

Photometric test report

Family
Modario® 31



Order number: 53BM812DU4L3D2D
EAN: 4069025134653

Version

Lamps

Controlgear

Setting

Rated values

diffuser optic, frosted, wide distribution

LED 4000 K | CRI ≥ 80

ECG-DALI

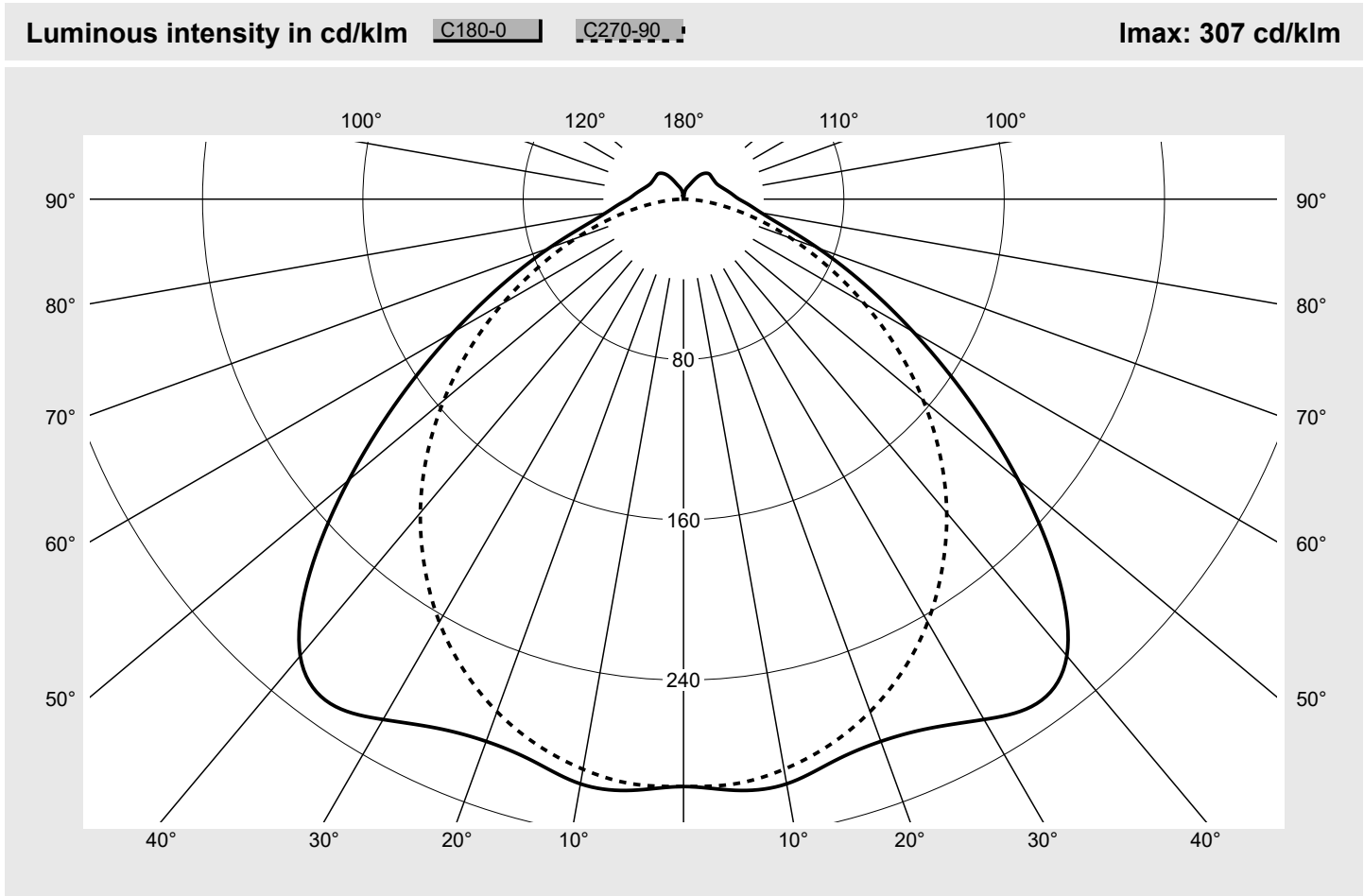
DC mode (central or group accumulator) initial emergency light level

Net luminous flux = 3710 lm
Power consumption = 21.1 W
Luminous efficacy = 175.8 lm/W

LP number
59594_56

serial
documentation
06.05.2024

siteco



Classifications		Luminaire light output ratios	
DIN 5040	A 4 1	η_{LB}	100.0%
CIE	N1=47 N2=80 N3=95	ϕ_u	92.6%
	N4=93 N5=100	ϕ_o	7.4%

Measurement conditions
DIN EN 13032 and DIN 5032

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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

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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	17.8	19.5	18.1	19.8	20.1	17.6	19.3	17.9	19.6	19.9
	3H	18.6	20.1	19.0	20.5	20.8	18.7	20.2	19.1	20.6	20.9
	4H	18.9	20.4	19.3	20.7	21.1	19.1	20.5	19.5	20.9	21.2
	6H	19.2	20.6	19.6	20.9	21.3	19.3	20.7	19.7	21.0	21.4
	8H	19.4	20.6	19.8	21.0	21.4	19.4	20.7	19.8	21.1	21.5
	12H	19.6	20.7	20.0	21.1	21.5	19.5	20.7	19.9	21.1	21.5
4H	2H	18.4	19.9	18.8	20.2	20.6	18.3	19.7	18.7	20.1	20.5
	3H	19.4	20.6	19.8	21.0	21.4	19.6	20.9	20.1	21.2	21.6
	4H	19.8	20.9	20.3	21.3	21.8	20.1	21.2	20.6	21.6	22.1
	6H	20.2	21.2	20.7	21.6	22.1	20.5	21.5	20.9	21.9	22.3
	8H	20.4	21.3	20.9	21.7	22.2	20.6	21.5	21.1	21.9	22.4
	12H	20.7	21.4	21.1	21.9	22.4	20.7	21.5	21.2	21.9	22.4
8H	4H	20.1	21.0	20.6	21.4	21.9	20.4	21.3	20.8	21.7	22.2
	6H	20.6	21.3	21.1	21.8	22.3	20.9	21.6	21.3	22.1	22.6
	8H	20.9	21.5	21.4	22.0	22.5	21.0	21.7	21.5	22.2	22.7
	12H	21.2	21.8	21.7	22.3	22.8	21.2	21.7	21.7	22.2	22.8
12H	4H	20.1	20.9	20.6	21.4	21.9	20.4	21.2	20.9	21.7	22.1
	6H	20.7	21.3	21.2	21.8	22.3	20.9	21.6	21.4	22.1	22.6
	8H	21.0	21.6	21.5	22.1	22.6	21.2	21.7	21.7	22.2	22.7

Luminance table		Max. for $\gamma \geq 65^\circ$			Photometric dimensions in mm:	L = 2392 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°	5782.5	5934.2	6098.2	5997.1	5561.0	5228.9	5297.1
	50°	5021.6	5195.9	5553.5	5803.7	5498.4	5009.8	5022.2
	55°	4222.7	4377.9	4771.1	5271.8	5272.7	4735.6	4695.9
	60°	3469.2	3591.4	3922.6	4490.5	4794.4	4367.1	4307.5
	65°	2811.4	2901.4	3144.1	3647.9	4129.3	3900.2	3883.5
	70°	2251.9	2328.3	2507.1	2910.8	3410.0	3373.1	3450.3
	75°	1815.0	1872.9	2033.5	2359.0	2753.3	2801.9	2994.7
	80°	1623.4	1648.6	1745.4	1943.6	2175.6	2201.0	2488.4
	85°	1617.8	1629.4	1662.5	1701.7	1718.2	1634.3	1978.7

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

