

Photometric test report

Family
Highbay 11

Order number: 51HN12DB4WMA
EAN: 4069025419736

LP number
59710_344

serial
documentation
18.03.2025



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

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG-DALI

Rated values Net luminous flux = 63000 lm
Power consumption = 329.9 W
Luminous efficacy = 191 lm/W

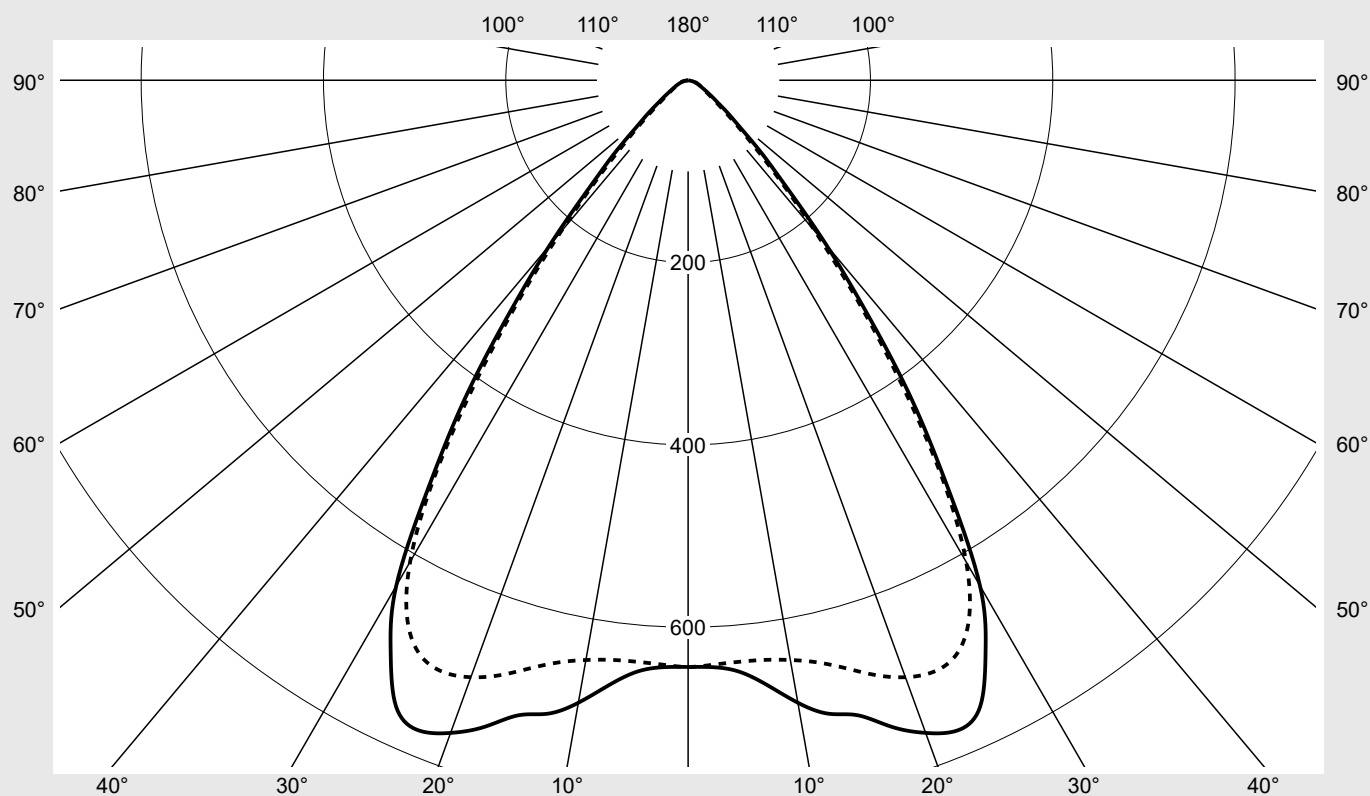
siteco

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	22.5	23.8	22.9	24.1	24.4	22.2	23.5	22.6	23.8	24.1
	3H	22.5	23.6	22.9	24.0	24.3	22.2	23.4	22.6	23.7	24.0
	4H	22.5	23.5	22.9	23.9	24.3	22.2	23.3	22.6	23.6	24.0
	6H	22.5	23.4	22.9	23.8	24.2	22.3	23.2	22.7	23.6	24.0
	8H	22.5	23.3	23.0	23.7	24.1	22.4	23.2	22.8	23.5	24.0
	12H	22.5	23.2	22.9	23.6	24.1	22.4	23.1	22.8	23.5	23.9
4H	2H	22.4	23.4	22.8	23.8	24.2	22.1	23.1	22.5	23.5	23.9
	3H	22.4	23.3	22.9	23.7	24.1	22.2	23.0	22.6	23.4	23.8
	4H	22.4	23.2	22.9	23.6	24.0	22.2	23.0	22.7	23.4	23.8
	6H	22.4	23.1	22.9	23.5	24.0	22.3	22.9	22.7	23.4	23.8
	8H	22.4	23.0	22.9	23.4	23.9	22.3	22.9	22.8	23.3	23.8
	12H	22.4	22.9	22.9	23.3	23.8	22.3	22.8	22.8	23.3	23.8
8H	4H	22.4	22.9	22.8	23.4	23.9	22.2	22.7	22.6	23.2	23.7
	6H	22.3	22.8	22.8	23.3	23.8	22.2	22.7	22.7	23.2	23.7
	8H	22.3	22.7	22.8	23.2	23.7	22.2	22.6	22.7	23.1	23.7
	12H	22.3	22.6	22.8	23.1	23.7	22.3	22.6	22.8	23.1	23.6
12H	4H	22.4	22.8	22.9	23.3	23.8	22.2	22.6	22.7	23.1	23.6
	6H	22.3	22.7	22.9	23.2	23.7	22.2	22.6	22.7	23.1	23.6
	8H	22.3	22.6	22.8	23.1	23.7	22.2	22.5	22.8	23.1	23.6

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 852 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°	46473.2	45505.5	47302.3	48514.7	43281.8	40637.4	40517.7
50,0°	25893.1	25280.9	25254.3	25705.3	23066.4	21993.2	21615.9
55,0°	16272.3	15837.2	16063.3	16432.0	14906.0	14011.9	13843.4
60,0°	11703.8	11298.3	11871.3	12227.6	11448.4	10602.0	10737.0
65,0°	9875.6	8983.6	9575.4	9988.3	9780.8	9045.2	9556.2
70,0°	8488.2	7744.6	8566.8	8288.4	9092.5	8276.9	9039.3
75,0°	6995.2	6479.0	6461.7	6910.8	7180.3	7685.7	8567.6
80,0°	4722.8	4406.6	4663.1	5037.3	5685.7	6687.4	7622.9
85,0°	1886.4	1876.8	1937.8	2268.8	3355.1	4470.2	5791.0

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Luminance values in cd/m²

γ 65°

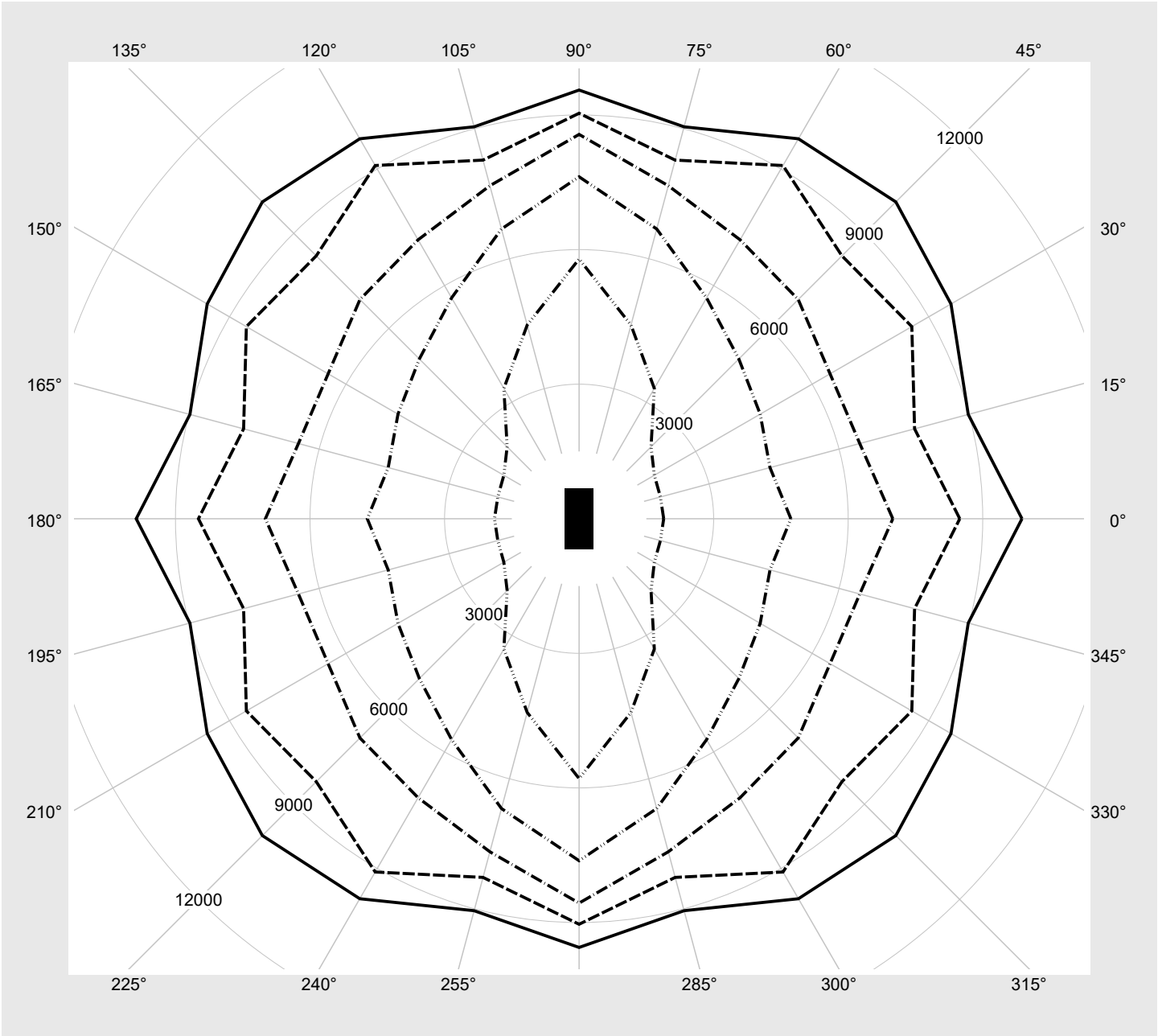
γ 70°

γ 75°

γ 80°

γ 85°

siteco



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Dimming levels table		environmental temperature: 25°C
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	63000	329.9
95	240	252	59842	310.6
90	226	250	56597	291.9
85	213	248	53578	274.3
80	199	245	50295	255.6
75	186	243	47218	238.5
70	173	240	44117	221.4
65	160	237	40978	204.4
60	147	234	37842	187.6
55	134	231	34659	170.8
50	121	227	31475	154.3
45	108	223	28230	137.7
40	96	218	25216	122.6
35	84	213	22170	107.5
30	71	207	18840	91.4
25	59	201	15720	76.8
20	47	192	12573	62.2
15	35	181	9389	47.8
10	24	168	6424	34.5
5	12	142	3162	19.5
2	5	110	1243	10.6