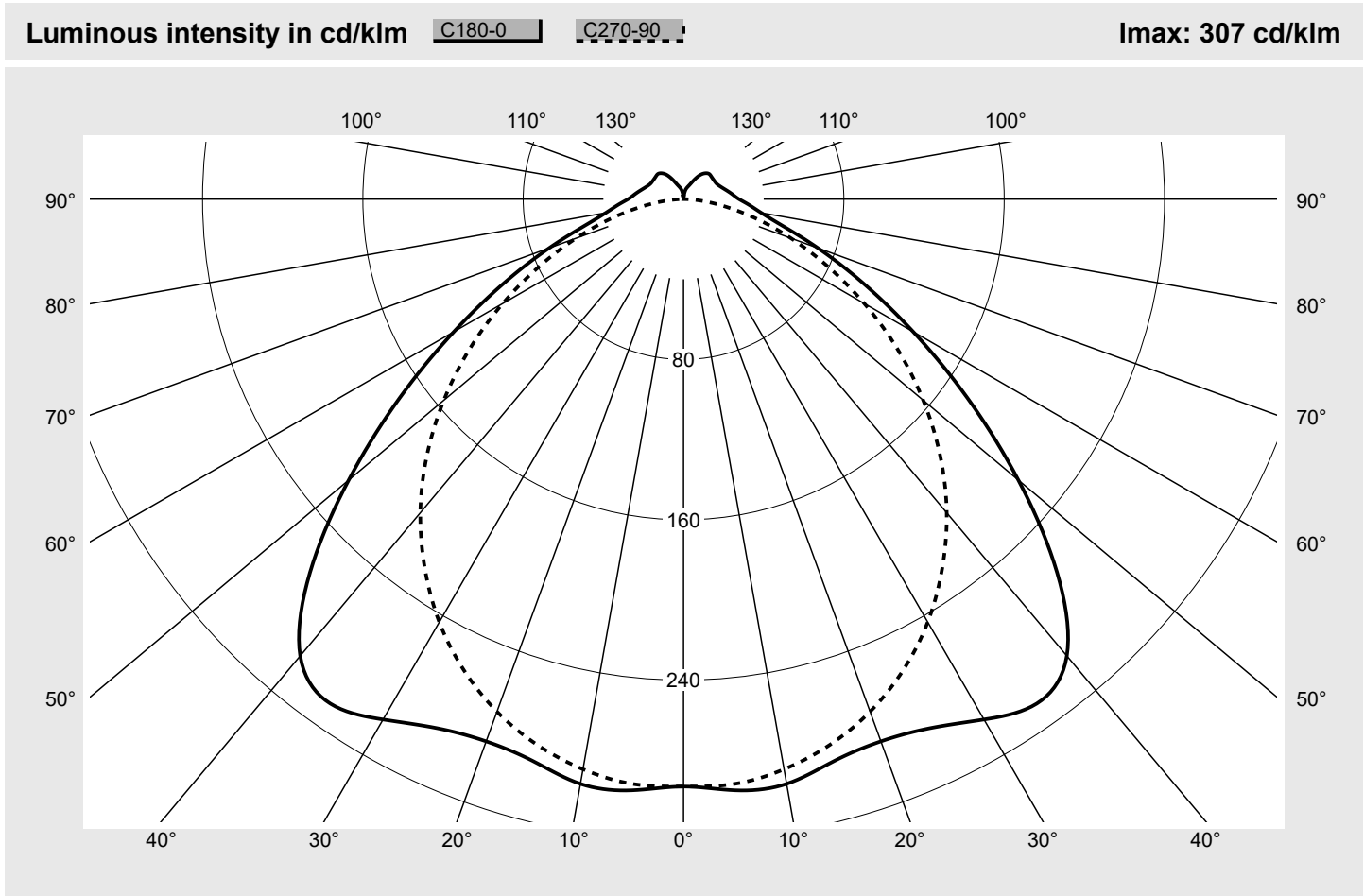


Photometric test report

Family Modario® 31	Order number: 53BM812DU4M1D2D EAN: 4069025134691	LP number 59594_57
Version	diffuser optic, frosted, wide distribution	serial documentation 06.05.2024
Lamps	LED 4000 K CRI ≥ 80	
Controlgear	ECG-DALI	sITeco
Setting	DC mode (central or group accumulator) initial emergency light level	
Rated values	Net luminous flux = 4230 lm Power consumption = 23.7 W Luminous efficacy = 178.5 lm/W	



Classifications	
DIN 5040	A 4 1
CIE	N1=47 N2=80 N3=95 N4=93 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	92.6%
ϕ_o	7.4%

Measurement conditions
DIN EN 13032 and DIN 5032

Photometric test report

Family Modario® 31	Order number: 53BM812DU4M1D2D EAN: 4069025134691	LP number 59594_57
Table of values for luminous intensities		Maximum luminous intensity
		siteco

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°	Phi-zone	Total Phi-zone
0°	293.1	293.1	293.1	293.1	293.1	293.1	293.1	1.8	1.8
5°	296.1	295.6	293.1	293.6	293.8	293.0	292.9	14.0	15.8
10°	296.3	296.3	293.6	293.6	292.6	289.9	288.9	27.9	43.7
15°	290.3	290.9	288.4	289.1	288.3	284.2	281.9	40.8	84.5
20°	287.9	288.2	282.8	281.1	280.6	275.9	272.2	52.8	137.3
25°	291.3	290.8	281.6	274.0	270.0	264.7	259.4	64.0	201.2
30°	299.8	298.4	283.7	269.7	258.3	250.5	243.7	74.6	275.8
35°	307.3	306.0	288.6	266.7	246.6	233.7	225.0	84.2	360.1
40°	297.5	299.0	287.4	263.1	235.0	215.2	204.3	91.1	451.1
45°	263.6	268.2	268.7	253.4	221.8	194.2	181.1	92.3	543.4
50°	218.1	223.5	232.0	231.1	204.9	171.7	156.1	87.5	630.9
55°	172.9	177.3	186.9	195.4	181.1	147.5	130.2	77.8	708.7
60°	132.3	135.3	142.3	152.9	149.4	121.4	104.1	64.8	773.5
65°	98.5	100.2	104.0	112.2	114.5	94.5	79.4	50.9	824.4
70°	71.4	72.6	74.4	79.3	82.2	69.0	57.1	37.9	862.3
75°	51.0	51.6	52.9	55.5	55.9	46.4	37.5	27.0	889.4
80°	39.4	39.1	38.7	38.1	35.5	27.5	20.9	18.8	908.2
85°	32.8	32.1	30.1	26.5	21.0	13.7	8.3	13.1	921.3
90°	27.7	27.1	24.5	19.3	12.6	5.6	0.8	9.4	930.7
95°	24.8	24.4	22.4	17.8	11.6	5.3	0.8	8.6	939.3
100°	22.5	22.2	20.5	16.7	11.5	5.5	0.8	7.9	947.2
105°	20.6	20.3	18.7	16.0	11.5	5.9	0.8	7.3	954.6
110°	19.2	18.7	17.6	15.5	11.7	6.3	0.7	6.8	961.4
115°	18.2	17.8	17.0	15.3	12.2	5.8	0.8	6.4	967.8
120°	17.9	17.4	16.9	15.5	12.3	5.3	0.8	6.1	973.9
125°	17.8	17.4	16.9	15.5	11.8	5.2	0.8	5.7	979.6
130°	17.9	17.4	16.8	15.0	10.1	5.0	0.9	5.2	984.7
135°	17.9	17.3	16.2	13.6	8.1	4.3	1.0	4.5	989.2
140°	16.9	16.0	14.5	11.2	6.7	3.5	1.1	3.6	992.8
145°	14.9	14.0	12.0	8.5	5.5	2.8	1.2	2.7	995.4
150°	11.8	10.8	9.0	6.5	4.7	2.2	1.4	1.8	997.3
155°	8.6	8.1	7.0	5.2	4.0	1.7	1.5	1.2	998.5
160°	6.8	6.5	5.3	4.3	3.2	1.5	1.5	0.8	999.2
165°	5.5	5.3	3.9	3.4	2.1	1.6	1.6	0.5	999.7
170°	3.8	3.1	2.5	2.0	1.6	1.6	1.6	0.2	999.9
175°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.1	1000.0
180°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.0	1000.0

Photometric test report

Family Modario® 31	Order number: 53BM812DU4M1D2D EAN: 4069025134691	LP number 59594_57
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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	18.2	19.9	18.6	20.2	20.6	18.0	19.7	18.4	20.0	20.3
	3H	19.1	20.6	19.5	20.9	21.3	19.1	20.7	19.5	21.0	21.4
	4H	19.4	20.8	19.8	21.2	21.5	19.5	21.0	19.9	21.3	21.7
	6H	19.7	21.0	20.1	21.4	21.8	19.8	21.1	20.2	21.5	21.9
	8H	19.9	21.1	20.3	21.5	21.9	19.9	21.1	20.3	21.5	21.9
	12H	20.0	21.2	20.5	21.6	22.0	19.9	21.1	20.3	21.5	21.9
4H	2H	18.9	20.3	19.3	20.7	21.0	18.8	20.2	19.2	20.5	20.9
	3H	19.9	21.1	20.3	21.5	21.9	20.1	21.3	20.5	21.7	22.1
	4H	20.3	21.4	20.7	21.8	22.2	20.6	21.7	21.0	22.1	22.5
	6H	20.7	21.6	21.1	22.1	22.5	20.9	21.9	21.4	22.3	22.8
	8H	20.9	21.8	21.3	22.2	22.7	21.1	22.0	21.5	22.4	22.9
	12H	21.1	21.9	21.6	22.4	22.8	21.1	21.9	21.6	22.4	22.9
8H	4H	20.5	21.4	21.0	21.9	22.3	20.8	21.7	21.3	22.2	22.6
	6H	21.1	21.8	21.5	22.3	22.8	21.3	22.1	21.8	22.5	23.0
	8H	21.3	22.0	21.8	22.5	23.0	21.5	22.2	22.0	22.6	23.1
	12H	21.7	22.2	22.2	22.7	23.3	21.6	22.2	22.1	22.7	23.2
12H	4H	20.6	21.4	21.1	21.8	22.3	20.9	21.7	21.4	22.1	22.6
	6H	21.1	21.8	21.6	22.3	22.8	21.4	22.0	21.9	22.5	23.0
	8H	21.5	22.0	22.0	22.5	23.1	21.6	22.2	22.1	22.7	23.2

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 2392	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°	6593.0	6766.0	6953.0	6837.6	6340.4	5961.8	6039.5	
	50°	5725.4	5924.2	6331.9	6617.1	6269.1	5712.0	5726.2	
	55°	4814.6	4991.5	5439.8	6010.7	6011.7	5399.4	5354.0	
	60°	3955.4	4094.7	4472.4	5119.9	5466.4	4979.2	4911.3	
	65°	3205.5	3308.1	3584.8	4159.1	4708.1	4446.8	4427.9	
	70°	2567.5	2654.6	2858.5	3318.8	3888.0	3845.9	3933.9	
	75°	2069.4	2135.4	2318.6	2689.6	3139.2	3194.6	3414.5	
	80°	1850.9	1879.6	1990.1	2216.0	2480.6	2509.5	2837.2	
	85°	1844.5	1857.8	1895.5	1940.3	1959.0	1863.4	2256.0	

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Luminance values in cd/m²

γ 65°
γ 70°
γ 75°
γ 80°
γ 85°

