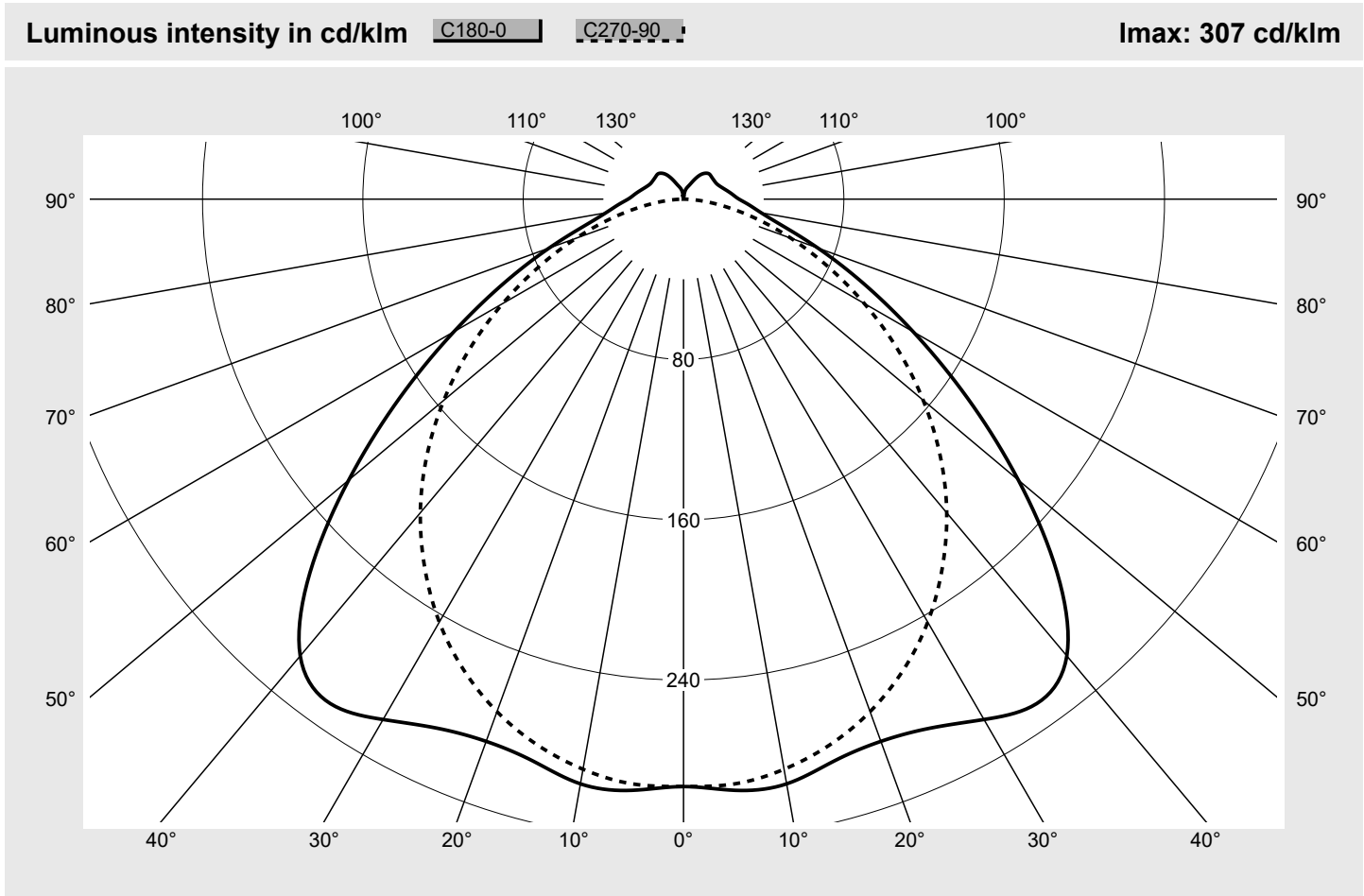


# Photometric test report

<b>Family</b> Modario® 31	<b>Order number: 53BM812DU4L3D2D</b> <b>EAN: 4069025134653</b>	<b>LP number</b> 59594_56
<b>Version</b>	diffuser optic, frosted, wide distribution	<b>serial documentation</b> 06.05.2024
<b>Lamps</b>	LED 4000 K   CRI ≥ 80	
<b>Controlgear</b>	ECG-DALI	<b>sITeco</b>
<b>Setting</b>	DC mode (central or group accumulator) initial emergency light level	
<b>Rated values</b>	Net luminous flux = 3710 lm Power consumption = 21.1 W Luminous efficacy = 175.8 lm/W	



Classifications	
DIN 5040	A 4 1
CIE	N1=47 N2=80 N3=95 N4=93 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	92.6%
$\phi_o$	7.4%

Measurement conditions
DIN EN 13032 and DIN 5032

## Photometric test report

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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° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Luminous flux in lm/klm	
								Phi-zone	Total Phi-zone
Luminous intensity in cd/klm								Luminous flux in lm/klm	
0°	293.1	293.1	293.1	293.1	293.1	293.1	293.1	1.8	1.8
5°	296.1	295.6	293.1	293.6	293.8	293.0	292.9	14.0	15.8
10°	296.3	296.3	293.6	293.6	292.6	289.9	288.9	27.9	43.7
15°	290.3	290.9	288.4	289.1	288.3	284.2	281.9	40.8	84.5
20°	287.9	288.2	282.8	281.1	280.6	275.9	272.2	52.8	137.3
25°	291.3	290.8	281.6	274.0	270.0	264.7	259.4	64.0	201.2
30°	299.8	298.4	283.7	269.7	258.3	250.5	243.7	74.6	275.8
35°	307.3	306.0	288.6	266.7	246.6	233.7	225.0	84.2	360.1
40°	297.5	299.0	287.4	263.1	235.0	215.2	204.3	91.1	451.1
45°	263.6	268.2	268.7	253.4	221.8	194.2	181.1	92.3	543.4
50°	218.1	223.5	232.0	231.1	204.9	171.7	156.1	87.5	630.9
55°	172.9	177.3	186.9	195.4	181.1	147.5	130.2	77.8	708.7
60°	132.3	135.3	142.3	152.9	149.4	121.4	104.1	64.8	773.5
65°	98.5	100.2	104.0	112.2	114.5	94.5	79.4	50.9	824.4
70°	71.4	72.6	74.4	79.3	82.2	69.0	57.1	37.9	862.3
75°	51.0	51.6	52.9	55.5	55.9	46.4	37.5	27.0	889.4
80°	39.4	39.1	38.7	38.1	35.5	27.5	20.9	18.8	908.2
85°	32.8	32.1	30.1	26.5	21.0	13.7	8.3	13.1	921.3
90°	27.7	27.1	24.5	19.3	12.6	5.6	0.8	9.4	930.7
95°	24.8	24.4	22.4	17.8	11.6	5.3	0.8	8.6	939.3
100°	22.5	22.2	20.5	16.7	11.5	5.5	0.8	7.9	947.2
105°	20.6	20.3	18.7	16.0	11.5	5.9	0.8	7.3	954.6
110°	19.2	18.7	17.6	15.5	11.7	6.3	0.7	6.8	961.4
115°	18.2	17.8	17.0	15.3	12.2	5.8	0.8	6.4	967.8
120°	17.9	17.4	16.9	15.5	12.3	5.3	0.8	6.1	973.9
125°	17.8	17.4	16.9	15.5	11.8	5.2	0.8	5.7	979.6
130°	17.9	17.4	16.8	15.0	10.1	5.0	0.9	5.2	984.7
135°	17.9	17.3	16.2	13.6	8.1	4.3	1.0	4.5	989.2
140°	16.9	16.0	14.5	11.2	6.7	3.5	1.1	3.6	992.8
145°	14.9	14.0	12.0	8.5	5.5	2.8	1.2	2.7	995.4
150°	11.8	10.8	9.0	6.5	4.7	2.2	1.4	1.8	997.3
155°	8.6	8.1	7.0	5.2	4.0	1.7	1.5	1.2	998.5
160°	6.8	6.5	5.3	4.3	3.2	1.5	1.5	0.8	999.2
165°	5.5	5.3	3.9	3.4	2.1	1.6	1.6	0.5	999.7
170°	3.8	3.1	2.5	2.0	1.6	1.6	1.6	0.2	999.9
175°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.1	1000.0
180°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.0	1000.0

## Photometric test report

Family <b>Modario® 31</b>	Order number: <b>53BM812DU4L3D2D</b> EAN: <b>4069025134653</b>	LP number <b>59594_56</b>
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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	17.8	19.5	18.1	19.8	20.1	17.6	19.3	17.9	19.6	19.9
	3H	18.6	20.1	19.0	20.5	20.8	18.7	20.2	19.1	20.6	20.9
	4H	18.9	20.4	19.3	20.7	21.1	19.1	20.5	19.5	20.9	21.2
	6H	19.2	20.6	19.6	20.9	21.3	19.3	20.7	19.7	21.0	21.4
	8H	19.4	20.6	19.8	21.0	21.4	19.4	20.7	19.8	21.1	21.5
	12H	19.6	20.7	20.0	21.1	21.5	19.5	20.7	19.9	21.1	21.5
4H	2H	18.4	19.9	18.8	20.2	20.6	18.3	19.7	18.7	20.1	20.5
	3H	19.4	20.6	19.8	21.0	21.4	19.6	20.9	20.1	21.2	21.6
	4H	19.8	20.9	20.3	21.3	21.8	20.1	21.2	20.6	21.6	22.1
	6H	20.2	21.2	20.7	21.6	22.1	20.5	21.5	20.9	21.9	22.3
	8H	20.4	21.3	20.9	21.7	22.2	20.6	21.5	21.1	21.9	22.4
	12H	20.7	21.4	21.1	21.9	22.4	20.7	21.5	21.2	21.9	22.4
8H	4H	20.1	21.0	20.6	21.4	21.9	20.4	21.3	20.8	21.7	22.2
	6H	20.6	21.3	21.1	21.8	22.3	20.9	21.6	21.3	22.1	22.6
	8H	20.9	21.5	21.4	22.0	22.5	21.0	21.7	21.5	22.2	22.7
	12H	21.2	21.8	21.7	22.3	22.8	21.2	21.7	21.7	22.2	22.8
12H	4H	20.1	20.9	20.6	21.4	21.9	20.4	21.2	20.9	21.7	22.1
	6H	20.7	21.3	21.2	21.8	22.3	20.9	21.6	21.4	22.1	22.6
	8H	21.0	21.6	21.5	22.1	22.6	21.2	21.7	21.7	22.2	22.7

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 2392 B = 75	H(C0) = 25 H(C90) = 0	H(C180) = 25 H(C270) = 0
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C-planes	$\gamma$	0° 180°	15°	30°	45°	60°	75°	90° 270°
			165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°	
			Luminance in cd/m²					
45°		5782.5	5934.2	6098.2	5997.1	5561.0	5228.9	5297.1
50°		5021.6	5195.9	5553.5	5803.7	5498.4	5009.8	5022.2
55°		4222.7	4377.9	4771.1	5271.8	5272.7	4735.6	4695.9
60°		3469.2	3591.4	3922.6	4490.5	4794.4	4367.1	4307.5
65°		2811.4	2901.4	3144.1	3647.9	4129.3	3900.2	3883.5
70°		2251.9	2328.3	2507.1	2910.8	3410.0	3373.1	3450.3
75°		1815.0	1872.9	2033.5	2359.0	2753.3	2801.9	2994.7
80°		1623.4	1648.6	1745.4	1943.6	2175.6	2201.0	2488.4
85°		1617.8	1629.4	1662.5	1701.7	1718.2	1634.3	1978.7

**Photometric test report**

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

