

Photometric test report

Family
Highbay 11

Order number: 51HN11DB5MMA
EAN: 4069025424372

LP number
59711_381

serial
documentation
09.04.2025



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

Lamps LED 5000 K | CRI ≥ 80

Controlgear ECG-DALI

Rated values Net luminous flux = 29840 lm
Power consumption = 146.4 W
Luminous efficacy = 203.8 lm/W

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Luminous intensity in cd/klm

C180-0

C270-90

Imax: 2679 cd/klm



Classifications

DIN 5040 A 7 0
CIE N1=85 N2=97 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°	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	4.0	4.0
2,5°	2608.0	2619.4	2619.4	2616.5	2617.6	2616.2	2606.1	31.3	35.3
5,0°	2420.1	2415.7	2414.1	2408.4	2406.6	2402.3	2391.7	57.6	92.8
7,5°	2113.4	2116.1	2112.3	2103.0	2097.6	2090.5	2079.6	75.2	168.1
10,0°	1780.1	1768.7	1762.7	1751.6	1743.6	1735.2	1724.7	83.4	251.5
12,5°	1410.1	1409.3	1404.7	1395.9	1388.1	1380.5	1373.1	82.8	334.3
15,0°	1106.5	1097.8	1095.0	1089.4	1083.1	1078.4	1073.9	77.3	411.5
17,5°	830.1	840.2	835.5	831.1	826.6	824.9	824.1	68.5	480.0
20,0°	671.1	661.9	651.8	643.2	639.9	639.4	641.0	60.8	540.8
22,5°	531.9	530.5	514.2	498.9	497.0	496.6	496.8	53.4	594.2
25,0°	450.6	441.3	420.6	401.3	399.0	395.8	392.4	47.9	642.1
27,5°	370.8	368.7	351.4	331.7	326.8	321.1	316.0	43.1	685.2
30,0°	320.4	312.1	300.8	284.1	278.0	270.2	264.7	39.7	724.9
32,5°	271.0	266.8	259.0	245.6	238.0	229.0	224.7	36.5	761.4
35,0°	235.8	228.9	222.7	210.5	201.6	193.0	191.7	33.3	794.7
37,5°	204.4	197.8	191.5	181.1	172.0	164.3	162.4	30.3	825.0
40,0°	176.7	170.7	163.1	154.3	146.1	138.3	135.6	27.3	852.2
42,5°	147.6	145.5	138.6	130.6	123.2	115.8	113.3	24.2	876.4
45,0°	126.0	121.8	116.3	109.0	102.0	95.3	93.2	21.1	897.6
47,5°	103.2	101.5	97.1	90.9	84.6	78.4	76.7	18.3	915.9
50,0°	85.9	82.9	79.4	74.6	69.1	63.7	61.9	15.5	931.4
52,5°	69.0	67.2	64.5	61.0	56.2	51.6	49.7	13.0	944.4
55,0°	55.6	54.1	52.2	49.5	45.7	41.7	40.0	10.9	955.3
57,5°	43.6	43.1	41.8	39.8	37.0	33.6	32.2	9.0	964.3
60,0°	33.2	33.3	33.9	32.4	30.5	27.5	26.1	7.4	971.7
62,5°	25.9	26.0	27.0	26.2	25.1	22.4	21.3	6.1	977.8
65,0°	21.6	21.2	21.7	21.3	20.9	18.8	17.7	5.1	982.9
67,5°	17.0	17.1	17.8	17.0	17.3	15.6	14.8	4.3	987.2
70,0°	13.5	13.4	14.4	13.6	14.1	13.0	12.4	3.5	990.7
72,5°	11.0	10.8	10.9	10.9	11.0	10.7	10.6	2.8	993.5
75,0°	9.0	8.4	8.4	8.3	8.6	9.0	8.9	2.3	995.8
77,5°	6.6	6.4	6.2	6.2	6.6	7.3	7.4	1.8	997.5
80,0°	4.4	4.2	4.1	4.2	4.7	5.7	5.8	1.3	998.8
82,5°	2.0	2.1	2.2	2.4	3.0	3.9	4.1	0.8	999.6
85,0°	0.8	0.8	0.8	1.0	1.5	2.2	2.4	0.4	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	18.9	20.1	19.2	20.4	20.7	17.7	18.9	18.0	19.2
	3H	19.1	20.1	19.5	20.5	20.8	18.0	19.0	18.4	19.3
	4H	19.2	20.1	19.6	20.5	20.9	18.1	19.1	18.5	19.4
	6H	19.2	20.1	19.7	20.4	20.8	18.3	19.1	18.7	19.5
	8H	19.3	20.0	19.7	20.4	20.8	18.4	19.1	18.8	19.5
	12H	19.3	19.9	19.7	20.3	20.7	18.4	19.1	18.8	19.4
4H	2H	18.9	19.9	19.3	20.2	20.6	17.9	18.8	18.3	19.2
	3H	19.3	20.0	19.7	20.4	20.8	18.3	19.1	18.7	19.5
	4H	19.4	20.1	19.8	20.5	20.9	18.5	19.2	18.9	19.6
	6H	19.4	20.0	19.9	20.5	20.9	18.7	19.3	19.1	19.7
	8H	19.4	19.9	19.9	20.4	20.9	18.8	19.3	19.2	19.7
	12H	19.4	19.8	19.9	20.3	20.8	18.8	19.2	19.3	19.7
8H	4H	19.4	19.9	19.8	20.3	20.8	18.5	19.0	19.0	19.5
	6H	19.4	19.9	19.9	20.3	20.8	18.7	19.2	19.2	19.6
	8H	19.4	19.8	19.9	20.3	20.8	18.8	19.2	19.3	19.7
	12H	19.4	19.7	19.9	20.2	20.7	18.9	19.2	19.4	19.7
12H	4H	19.3	19.8	19.8	20.2	20.7	18.5	18.9	19.0	19.4
	6H	19.4	19.8	19.9	20.3	20.8	18.7	19.1	19.2	19.6
	8H	19.4	19.7	19.9	20.2	20.8	18.8	19.1	19.3	19.6

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 852 B = 264	
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°
			Luminance in cd/m²				
45,0°	50,0°	55,0°	60,0°	65,0°	70,0°	75,0°	80,0°
65,0°	70,0°	75,0°	80,0°	85,0°			
70,0°	75,0°	80,0°	85,0°				
75,0°	80,0°	85,0°					
80,0°	85,0°						
85,0°							

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Luminance values in cd/m²

γ 65°

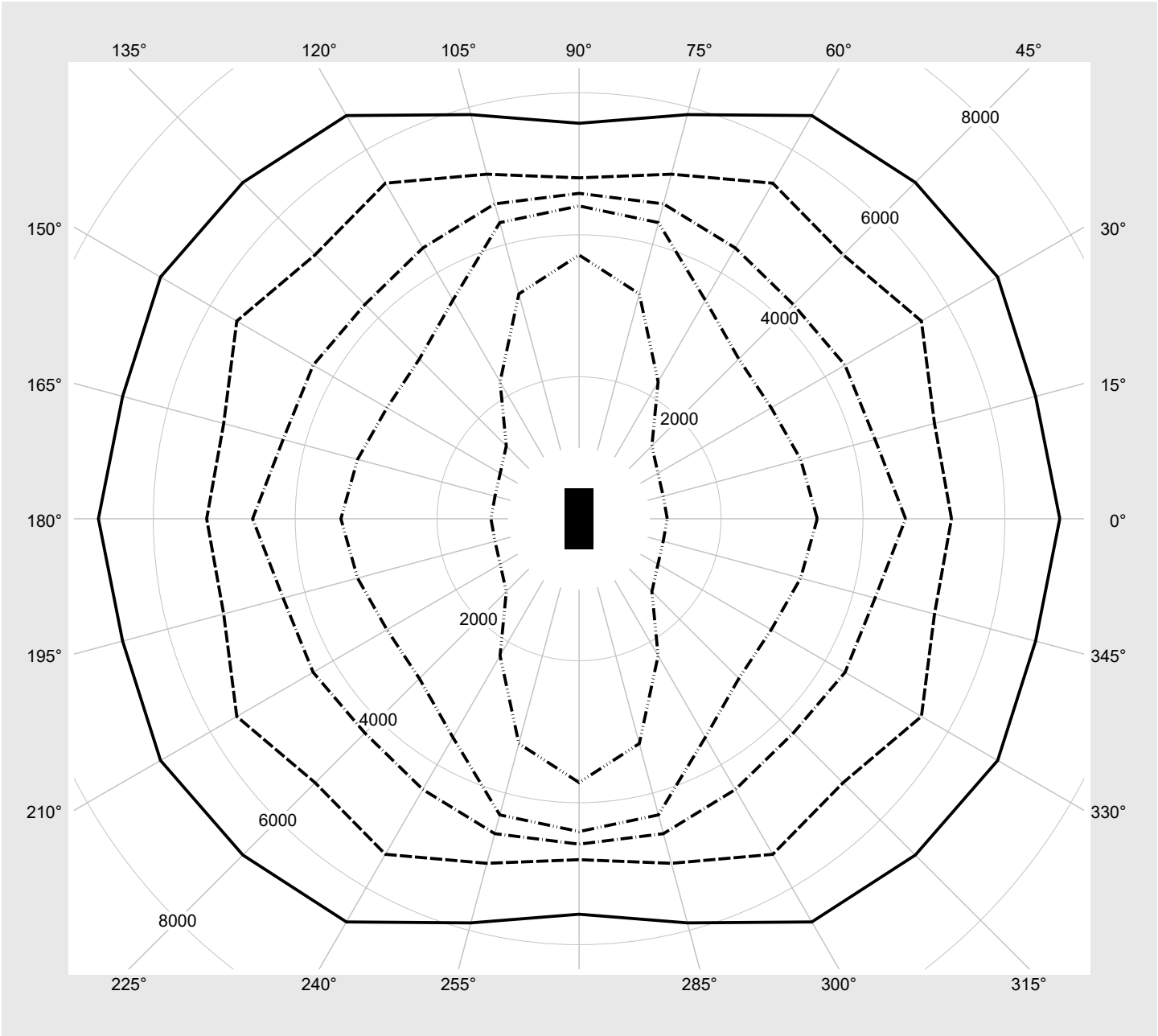
γ 70°

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	29840	146.4
95	241	252	28384	138.6
90	227	250	26806	130.2
85	214	248	25337	122.5
80	201	245	23855	114.9
75	188	243	22371	107.3
70	175	240	20871	99.7
65	162	238	19373	92.2
60	149	234	17864	84.7
55	137	231	16463	77.8
50	124	228	14939	70.5
45	111	224	13398	62.9
40	99	219	11973	56.2
35	86	214	10415	48.8
30	74	209	8972	42.2
25	62	202	7514	35.5
20	49	194	5930	28.4
15	37	183	4454	21.8
10	25	169	2973	15.3
5	13	145	1478	8.4
2	5	110	478	3.9