
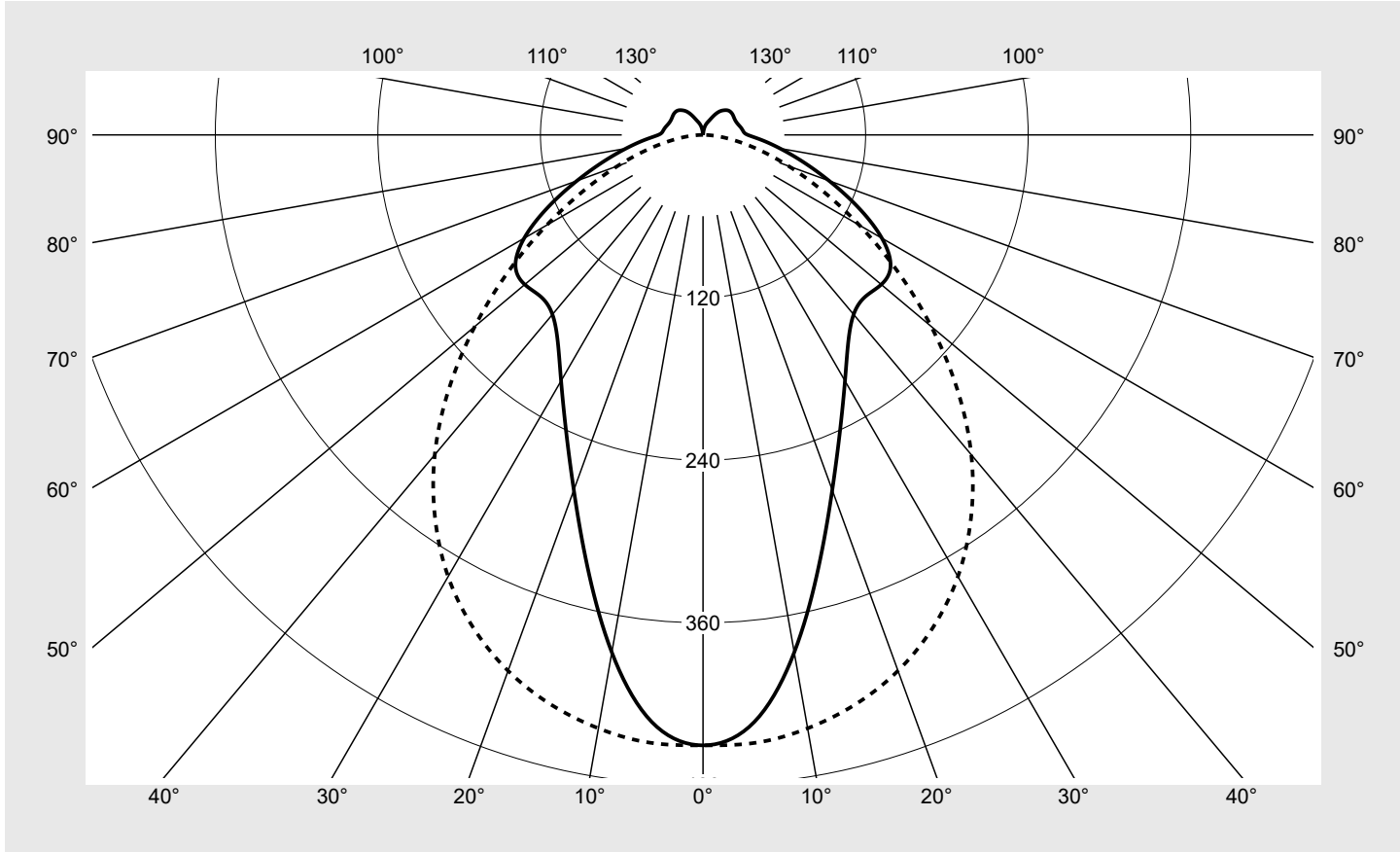


Photometric test report

Family Modario® 31 	Order number: 53BM8117U4L3D2 EAN: 4069025227102	LP number 59593_43
	Version diffuser optic, frosted, narrow distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG Rated values Net luminous flux = 23600 lm Power consumption = 126.0 W Luminous efficacy = 187.3 lm/W	serial documentation 30.08.2024

Luminous intensity in cd/klm **C180-0** **C270-90** **Imax: 450 cd/klm**



Classifications	
DIN 5040	A 4 1
CIE	N1=50 N2=78 N3=94 N4=90 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	90.4%
ϕ_o	9.6%

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°	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°	450.4	450.4	450.4	450.4	450.4	450.4	450.4	2.7	2.7
5°	434.8	434.4	434.2	439.8	445.7	448.7	450.2	21.1	23.8
10°	387.7	390.2	396.4	411.2	428.2	439.8	444.6	39.4	63.1
15°	329.8	334.4	345.9	370.2	400.2	424.7	434.9	53.4	116.5
20°	278.9	283.9	296.1	324.2	364.7	403.3	420.8	63.2	179.7
25°	239.6	243.9	253.6	279.8	325.0	376.1	401.3	69.5	249.1
30°	209.6	212.8	219.1	240.3	283.9	343.6	376.3	72.7	321.9
35°	186.9	188.8	191.5	205.8	243.8	306.6	344.9	73.5	395.4
40°	173.0	173.1	171.1	177.5	207.0	267.1	308.1	72.6	468.0
45°	169.1	166.9	158.6	155.4	174.1	225.8	265.4	70.9	538.9
50°	171.8	167.4	153.3	140.0	146.6	186.3	219.9	69.2	608.2
55°	169.0	164.3	148.2	128.3	123.8	150.1	175.1	66.4	674.5
60°	152.5	148.9	135.5	115.0	103.6	117.6	133.2	60.4	734.9
65°	126.3	124.1	114.5	97.6	84.4	89.2	96.9	51.5	786.4
70°	99.0	97.7	90.6	78.2	65.9	64.8	67.1	41.2	827.6
75°	76.1	75.0	69.7	60.3	49.1	44.1	43.1	31.6	859.2
80°	57.7	56.8	53.2	44.9	34.6	27.3	24.1	23.2	882.4
85°	43.5	42.6	39.5	32.5	22.9	14.7	10.1	16.3	898.6
90°	33.0	32.1	28.8	22.5	14.4	6.3	0.8	11.1	909.7
95°	29.9	28.9	25.8	20.4	13.4	6.1	0.9	10.0	919.7
100°	28.7	27.7	24.5	19.6	13.4	6.3	0.9	9.6	929.3
105°	27.4	26.4	23.6	19.5	13.7	6.7	0.8	9.2	938.4
110°	26.5	25.4	23.3	19.7	14.2	7.2	0.7	8.9	947.3
115°	26.1	25.1	23.5	20.2	14.6	6.8	0.8	8.6	955.9
120°	26.2	25.3	23.9	20.5	14.8	6.4	0.8	8.3	964.2
125°	26.5	25.6	24.0	20.4	14.4	6.3	0.8	7.8	972.0
130°	26.5	25.4	23.5	19.6	12.9	6.2	0.9	7.1	979.0
135°	25.6	24.4	22.2	18.2	10.9	5.6	1.1	6.1	985.2
140°	23.7	22.4	20.1	15.4	9.4	4.6	1.1	4.9	990.1
145°	21.0	19.8	17.0	12.1	7.6	3.5	1.3	3.7	993.8
150°	16.9	15.5	12.9	9.4	6.3	2.5	1.3	2.5	996.4
155°	12.6	11.7	10.1	7.4	5.2	1.9	1.4	1.7	998.0
160°	9.9	9.3	7.5	5.7	3.8	1.6	1.4	1.0	999.1
165°	7.7	7.3	5.1	4.1	2.4	1.5	1.4	0.6	999.7
170°	4.8	3.7	2.7	2.3	1.6	1.5	1.5	0.2	999.9
175°	1.6	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	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	23.4	25.1	23.7	25.4	25.7	23.9	25.6	24.3	25.9	26.2
	3H	25.1	26.7	25.5	27.0	27.3	25.1	26.6	25.5	27.0	27.3
	4H	25.8	27.3	26.2	27.6	28.0	25.6	27.0	26.0	27.3	27.7
	6H	26.4	27.7	26.8	28.1	28.5	25.9	27.2	26.3	27.6	28.0
	8H	26.7	27.9	27.1	28.3	28.7	26.0	27.2	26.5	27.6	28.0
	12H	26.9	28.1	27.4	28.5	28.9	26.1	27.2	26.5	27.6	28.1
4H	2H	24.0	25.4	24.4	25.8	26.1	24.4	25.8	24.8	26.1	26.5
	3H	26.0	27.2	26.4	27.5	28.0	25.7	27.0	26.2	27.3	27.8
	4H	26.8	27.9	27.2	28.3	28.7	26.3	27.4	26.7	27.8	28.2
	6H	27.5	28.5	28.0	28.9	29.4	26.7	27.7	27.2	28.1	28.6
	8H	27.9	28.7	28.3	29.2	29.6	26.9	27.8	27.3	28.2	28.7
	12H	28.2	29.0	28.7	29.4	29.9	27.0	27.8	27.5	28.2	28.7
8H	4H	27.1	27.9	27.5	28.4	28.9	26.6	27.5	27.1	28.0	28.4
	6H	28.0	28.7	28.4	29.2	29.7	27.2	27.9	27.7	28.4	28.9
	8H	28.4	29.1	28.9	29.5	30.1	27.4	28.0	27.9	28.5	29.0
	12H	28.9	29.4	29.4	29.9	30.4	27.6	28.1	28.1	28.6	29.1
12H	4H	27.1	27.9	27.6	28.3	28.8	26.7	27.5	27.2	27.9	28.4
	6H	28.0	28.7	28.5	29.2	29.7	27.3	27.9	27.8	28.4	28.9
	8H	28.5	29.1	29.0	29.6	30.1	27.6	28.1	28.1	28.6	29.1

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°		23590.7	23480.5	22896.1	23401.4	27757.7	38676.3	49368.7	
50°		25157.5	24763.6	23338.8	22369.9	25026.2	34579.3	45001.8	
55°		26256.9	25814.9	24074.7	22006.7	22941.2	30648.1	40152.5	
60°		25428.7	25157.7	23761.9	21488.5	21152.1	26907.8	35054.0	
65°		22922.6	22854.4	22006.6	20181.4	19361.3	23428.5	30168.6	
70°		19883.3	19935.4	19425.9	18258.2	17382.3	20142.7	25823.7	
75°		17228.0	17322.1	17058.8	16299.2	15381.2	16973.5	21887.1	
80°		15133.3	15230.3	15275.3	14547.4	13475.8	13909.8	18222.4	
85°		13643.8	13743.7	13881.2	13265.2	11876.9	11192.7	15178.1	

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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

