

Photometric test report

Family
Modario® 31

Order number: **53BM812D2V4085**
EAN: **4058352421826**

LP number
59062_19



Version diffuser optic, frosted, wide distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI
Rated values Net luminous flux = 8930 lm
Power consumption = 61.8 W
Luminous efficacy = 144.5 lm/W

serial
documentation
26.11.2021

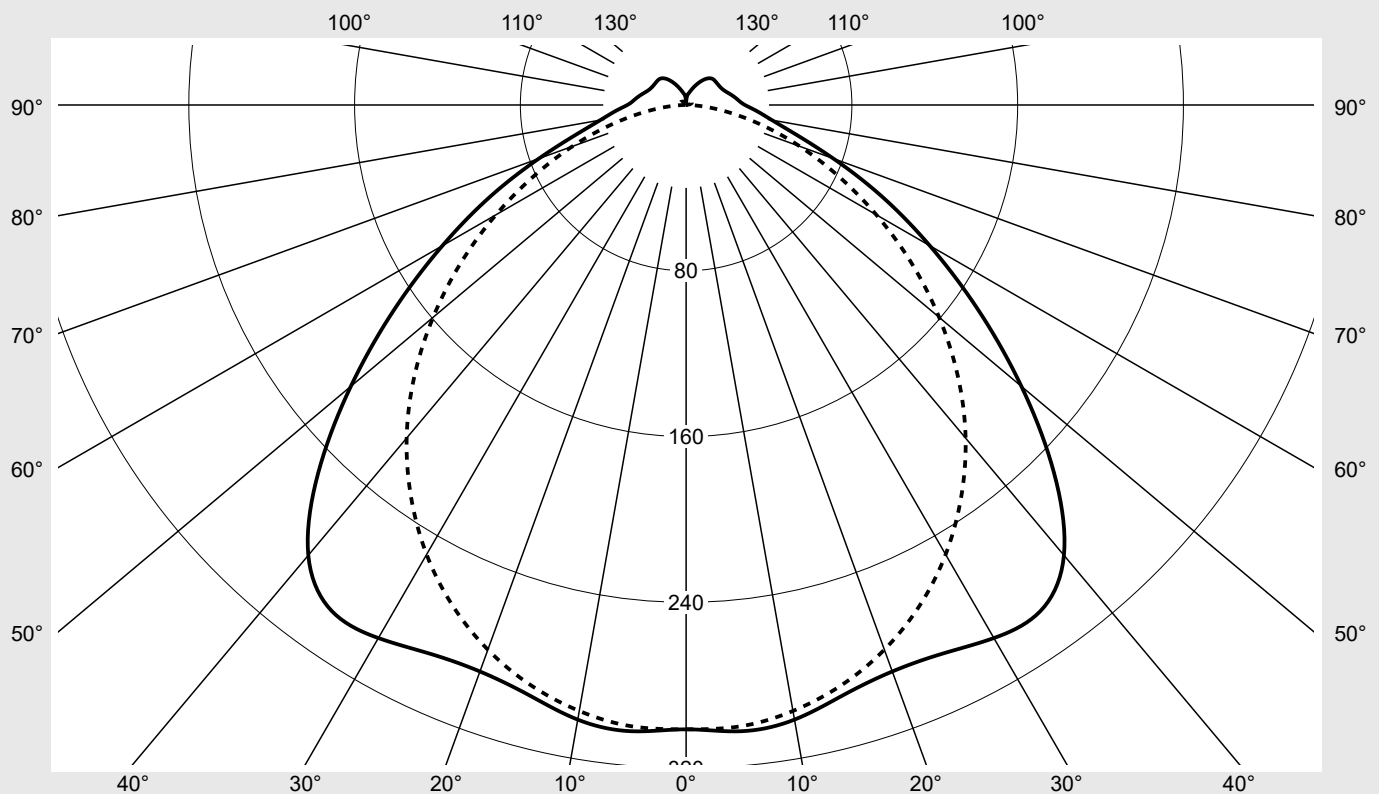
siteco

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°	301.3	301.3	301.3	301.3	301.3	301.3	301.3	1.8	1.8
5°	303.4	302.1	299.8	300.7	301.4	300.9	301.0	14.4	16.2
10°	301.2	300.2	298.0	298.8	298.8	297.4	296.9	28.4	44.6
15°	294.6	294.0	291.7	292.8	293.3	291.0	289.8	41.5	86.1
20°	290.9	289.9	285.2	284.3	284.4	281.8	279.7	53.5	139.6
25°	292.2	290.5	282.4	276.3	273.3	269.6	266.6	64.5	204.1
30°	297.0	294.4	282.2	270.2	261.0	254.7	250.5	74.7	278.9
35°	298.1	296.1	282.7	264.8	248.2	237.3	231.4	83.5	362.4
40°	283.7	283.9	275.8	257.5	234.7	217.8	209.8	89.0	451.4
45°	251.1	253.7	254.1	243.4	219.0	195.8	185.6	89.4	540.8
50°	211.2	214.3	220.3	219.1	199.3	172.1	159.4	84.7	625.6
55°	171.8	174.4	181.0	185.6	174.0	146.8	132.6	75.9	701.4
60°	135.8	137.5	141.9	147.8	143.1	120.2	106.0	64.2	765.6
65°	104.0	105.0	107.3	111.5	110.8	93.7	80.9	51.4	817.0
70°	75.7	76.6	78.0	80.9	80.7	68.8	58.4	38.8	855.8
75°	54.8	55.1	55.5	57.1	55.6	46.5	38.4	27.9	883.8
80°	42.1	41.7	40.7	39.3	35.7	27.8	21.5	19.5	903.3
85°	34.4	33.7	31.6	27.6	21.5	14.0	8.7	13.6	916.9
90°	28.4	27.8	25.3	20.0	13.0	5.8	0.9	9.7	926.7
95°	25.4	25.0	23.0	18.3	11.9	5.4	1.0	8.8	935.5
100°	23.4	22.9	21.1	17.1	11.7	5.5	1.6	8.2	943.6
105°	21.5	21.0	19.3	16.3	11.6	5.9	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	18.3	17.5	15.6	12.1	6.6	3.0	6.7	965.0
120°	18.4	17.9	17.3	15.6	12.2	6.6	2.9	6.4	971.4
125°	18.2	17.7	17.1	15.5	11.8	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	982.7
135°	17.9	17.2	16.1	13.6	9.8	5.6	2.4	4.7	987.4
140°	16.8	15.9	14.5	11.9	8.4	5.0	2.1	3.8	991.2
145°	14.9	14.0	12.6	10.1	6.8	4.5	2.0	3.0	994.1
150°	12.5	11.8	10.5	7.9	5.6	4.1	1.8	2.2	996.3
155°	10.2	9.6	8.3	6.3	5.0	3.7	1.7	1.5	997.8
160°	8.1	7.6	6.2	5.1	4.6	3.6	1.5	1.0	998.8
165°	6.4	6.1	4.7	4.5	4.0	4.8	1.5	0.7	999.5
170°	5.3	4.3	3.8	4.0	3.9	3.9	1.5	0.4	999.8
175°	3.8	3.2	4.6	4.9	4.0	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	22.4	24.1	22.8	24.4	24.7	22.2	23.9	22.6	24.2	24.5
	3H	23.4	24.9	23.8	25.2	25.6	23.4	24.9	23.7	25.2	25.6
	4H	23.7	25.2	24.1	25.5	25.9	23.8	25.2	24.2	25.6	25.9
	6H	24.1	25.4	24.5	25.8	26.1	24.0	25.4	24.5	25.8	26.1
	8H	24.3	25.5	24.7	25.9	26.3	24.2	25.4	24.6	25.8	26.2
	12H	24.4	25.6	24.9	26.0	26.4	24.2	25.4	24.6	25.8	26.2
4H	2H	23.0	24.5	23.4	24.8	25.2	22.9	24.4	23.3	24.7	25.1
	3H	24.2	25.4	24.6	25.8	26.2	24.3	25.5	24.7	25.9	26.3
	4H	24.6	25.7	25.1	26.2	26.6	24.8	25.9	25.3	26.3	26.8
	6H	25.1	26.0	25.5	26.5	26.9	25.2	26.2	25.6	26.6	27.0
	8H	25.3	26.2	25.8	26.6	27.1	25.3	26.2	25.8	26.7	27.1
	12H	25.6	26.3	26.0	26.8	27.3	25.4	26.2	25.9	26.7	27.1
8H	4H	24.9	25.8	25.4	26.2	26.7	25.1	26.0	25.6	26.4	26.9
	6H	25.5	26.2	26.0	26.7	27.2	25.6	26.3	26.1	26.8	27.3
	8H	25.8	26.4	26.3	26.9	27.4	25.8	26.4	26.3	26.9	27.4
	12H	26.1	26.7	26.6	27.2	27.7	25.9	26.5	26.4	27.0	27.5
12H	4H	24.9	25.8	25.4	26.2	26.7	25.1	25.9	25.6	26.4	26.9
	6H	25.6	26.2	26.1	26.7	27.2	25.7	26.3	26.2	26.8	27.3
	8H	25.9	26.5	26.4	27.0	27.5	25.9	26.5	26.4	26.9	27.5

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°		21485.3	21891.4	22496.1	22467.2	21413.7	20561.7	21170.3	
50°		18972.7	19440.5	20568.9	21465.7	20865.4	19580.5	20002.6	
55°		16372.3	16801.6	18023.1	19534.2	19761.6	18379.7	18653.5	
60°		13889.6	14236.8	15266.7	16935.6	17916.2	16869.9	17098.7	
65°		11577.4	11861.3	12647.3	14137.5	15580.9	15091.7	15449.3	
70°		9313.8	9586.4	10260.1	11582.0	13063.3	13116.6	13784.8	
75°		7609.1	7798.7	8333.3	9459.9	10691.0	10956.8	11983.1	
80°		6761.7	6852.3	7178.2	7803.6	8536.1	8672.9	10008.3	
85°		6609.8	6664.6	6799.1	6902.7	6847.6	6535.0	8067.2	

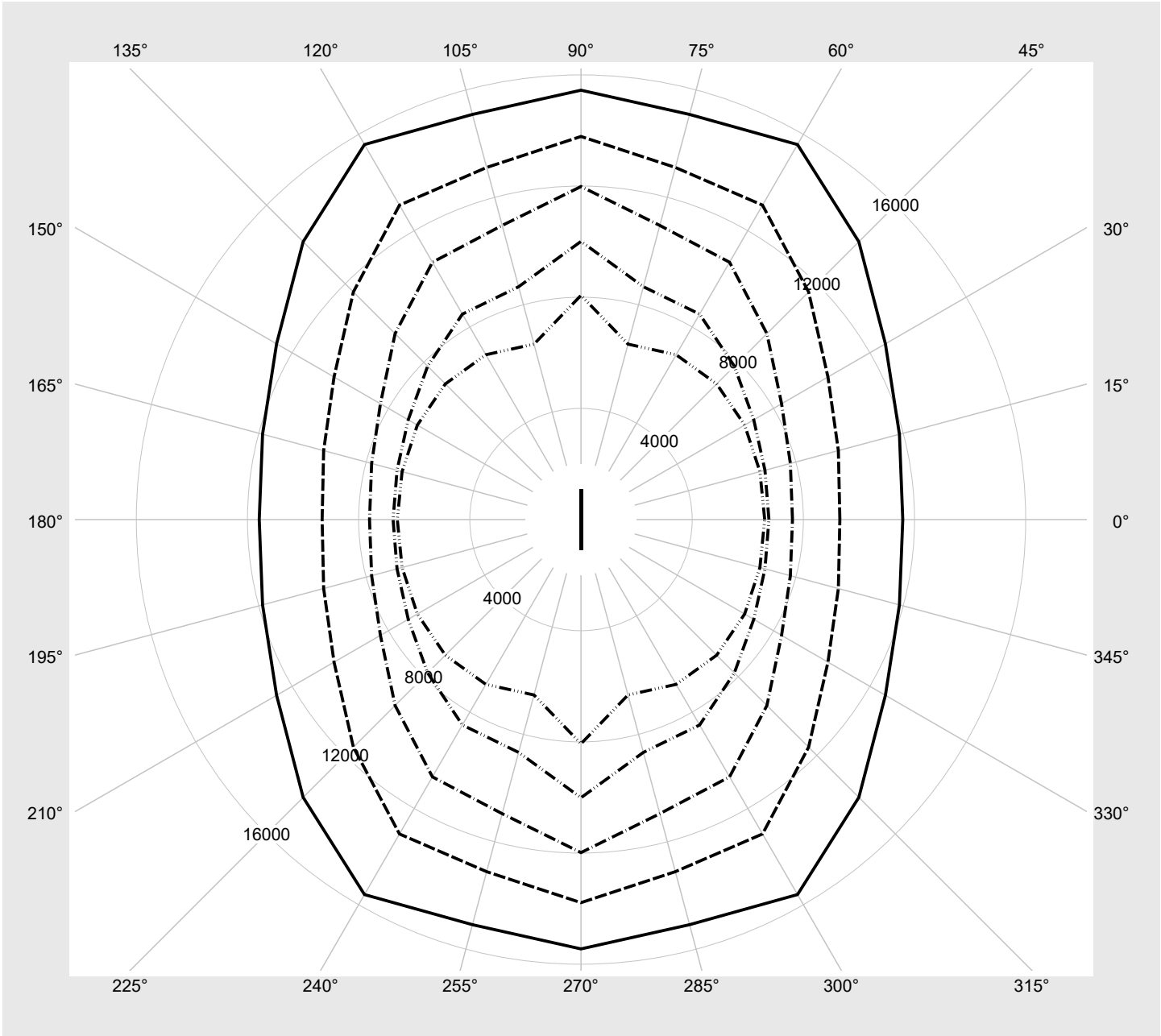
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Luminance values in cd/m²

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	8930	61.8
95	239	252	8478	58.0
90	225	250	8046	54.4
85	211	247	7607	50.9
80	197	245	7153	47.4
75	183	242	6693	43.9
70	170	239	6258	40.8
65	157	236	5815	37.6
60	144	233	5367	34.4
55	131	230	4913	31.4
50	118	226	4451	28.3
45	106	222	4019	25.6
40	94	218	3584	22.8
35	82	213	3140	20.1
30	70	207	2693	17.4
25	58	200	2242	14.8
20	46	191	1787	12.0
15	34	180	1326	9.4
10	23	166	900	7.0
5	11	139	433	4.6
2	4	102	157	2.9