

Photometric test report

Family
Highbay 11

Order number: 51HN12DA3LMA
EAN: 4069025424600

LP number
59710_389

serial
documentation
09.04.2025

siteco

Version primary light control with lens, PMMA, housing, white, for Modario® rail, wide distribution

Lamps LED 3000 K | CRI ≥ 80

Controlgear ECG-DALI

Rated values Net luminous flux = 26560 lm
Power consumption = 146.7 W
Luminous efficacy = 181 lm/W



Luminous intensity in cd/klm

C180-0

C270-90

Imax: 772 cd/klm



Classifications

DIN 5040 A 6 0
CIE N1=88 N2=98 N3=100
N4=100 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 100.0%
 ϕ_o 0.0%

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	
0,0°	643.6	643.6	643.6	643.6	643.6	643.6	643.6	1.0	1.0
2,5°	644.5	645.1	645.0	644.3	644.2	643.7	641.7	7.7	8.7
5,0°	651.5	652.3	650.7	647.5	645.3	643.2	640.4	15.5	24.1
7,5°	669.6	669.1	664.2	657.2	651.2	645.8	641.3	23.5	47.6
10,0°	693.4	691.0	681.5	670.0	659.9	651.2	645.8	31.9	79.6
12,5°	711.8	709.4	700.3	685.9	671.9	660.7	654.0	40.7	120.2
15,0°	721.3	721.7	717.1	704.9	689.4	675.9	667.7	49.7	169.9
17,5°	743.8	740.8	737.9	726.5	708.9	693.0	684.2	59.4	229.3
20,0°	761.9	761.9	759.6	745.2	724.0	705.6	696.8	69.2	298.5
22,5°	772.0	771.2	770.0	754.7	731.1	710.8	702.6	78.2	376.7
25,0°	758.1	756.6	756.3	743.6	722.7	703.3	695.6	85.1	461.8
27,5°	706.7	709.5	709.5	700.0	685.7	672.3	667.0	87.8	549.7
30,0°	640.4	635.6	633.7	626.6	621.7	614.1	609.9	85.8	635.5
32,5°	530.6	537.6	535.6	526.2	530.2	524.1	520.8	78.1	713.6
35,0°	428.2	426.4	425.9	411.9	420.8	414.2	411.4	66.0	779.6
37,5°	322.5	323.4	327.0	311.0	319.4	310.8	308.2	53.0	832.6
40,0°	236.1	234.0	241.6	230.8	230.9	219.8	218.4	40.7	873.3
42,5°	162.3	165.3	172.9	171.1	161.7	151.3	150.8	30.2	903.5
45,0°	117.3	114.9	119.4	122.5	109.3	102.6	102.3	21.9	925.4
47,5°	80.5	81.4	82.8	85.5	75.2	71.4	70.8	15.9	941.3
50,0°	59.4	58.0	58.0	59.0	52.9	50.5	49.6	11.7	953.0
52,5°	43.3	42.8	42.8	43.0	39.3	37.2	36.6	8.9	961.8
55,0°	33.3	32.4	32.9	33.7	30.5	28.7	28.3	7.1	968.9
57,5°	25.9	25.4	25.9	26.8	24.5	22.9	22.9	5.8	974.7
60,0°	20.9	20.2	21.2	21.8	20.4	18.9	19.2	4.9	979.5
62,5°	16.9	16.2	17.4	18.0	17.2	15.9	16.4	4.1	983.6
65,0°	14.9	13.6	14.4	15.1	14.8	13.6	14.4	3.6	987.2
67,5°	12.3	11.4	12.5	12.4	13.0	11.7	12.6	3.1	990.3
70,0°	10.4	9.5	10.5	10.1	11.1	10.1	11.0	2.7	993.0
72,5°	8.2	7.7	7.9	8.2	8.7	8.6	9.5	2.2	995.2
75,0°	6.5	6.0	6.0	6.4	6.6	7.1	7.9	1.7	996.9
77,5°	4.5	4.3	4.4	4.7	5.1	5.6	6.3	1.3	998.2
80,0°	2.9	2.7	2.9	3.1	3.5	4.1	4.7	0.9	999.1
82,5°	1.3	1.4	1.6	1.8	2.2	2.7	3.3	0.5	999.7
85,0°	0.6	0.6	0.6	0.7	1.0	1.4	1.8	0.3	999.9
87,5°	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.1	1000.0
90,0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	21.9	23.2	22.3	23.5	23.8	21.6	22.9	22.0	23.2	23.5
	3H	21.9	23.0	22.3	23.4	23.7	21.6	22.8	22.0	23.1	23.5
	4H	21.9	22.9	22.3	23.3	23.7	21.7	22.7	22.1	23.1	23.4
	6H	21.9	22.8	22.3	23.2	23.6	21.7	22.6	22.1	23.0	23.4
	8H	21.9	22.7	22.4	23.1	23.5	21.8	22.6	22.2	23.0	23.4
	12H	21.9	22.6	22.4	23.0	23.5	21.8	22.5	22.2	22.9	23.3
4H	2H	21.8	22.8	22.2	23.2	23.6	21.5	22.6	21.9	22.9	23.3
	3H	21.8	22.7	22.3	23.1	23.5	21.6	22.4	22.0	22.8	23.3
	4H	21.8	22.6	22.3	23.0	23.5	21.6	22.4	22.1	22.8	23.2
	6H	21.8	22.5	22.3	22.9	23.4	21.7	22.3	22.1	22.8	23.2
	8H	21.8	22.4	22.3	22.8	23.3	21.7	22.3	22.2	22.7	23.2
	12H	21.8	22.3	22.3	22.7	23.2	21.7	22.2	22.2	22.7	23.2
8H	4H	21.8	22.4	22.2	22.8	23.3	21.6	22.2	22.0	22.6	23.1
	6H	21.7	22.2	22.2	22.7	23.2	21.6	22.1	22.1	22.6	23.1
	8H	21.7	22.1	22.2	22.6	23.1	21.6	22.1	22.1	22.5	23.1
	12H	21.7	22.0	22.2	22.5	23.1	21.7	22.0	22.2	22.5	23.0
12H	4H	21.8	22.3	22.3	22.7	23.2	21.6	22.0	22.1	22.5	23.0
	6H	21.8	22.1	22.3	22.6	23.1	21.6	22.0	22.1	22.5	23.0
	8H	21.7	22.0	22.2	22.5	23.1	21.6	22.0	22.2	22.5	23.0

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 426 B = 264	
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						
45,0°	39185.0	38369.1	39884.1	40906.4	36494.1	34264.4	34163.5
50,0°	21832.4	21316.2	21293.8	21674.1	19449.0	18544.1	18225.9
55,0°	13720.4	13353.6	13544.2	13855.1	12568.4	11814.5	11672.4
60,0°	9868.4	9526.4	10009.6	10310.0	9653.0	8939.3	9053.1
65,0°	8326.9	7574.7	8073.7	8421.9	8247.0	7626.7	8057.5
70,0°	7157.0	6530.0	7223.3	6988.5	7666.6	6978.9	7621.7
75,0°	5898.2	5463.0	5448.4	5827.0	6054.2	6480.4	7224.0
80,0°	3982.1	3715.6	3931.8	4247.3	4794.1	5638.6	6427.4
85,0°	1590.6	1582.5	1633.9	1913.0	2828.9	3769.2	4882.8

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Luminance values in cd/m²

γ 65°

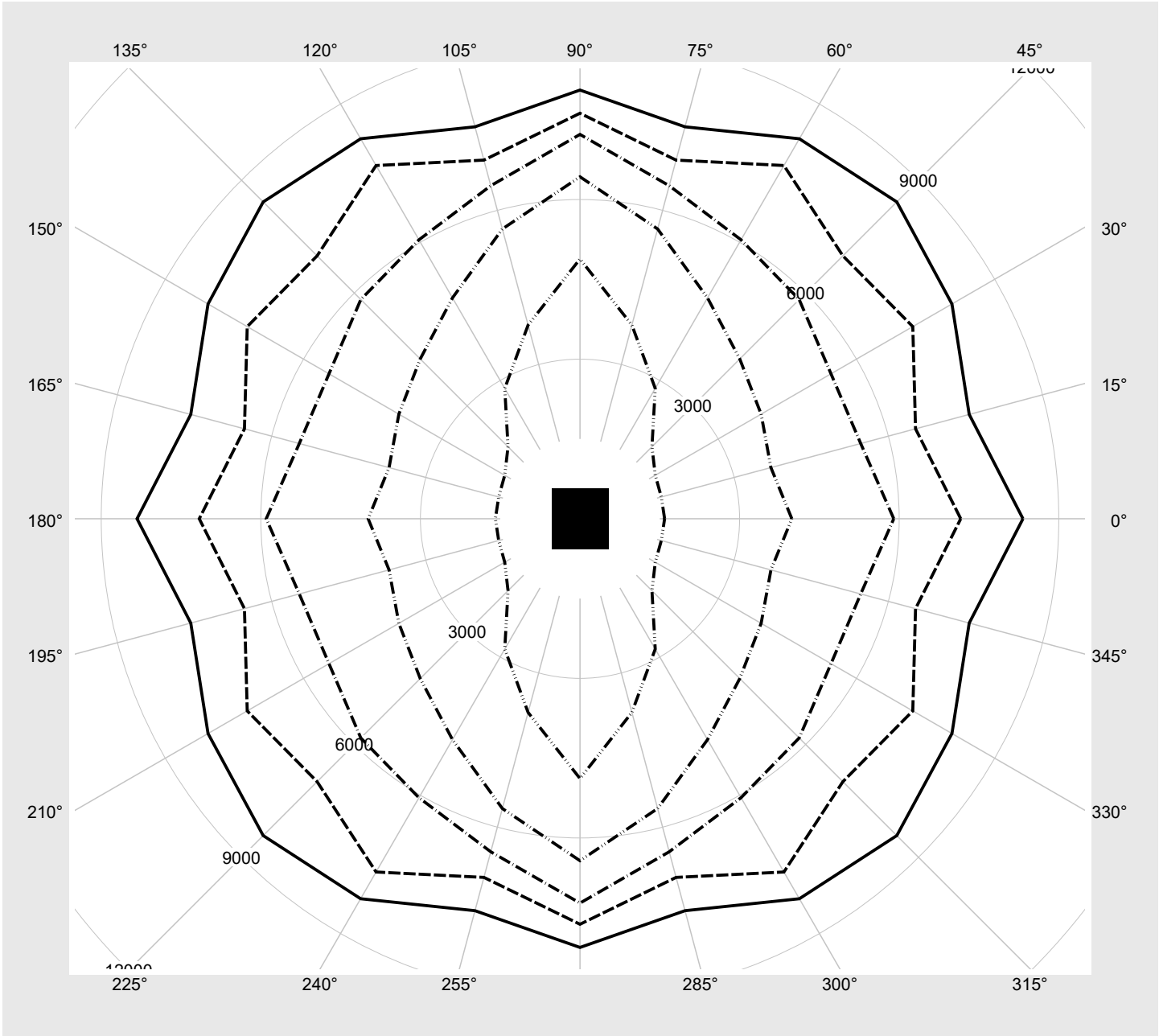
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table		environmental temperature: 25°C



Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	26560	146.7
95	240	252	25227	138.3
90	226	250	23867	129.7
85	213	248	22597	121.9
80	199	245	21219	113.6
75	186	243	19927	105.9
70	173	240	18623	98.3
65	160	237	17309	90.7
60	147	234	15972	83.1
55	134	231	14635	75.6
50	121	227	13277	68.3
45	108	223	11902	60.9
40	96	218	10632	54.0
35	84	213	9341	47.3
30	71	207	7932	40.1
25	59	201	6615	33.5
20	47	192	5289	27.0
15	35	181	3944	20.6
10	24	168	2704	14.6
5	12	142	1335	7.8
2	5	110	528	3.9