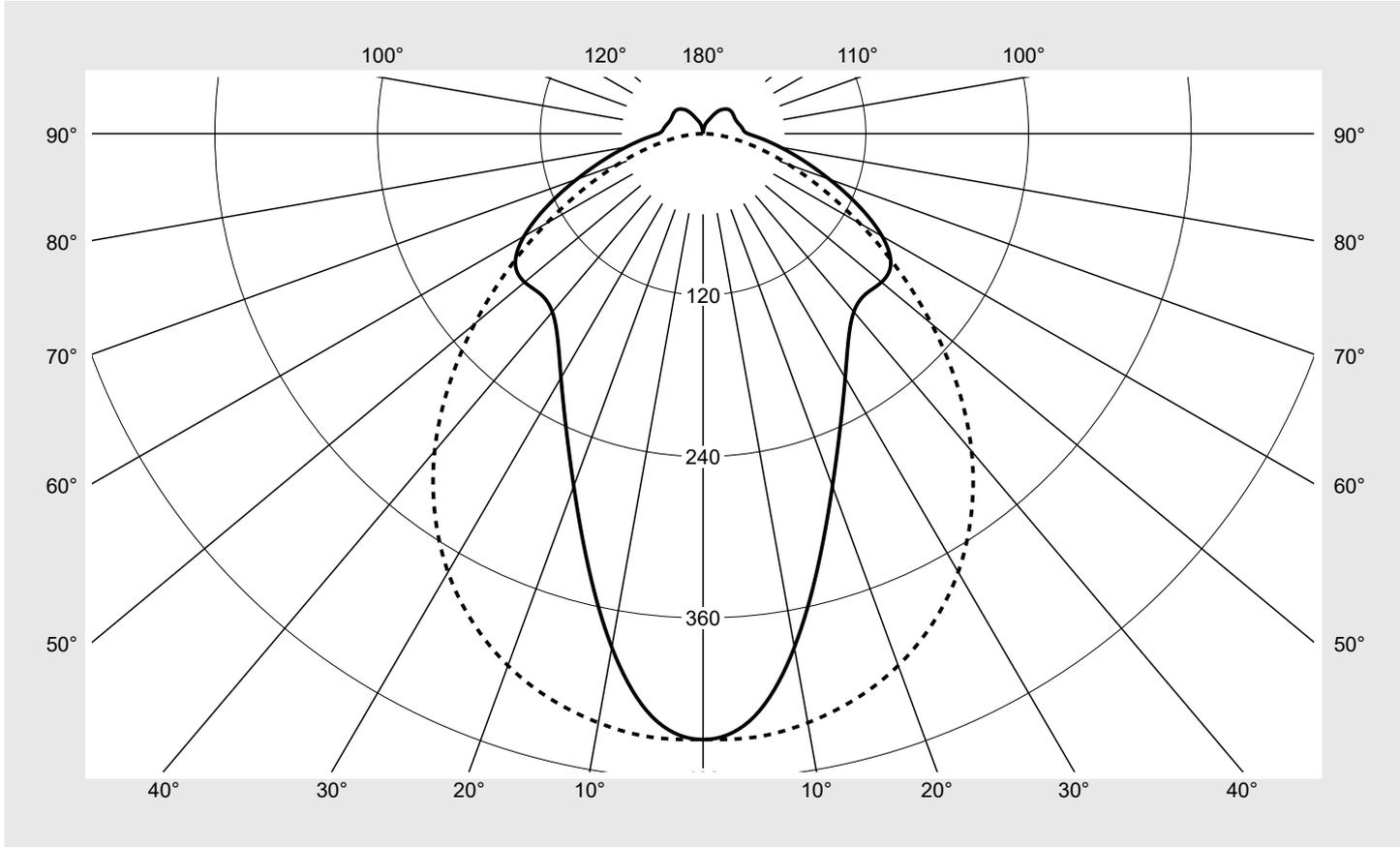


Photometric test report

Family Modario® 31 	Order number: 53BM811MV4CXD2 EAN: 4069025185952	LP number 59593_34
	Version diffuser optic, frosted, narrow distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG Multilumen Rated values Net luminous flux = 12350 lm Power consumption = 64.6 W Luminous efficacy = 191.2 lm/W	serial documentation 16.07.2024

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

Photometric test report

Family Modario® 31	Order number: 53BM811MV4CXD2 EAN: 4069025185952	LP number 59593_34
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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Family Modario® 31	Order number: 53BM811MV4CXD2 EAN: 4069025185952	LP number 59593_34
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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	22.8	24.5	23.2	24.8	25.1	23.3	25.0	23.7	25.3	25.6
	3H	24.6	26.1	25.0	26.4	26.8	24.5	26.1	24.9	26.4	26.7
	4H	25.3	26.7	25.7	27.0	27.4	25.0	26.4	25.4	26.8	27.1
	6H	25.8	27.2	26.3	27.5	27.9	25.3	26.6	25.7	27.0	27.4
	8H	26.1	27.4	26.6	27.7	28.1	25.5	26.7	25.9	27.1	27.5
	12H	26.4	27.5	26.8	27.9	28.3	25.5	26.7	26.0	27.1	27.5
4H	2H	23.4	24.8	23.8	25.2	25.6	23.8	25.2	24.2	25.6	25.9
	3H	25.4	26.6	25.8	27.0	27.4	25.2	26.4	25.6	26.8	27.2
	4H	26.2	27.3	26.6	27.7	28.1	25.7	26.8	26.2	27.2	27.7
	6H	26.9	27.9	27.4	28.3	28.8	26.2	27.1	26.6	27.5	28.0
	8H	27.3	28.2	27.7	28.6	29.1	26.3	27.2	26.8	27.6	28.1
	12H	27.6	28.4	28.1	28.8	29.3	26.4	27.2	26.9	27.7	28.2
8H	4H	26.5	27.4	26.9	27.8	28.3	26.1	26.9	26.5	27.4	27.8
	6H	27.4	28.1	27.9	28.6	29.1	26.6	27.3	27.1	27.8	28.3
	8H	27.8	28.5	28.3	29.0	29.5	26.8	27.5	27.3	27.9	28.5
	12H	28.3	28.8	28.8	29.3	29.9	27.0	27.5	27.5	28.0	28.6
12H	4H	26.5	27.3	27.0	27.8	28.3	26.1	26.9	26.6	27.4	27.9
	6H	27.5	28.1	28.0	28.6	29.1	26.7	27.4	27.2	27.8	28.4
	8H	28.0	28.5	28.5	29.0	29.6	27.0	27.5	27.5	28.0	28.6

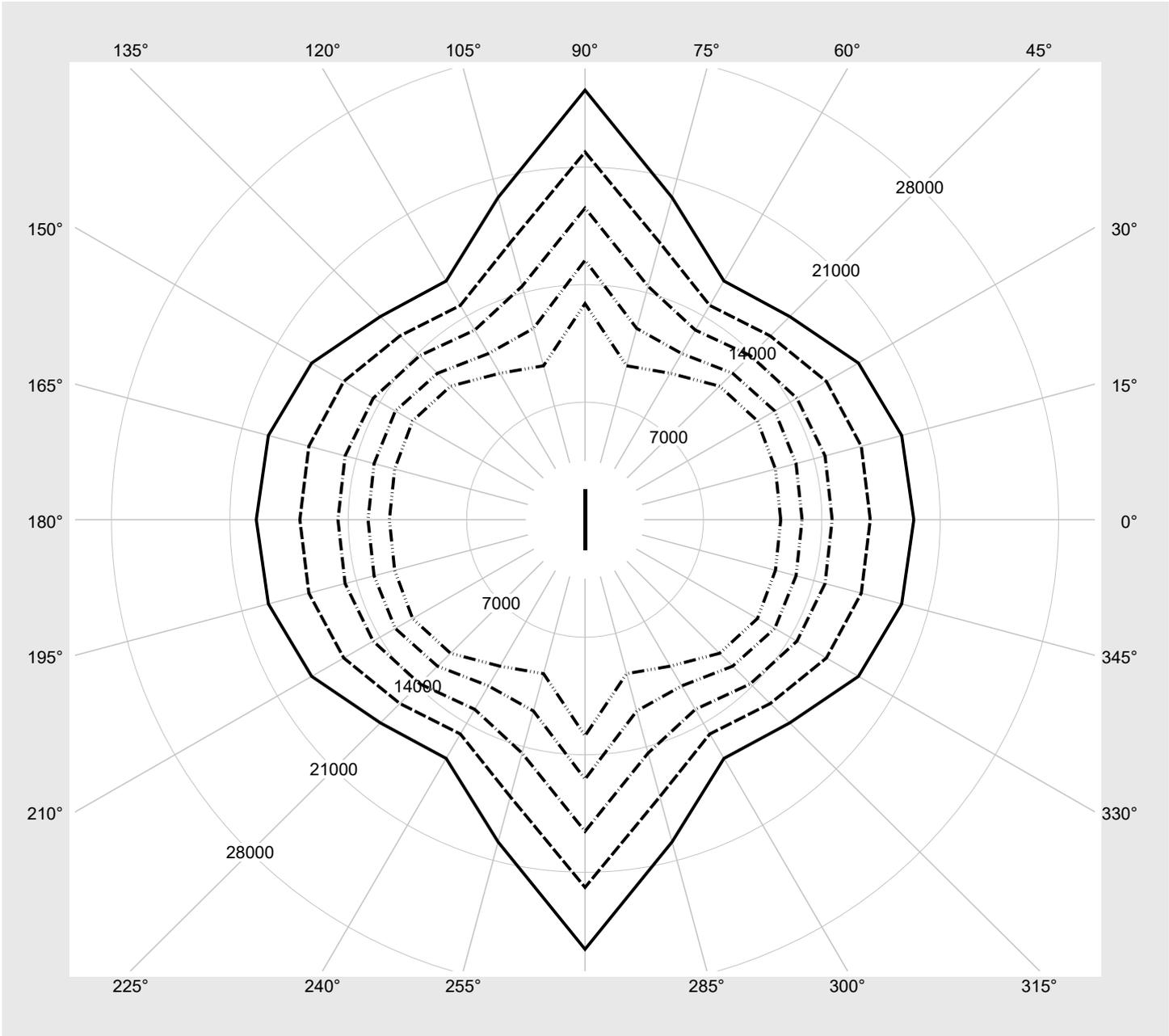
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1476	H(C0) = 25	H(C180) = 25
			B = 75	H(C90) = 0	H(C270) = 0

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°		20006.4	19913.0	19417.4	19846.0	23540.4	32800.1	41867.9	
50°		21335.2	21001.2	19792.9	18971.1	21223.9	29325.5	38164.5	
55°		22267.6	21892.8	20416.9	18663.2	19455.6	25991.6	34052.0	
60°		21565.2	21335.4	20151.7	18223.7	17938.3	22819.6	29728.1	
65°		19439.9	19382.1	18663.1	17115.2	16419.7	19868.9	25584.9	
70°		16862.3	16906.5	16474.5	15484.1	14741.3	17082.3	21900.2	
75°		14610.5	14690.3	14467.0	13822.8	13044.2	14394.6	18561.7	
80°		12834.1	12916.3	12954.5	12337.2	11428.3	11796.4	15453.8	
85°		11570.9	11655.5	11772.2	11249.8	10072.4	9492.2	12872.1	

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



Photometric test report

Family Modario® 31	Order number: 53BM811MV4CXD2 EAN: 4069025185952	LP number 59593_34
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Multilumen Table	environmental temperature: 25°C	sITeco
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DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
1	A	C	E	12350	64.6
2	A	C	F	11030	57.3
3	A	D	E	10100	52.2
4	A	D	F	9070	46.7
5	B	C	E	8030	41.2
6	B	C	F	7060	36.2
7	B	D	E	6000	30.9
8	B	D	F	5100	26.3