
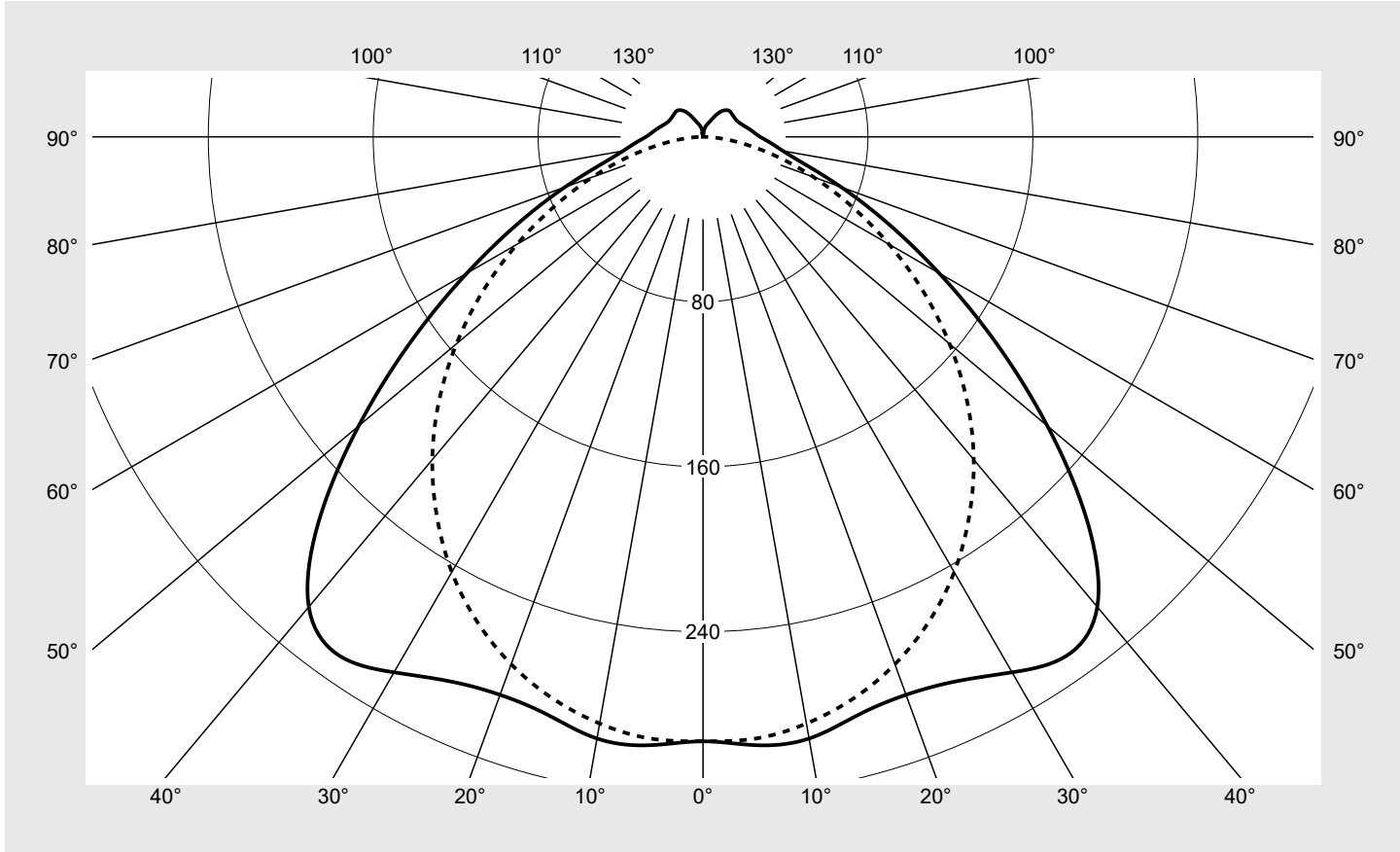


Photometric test report

Family Modario® 31 	Order number: 53BM812DU4HXD2 EAN: 4069025134608	LP number 59594_9
	Version diffuser optic, frosted, wide distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 17250 lm Power consumption = 92.2 W Luminous efficacy = 187.1 lm/W	serial documentation 02.05.2024

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	
η_{LB}	100.0%
ϕ_u	92.6%
ϕ_o	7.4%

Measurement conditions
 DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		Maximum luminous intensity
		siteco

C-planes γ	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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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	23.1	24.8	23.5	25.1	25.4	22.9	24.6	23.3	24.9	25.2
	3H	24.0	25.5	24.3	25.8	26.2	24.0	25.6	24.4	25.9	26.2
	4H	24.3	25.7	24.7	26.1	26.4	24.4	25.9	24.8	26.2	26.6
	6H	24.6	25.9	25.0	26.3	26.6	24.7	26.0	25.1	26.4	26.8
	8H	24.8	26.0	25.2	26.4	26.8	24.8	26.0	25.2	26.4	26.8
	12H	24.9	26.1	25.3	26.5	26.9	24.8	26.0	25.2	26.4	26.8
4H	2H	23.8	25.2	24.1	25.6	25.9	23.6	25.1	24.0	25.4	25.8
	3H	24.8	26.0	25.2	26.4	26.8	25.0	26.2	25.4	26.6	27.0
	4H	25.2	26.3	25.6	26.7	27.1	25.5	26.6	25.9	27.0	27.4
	6H	25.6	26.5	26.0	26.9	27.4	25.8	26.8	26.3	27.2	27.7
	8H	25.8	26.6	26.2	27.1	27.6	25.9	26.8	26.4	27.3	27.7
	12H	26.0	26.8	26.5	27.2	27.7	26.0	26.8	26.5	27.3	27.8
8H	4H	25.4	26.3	25.9	26.8	27.2	25.7	26.6	26.2	27.0	27.5
	6H	25.9	26.7	26.4	27.1	27.6	26.2	26.9	26.7	27.4	27.9
	8H	26.2	26.9	26.7	27.4	27.9	26.4	27.0	26.9	27.5	28.0
	12H	26.6	27.1	27.1	27.6	28.1	26.5	27.1	27.0	27.6	28.1
12H	4H	25.5	26.3	25.9	26.7	27.2	25.8	26.5	26.2	27.0	27.5
	6H	26.0	26.7	26.5	27.1	27.7	26.3	26.9	26.8	27.4	27.9
	8H	26.3	26.9	26.9	27.4	27.9	26.5	27.1	27.0	27.5	28.1

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

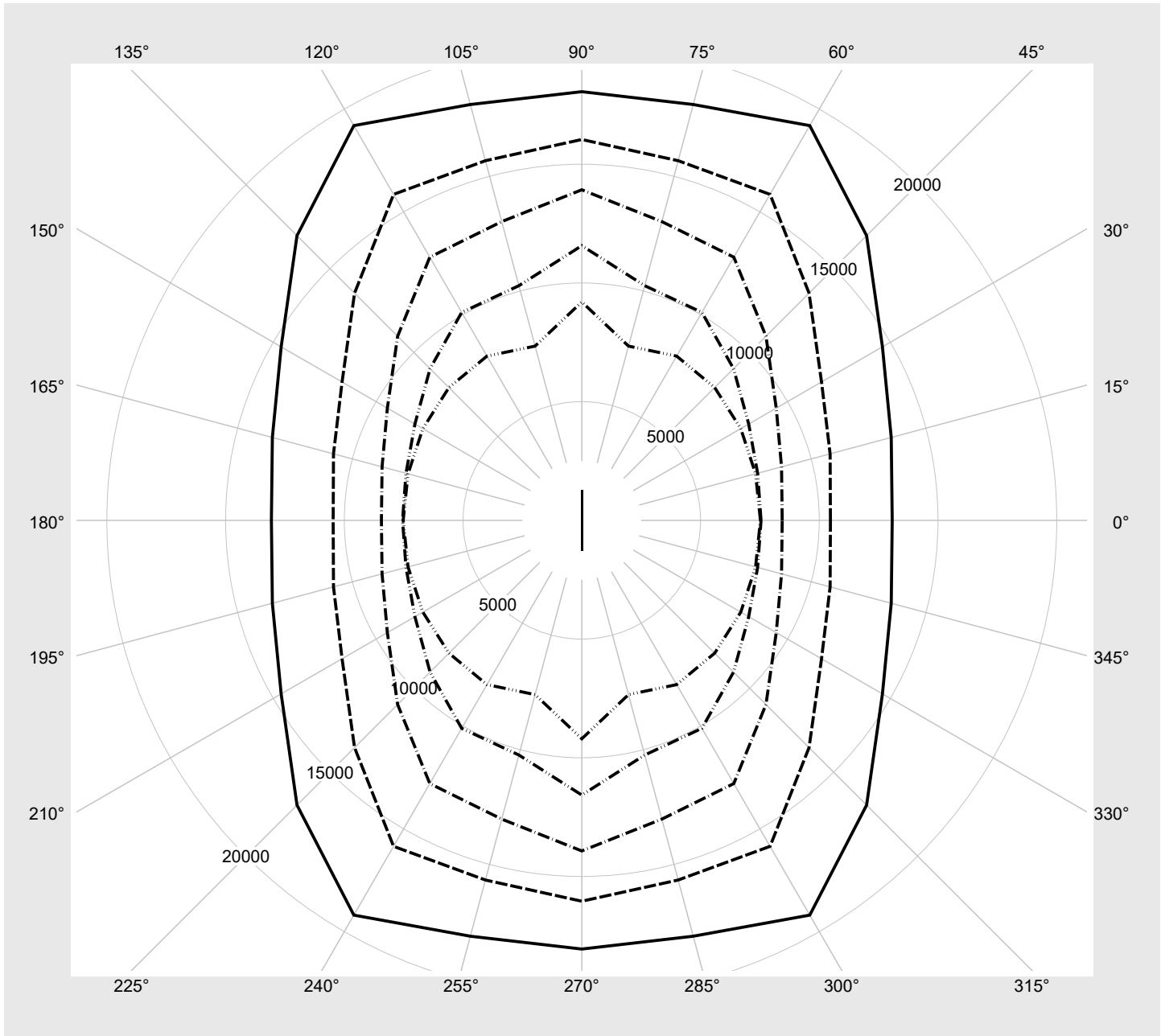
C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		26886.2	27591.8	28354.3	27883.9	25856.2	24312.4	24629.3	
50°		23348.3	24159.0	25821.4	26984.6	25565.5	23293.6	23351.4	
55°		19634.0	20355.3	22183.5	24511.5	24516.0	22018.8	21833.8	
60°		16130.3	16698.4	18238.5	20879.0	22292.0	20305.2	20028.3	
65°		13072.0	13490.5	14618.8	16961.1	19199.6	18134.2	18056.8	
70°		10470.4	10825.7	11657.1	13534.2	15855.2	15683.6	16042.4	
75°		8438.9	8708.0	9455.2	10968.3	12801.7	13027.8	13924.2	
80°		7548.2	7665.2	8115.6	9037.0	10115.7	10233.7	11570.1	
85°		7522.0	7576.0	7729.9	7912.4	7988.9	7599.0	9199.9	

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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85°

siteco



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Dimming levels table	environmental temperature: 25°C	sITeco
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	----	----	----	----
99	251	254	17056	91.1
95	241	252	16408	87.5
90	227	250	15497	83.0
85	214	248	14644	78.7
80	201	245	13787	74.4
75	188	243	12925	70.0
70	175	240	12055	65.6
65	162	238	11182	61.0
60	150	235	10375	56.8
55	137	231	9495	52.2
50	124	228	8609	47.6
45	112	224	7787	43.2
40	99	219	6893	38.4
35	87	215	6065	34.0
30	74	209	5162	29.1
25	62	202	4326	24.5
20	49	194	3416	20.0
15	37	183	2573	15.5
10	25	169	1726	11.0
5	13	145	876	6.4
2	5	110	308	3.4