

Photometric test report

Family
Modario® 31

Order number: **53BM812DV4F5D23S**
EAN: **4069025254931**

LP number
59594_33



Version diffuser optic, frosted, wide distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI
Setting emergency light operation: 3 h
Rated values Net luminous flux = 940 lm
Power consumption = 7.5 W
Luminous efficacy = 125.3 lm/W

serial
documentation
02.05.2024

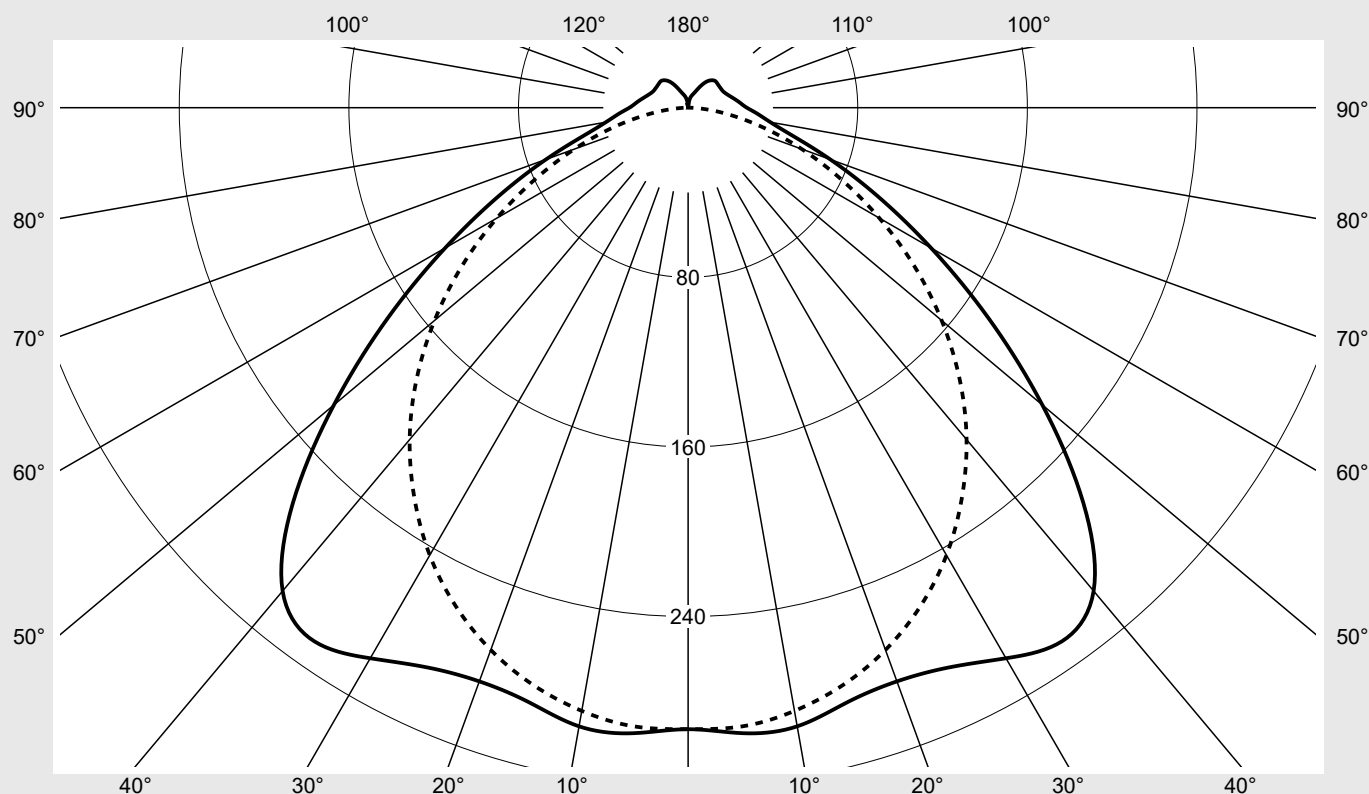
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 307 cd/klm



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: 53BM812DV4F5D23S EAN: 4069025254931	LP number 59594_33
Table of values for luminous intensities		Maximum luminous intensity

siteco

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°	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: 53BM812DV4F5D23S EAN: 4069025254931	LP number 59594_33
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	14.7	16.4	15.0	16.7	17.0	14.5	16.2	14.8	16.5	16.8
	3H	15.5	17.1	15.9	17.4	17.7	15.6	17.1	16.0	17.5	17.8
	4H	15.8	17.3	16.2	17.6	18.0	16.0	17.4	16.4	17.8	18.1
	6H	16.1	17.5	16.6	17.8	18.2	16.2	17.6	16.6	17.9	18.3
	8H	16.3	17.5	16.7	17.9	18.3	16.3	17.6	16.7	18.0	18.4
	12H	16.5	17.6	16.9	18.0	18.4	16.4	17.6	16.8	18.0	18.4
4H	2H	15.3	16.8	15.7	17.1	17.5	15.2	16.6	15.6	17.0	17.4
	3H	16.3	17.5	16.7	17.9	18.3	16.5	17.8	17.0	18.1	18.6
	4H	16.7	17.8	17.2	18.2	18.7	17.0	18.2	17.5	18.6	19.0
	6H	17.1	18.1	17.6	18.5	19.0	17.4	18.4	17.9	18.8	19.3
	8H	17.3	18.2	17.8	18.7	19.1	17.5	18.4	18.0	18.8	19.3
	12H	17.6	18.3	18.0	18.8	19.3	17.6	18.4	18.1	18.8	19.3
8H	4H	17.0	17.9	17.5	18.3	18.8	17.3	18.2	17.8	18.6	19.1
	6H	17.5	18.2	18.0	18.7	19.2	17.8	18.5	18.3	19.0	19.5
	8H	17.8	18.4	18.3	18.9	19.4	17.9	18.6	18.4	19.1	19.6
	12H	18.1	18.7	18.6	19.2	19.7	18.1	18.6	18.6	19.1	19.7
12H	4H	17.0	17.8	17.5	18.3	18.8	17.3	18.1	17.8	18.6	19.1
	6H	17.6	18.2	18.1	18.7	19.2	17.9	18.5	18.4	19.0	19.5
	8H	17.9	18.5	18.4	19.0	19.5	18.1	18.6	18.6	19.1	19.7

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	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°	2374.3	2436.7	2504.0	2462.5	2283.4	2147.0	2175.0				
50°	2061.9	2133.5	2280.3	2383.0	2257.7	2057.1	2062.2				
55°	1733.9	1797.6	1959.0	2164.6	2165.0	1944.5	1928.2				
60°	1424.5	1474.7	1610.7	1843.8	1968.6	1793.2	1768.7				
65°	1154.4	1191.4	1291.0	1497.8	1695.5	1601.4	1594.6				
70°	924.7	956.0	1029.4	1195.2	1400.2	1385.0	1416.7				
75°	745.2	769.0	835.0	968.6	1130.5	1150.5	1229.7				
80°	666.6	676.9	716.7	798.1	893.3	903.7	1021.8				
85°	664.3	669.0	682.6	698.8	705.5	671.1	812.5				

Photometric test report

Family
Modario® 31

Order number: 53BM812DV4F5D23S
EAN: 4069025254931

LP number
59594_33

Luminance values in cd/m²

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

siteco

