

## Lichttechnischer Prüfbefund

Familie  
Modario® 31

Bestell-Nr.: 53BM811D2V4120  
EAN: 4058352498040

LP-Nummer  
55135\_41



**Ausführung** Diffusoroptik, satiniert, eng strahlend  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG-DALI  
**Bemessungswerte** Nettolichtstrom = 12350 lm  
Systemleistung = 79.4 W  
Lichtausbeute = 155.5 lm/W

Seriendokumentation  
23.04.2021

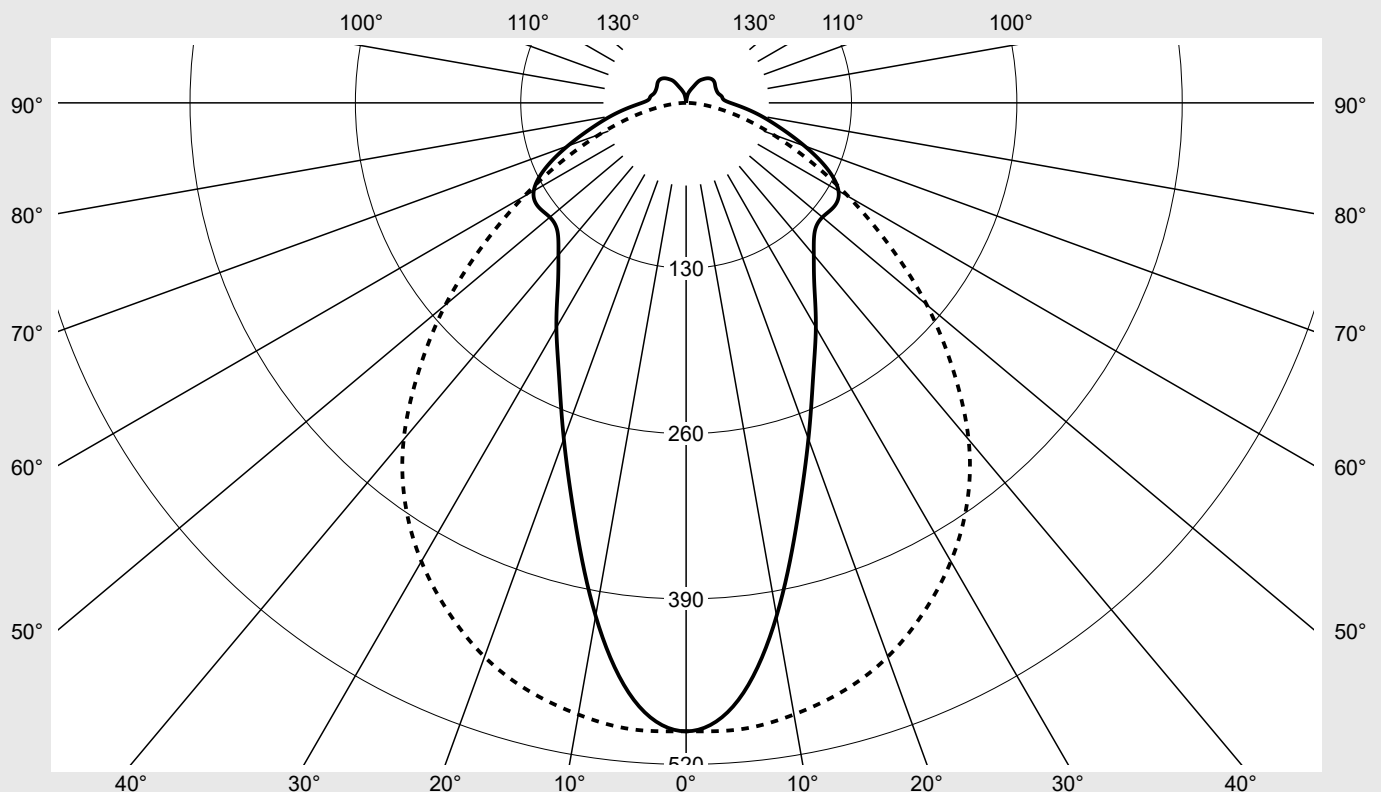
siteco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 494 cd/klm



## Klassifizierungen

DIN 5040 A 4 1  
CIE N1=52 N2=78 N3=94  
N4=90 N5=100

## Leuchtenbetriebswirkungsgrade

$\eta_{LB}$  100,0%  
 $\phi_u$  90,2%  
 $\phi_o$  9,8%

## Messbedingungen

DIN EN 13032 und DIN 5032

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<b>Wertetabelle Lichtstärkemessung</b>		<b>Maximale Lichtstärke</b>
		<b>siteco</b>

C- Ebenen	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Phi-Zone	Summe	
									Phi-Zone	Phi-Zone
γ										
Lichtstärke in cd/klm										
Lichtstrom in lm/klm										
0°	494.0	494.0	494.0	494.0	494.0	494.0	494.0	3.0	3.0	3.0
5°	471.2	473.6	473.3	479.8	487.3	492.3	494.3	23.0	26.0	26.0
10°	409.6	413.1	422.7	443.8	464.9	481.7	488.2	42.4	68.4	68.4
15°	338.4	347.0	361.1	392.2	430.5	464.3	478.5	56.8	125.2	125.2
20°	281.1	287.1	301.8	336.6	388.5	440.1	463.4	66.4	191.7	191.7
25°	236.4	241.8	253.6	284.7	341.2	409.5	441.9	72.2	263.9	263.9
30°	204.0	206.7	214.9	239.9	293.5	372.6	416.3	74.8	338.7	338.7
35°	175.8	178.5	183.2	201.6	247.9	331.0	384.9	74.5	413.2	413.2
40°	156.2	156.9	158.1	169.5	206.1	286.5	345.5	72.1	485.3	485.3
45°	143.0	142.2	139.6	143.9	170.0	240.3	296.8	68.2	553.5	553.5
50°	139.9	136.3	128.9	125.0	140.5	196.1	247.0	64.4	617.9	617.9
55°	142.1	137.0	123.8	111.3	116.1	156.4	194.7	60.8	678.8	678.8
60°	138.3	133.4	118.4	100.6	96.3	122.2	147.4	56.5	735.2	735.2
65°	122.3	118.7	106.2	88.6	78.9	92.2	106.5	49.6	784.8	784.8
70°	99.1	96.0	86.4	72.7	62.1	66.2	72.4	40.3	825.1	825.1
75°	77.2	75.5	68.2	57.7	47.1	45.1	46.2	31.4	856.5	856.5
80°	60.2	58.5	53.3	43.9	33.2	27.4	25.3	23.3	879.8	879.8
85°	45.8	44.8	40.6	32.3	22.0	14.3	10.3	16.6	896.3	896.3
90°	34.8	33.6	29.7	22.4	13.8	6.0	0.9	11.3	907.6	907.6
95°	29.5	28.4	25.0	19.2	12.4	5.6	0.9	9.6	917.2	917.2
100°	28.5	27.2	23.5	18.4	12.5	6.1	0.9	9.2	926.4	926.4
105°	26.7	25.7	22.5	18.4	13.1	6.4	0.9	8.8	935.2	935.2
110°	25.9	24.6	22.5	19.1	13.8	7.0	0.9	8.6	943.9	943.9
115°	25.9	24.8	23.2	20.0	14.4	7.5	0.9	8.6	952.4	952.4
120°	26.4	25.5	24.2	20.7	14.8	7.0	0.9	8.4	960.8	960.8
125°	27.4	26.5	24.8	20.9	14.8	7.1	0.9	8.1	968.9	968.9
130°	27.7	26.6	24.5	20.3	14.3	7.1	1.0	7.5	976.4	976.4
135°	27.0	25.7	23.3	19.1	12.5	6.9	1.1	6.6	983.0	983.0
140°	25.2	23.8	21.4	17.4	10.4	6.1	1.2	5.4	988.4	988.4
145°	22.6	21.3	19.1	14.4	8.9	5.1	1.3	4.2	992.6	992.6
150°	19.6	18.2	15.5	10.6	7.6	4.0	1.4	3.0	995.6	995.6
155°	14.7	13.4	11.5	8.5	6.9	2.9	1.4	2.0	997.6	997.6
160°	11.4	10.7	8.5	7.3	5.5	1.6	1.5	1.2	998.9	998.9
165°	8.9	8.5	6.6	5.7	3.8	1.5	1.4	0.7	999.6	999.6
170°	6.0	4.8	4.2	3.4	1.5	1.4	1.4	0.3	999.9	999.9
175°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.1	1000.0	1000.0
180°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0	1000.0	1000.0

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UGR-Tabelle		Standardraum									
		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
Raumabmessungen											
x	y										
2H	2H	22,0	23,6	22,3	23,9	24,3	23,7	25,3	24,0	25,6	25,9
	3H	24,0	25,5	24,4	25,9	26,2	24,9	26,4	25,3	26,7	27,1
	4H	24,9	26,3	25,2	26,6	27,0	25,4	26,8	25,8	27,1	27,5
	6H	25,6	26,9	26,0	27,2	27,6	25,7	27,0	26,1	27,3	27,7
	8H	25,9	27,1	26,3	27,5	27,9	25,8	27,0	26,3	27,4	27,8
	12H	26,2	27,3	26,6	27,7	28,1	25,9	27,0	26,3	27,4	27,8
4H	2H	22,6	24,0	23,0	24,4	24,8	24,0	25,4	24,4	25,7	26,1
	3H	24,9	26,1	25,3	26,5	26,9	25,4	26,6	25,8	26,9	27,3
	4H	25,8	26,9	26,3	27,3	27,8	25,9	27,0	26,4	27,4	27,8
	6H	26,7	27,6	27,1	28,1	28,5	26,3	27,3	26,8	27,7	28,2
	8H	27,1	28,0	27,6	28,4	28,9	26,5	27,4	27,0	27,8	28,3
	12H	27,5	28,2	27,9	28,7	29,2	26,6	27,4	27,1	27,8	28,3
8H	4H	26,1	27,0	26,6	27,4	27,9	26,2	27,1	26,7	27,5	28,0
	6H	27,2	27,9	27,7	28,4	28,9	26,7	27,5	27,2	27,9	28,4
	8H	27,7	28,3	28,2	28,8	29,3	26,9	27,6	27,4	28,1	28,6
	12H	28,2	28,7	28,7	29,2	29,8	27,1	27,6	27,6	28,1	28,7
12H	4H	26,2	26,9	26,7	27,4	27,9	26,3	27,0	26,7	27,5	28,0
	6H	27,3	27,9	27,8	28,4	28,9	26,8	27,5	27,3	28,0	28,5
	8H	27,8	28,4	28,3	28,9	29,4	27,1	27,6	27,6	28,1	28,7

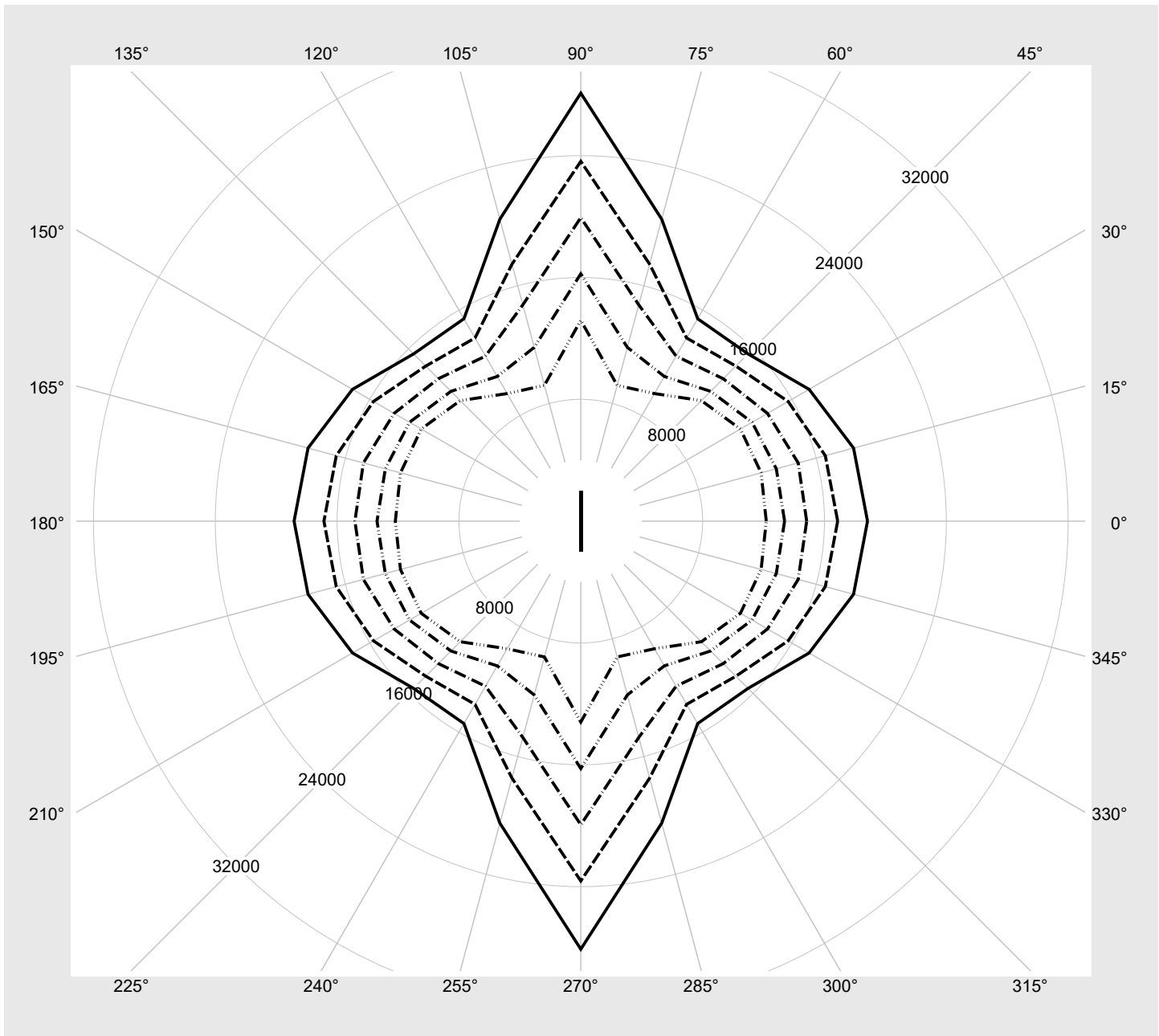
<b>Leuchtdichten-Tabelle</b>	Max. für $\gamma \geq 65^\circ$	Lichttechnische Abmessungen in mm:	L = 1476 B = 75	H(C0) = 25 H(C90) = 0	H(C180) = 25 H(C270) = 0
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C-Ebenen	$\gamma$	Leuchtdichte in cd/m <sup>2</sup>						
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
45°		16922.9	16967.4	17095.6	18372.4	22995.8	34907.6	46831.1
50°		17372.2	17099.9	16646.9	16934.8	20341.3	30865.3	42860.9
55°		18719.6	18257.1	17046.0	16193.7	18246.1	27086.7	37860.4
60°		19565.2	19102.0	17607.0	15935.5	16667.5	23714.3	32893.4
65°		18826.7	18542.2	17310.9	15529.9	15347.4	20529.6	28106.2
70°		16867.1	16620.6	15718.8	14399.6	13890.9	17467.6	23626.4
75°		14831.8	14778.6	14156.1	13227.1	12516.2	14705.4	19934.1
80°		13381.3	13288.9	12985.2	12057.5	10970.6	11812.8	16243.4
85°		12177.9	12257.8	12100.6	11196.4	9674.1	9231.1	13190.8

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Leuchtdichten in cd/m<sup>2</sup>      γ 65°    γ 70°    γ 75°    γ 80°    γ 85°      **siteco**



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<b>Dimmstufen-Tabelle</b>		<b>Umgebungstemperatur: 25°C</b>

**sITeco**

Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [W]
100	254	254	12350	79.5
95	239	252	11713	74.7
90	225	250	11101	70.1
85	211	247	10482	65.7
80	198	245	9899	61.6
75	184	242	9262	57.3
70	171	240	8648	53.2
65	158	237	8034	49.2
60	145	233	7413	45.2
55	132	230	6781	41.3
50	120	227	6188	37.6
45	107	222	5543	33.7
40	95	218	4937	30.2
35	83	213	4324	26.6
30	71	207	3702	23.0
25	59	201	3085	19.6
20	47	192	2458	16.1
15	36	182	1877	12.9
10	24	168	1240	9.4
5	12	142	603	6.0
3	7	122	343	4.5