

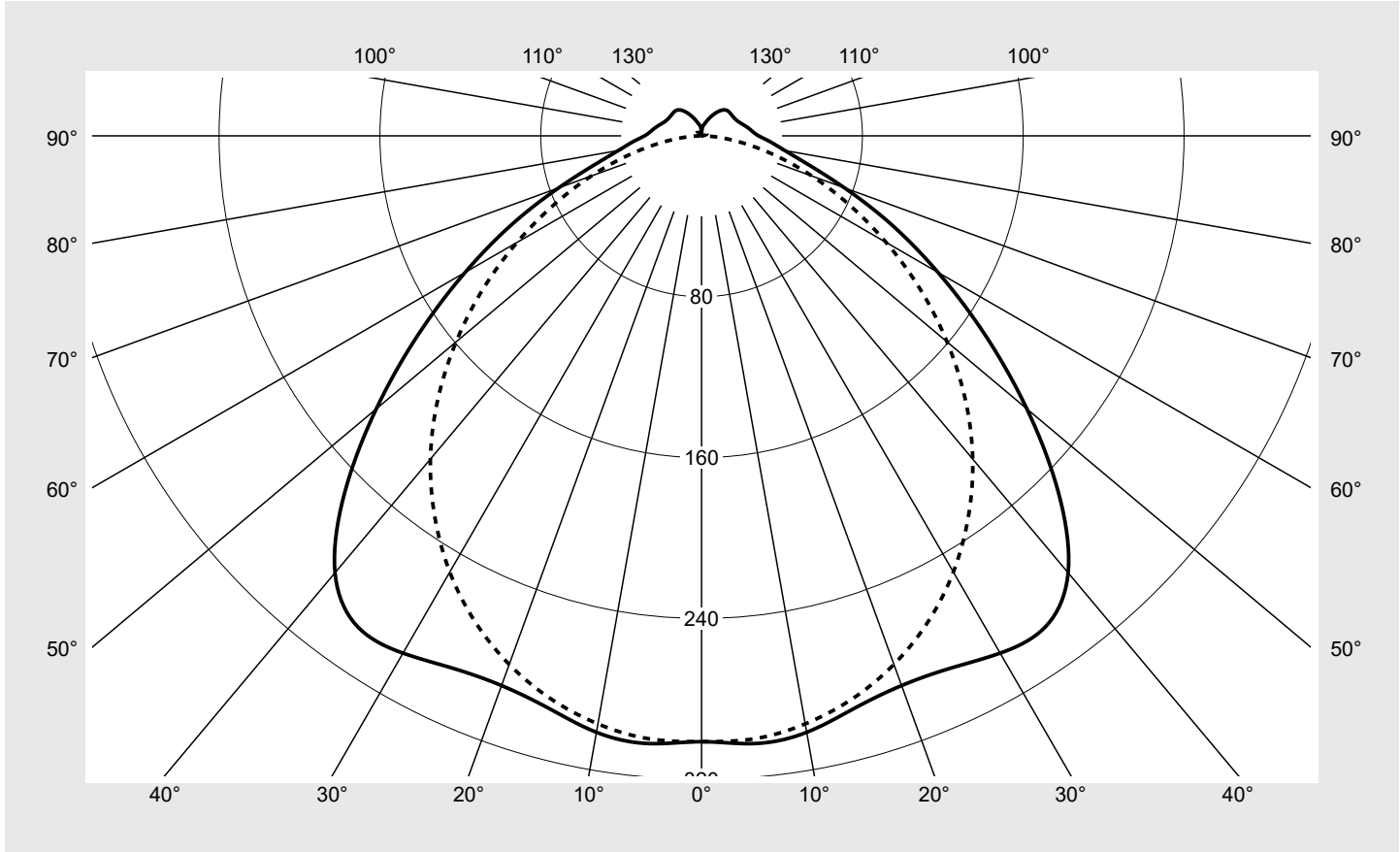


Photometric test report

Family Modario® 31	Order number: 53BM812C1V6075 EAN: 4058352434574	LP number 59062_6
	Version diffuser optic, frosted, wide distribution Lamps LED 6500 K CRI ≥ 80 Controlgear ECG-Multilumen CLOi Rated values Net luminous flux = 7640 lm Power consumption = 48.9 W Luminous efficacy = 156.2 lm/W	serial documentation 29.10.2020
		

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 303 cd/klm**



Classifications	
DIN 5040	A 4 1
CIE	N1=47 N2=80 N3=95 N4=92 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	92.2%
ϕ_o	7.8%

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°	301.3	301.3	301.3	301.3	301.3	301.3	301.3	1.8	1.8
5°	303.4	302.1	299.8	300.7	301.4	300.9	301.0	14.4	16.2
10°	301.2	300.2	298.0	298.8	298.8	297.4	296.9	28.4	44.6
15°	294.6	294.0	291.7	292.8	293.3	291.0	289.8	41.5	86.1
20°	290.9	289.9	285.2	284.3	284.4	281.8	279.7	53.5	139.6
25°	292.2	290.5	282.4	276.3	273.3	269.6	266.6	64.5	204.1
30°	297.0	294.4	282.2	270.2	261.0	254.7	250.5	74.7	278.9
35°	298.1	296.1	282.7	264.8	248.2	237.3	231.4	83.5	362.4
40°	283.7	283.9	275.8	257.5	234.7	217.8	209.8	89.0	451.4
45°	251.1	253.7	254.1	243.4	219.0	195.8	185.6	89.4	540.8
50°	211.2	214.3	220.3	219.1	199.3	172.1	159.4	84.7	625.6
55°	171.8	174.4	181.0	185.6	174.0	146.8	132.6	75.9	701.4
60°	135.8	137.5	141.9	147.8	143.1	120.2	106.0	64.2	765.6
65°	104.0	105.0	107.3	111.5	110.8	93.7	80.9	51.4	817.0
70°	75.7	76.6	78.0	80.9	80.7	68.8	58.4	38.8	855.8
75°	54.8	55.1	55.5	57.1	55.6	46.5	38.4	27.9	883.8
80°	42.1	41.7	40.7	39.3	35.7	27.8	21.5	19.5	903.3
85°	34.4	33.7	31.6	27.6	21.5	14.0	8.7	13.6	916.9
90°	28.4	27.8	25.3	20.0	13.0	5.8	0.9	9.7	926.7
95°	25.4	25.0	23.0	18.3	11.9	5.4	1.0	8.8	935.5
100°	23.4	22.9	21.1	17.1	11.7	5.5	1.6	8.2	943.6
105°	21.5	21.0	19.3	16.3	11.6	5.9	2.4	7.6	951.2
110°	19.9	19.3	18.1	15.8	11.8	6.2	2.9	7.1	958.3
115°	18.9	18.3	17.5	15.6	12.1	6.6	3.0	6.7	965.0
120°	18.4	17.9	17.3	15.6	12.2	6.6	2.9	6.4	971.4
125°	18.2	17.7	17.1	15.5	11.8	6.5	2.7	5.9	977.3
130°	18.1	17.6	16.9	14.9	10.9	6.2	2.5	5.4	982.7
135°	17.9	17.2	16.1	13.6	9.8	5.6	2.4	4.7	987.4
140°	16.8	15.9	14.5	11.9	8.4	5.0	2.1	3.8	991.2
145°	14.9	14.0	12.6	10.1	6.8	4.5	2.0	3.0	994.1
150°	12.5	11.8	10.5	7.9	5.6	4.1	1.8	2.2	996.3
155°	10.2	9.6	8.3	6.3	5.0	3.7	1.7	1.5	997.8
160°	8.1	7.6	6.2	5.1	4.6	3.6	1.5	1.0	998.8
165°	6.4	6.1	4.7	4.5	4.0	4.8	1.5	0.7	999.5
170°	5.3	4.3	3.8	4.0	3.9	3.9	1.5	0.4	999.8
175°	3.8	3.2	4.6	4.9	4.0	2.2	1.5	0.2	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	21.9	23.6	22.2	23.9	24.2	21.7	23.4	22.0	23.7	24.0
	3H	22.8	24.4	23.2	24.7	25.0	22.8	24.4	23.2	24.7	25.0
	4H	23.2	24.6	23.6	25.0	25.3	23.2	24.7	23.6	25.0	25.4
	6H	23.5	24.8	23.9	25.2	25.6	23.5	24.8	23.9	25.2	25.6
	8H	23.7	25.0	24.1	25.3	25.7	23.6	24.9	24.0	25.3	25.7
	12H	23.9	25.1	24.3	25.4	25.9	23.7	24.9	24.1	25.2	25.7
4H	2H	22.5	24.0	22.9	24.3	24.7	22.4	23.8	22.8	24.2	24.6
	3H	23.6	24.9	24.1	25.2	25.7	23.8	25.0	24.2	25.4	25.8
	4H	24.1	25.2	24.5	25.6	26.0	24.3	25.4	24.7	25.8	26.2
	6H	24.5	25.5	25.0	25.9	26.4	24.7	25.6	25.1	26.1	26.5
	8H	24.8	25.6	25.2	26.1	26.6	24.8	25.7	25.2	26.1	26.6
	12H	25.0	25.8	25.5	26.3	26.7	24.9	25.7	25.3	26.1	26.6
8H	4H	24.4	25.3	24.8	25.7	26.2	24.5	25.4	25.0	25.9	26.3
	6H	24.9	25.7	25.4	26.1	26.6	25.0	25.8	25.5	26.2	26.7
	8H	25.2	25.9	25.7	26.4	26.9	25.2	25.9	25.7	26.4	26.9
	12H	25.6	26.2	26.1	26.7	27.2	25.4	25.9	25.9	26.4	27.0
12H	4H	24.4	25.2	24.9	25.7	26.2	24.6	25.4	25.1	25.8	26.3
	6H	25.0	25.7	25.5	26.1	26.7	25.1	25.8	25.6	26.2	26.8
	8H	25.4	25.9	25.9	26.4	27.0	25.4	25.9	25.9	26.4	26.9

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°		18381.6	18729.0	19246.4	19221.7	18320.4	17591.4	18112.1	
50°		16232.0	16632.2	17597.6	18364.9	17851.3	16751.9	17113.1	
55°		14007.2	14374.5	15419.6	16712.3	16906.9	15724.6	15958.9	
60°		11883.1	12180.2	13061.3	14489.1	15328.1	14432.9	14628.6	
65°		9905.0	10147.9	10820.3	12095.2	13330.2	12911.6	13217.5	
70°		7968.4	8201.6	8778.0	9908.9	11176.2	11221.8	11793.5	
75°		6509.9	6672.1	7129.5	8093.3	9146.6	9374.0	10252.1	
80°		5784.9	5862.5	6141.2	6676.3	7303.0	7420.1	8562.5	
85°		5655.0	5701.8	5816.9	5905.6	5858.4	5591.0	6901.9	

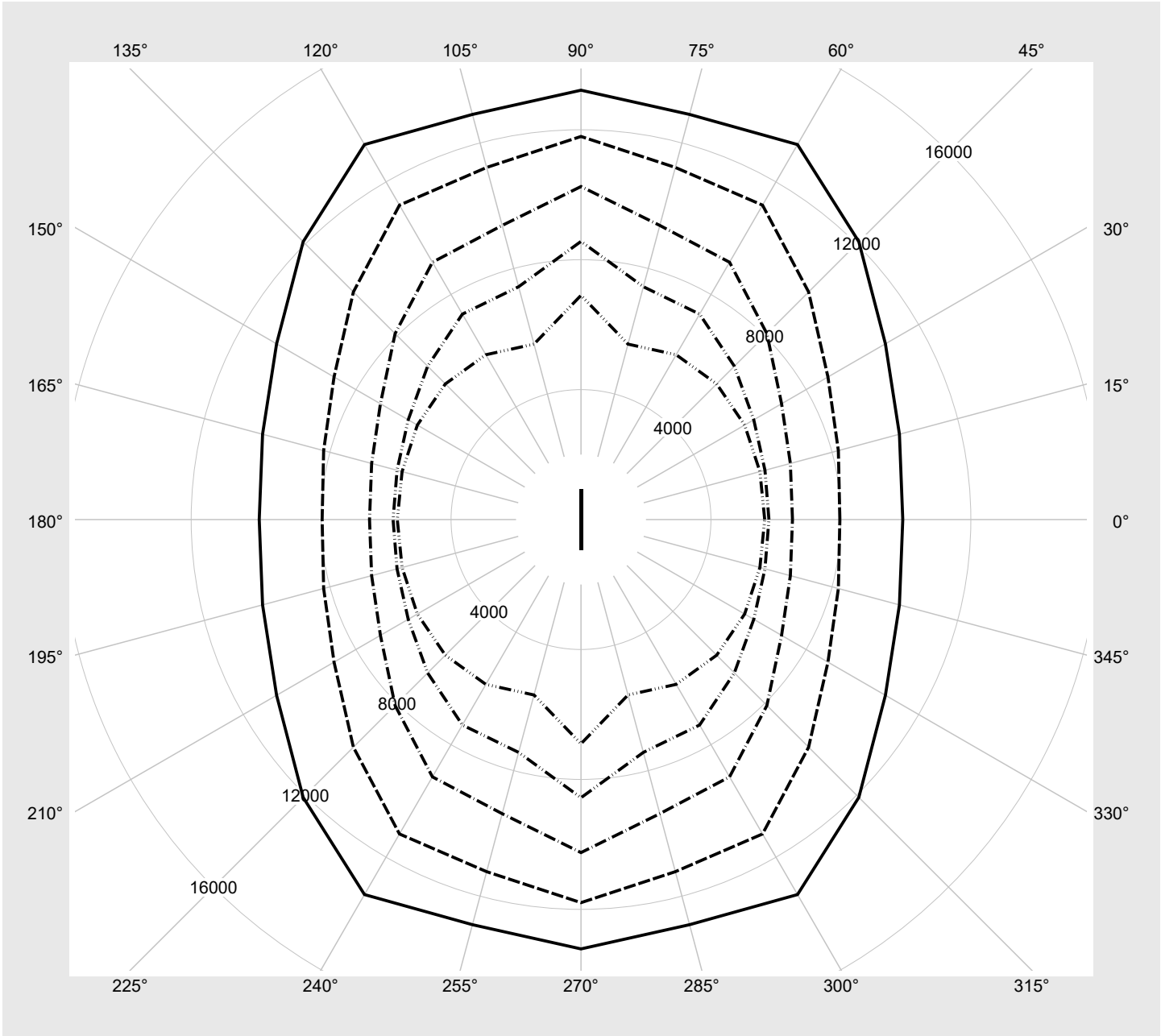
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Luminance values in cd/m²

γ 65°	γ 70°	γ 75°	γ 80°	γ 85°
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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]	Power consumption	Power consumption
	1	2	3			[W] end of lifetime	[W] average
1	A	C	E	7640	48.9	55.7	52.3
2	A	C	F	7060	44.6	50.8	47.7
3	A	D	E	6540	40.9	46.5	43.7
4	A	D	F	6070	37.6	42.7	40.2
5	B	C	E	5530	33.9	38.1	36.0
6	B	C	F	5040	30.7	34.4	32.6
7	B	D	E	4550	27.6	30.7	29.2
8	B	D	F	4050	24.5	27.6	26.0