
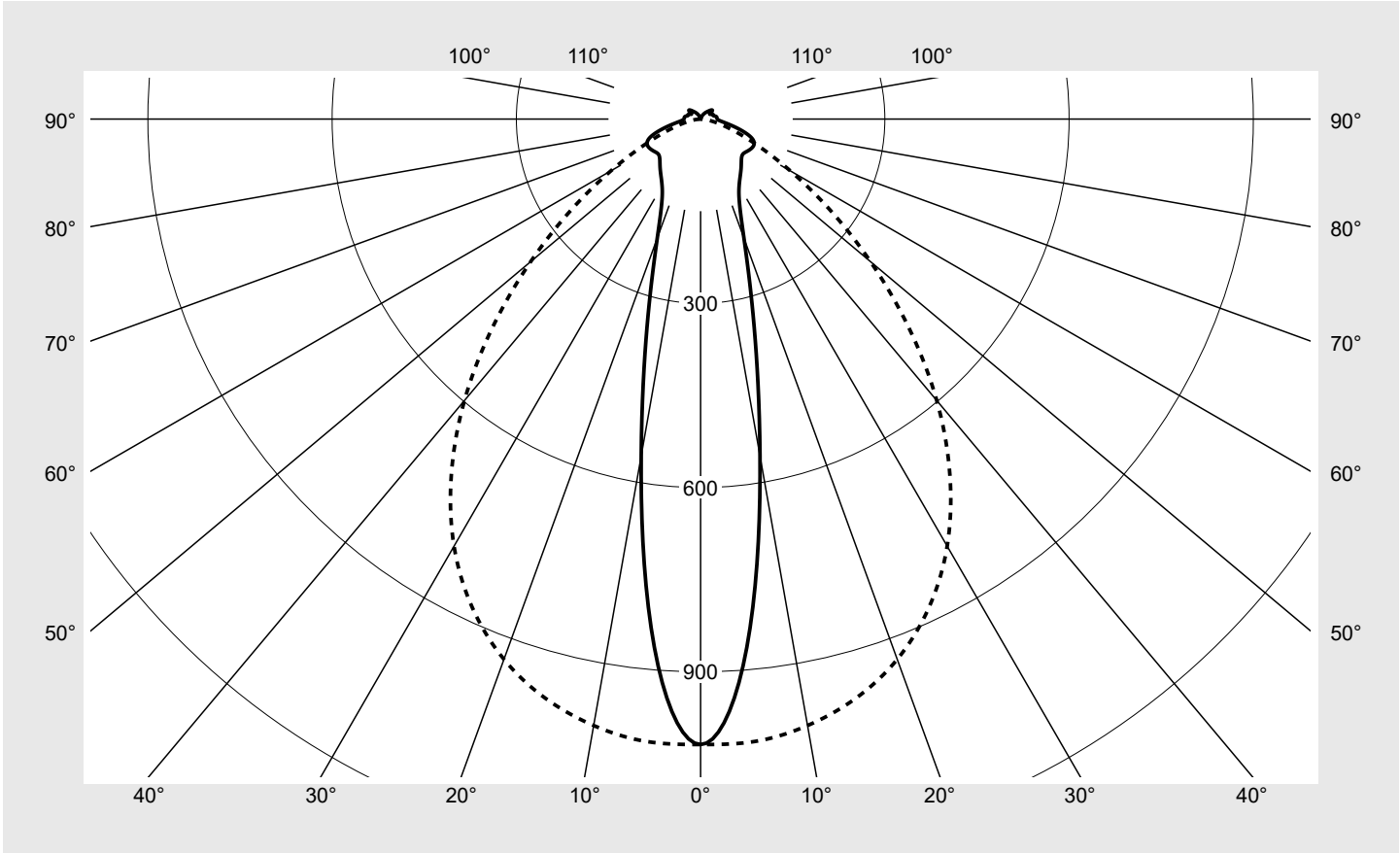


Photometric test report

Family Modario® 31	Order number: 53BM8137U4L3D2 EAN: 4069025227188	LP number 59591_40
	Version	diffuser optic, frosted, extremely narrow distribution
	Lamps	LED 4000 K CRI ≥ 80
	Controlgear	ECG
	Rated values	Net luminous flux = 23060 lm Power consumption = 126.0 W Luminous efficacy = 183 lm/W
		serial documentation 30.08.2024
		

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	
η_{LB}	100.0%
ϕ_u	92.8%
ϕ_o	7.2%

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°	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	44.5	50.6
10°	557.0	571.1	621.3	716.9	841.6	954.3	1002.7	71.2	121.8
15°	330.4	345.0	393.6	498.9	672.6	875.0	976.4	81.3	203.1
20°	206.3	216.3	249.8	333.3	506.8	775.2	936.2	82.9	286.0
25°	149.5	154.3	171.2	225.2	368.7	662.8	878.7	80.9	366.9
30°	125.5	127.4	133.4	162.0	266.2	549.9	803.0	77.8	444.7
35°	112.6	113.0	113.6	126.4	194.4	443.6	707.7	73.4	518.1
40°	102.7	102.5	100.9	105.0	146.7	352.3	598.2	68.0	586.1
45°	93.9	93.4	90.8	90.4	114.5	275.3	478.6	61.4	647.5
50°	89.5	88.3	84.1	80.2	92.6	211.5	361.2	54.7	702.3
55°	91.9	90.0	83.1	75.6	78.1	158.7	256.1	49.4	751.6
60°	95.5	93.6	85.8	74.7	67.8	115.2	168.7	45.0	796.7
65°	96.1	94.0	85.1	70.0	57.9	81.0	104.2	40.4	837.1
70°	87.7	84.6	73.6	58.2	46.6	54.7	61.7	33.7	870.8
75°	66.6	64.7	55.8	44.2	34.3	34.3	34.9	25.1	895.8
80°	45.0	43.9	38.9	31.0	22.7	19.3	17.8	16.8	912.7
85°	31.6	30.7	28.4	21.9	13.8	9.4	6.9	11.2	923.9
90°	27.2	26.2	22.9	14.6	8.5	3.8	0.6	8.2	932.1
95°	26.6	25.3	20.3	12.9	8.9	4.2	0.7	7.8	939.9
100°	25.2	23.4	18.5	13.8	10.2	5.1	0.7	7.5	947.4
105°	21.7	20.9	18.5	15.3	11.2	5.6	0.7	7.3	954.7
110°	21.5	20.8	18.3	14.7	13.6	5.3	0.7	7.2	961.9
115°	18.6	17.5	16.2	18.7	13.7	4.5	0.8	6.6	968.5
120°	17.4	17.9	21.4	21.9	11.5	3.8	0.8	6.8	975.3
125°	23.0	23.5	23.9	18.0	9.5	3.5	0.9	6.8	982.1
130°	22.8	21.9	19.4	14.0	7.3	3.3	1.1	5.5	987.5
135°	18.6	17.4	15.0	10.9	5.5	3.1	1.2	4.0	991.5
140°	14.9	13.8	11.8	8.1	4.5	2.9	1.3	2.9	994.4
145°	11.8	10.9	8.9	6.0	4.0	2.6	1.4	2.0	996.4
150°	8.7	8.0	6.5	4.8	3.6	2.2	1.4	1.4	997.8
155°	6.2	5.8	5.2	4.1	3.2	1.8	1.4	0.9	998.7
160°	5.1	4.8	4.0	3.4	2.7	1.6	1.4	0.6	999.3
165°	4.0	3.9	3.1	2.8	2.0	1.5	1.4	0.4	999.7
170°	3.1	2.7	2.2	1.9	1.6	1.5	1.4	0.2	999.9
175°	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	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	20.0	21.5	20.3	21.8	22.1	25.0	26.5	25.3	26.8	27.1
	3H	22.8	24.1	23.2	24.5	24.8	25.8	27.1	26.2	27.4	27.8
	4H	23.8	25.1	24.2	25.4	25.8	26.0	27.2	26.4	27.6	28.0
	6H	24.4	25.7	24.8	26.0	26.4	26.1	27.3	26.6	27.6	28.0
	8H	24.7	25.8	25.1	26.2	26.6	26.2	27.3	26.7	27.6	28.0
	12H	24.9	26.0	25.3	26.4	26.8	26.2	27.2	26.7	27.6	28.0
4H	2H	20.9	22.1	21.3	22.4	22.8	25.0	26.3	25.4	26.6	27.0
	3H	23.7	24.8	24.1	25.2	25.6	25.9	27.0	26.3	27.3	27.8
	4H	24.8	25.8	25.3	26.2	26.6	26.2	27.2	26.6	27.6	28.0
	6H	25.6	26.5	26.1	26.9	27.4	26.4	27.2	26.8	27.7	28.1
	8H	25.9	26.7	26.4	27.2	27.6	26.5	27.2	27.0	27.7	28.2
	12H	26.2	26.9	26.7	27.4	27.9	26.5	27.2	27.0	27.7	28.1
8H	4H	25.1	25.8	25.6	26.3	26.8	26.3	27.1	26.8	27.5	28.0
	6H	26.1	26.7	26.5	27.1	27.6	26.6	27.2	27.1	27.7	28.2
	8H	26.4	27.0	26.9	27.5	28.0	26.7	27.3	27.2	27.7	28.3
	12H	26.8	27.3	27.3	27.8	28.3	26.7	27.2	27.3	27.7	28.3
12H	4H	25.1	25.8	25.6	26.2	26.7	26.3	27.0	26.8	27.5	28.0
	6H	26.1	26.6	26.6	27.1	27.6	26.6	27.2	27.1	27.7	28.2
	8H	26.5	27.0	27.0	27.5	28.0	26.7	27.2	27.2	27.7	28.3

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°		12804.5	12845.9	12812.9	13297.7	17844.4	46074.4	87002.7	
50°		12804.9	12761.8	12517.3	12517.9	15456.9	38356.1	72219.9	
55°		13956.0	13811.5	13184.2	12677.5	14133.5	31672.7	57385.1	
60°		15568.3	15450.4	14706.6	13640.3	13523.7	25773.2	43380.8	
65°		17044.2	16908.7	15986.1	14148.2	12962.6	20801.1	31703.4	
70°		17207.1	16861.5	15429.3	13265.3	12017.8	16624.6	23197.8	
75°		14745.5	14589.3	13350.8	11672.4	10501.3	12881.3	17339.6	
80°		11519.2	11485.8	10925.7	9830.6	8642.4	9604.8	13140.6	
85°		9698.6	9672.3	9739.3	8738.6	7003.0	6968.3	10179.3	

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

