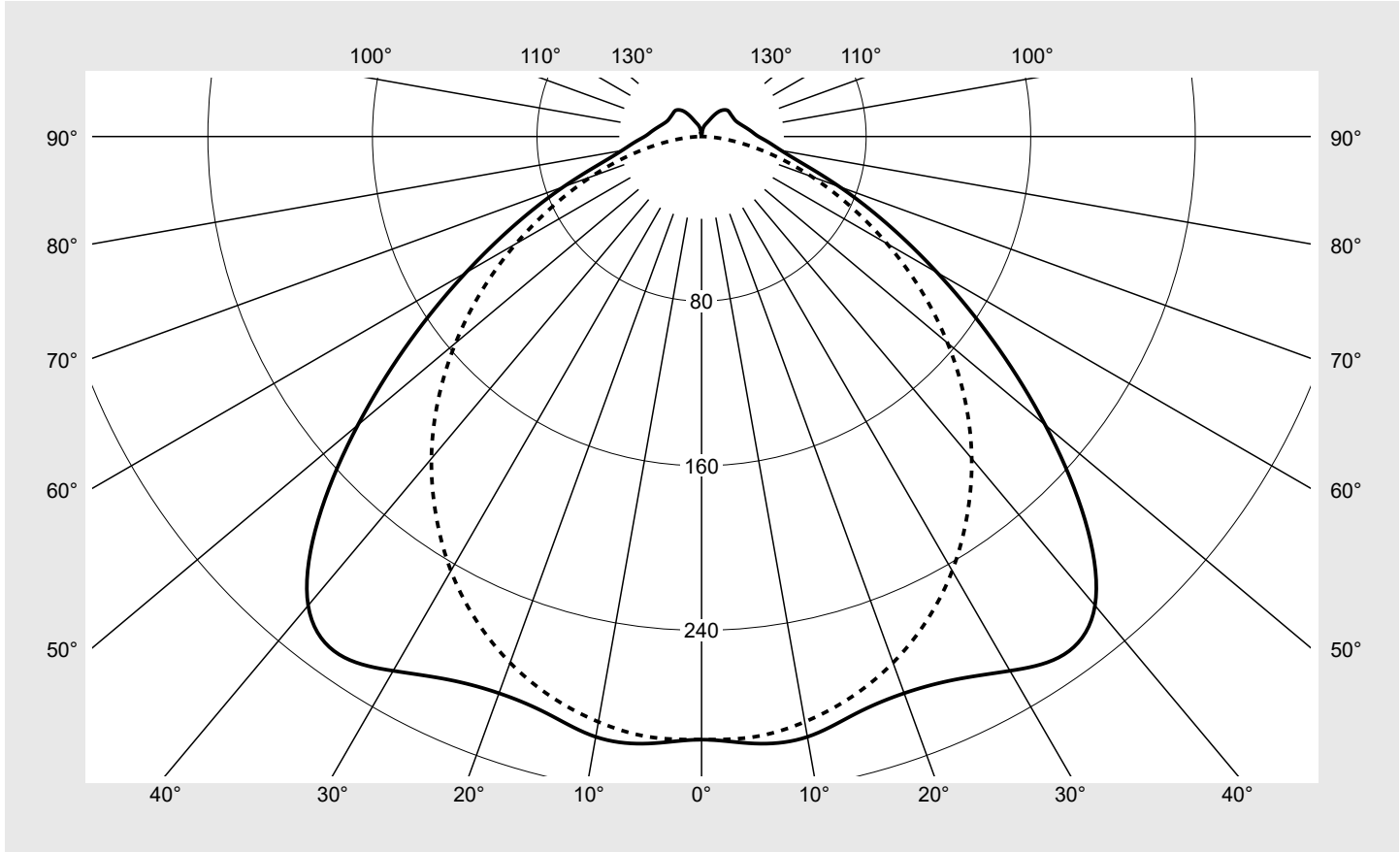


# Photometric test report

<b>Family</b> Modario® 31	<b>Order number: 53BM812DU4GXC2D</b> <b>EAN: 4069025134578</b>	<b>LP number</b> 59594_45
<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>Setting</b>	AC-mode	
<b>Rated values</b>	Net luminous flux = 16290 lm Power consumption = 92.1 W Luminous efficacy = 176.9 lm/W	



**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 307 cd/klm**



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

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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°	Phi-zone	Total Phi-zone
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

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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	22.9	24.6	23.3	24.9	25.2	22.7	24.4	23.1	24.7	25.0
	3H	23.8	25.3	24.1	25.6	26.0	23.8	25.4	24.2	25.7	26.0
	4H	24.1	25.5	24.5	25.9	26.2	24.2	25.7	24.6	26.0	26.4
	6H	24.4	25.7	24.8	26.1	26.4	24.5	25.8	24.9	26.2	26.6
	8H	24.6	25.8	25.0	26.2	26.6	24.6	25.8	25.0	26.2	26.6
	12H	24.7	25.9	25.1	26.3	26.7	24.6	25.8	25.0	26.2	26.6
4H	2H	23.6	25.0	24.0	25.4	25.7	23.4	24.9	23.8	25.2	25.6
	3H	24.6	25.8	25.0	26.2	26.6	24.8	26.0	25.2	26.4	26.8
	4H	25.0	26.1	25.4	26.5	26.9	25.3	26.4	25.7	26.8	27.2
	6H	25.4	26.3	25.8	26.7	27.2	25.6	26.6	26.1	27.0	27.5
	8H	25.6	26.4	26.0	26.9	27.4	25.7	26.6	26.2	27.1	27.6
	12H	25.8	26.6	26.3	27.0	27.5	25.8	26.6	26.3	27.1	27.6
8H	4H	25.2	26.1	25.7	26.6	27.0	25.5	26.4	26.0	26.8	27.3
	6H	25.7	26.5	26.2	26.9	27.4	26.0	26.7	26.5	27.2	27.7
	8H	26.0	26.7	26.5	27.2	27.7	26.2	26.8	26.7	27.3	27.8
	12H	26.4	26.9	26.9	27.4	27.9	26.3	26.9	26.8	27.4	27.9
12H	4H	25.3	26.1	25.7	26.5	27.0	25.6	26.3	26.0	26.8	27.3
	6H	25.8	26.5	26.3	26.9	27.5	26.1	26.7	26.6	27.2	27.7
	8H	26.1	26.7	26.7	27.2	27.7	26.3	26.9	26.8	27.3	27.9

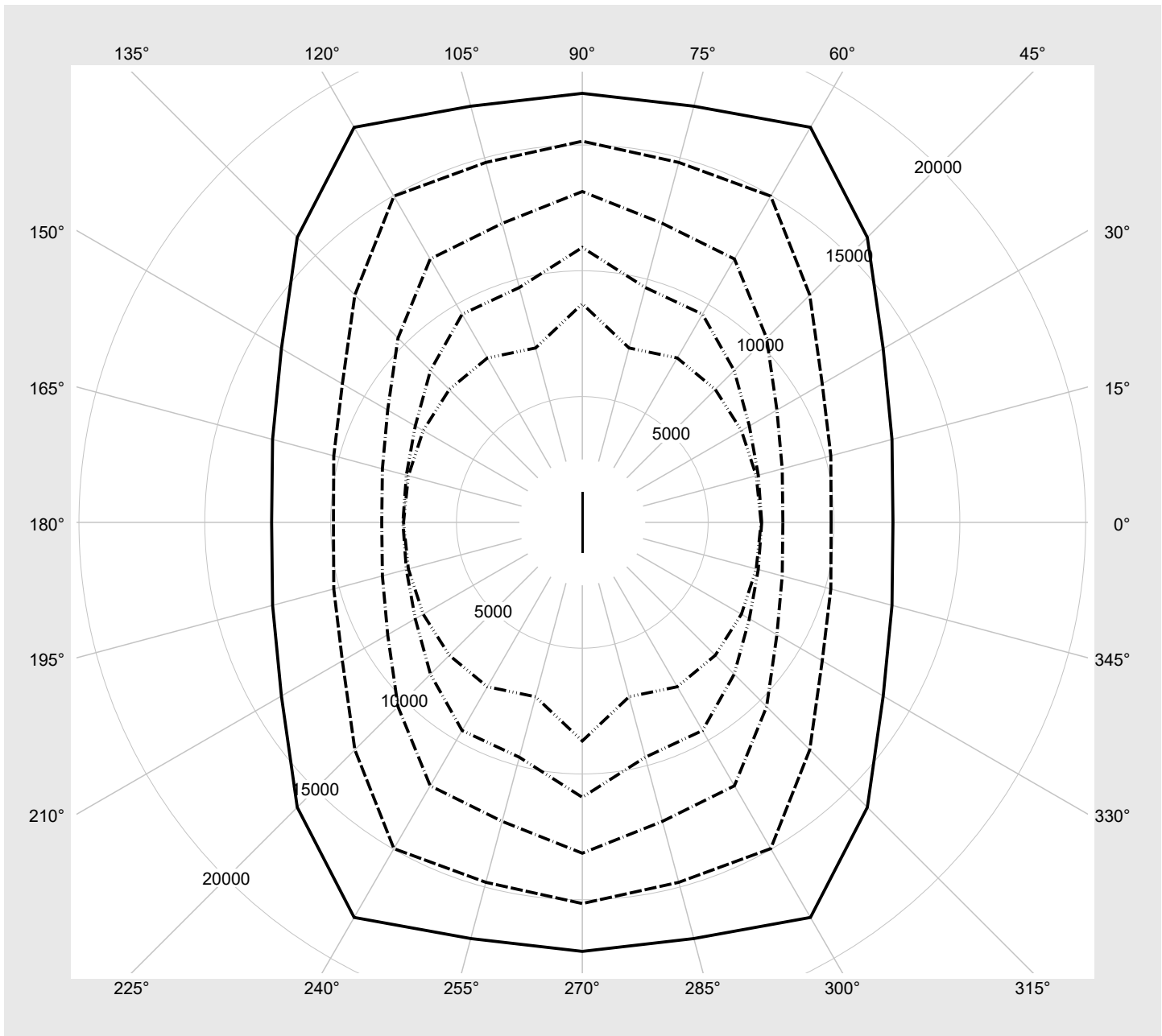
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 2392</b>	<b>H(C0) = 25</b>	<b>H(C180) = 25</b>
			<b>B = 75</b>	<b>H(C90) = 0</b>	<b>H(C270) = 0</b>

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°		25389.9	26056.3	26776.3	26332.1	24417.3	22959.4	23258.7	
50°		22048.9	22814.5	24384.4	25482.9	24142.7	21997.3	22051.9	
55°		18541.3	19222.5	20948.9	23147.4	23151.6	20793.4	20618.7	
60°		15232.6	15769.1	17223.5	19717.1	21051.4	19175.2	18913.7	
65°		12344.5	12739.7	13805.3	16017.1	18131.1	17124.9	17051.9	
70°		9887.7	10223.2	11008.4	12781.0	14972.8	14810.8	15149.6	
75°		7969.2	8223.4	8929.0	10357.9	12089.2	12302.8	13149.3	
80°		7128.1	7238.6	7664.0	8534.0	9552.8	9664.2	10926.2	
85°		7103.4	7154.4	7299.7	7472.1	7544.3	7176.1	8687.9	

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



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<b>Dimming levels table</b>	environmental temperature: 25°C	<b>sITeco</b>
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	----	----	----	----
100	253	254	16233	91.8
95	240	252	15481	87.2
90	226	250	14659	82.6
85	212	247	13828	77.9
80	199	245	13045	73.6
75	185	242	12189	68.8
70	172	240	11387	64.4
65	159	237	10576	59.8
60	146	234	9757	55.2
55	134	231	8992	50.9
50	121	227	8154	46.3
45	108	223	7308	41.5
40	96	218	6520	37.1
35	84	213	5725	32.6
30	71	207	4856	27.6
25	59	201	4042	23.3
20	47	192	3227	19.0
15	36	182	2474	14.9
10	24	168	1647	10.5
5	12	142	814	6.0
2	4	102	256	2.9