
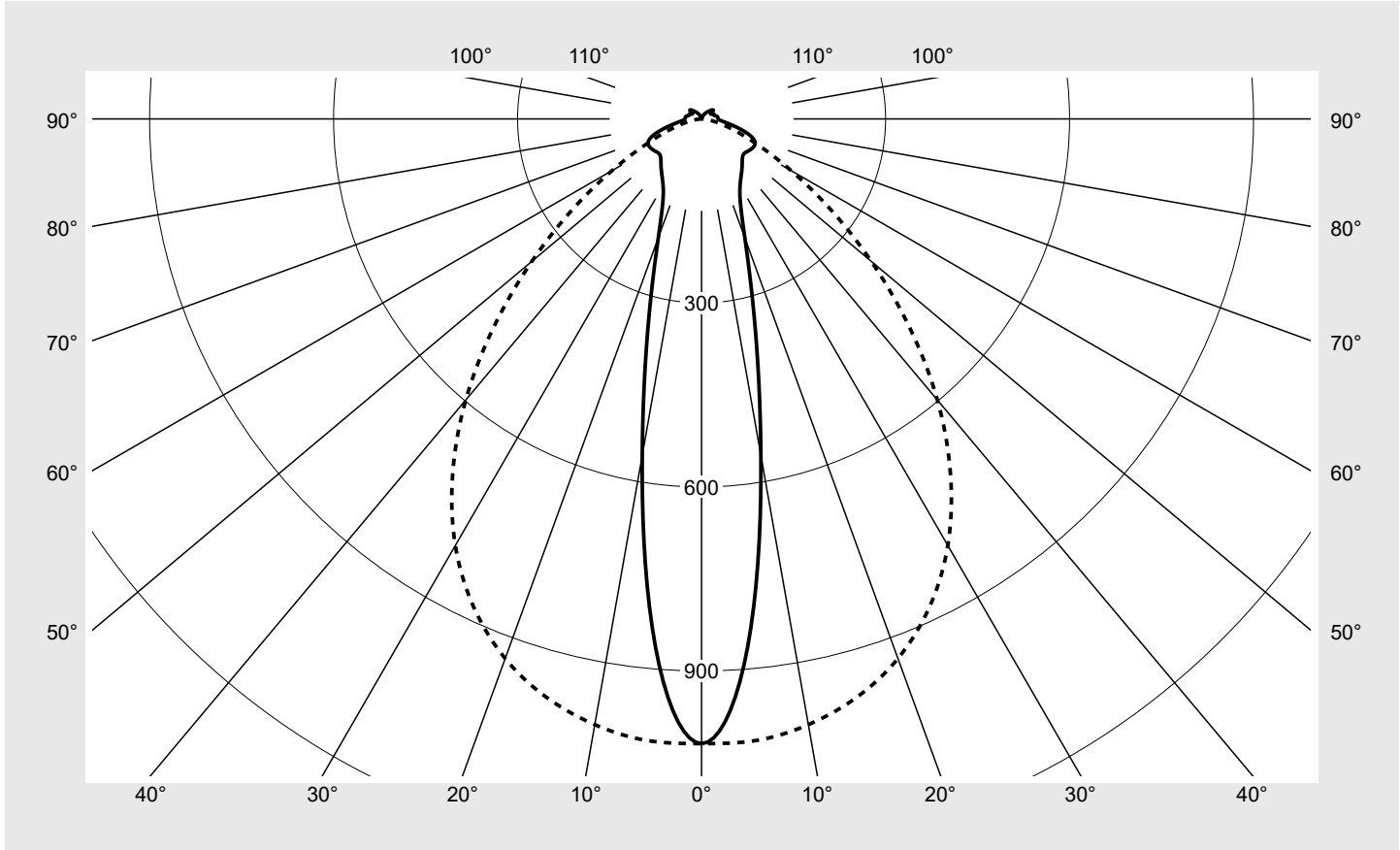


Photometric test report

Family Modario® 31 	Order number: 53BM8137U4F5C2 EAN: 4069025227164	LP number 59591_39
	Version diffuser optic, frosted, extremely narrow distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG Rated values Net luminous flux = 15990 lm Power consumption = 90.4 W Luminous efficacy = 176.9 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
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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	18.7	20.2	19.1	20.5	20.9	23.7	25.2	24.1	25.5	25.9
	3H	21.5	22.9	21.9	23.2	23.6	24.5	25.8	24.9	26.2	26.5
	4H	22.5	23.8	22.9	24.2	24.5	24.7	26.0	25.1	26.3	26.7
	6H	23.1	24.4	23.6	24.7	25.1	24.9	26.0	25.3	26.4	26.8
	8H	23.4	24.6	23.9	25.0	25.4	25.0	26.0	25.4	26.4	26.8
	12H	23.6	24.7	24.1	25.1	25.5	25.0	25.9	25.4	26.3	26.7
4H	2H	19.6	20.8	20.0	21.2	21.5	23.7	25.0	24.1	25.4	25.7
	3H	22.4	23.5	22.9	23.9	24.3	24.6	25.7	25.0	26.1	26.5
	4H	23.6	24.5	24.0	24.9	25.4	24.9	25.9	25.4	26.3	26.7
	6H	24.3	25.2	24.8	25.6	26.1	25.1	26.0	25.6	26.4	26.9
	8H	24.7	25.5	25.1	25.9	26.4	25.2	26.0	25.7	26.4	26.9
	12H	24.9	25.6	25.4	26.1	26.6	25.3	25.9	25.7	26.4	26.9
8H	4H	23.8	24.6	24.3	25.0	25.5	25.0	25.8	25.5	26.3	26.7
	6H	24.8	25.4	25.3	25.9	26.4	25.3	26.0	25.8	26.4	26.9
	8H	25.2	25.7	25.7	26.2	26.7	25.4	26.0	25.9	26.5	27.0
	12H	25.5	26.0	26.0	26.5	27.1	25.5	26.0	26.0	26.5	27.0
12H	4H	23.8	24.5	24.3	25.0	25.5	25.0	25.8	25.5	26.2	26.7
	6H	24.8	25.4	25.3	25.8	26.4	25.3	25.9	25.8	26.4	26.9
	8H	25.2	25.7	25.8	26.2	26.8	25.5	26.0	26.0	26.5	27.0

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°		8878.7	8907.4	8884.6	9220.8	12373.4	31948.4	60328.4	
50°		8879.0	8849.2	8679.6	8680.0	10717.9	26596.4	50077.9	
55°		9677.2	9577.0	9142.1	8790.7	9800.3	21962.1	39791.3	
60°		10795.2	10713.4	10197.7	9458.3	9377.4	17871.4	30080.6	
65°		11818.6	11724.6	11084.9	9810.5	8988.4	14423.7	21983.4	
70°		11931.6	11691.9	10698.8	9198.3	8333.3	11527.6	16085.5	
75°		10224.6	10116.3	9257.6	8093.7	7281.7	8932.0	12023.5	
80°		7987.5	7964.4	7576.0	6816.6	5992.7	6660.0	9111.8	
85°		6725.1	6706.9	6753.3	6059.4	4855.9	4831.9	7058.4	

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

