

## Photometric test report

**Family**  
**Modario® 31**

**Order number: 53BM812C1V6105**  
**EAN: 4058352434604**

**LP number**  
**59064\_5**



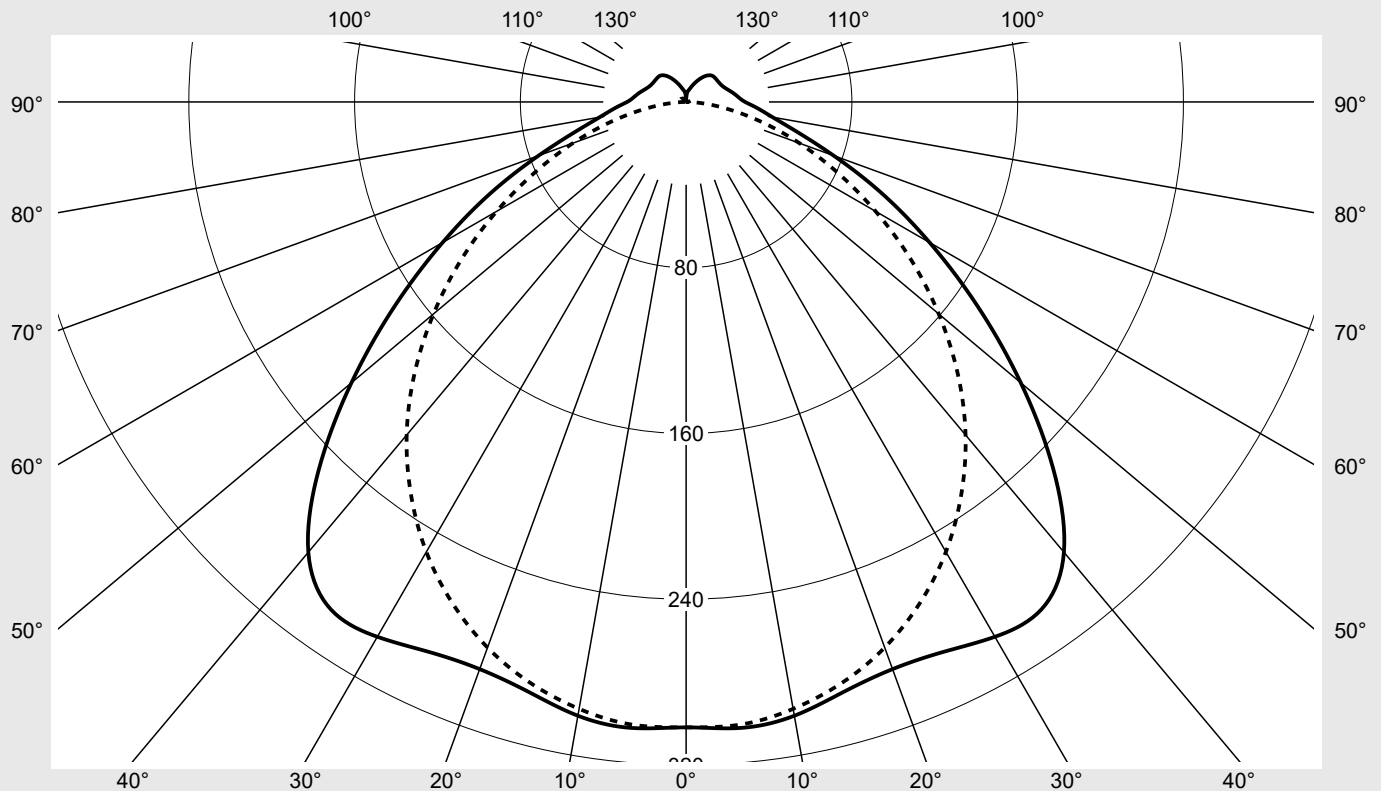
**Version** diffuser optic, frosted, wide distribution  
**Lamps** LED 6500 K | CRI ≥ 80  
**Controlgear** ECG-Multilumen CLOi  
**Rated values** Net luminous flux = 10560 lm  
 Power consumption = 63.8 W  
 Luminous efficacy = 165.5 lm/W

**serial**  
**documentation**  
**29.10.2020**

**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

$\eta_{LB}$  100.0%  
 $\phi_u$  92.2%  
 $\phi_o$  7.8%

### Measurement conditions

DIN EN 13032 and DIN 5032

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<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>sITeco</b>

C-planes $\gamma$	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°	301.8	301.8	301.8	301.8	301.8	301.8	301.8	1.8	1.8
5°	303.3	302.1	299.9	300.9	301.9	301.5	301.6	14.4	16.2
10°	300.8	300.0	297.7	298.5	298.9	297.8	297.4	28.4	44.6
15°	294.6	294.3	291.7	292.6	293.1	291.2	290.3	41.5	86.1
20°	291.3	290.6	285.8	284.4	284.3	281.8	280.2	53.5	139.7
25°	293.0	291.5	283.0	276.7	273.3	269.6	266.9	64.6	204.3
30°	298.0	296.0	283.3	270.8	261.1	254.6	250.8	74.9	279.2
35°	299.0	297.5	283.8	265.6	248.4	237.0	231.5	83.7	362.9
40°	283.7	284.3	276.5	258.3	235.0	217.5	209.8	89.2	452.1
45°	250.6	253.6	254.2	243.8	219.3	195.5	185.4	89.4	541.5
50°	210.8	214.1	220.0	218.9	199.3	171.7	159.1	84.6	626.1
55°	171.6	174.1	180.5	185.1	173.7	146.4	132.4	75.7	701.8
60°	135.7	137.3	141.6	147.2	142.6	119.7	105.6	64.0	765.8
65°	104.1	104.9	107.1	111.0	110.3	93.2	80.6	51.2	817.1
70°	75.8	76.7	78.0	80.6	80.3	68.4	58.2	38.7	855.8
75°	55.2	55.4	55.7	57.0	55.4	46.3	38.3	27.9	883.7
80°	42.4	41.9	40.8	39.2	35.6	27.7	21.5	19.5	903.3
85°	34.5	33.8	31.7	27.6	21.5	14.0	8.7	13.7	916.9
90°	28.5	27.9	25.4	20.0	13.0	5.8	0.8	9.7	926.7
95°	25.4	25.0	22.9	18.2	11.9	5.4	1.1	8.8	935.5
100°	23.4	22.9	21.0	17.1	11.6	5.5	1.7	8.2	943.6
105°	21.5	21.0	19.3	16.3	11.6	5.8	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	18.4	17.5	15.6	12.1	6.5	2.9	6.7	965.0
120°	18.5	17.9	17.3	15.6	12.2	6.6	2.9	6.3	971.4
125°	18.2	17.7	17.1	15.5	11.7	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	982.6
135°	17.9	17.2	16.1	13.6	9.8	5.6	2.4	4.7	987.3
140°	16.8	15.9	14.5	12.0	8.4	5.0	2.2	3.8	991.1
145°	14.9	14.0	12.6	10.1	6.9	4.5	2.0	3.0	994.1
150°	12.5	11.8	10.5	8.0	5.7	4.2	1.8	2.2	996.3
155°	10.2	9.6	8.4	6.3	5.0	3.7	1.6	1.5	997.8
160°	8.1	7.7	6.3	5.1	4.6	3.6	1.5	1.0	998.8
165°	6.4	6.2	4.7	4.5	4.1	4.7	1.5	0.7	999.5
170°	5.4	4.4	3.9	4.0	3.9	3.8	1.5	0.4	999.8
175°	3.9	3.2	4.4	4.7	3.9	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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<b>UGR-Table</b>	<b>Standard room</b>	<b>siteco</b>
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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	23.0	24.7	23.3	25.0	25.3	22.8	24.5	23.1	24.8	25.1
	3H	24.0	25.5	24.3	25.8	26.2	23.9	25.5	24.3	25.8	26.1
	4H	24.3	25.8	24.7	26.1	26.5	24.3	25.8	24.7	26.1	26.5
	6H	24.7	26.0	25.1	26.3	26.7	24.6	26.0	25.0	26.3	26.7
	8H	24.9	26.1	25.3	26.5	26.9	24.7	26.0	25.1	26.4	26.8
	12H	25.0	26.2	25.5	26.6	27.0	24.8	26.0	25.2	26.3	26.8
4H	2H	23.6	25.1	24.0	25.4	25.8	23.5	24.9	23.9	25.3	25.7
	3H	24.8	26.0	25.2	26.4	26.8	24.9	26.1	25.3	26.5	26.9
	4H	25.2	26.3	25.7	26.7	27.2	25.4	26.5	25.8	26.9	27.3
	6H	25.7	26.6	26.1	27.1	27.5	25.8	26.7	26.2	27.2	27.6
	8H	25.9	26.8	26.4	27.2	27.7	25.9	26.8	26.3	27.2	27.7
	12H	26.2	26.9	26.6	27.4	27.9	26.0	26.8	26.4	27.2	27.7
8H	4H	25.5	26.4	26.0	26.8	27.3	25.6	26.5	26.1	27.0	27.4
	6H	26.1	26.8	26.5	27.3	27.8	26.1	26.9	26.6	27.4	27.8
	8H	26.4	27.0	26.9	27.5	28.0	26.3	27.0	26.8	27.5	28.0
	12H	26.7	27.3	27.2	27.8	28.3	26.5	27.0	27.0	27.5	28.1
12H	4H	25.5	26.3	26.0	26.8	27.3	25.7	26.5	26.2	26.9	27.4
	6H	26.1	26.8	26.6	27.3	27.8	26.2	26.9	26.7	27.4	27.9
	8H	26.5	27.1	27.0	27.6	28.1	26.5	27.0	27.0	27.5	28.0

<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1476</b>	<b>H(C0) = 25</b>	<b>H(C180) = 25</b>
			<b>B = 75</b>	<b>H(C90) = 0</b>	<b>H(C270) = 0</b>

C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>							
		0°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		25358.9	25874.9	26605.9	26616.2	25360.1	24275.4	25007.7	
50°		22394.6	22963.2	24286.4	25363.6	24678.6	23105.4	23617.2	
55°		19337.1	19837.2	21256.5	23030.7	23329.8	21674.5	22011.6	
60°		16417.0	16814.2	18009.2	19944.5	21109.6	19873.5	20147.6	
65°		13696.2	14010.2	14930.2	16649.8	18333.5	17760.6	18184.6	
70°		11034.3	11346.3	12126.2	13651.6	15366.8	15426.7	16231.2	
75°		9060.1	9274.6	9877.0	11170.7	12589.3	12902.7	14121.4	
80°		8050.1	8145.1	8509.0	9225.9	10061.7	10207.7	11790.1	
85°		7856.6	7908.9	8058.2	8163.6	8081.7	7698.6	9504.7	

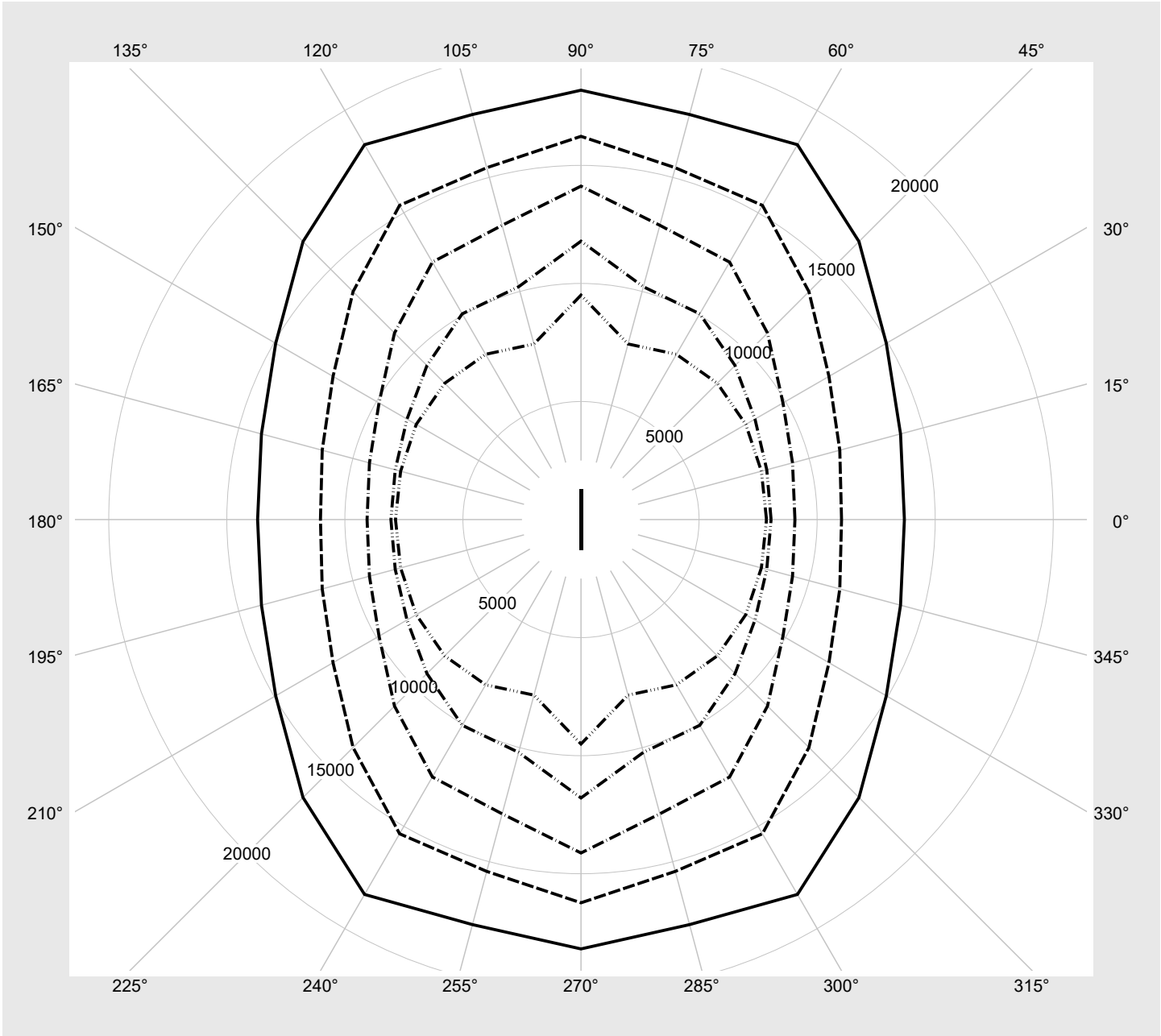
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**Luminance values in cd/m<sup>2</sup>**

$\gamma$  65°   
   $\gamma$  70°   
   $\gamma$  75°   
   $\gamma$  80°   
   $\gamma$  85°



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<b>Multilumen Table</b>	environmental temperature: 25°C	<b>siteco</b>
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DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]	Power consumption	Power consumption
	1	2	3			end of lifetime [W]	average [W]
1	A	C	E	10560	63.8	73.1	68.4
2	A	C	F	10090	60.6	69.3	65.0
3	A	D	E	9070	53.8	61.0	57.4
4	A	D	F	8020	47.0	53.3	50.2
5	B	C	E	7030	40.8	46.1	43.4
6	B	C	F	6010	34.7	39.0	36.8
7	B	D	E	5050	29.1	32.5	30.8
8	B	D	F	4060	23.5	26.1	24.8