9	24.3	24.6	25.6	26.9	25.9	27.2	27.6
	4H	23.5	24.9	23.9	25.2	25.6	25.8	27.0	26.2	27.4	27.8
	6H	24.2	25.4	24.6	25.8	26.2	25.9	27.1	26.3	27.4	27.8
	8H	24.5	25.6	24.9	26.0	26.4	26.0	27.0	26.4	27.4	27.8
	12H	24.7	25.8	25.1	26.2	26.6	26.0	27.0	26.5	27.4	27.8
4H	2H	20.6	21.9	21.0	22.2	22.6	24.8	26.1	25.2	26.4	26.8
	3H	23.5	24.6	23.9	25.0	25.4	25.6	26.7	26.1	27.1	27.5
	4H	24.6	25.6	25.1	26.0	26.4	26.0	26.9	26.4	27.4	27.8
	6H	25.4	26.3	25.8	26.7	27.2	26.2	27.0	26.6	27.5	27.9
	8H	25.7	26.5	26.2	27.0	27.4	26.3	27.0	26.7	27.5	27.9
	12H	26.0	26.7	26.5	27.2	27.6	26.3	27.0	26.8	27.4	27.9
8H	4H	24.9	25.6	25.3	26.1	26.6	26.1	26.9	26.6	27.3	27.8
	6H	25.8	26.5	26.3	26.9	27.4	26.4	27.0	26.9	27.5	28.0
	8H	26.2	26.8	26.7	27.3	27.8	26.5	27.0	27.0	27.5	28.0
	12H	26.6	27.1	27.1	27.6	28.1	26.5	27.0	27.0	27.5	28.1
12H	4H	24.9	25.6	25.4	26.0	26.5	26.1	26.8	26.6	27.3	27.8
	6H	25.9	26.4	26.4	26.9	27.4	26.4	27.0	26.9	27.5	28.0
	8H	26.3	26.8	26.8	27.3	27.8	26.5	27.0	27.0	27.5	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°	12031.2	12070.1	12039.1	12494.7	16766.7	43291.9	81748.5		
50°	12031.6	11991.1	11761.4	11761.9	14523.4	36039.7	67858.4		
55°	13113.1	12977.4	12388.0	11911.9	13280.0	29759.9	53919.5		
60°	14628.1	14517.3	13818.5	12816.6	12707.0	24216.8	40761.0		
65°	16014.8	15887.5	15020.7	13293.8	12179.8	19544.9	29788.8		
70°	16167.9	15843.2	14497.5	12464.2	11292.0	15620.6	21796.8		
75°	13855.0	13708.2	12544.5	10967.5	9867.1	12103.4	16292.5		
80°	10823.6	10792.2	10265.8	9236.9	8120.5	9024.7	12347.0		
85°	9112.8	9088.2	9151.1	8210.8	6580.1	6547.5	9564.5		

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Modario® 31

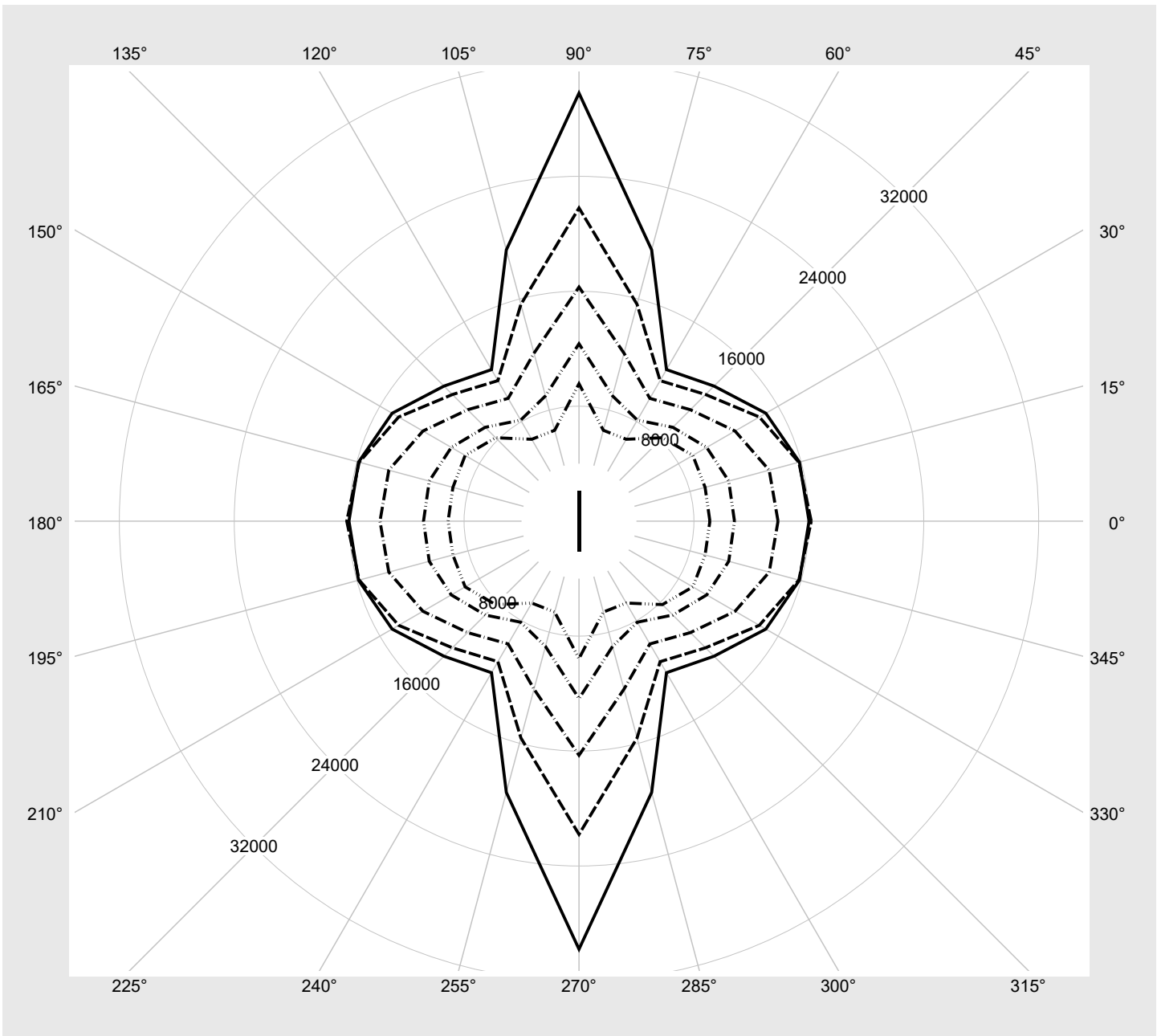
Order number: 53BM813DV4DXD2
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Luminance values in cd/m²



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	13370	74.9
95	240	252	12678	70.7
90	227	250	12030	67.0
85	214	248	11376	63.2
80	201	245	10717	59.3
75	187	243	10003	55.4
70	174	240	9335	51.6
65	162	238	8711	48.2
60	149	234	8033	44.5
55	136	231	7351	40.8
50	123	227	6666	37.1
45	111	224	6028	33.6
40	98	219	5334	30.0
35	86	214	4689	26.6
30	73	208	3986	23.0
25	61	202	3333	19.8
20	49	194	2678	16.4
15	37	183	2019	13.0
10	25	169	1358	9.7
5	13	145	692	6.4
2	5	110	247	4.2