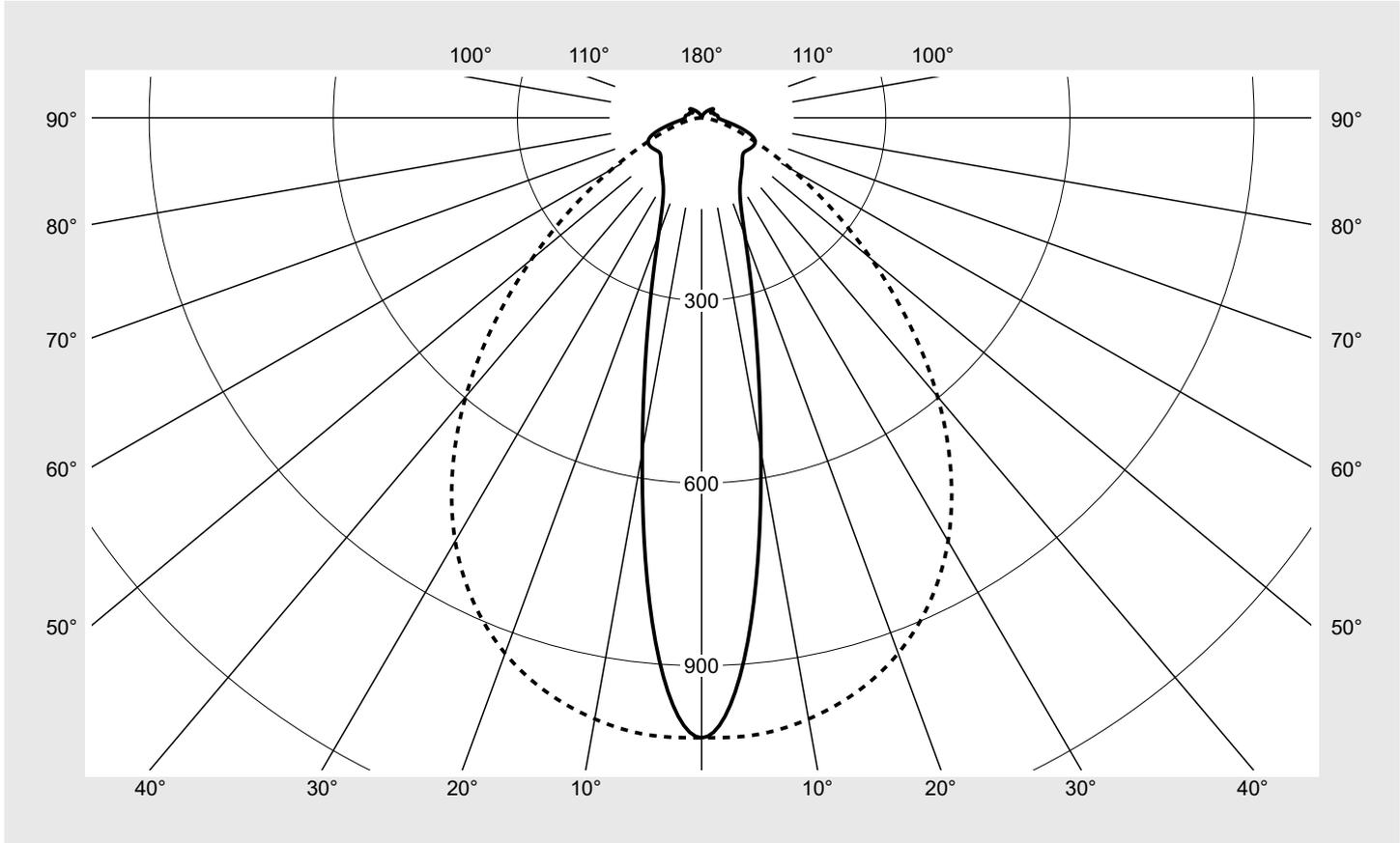


# Photometric test report

<b>Family</b> <b>Modario® 31</b>	<b>Order number: 53BM813DV4DXD2D</b> <b>EAN: 4069025180063</b>	<b>LP number</b> <b>59591_19</b>
	<b>Version</b> diffuser optic, frosted, extremely narrow distribution	<b>serial documentation</b> <b>06.05.2024</b>
	<b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI <b>Setting</b> DC mode (central or group accumulator) initial emergency light level	
	<b>Rated values</b> Net luminous flux = 2080 lm Power consumption = 13.3 W Luminous efficacy = 156.4 lm/W	

Luminous intensity in cd/klm C180-0 C270-90 Imax: 1018 cd/klm



Classifications	
DIN 5040	A 5 1
CIE	N1=62 N2=83 N3=95 N4=93 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	92.8%
$\phi_o$	7.2%

**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 γ	0° 180°	Luminous intensity in cd/klm							Luminous flux in lm/klm	
		15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Phi-zone	Total Phi-zone	
0°	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	6.1	6.1
5°	863.5	865.5	885.2	926.9	972.5	1004.2	1017.2	1017.2	44.5	50.6
10°	557.0	571.1	621.3	716.9	841.6	954.3	1002.7	1002.7	71.2	121.8
15°	330.4	345.0	393.6	498.9	672.6	875.0	976.4	976.4	81.3	203.1
20°	206.3	216.3	249.8	333.3	506.8	775.2	936.2	936.2	82.9	286.0
25°	149.5	154.3	171.2	225.2	368.7	662.8	878.7	878.7	80.9	366.9
30°	125.5	127.4	133.4	162.0	266.2	549.9	803.0	803.0	77.8	444.7
35°	112.6	113.0	113.6	126.4	194.4	443.6	707.7	707.7	73.4	518.1
40°	102.7	102.5	100.9	105.0	146.7	352.3	598.2	598.2	68.0	586.1
45°	93.9	93.4	90.8	90.4	114.5	275.3	478.6	478.6	61.4	647.5
50°	89.5	88.3	84.1	80.2	92.6	211.5	361.2	361.2	54.7	702.3
55°	91.9	90.0	83.1	75.6	78.1	158.7	256.1	256.1	49.4	751.6
60°	95.5	93.6	85.8	74.7	67.8	115.2	168.7	168.7	45.0	796.7
65°	96.1	94.0	85.1	70.0	57.9	81.0	104.2	104.2	40.4	837.1
70°	87.7	84.6	73.6	58.2	46.6	54.7	61.7	61.7	33.7	870.8
75°	66.6	64.7	55.8	44.2	34.3	34.3	34.9	34.9	25.1	895.8
80°	45.0	43.9	38.9	31.0	22.7	19.3	17.8	17.8	16.8	912.7
85°	31.6	30.7	28.4	21.9	13.8	9.4	6.9	6.9	11.2	923.9
90°	27.2	26.2	22.9	14.6	8.5	3.8	0.6	0.6	8.2	932.1
95°	26.6	25.3	20.3	12.9	8.9	4.2	0.7	0.7	7.8	939.9
100°	25.2	23.4	18.5	13.8	10.2	5.1	0.7	0.7	7.5	947.4
105°	21.7	20.9	18.5	15.3	11.2	5.6	0.7	0.7	7.3	954.7
110°	21.5	20.8	18.3	14.7	13.6	5.3	0.7	0.7	7.2	961.9
115°	18.6	17.5	16.2	18.7	13.7	4.5	0.8	0.8	6.6	968.5
120°	17.4	17.9	21.4	21.9	11.5	3.8	0.8	0.8	6.8	975.3
125°	23.0	23.5	23.9	18.0	9.5	3.5	0.9	0.9	6.8	982.1
130°	22.8	21.9	19.4	14.0	7.3	3.3	1.1	1.1	5.5	987.5
135°	18.6	17.4	15.0	10.9	5.5	3.1	1.2	1.2	4.0	991.5
140°	14.9	13.8	11.8	8.1	4.5	2.9	1.3	1.3	2.9	994.4
145°	11.8	10.9	8.9	6.0	4.0	2.6	1.4	1.4	2.0	996.4
150°	8.7	8.0	6.5	4.8	3.6	2.2	1.4	1.4	1.4	997.8
155°	6.2	5.8	5.2	4.1	3.2	1.8	1.4	1.4	0.9	998.7
160°	5.1	4.8	4.0	3.4	2.7	1.6	1.4	1.4	0.6	999.3
165°	4.0	3.9	3.1	2.8	2.0	1.5	1.4	1.4	0.4	999.7
170°	3.1	2.7	2.2	1.9	1.6	1.5	1.4	1.4	0.2	999.9
175°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.1	1000.0
180°	1.5	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	13.3	14.8	13.7	15.1	15.5	18.3	19.8	18.6	20.1	20.4
	3H	16.1	17.5	16.5	17.8	18.2	19.1	20.4	19.5	20.8	21.1
	4H	17.1	18.4	17.5	18.7	19.1	19.3	20.6	19.7	20.9	21.3
	6H	17.7	19.0	18.1	19.3	19.7	19.5	20.6	19.9	21.0	21.4
	8H	18.0	19.2	18.5	19.5	20.0	19.5	20.6	20.0	21.0	21.4
	12H	18.2	19.3	18.6	19.7	20.1	19.6	20.5	20.0	20.9	21.3
4H	2H	14.2	15.4	14.6	15.8	16.1	18.3	19.6	18.7	20.0	20.3
	3H	17.0	18.1	17.5	18.5	18.9	19.2	20.3	19.6	20.7	21.1
	4H	18.1	19.1	18.6	19.5	20.0	19.5	20.5	19.9	20.9	21.3
	6H	18.9	19.8	19.4	20.2	20.7	19.7	20.6	20.2	21.0	21.5
	8H	19.3	20.0	19.7	20.5	21.0	19.8	20.6	20.3	21.0	21.5
	12H	19.5	20.2	20.0	20.7	21.2	19.8	20.5	20.3	21.0	21.5
8H	4H	18.4	19.2	18.9	19.6	20.1	19.6	20.4	20.1	20.9	21.3
	6H	19.4	20.0	19.9	20.5	21.0	19.9	20.6	20.4	21.0	21.5
	8H	19.7	20.3	20.2	20.8	21.3	20.0	20.6	20.5	21.1	21.6
	12H	20.1	20.6	20.6	21.1	21.7	20.1	20.6	20.6	21.1	21.6
12H	4H	18.4	19.1	18.9	19.6	20.0	19.6	20.4	20.1	20.8	21.3
	6H	19.4	20.0	19.9	20.4	21.0	19.9	20.5	20.4	21.0	21.5
	8H	19.8	20.3	20.3	20.8	21.4	20.1	20.6	20.6	21.1	21.6

<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° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		1871.7	1877.8	1872.9	1943.8	2608.4	6735.0	12717.8	
50°		1871.8	1865.5	1829.7	1829.8	2259.4	5606.8	10556.9	
55°		2040.0	2018.9	1927.2	1853.2	2066.0	4629.8	8388.4	
60°		2275.7	2258.5	2149.8	1993.9	1976.9	3767.5	6341.3	
65°		2491.5	2471.7	2336.8	2068.1	1894.8	3040.6	4634.3	
70°		2515.3	2464.8	2255.4	1939.1	1756.7	2430.1	3391.0	
75°		2155.4	2132.6	1951.6	1706.2	1535.0	1882.9	2534.7	
80°		1683.8	1679.0	1597.1	1437.0	1263.3	1404.0	1920.8	
85°		1417.7	1413.9	1423.7	1277.4	1023.7	1018.6	1488.0	

**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**

