

Photometric test report

Family
Modario® 31

Order number: 53BM812D2V6085
EAN: 4058352434611

LP number
59062_20



Version diffuser optic, frosted, wide distribution
Lamps LED 6500 K | CRI ≥ 80
Controlgear ECG-DALI
Rated values Net luminous flux = 8960 lm
Power consumption = 61.8 W
Luminous efficacy = 145 lm/W

serial
documentation
26.11.2021

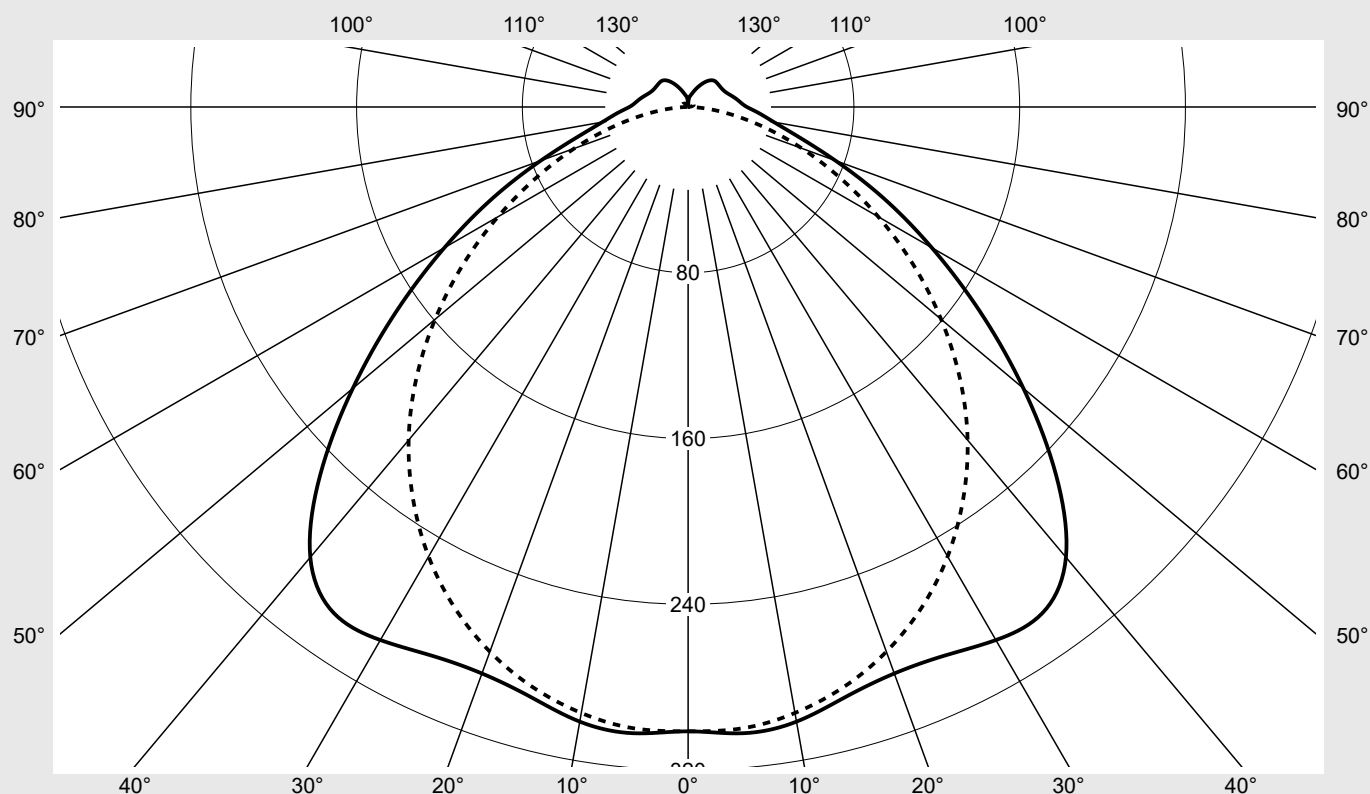
siteco

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	23.8	25.2	25.6
	4H	23.8	25.2	24.1	25.5	25.9	23.8	25.2	24.2	25.6	26.0
	6H	24.1	25.4	24.5	25.8	26.2	24.1	25.4	24.5	25.8	26.2
	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	23.1	24.5	23.5	24.9	25.2	23.0	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	24.7	25.8	25.1	26.2	26.6	24.8	25.9	25.3	26.3	26.8
	6H	25.1	26.1	25.5	26.5	26.9	25.2	26.2	25.7	26.6	27.1
	8H	25.3	26.2	25.8	26.6	27.1	25.3	26.2	25.8	26.7	27.1
	12H	25.6	26.4	26.1	26.8	27.3	25.4	26.2	25.9	26.7	27.2
8H	4H	24.9	25.8	25.4	26.3	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	26.5	26.3	26.9	27.5	25.8	26.4	26.3	26.9	27.4
	12H	26.2	26.7	26.7	27.2	27.7	25.9	26.5	26.4	27.0	27.5
12H	4H	25.0	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	27.0	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°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
	45°	21557.5	21964.9	22571.7	22542.7	21485.7	20630.8	21241.4	
	50°	19036.5	19505.8	20638.0	21537.9	20935.5	19646.3	20069.8	
	55°	16427.3	16858.0	18083.7	19599.8	19828.0	18441.5	18716.2	
	60°	13936.3	14284.7	15318.0	16992.5	17976.4	16926.6	17156.1	
	65°	11616.3	11901.2	12689.8	14185.0	15633.3	15142.4	15501.2	
	70°	9345.1	9618.6	10294.6	11620.9	13107.2	13160.7	13831.1	
	75°	7634.7	7824.9	8361.3	9491.7	10726.9	10993.6	12023.4	
	80°	6784.4	6875.4	7202.3	7829.9	8564.7	8702.0	10041.9	
	85°	6632.0	6687.0	6821.9	6925.9	6870.6	6557.0	8094.3	

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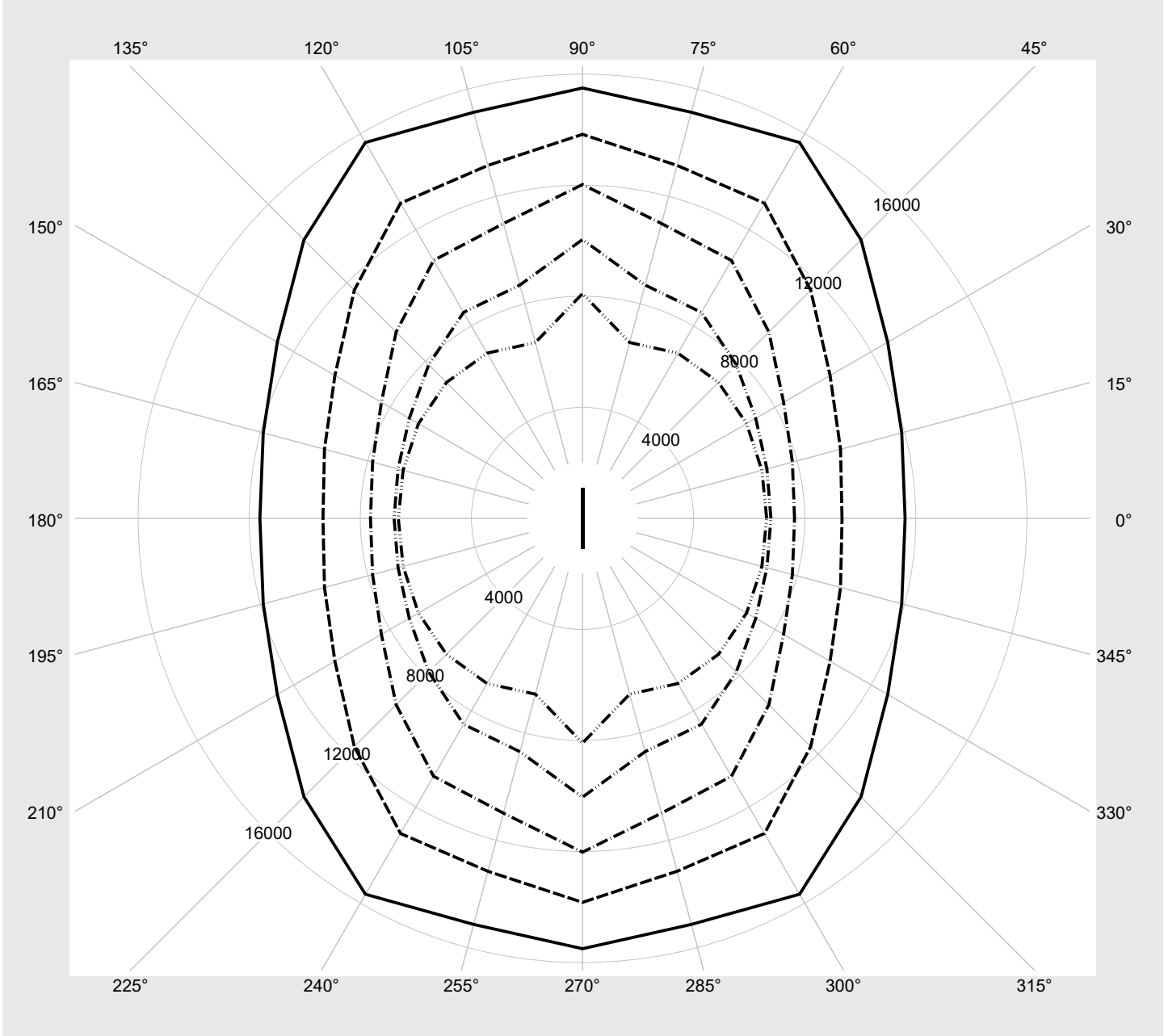
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°



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Dimming levels table	environmental temperature: 25°C	
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	8960	61.8
95	239	252	8505	58.0
90	225	250	8070	54.4
85	211	247	7627	50.9
80	197	245	7171	47.4
75	183	242	6708	43.9
70	170	239	6270	40.8
65	157	236	5825	37.6
60	144	233	5375	34.4
55	131	230	4918	31.4
50	119	226	4491	28.6
45	106	222	4021	25.6
40	94	218	3585	22.8
35	82	213	3141	20.1
30	70	207	2693	17.4
25	58	200	2241	14.8
20	46	191	1786	12.0
15	35	181	1363	9.6
10	23	166	899	7.0
5	11	139	432	4.6
2	4	102	156	2.9