
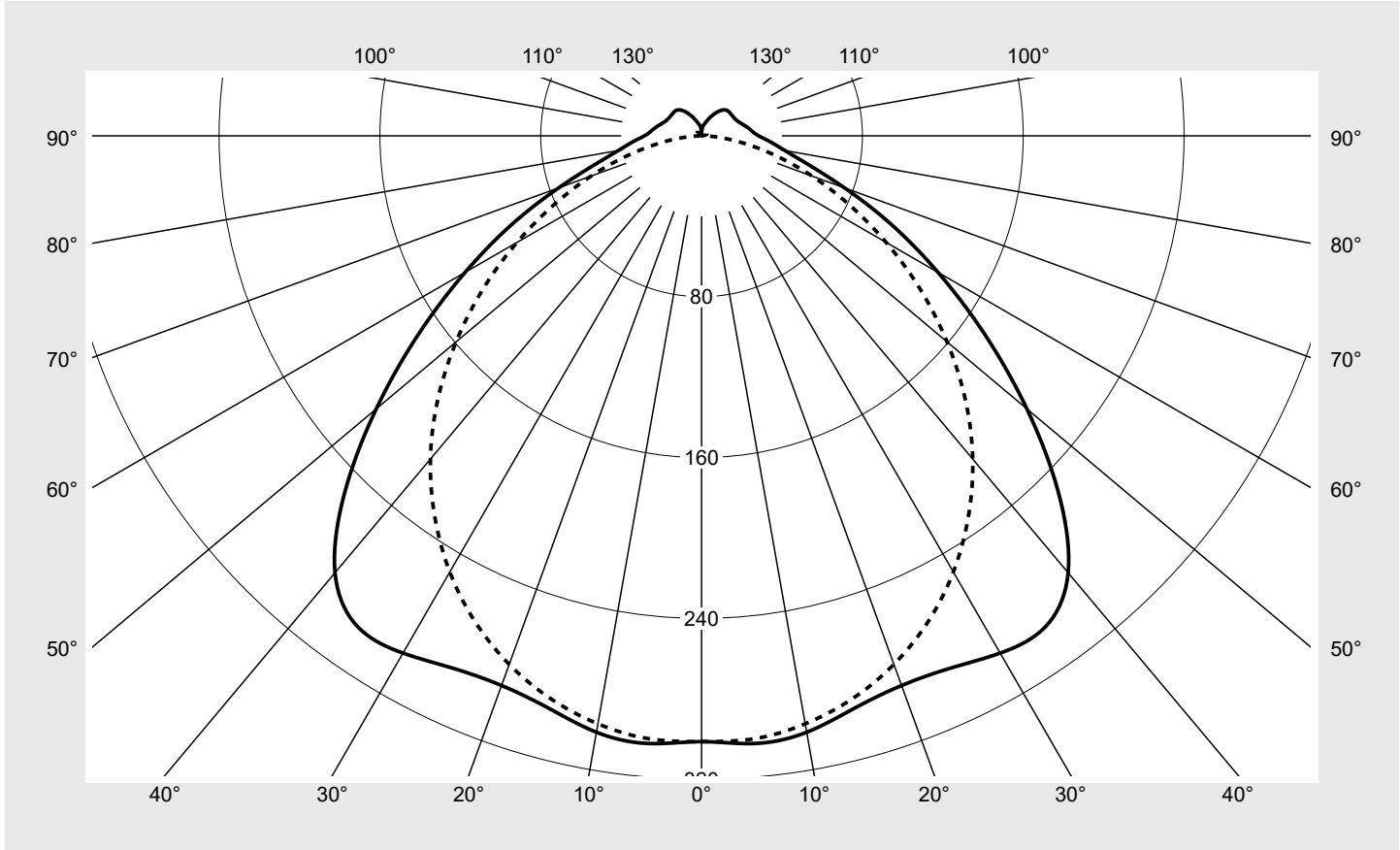


Photometric test report

Family Modario® 31 	Order number: 53BM81271V4080 EAN: 4058352425909	LP number 59062_4
	Version diffuser optic, frosted, wide distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG Rated values Net luminous flux = 7810 lm Power consumption = 50.8 W Luminous efficacy = 153.7 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°	301.3	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	21.9	23.6	22.3	23.9	24.3	21.7	23.4	22.1	23.7	24.1
	3H	22.9	24.4	23.3	24.8	25.1	22.9	24.4	23.3	24.8	25.1
	4H	23.3	24.7	23.7	25.1	25.4	23.3	24.8	23.7	25.1	25.5
	6H	23.6	24.9	24.0	25.3	25.7	23.6	24.9	24.0	25.3	25.7
	8H	23.8	25.0	24.2	25.4	25.8	23.7	25.0	24.1	25.3	25.7
	12H	24.0	25.1	24.4	25.5	25.9	23.7	24.9	24.2	25.3	25.7
4H	2H	22.6	24.0	23.0	24.4	24.7	22.5	23.9	22.9	24.3	24.6
	3H	23.7	24.9	24.1	25.3	25.7	23.8	25.1	24.3	25.4	25.8
	4H	24.2	25.3	24.6	25.7	26.1	24.4	25.5	24.8	25.9	26.3
	6H	24.6	25.6	25.1	26.0	26.5	24.7	25.7	25.2	26.1	26.6
	8H	24.8	25.7	25.3	26.2	26.6	24.8	25.7	25.3	26.2	26.7
	12H	25.1	25.9	25.6	26.3	26.8	24.9	25.7	25.4	26.2	26.7
8H	4H	24.4	25.3	24.9	25.8	26.3	24.6	25.5	25.1	25.9	26.4
	6H	25.0	25.8	25.5	26.2	26.7	25.1	25.9	25.6	26.3	26.8
	8H	25.3	26.0	25.8	26.5	27.0	25.3	26.0	25.8	26.4	27.0
	12H	25.7	26.2	26.2	26.7	27.3	25.4	26.0	26.0	26.5	27.0
12H	4H	24.5	25.3	25.0	25.7	26.2	24.7	25.4	25.1	25.9	26.4
	6H	25.1	25.7	25.6	26.2	26.7	25.2	25.8	25.7	26.3	26.8
	8H	25.4	26.0	26.0	26.5	27.0	25.4	26.0	25.9	26.5	27.0

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°		18790.7	19145.8	19674.6	19649.4	18728.0	17982.9	18515.1	
50°		16593.2	17002.3	17989.1	18773.5	18248.5	17124.7	17493.9	
55°		14318.9	14694.3	15762.7	17084.2	17283.1	16074.5	16314.0	
60°		12147.6	12451.3	13351.9	14811.5	15669.1	14754.1	14954.1	
65°		10125.4	10373.7	11061.1	12364.3	13626.8	13198.9	13511.6	
70°		8145.7	8384.1	8973.3	10129.4	11424.9	11471.5	12055.9	
75°		6654.8	6820.6	7288.2	8273.4	9350.1	9582.6	10480.2	
80°		5913.6	5992.9	6277.9	6824.9	7465.5	7585.2	8753.1	
85°		5780.8	5828.7	5946.3	6037.0	5988.8	5715.4	7055.4	

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Family
Modario® 31

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LP number
59062_4

Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

