

Photometric test report

Family
Modario® 31



Order number: 53BM811DV4A5C2
EAN: 4069025122995

Version

Lamps

Controlgear

Rated values

diffuser optic, frosted, narrow distribution

LED 4000 K | CRI ≥ 80

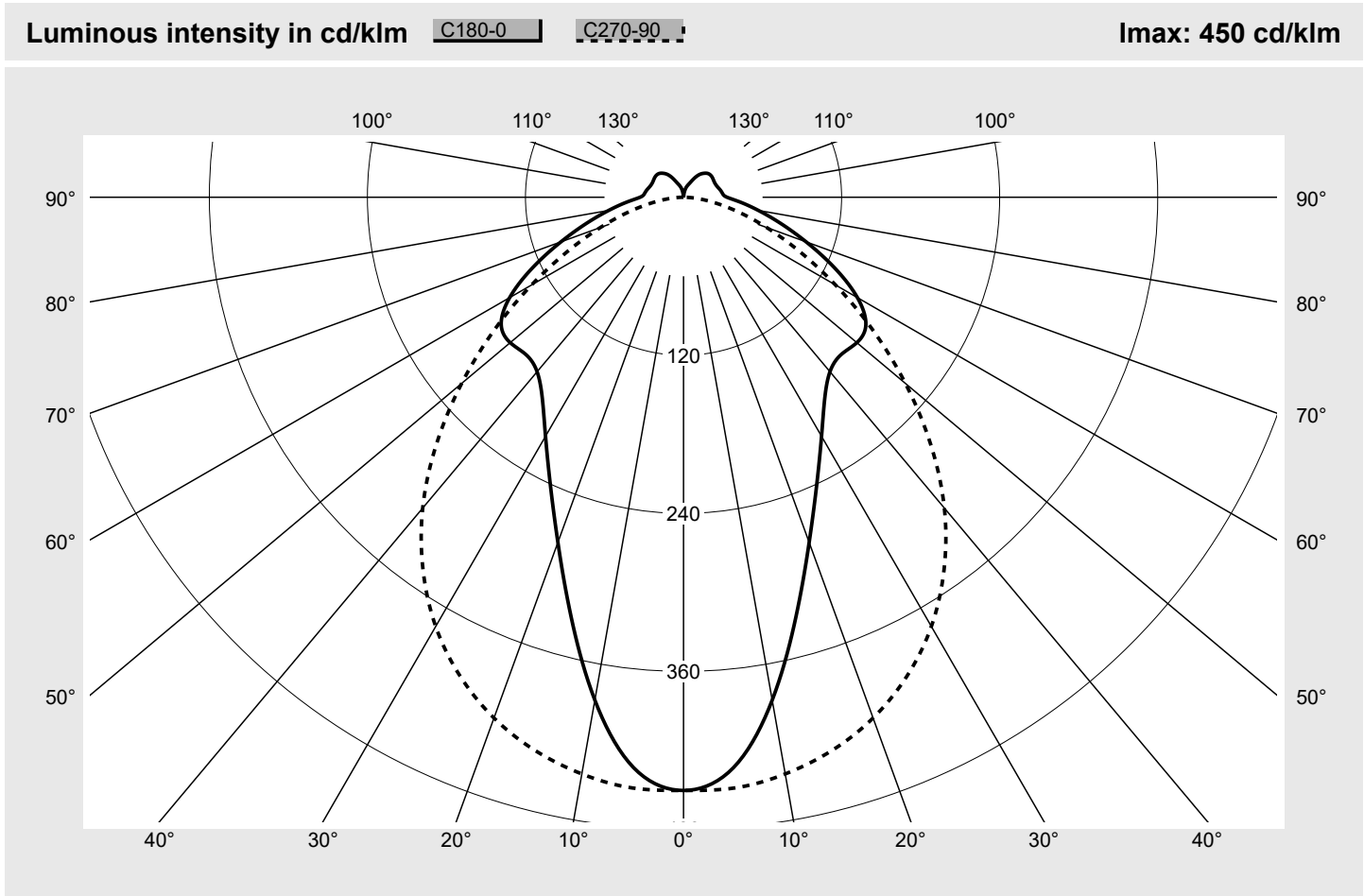
ECG-DALI

Net luminous flux = 10860 lm
Power consumption = 61.4 W
Luminous efficacy = 176.9 lm/W

LP number
59593_2

serial
documentation
02.05.2024

siteco



Classifications		Luminaire light output ratios	
DIN 5040	A 4 1	η_{LB}	100.0%
CIE	N1=50 N2=78 N3=94	ϕ_u	90.4%
	N4=90 N5=100	ϕ_o	9.6%

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	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°	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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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	22.4	24.0	22.7	24.3	24.7	22.9	24.5	23.2	24.9	25.2
	3H	24.1	25.6	24.5	26.0	26.3	24.1	25.6	24.5	25.9	26.3
	4H	24.8	26.2	25.2	26.6	27.0	24.6	26.0	24.9	26.3	26.7
	6H	25.4	26.7	25.8	27.1	27.5	24.9	26.2	25.3	26.5	26.9
	8H	25.7	26.9	26.1	27.3	27.7	25.0	26.2	25.4	26.6	27.0
	12H	25.9	27.1	26.3	27.5	27.9	25.1	26.2	25.5	26.6	27.0
4H	2H	23.0	24.4	23.4	24.8	25.1	23.4	24.8	23.7	25.1	25.5
	3H	24.9	26.1	25.4	26.5	26.9	24.7	25.9	25.1	26.3	26.7
	4H	25.8	26.9	26.2	27.3	27.7	25.3	26.4	25.7	26.8	27.2
	6H	26.5	27.5	27.0	27.9	28.3	25.7	26.7	26.2	27.1	27.6
	8H	26.8	27.7	27.3	28.2	28.6	25.9	26.7	26.3	27.2	27.7
	12H	27.2	27.9	27.6	28.4	28.9	26.0	26.8	26.5	27.2	27.7
8H	4H	26.0	26.9	26.5	27.4	27.8	25.6	26.5	26.1	26.9	27.4
	6H	26.9	27.7	27.4	28.1	28.6	26.2	26.9	26.6	27.4	27.9
	8H	27.4	28.0	27.9	28.5	29.0	26.4	27.0	26.9	27.5	28.0
	12H	27.8	28.4	28.3	28.9	29.4	26.5	27.1	27.0	27.6	28.1
12H	4H	26.1	26.9	26.6	27.3	27.8	25.7	26.5	26.2	26.9	27.4
	6H	27.0	27.7	27.5	28.2	28.7	26.3	26.9	26.8	27.4	27.9
	8H	27.5	28.1	28.0	28.6	29.1	26.5	27.1	27.0	27.6	28.1

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 1476 B = 75		H(C0) = 25 H(C90) = 0		H(C180) = 25 H(C270) = 0	
C-planes	γ	0°	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°		17592.7	17510.6	17074.7	17451.6	20700.3	28842.8	36816.6			
50°		18761.2	18467.4	17404.9	16682.3	18663.3	25787.4	33560.0			
55°		19581.0	19251.5	17953.7	16411.5	17108.4	22855.8	29943.7			
60°		18963.4	18761.3	17720.4	16025.0	15774.1	20066.5	26141.5			
65°		17094.5	17043.7	16411.4	15050.3	14438.7	17471.8	22498.2			
70°		14827.9	14866.8	14486.9	13616.0	12962.8	15021.4	19258.0			
75°		12847.8	12918.0	12721.5	12155.1	11470.5	12658.0	16322.3			
80°		11285.7	11358.0	11391.6	10848.7	10049.5	10373.2	13589.4			
85°		10174.9	10249.3	10351.9	9892.5	8857.2	8346.9	11319.1			

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Luminance values in cd/m²

γ 65°

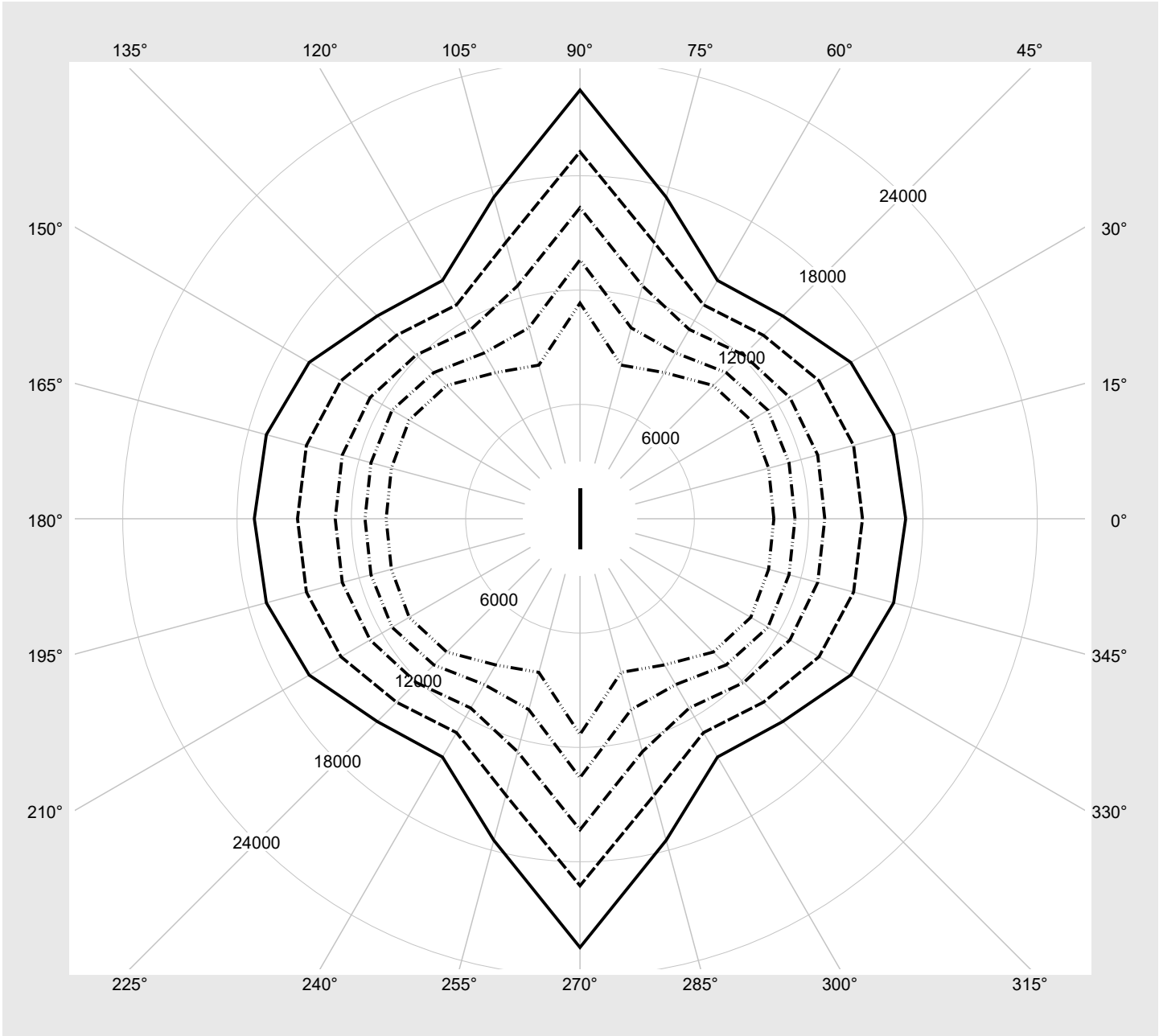
γ 70°

γ 75°

γ 80°

γ 85°

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Family Modario® 31	Order number: 53BM811DV4A5C2 EAN: 4069025122995	LP number 59593_2
Dimming levels table environmental temperature: 25°C		

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	10860	61.4
95	240	252	10320	57.9
90	226	250	9772	54.5
85	212	247	9218	51.0
80	199	245	8697	47.9
75	185	242	8126	44.6
70	172	240	7591	41.4
65	159	237	7051	38.3
60	146	234	6504	35.3
55	134	231	5994	32.5
50	121	227	5436	29.4
45	108	223	4872	26.3
40	96	218	4347	23.6
35	84	213	3817	20.8
30	71	207	3237	17.9
25	59	201	2695	15.3
20	47	192	2151	12.6
15	36	182	1649	10.0
10	24	168	1098	7.0
5	12	142	543	4.2
2	4	102	170	2.4