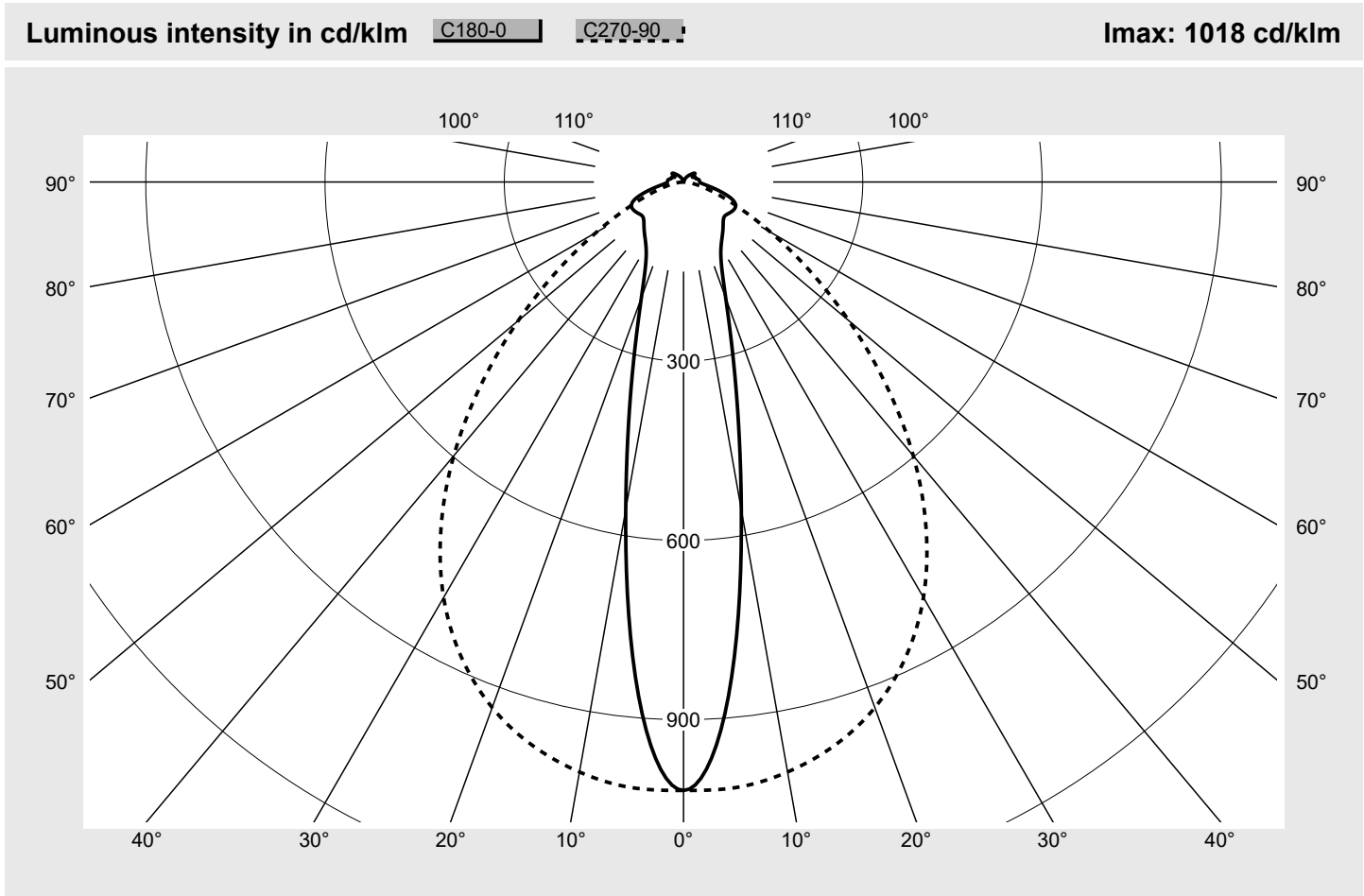


Photometric test report

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
		siteco



Classifications		Luminaire light output ratios	
DIN 5040	A 5 1	η_{LB}	100.0%
CIE	N1=62 N2=83 N3=95	ϕ_u	92.8%
	N4=93 N5=100	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	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
γ	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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Family Modario® 31			Order number: 53BM8137U4F5C2 EAN: 4069025227164							LP number 59591_39	
UGR-Table			Standard room							siteco	
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 B = 75	H(C0) = 25 H(C90) = 0	H(C180) = 25 H(C270) = 0
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°
			Luminance in cd/m²					
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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Family
Modario® 31

Order number: 53BM8137U4F5C2
EAN: 4069025227164

LP number
59591_39

Luminance values in cd/m²

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

siteco

