Photometric test report

Family
Modario® 31

Order number: 53BM811M1V4120
EAN: 4058352511954

Version	diffuser optic, frosted, narrow distribution
Lamps	LED 4000 K | CRI ≥ 80
Controlgear	ECG Multilumen
Rated values	Net luminous flux = 12380 lm Power consumption = 77.3 W Luminous efficacy = 160.2 lm/W

LP number
55135_42

serial documentation
11.06.2021

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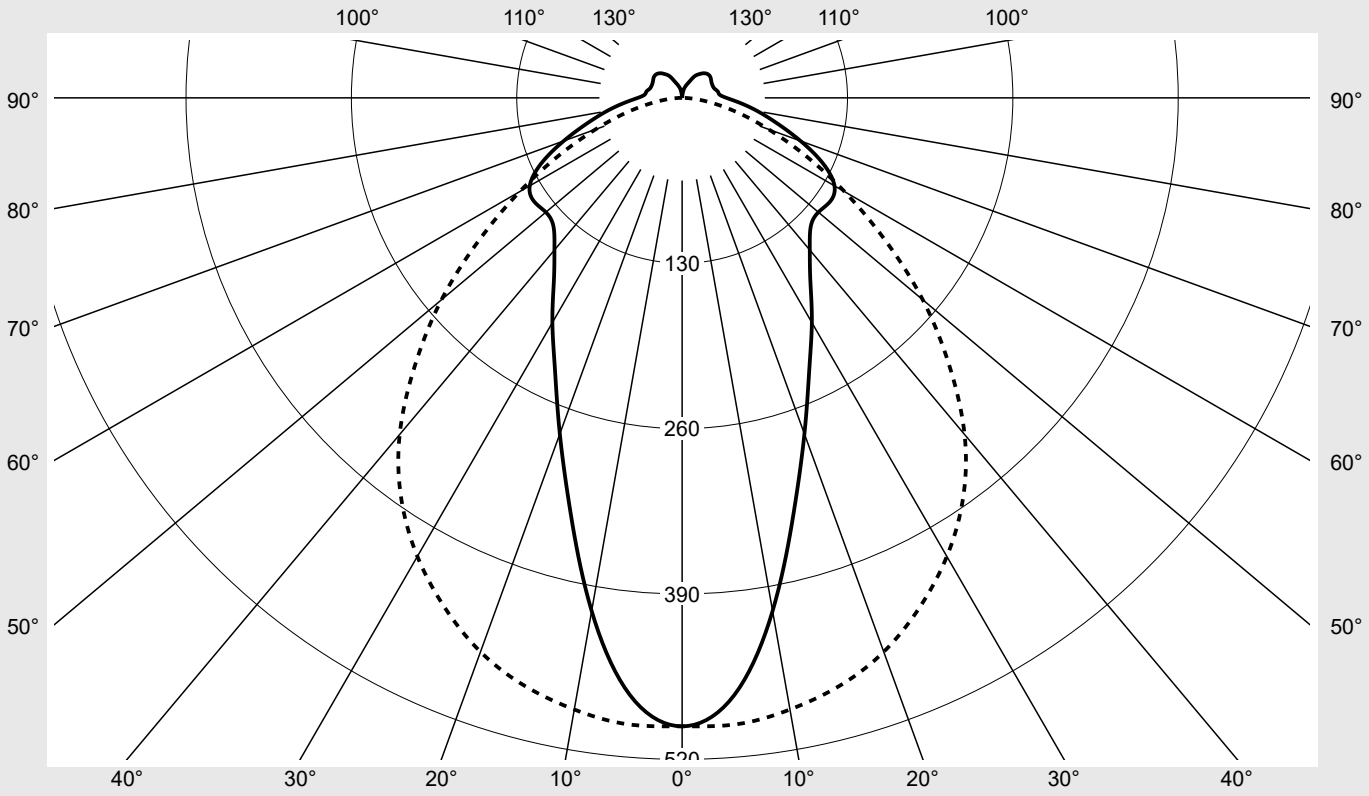
Luminous intensity in cd/klm

C180-0 C270-90

Imax: 494 cd/klm



Classifications	
DIN 5040	A 4 1
CIE	N1=52 N2=78 N3=94 N4=90 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	90.2%
ϕ_o	9.8%

Measurement conditions
DIN EN 13032 and DIN 5032

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Table of values for luminous intensities

Maximum luminous intensity

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°	494.0	494.0	494.0	494.0	494.0	494.0	494.0	3.0	3.0
5°	471.2	473.6	473.3	479.8	487.3	492.3	494.3	23.0	26.0
10°	409.6	413.1	422.7	443.8	464.9	481.7	488.2	42.4	68.4
15°	338.4	347.0	361.1	392.2	430.5	464.3	478.5	56.8	125.2
20°	281.1	287.1	301.8	336.6	388.5	440.1	463.4	66.4	191.7
25°	236.4	241.8	253.6	284.7	341.2	409.5	441.9	72.2	263.9
30°	204.0	206.7	214.9	239.9	293.5	372.6	416.3	74.8	338.7
35°	175.8	178.5	183.2	201.6	247.9	331.0	384.9	74.5	413.2
40°	156.2	156.9	158.1	169.5	206.1	286.5	345.5	72.1	485.3
45°	143.0	142.2	139.6	143.9	170.0	240.3	296.8	68.2	553.5
50°	139.9	136.3	128.9	125.0	140.5	196.1	247.0	64.4	617.9
55°	142.1	137.0	123.8	111.3	116.1	156.4	194.7	60.8	678.8
60°	138.3	133.4	118.4	100.6	96.3	122.2	147.4	56.5	735.2
65°	122.3	118.7	106.2	88.6	78.9	92.2	106.5	49.6	784.8
70°	99.1	96.0	86.4	72.7	62.1	66.2	72.4	40.3	825.1
75°	77.2	75.5	68.2	57.7	47.1	45.1	46.2	31.4	856.5
80°	60.2	58.5	53.3	43.9	33.2	27.4	25.3	23.3	879.8
85°	45.8	44.8	40.6	32.3	22.0	14.3	10.3	16.6	896.3
90°	34.8	33.6	29.7	22.4	13.8	6.0	0.9	11.3	907.6
95°	29.5	28.4	25.0	19.2	12.4	5.6	0.9	9.6	917.2
100°	28.5	27.2	23.5	18.4	12.5	6.1	0.9	9.2	926.4
105°	26.7	25.7	22.5	18.4	13.1	6.4	0.9	8.8	935.2
110°	25.9	24.6	22.5	19.1	13.8	7.0	0.9	8.6	943.9
115°	25.9	24.8	23.2	20.0	14.4	7.5	0.9	8.6	952.4
120°	26.4	25.5	24.2	20.7	14.8	7.0	0.9	8.4	960.8
125°	27.4	26.5	24.8	20.9	14.8	7.1	0.9	8.1	968.9
130°	27.7	26.6	24.5	20.3	14.3	7.1	1.0	7.5	976.4
135°	27.0	25.7	23.3	19.1	12.5	6.9	1.1	6.6	983.0
140°	25.2	23.8	21.4	17.4	10.4	6.1	1.2	5.4	988.4
145°	22.6	21.3	19.1	14.4	8.9	5.1	1.3	4.2	992.6
150°	19.6	18.2	15.5	10.6	7.6	4.0	1.4	3.0	995.6
155°	14.7	13.4	11.5	8.5	6.9	2.9	1.4	2.0	997.6
160°	11.4	10.7	8.5	7.3	5.5	1.6	1.5	1.2	998.9
165°	8.9	8.5	6.6	5.7	3.8	1.5	1.4	0.7	999.6
170°	6.0	4.8	4.2	3.4	1.5	1.4	1.4	0.3	999.9
175°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.1	1000.0
180°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0	1000.0

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UGR-Table

Standard room

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	22.0	23.6	22.3	23.9	24.3	23.7	25.3	24.0	25.6	26.0
	3H	24.1	25.6	24.4	25.9	26.2	24.9	26.4	25.3	26.7	27.1
	4H	24.9	26.3	25.3	26.6	27.0	25.4	26.8	25.8	27.1	27.5
	6H	25.6	26.9	26.0	27.2	27.6	25.7	27.0	26.1	27.3	27.7
	8H	25.9	27.1	26.3	27.5	27.9	25.8	27.0	26.3	27.4	27.8
	12H	26.2	27.3	26.6	27.7	28.1	25.9	27.0	26.3	27.4	27.8
4H	2H	22.7	24.0	23.1	24.4	24.8	24.0	25.4	24.4	25.7	26.1
	3H	24.9	26.1	25.3	26.5	26.9	25.4	26.6	25.8	26.9	27.4
	4H	25.8	26.9	26.3	27.3	27.8	25.9	27.0	26.4	27.4	27.8
	6H	26.7	27.7	27.2	28.1	28.5	26.4	27.3	26.8	27.7	28.2
	8H	27.1	28.0	27.6	28.4	28.9	26.5	27.4	27.0	27.8	28.3
	12H	27.5	28.3	28.0	28.7	29.2	26.6	27.4	27.1	27.8	28.3
8H	4H	26.1	27.0	26.6	27.4	27.9	26.2	27.1	26.7	27.5	28.0
	6H	27.2	27.9	27.7	28.4	28.9	26.7	27.5	27.2	27.9	28.4
	8H	27.7	28.3	28.2	28.8	29.3	26.9	27.6	27.4	28.1	28.6
	12H	28.2	28.7	28.7	29.2	29.8	27.1	27.7	27.6	28.2	28.7
12H	4H	26.2	27.0	26.7	27.4	27.9	26.3	27.0	26.8	27.5	28.0
	6H	27.3	27.9	27.8	28.4	28.9	26.9	27.5	27.4	28.0	28.5
	8H	27.8	28.4	28.3	28.9	29.4	27.1	27.7	27.6	28.1	28.7

Luminance table

Max. for $\gamma >= 65°$

Photometric dimensions in mm: L = 1476, B = 75, H(C0) = 25, H(C90) = 0, H(C180) = 25, H(C270) = 0

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°
γ	Luminance in cd/m²						
45°	16964.0	17008.6	17137.2	18417.0	23051.7	34992.4	46944.9
50°	17414.4	17141.4	16687.3	16976.0	20390.8	30940.3	42965.0
55°	18765.0	18301.5	17087.4	16233.0	18290.4	27152.5	37952.3
60°	19612.7	19148.4	17649.8	15974.2	16708.0	23771.9	32973.3
65°	18872.5	18587.3	17353.0	15567.6	15384.6	20579.5	28174.5
70°	16908.1	16661.0	15757.0	14434.6	13924.6	17510.0	23683.8
75°	14867.8	14814.5	14190.5	13259.2	12546.6	14741.1	19982.6
80°	13413.8	13321.2	13016.7	12086.8	10997.2	11841.5	16282.9
85°	12207.5	12287.6	12129.9	11223.6	9697.6	9253.6	13222.8

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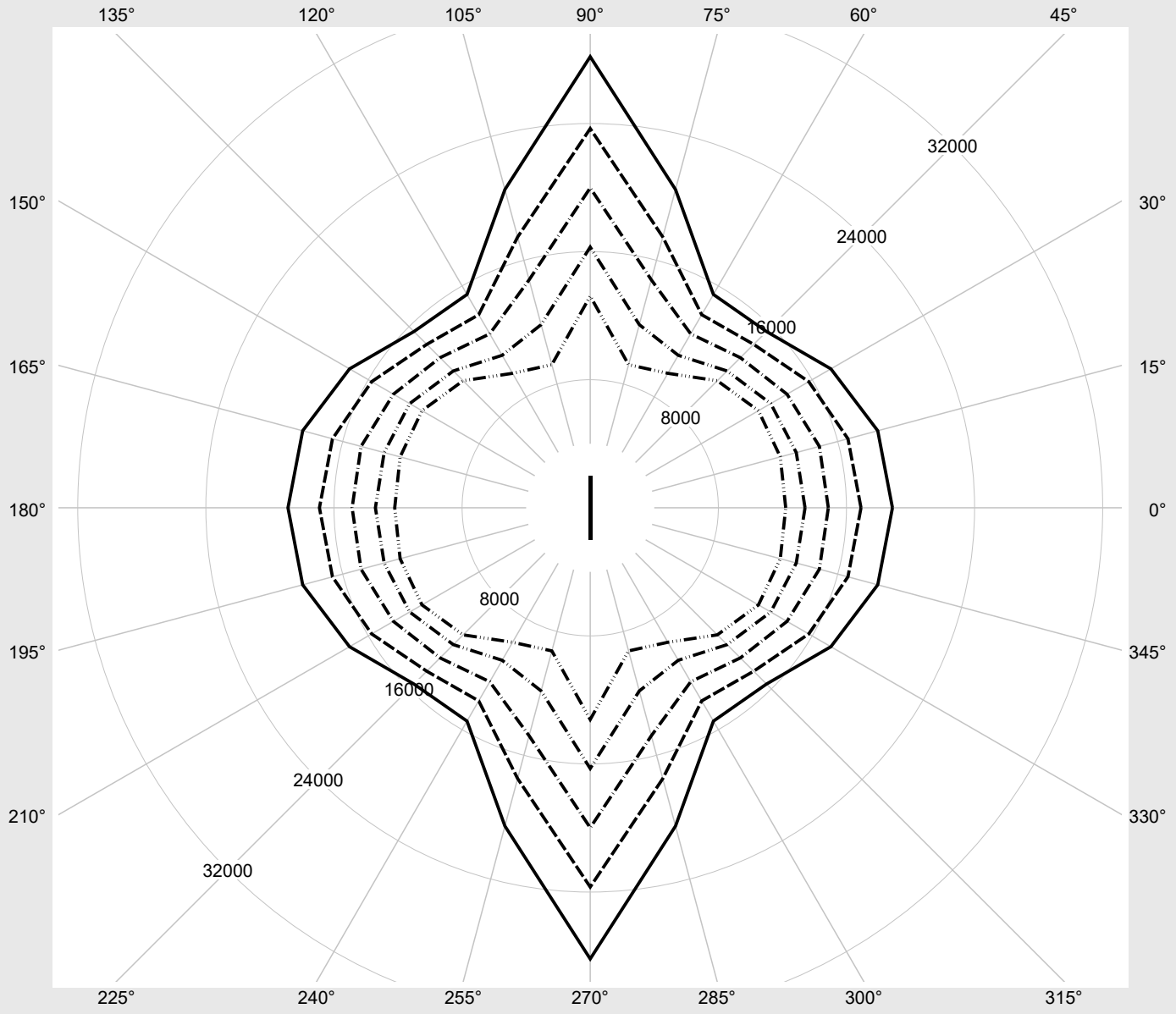
Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85°



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Multilumen Table

environmental temperature: 25°C

DIP-Step	Switch Setting 1	2	3	Luminous flux [lm]	Power consumption [W]
1	A	C	E	12380	77.3
2	A	C	F	11050	67.5
3	A	D	E	10060	60.6
4	A	D	F	9050	53.8
5	B	C	E	8010	47.0
6	B	C	F	7020	40.8
7	B	D	E	6010	34.7
8	B	D	F	5050	29.1