

Photometric test report

Family
Highbay 11Order number: 51HN11DB6PMA
EAN: 4069025424501LP number
59711_385serial
documentation
09.04.2025

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

Lamps LED 6500 K | CRI ≥ 80

Controlgear ECG-DALI

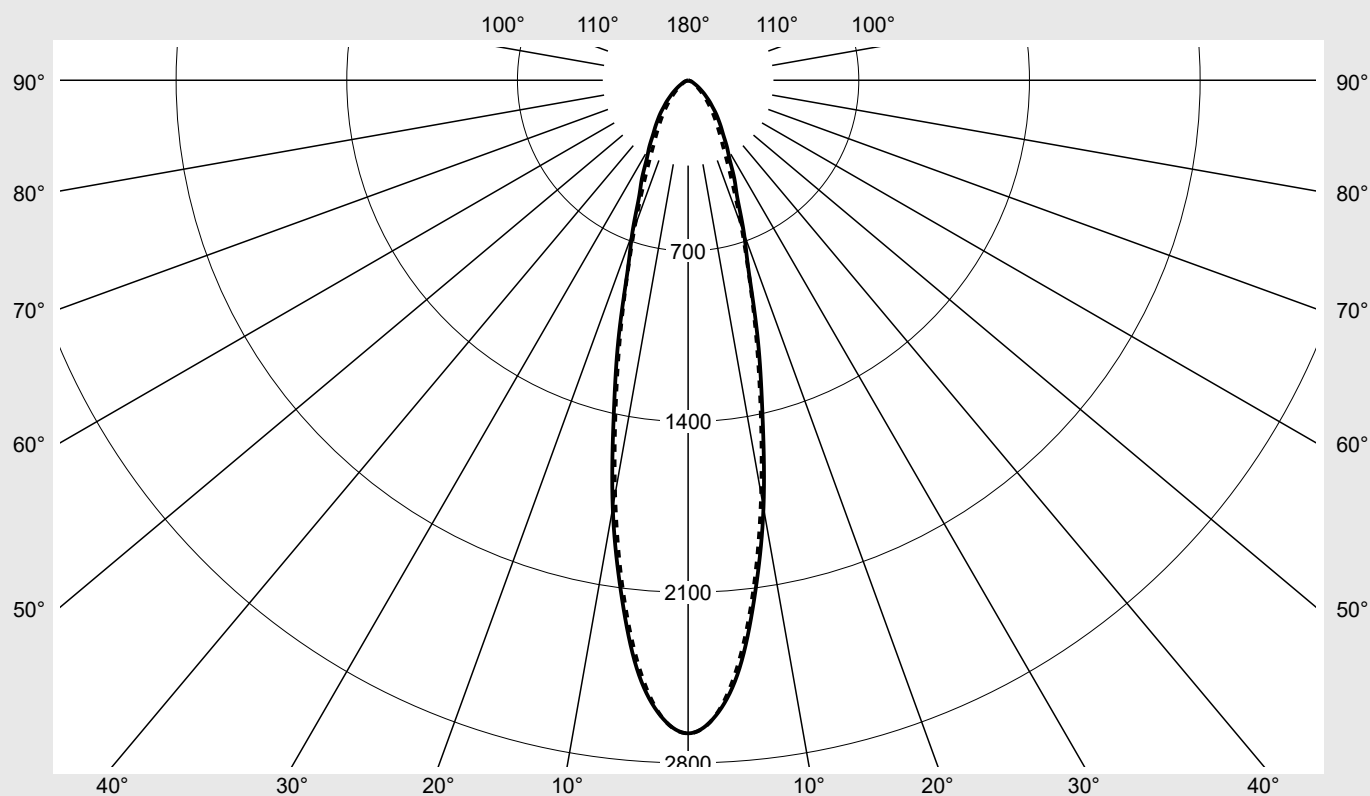
Rated values Net luminous flux = 34160 lm
Power consumption = 177.6 W
Luminous efficacy = 192.3 lm/W

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	19.3	20.5	19.7	20.8	21.2	18.2	19.3	18.5	19.6	20.0
	3H	19.6	20.6	20.0	20.9	21.3	18.4	19.5	18.8	19.8	20.2
	4H	19.7	20.6	20.1	21.0	21.3	18.6	19.5	19.0	19.9	20.3
	6H	19.7	20.5	20.1	20.9	21.3	18.7	19.6	19.1	19.9	20.3
	8H	19.8	20.5	20.2	20.9	21.3	18.8	19.6	19.3	19.9	20.4
	12H	19.7	20.4	20.2	20.8	21.2	18.8	19.5	19.3	19.9	20.3
4H	2H	19.4	20.4	19.8	20.7	21.1	18.4	19.3	18.8	19.6	20.0
	3H	19.7	20.5	20.2	20.9	21.3	18.8	19.5	19.2	19.9	20.3
	4H	19.8	20.5	20.3	20.9	21.4	18.9	19.6	19.4	20.0	20.5
	6H	19.9	20.5	20.4	20.9	21.4	19.1	19.7	19.6	20.2	20.6
	8H	19.9	20.4	20.4	20.9	21.4	19.2	19.7	19.7	20.2	20.7
	12H	19.9	20.3	20.4	20.8	21.3	19.3	19.7	19.8	20.2	20.7
8H	4H	19.8	20.3	20.3	20.8	21.3	19.0	19.5	19.4	19.9	20.4
	6H	19.9	20.3	20.4	20.8	21.3	19.2	19.6	19.7	20.1	20.6
	8H	19.9	20.3	20.4	20.8	21.3	19.3	19.7	19.8	20.2	20.7
	12H	19.9	20.2	20.4	20.7	21.2	19.4	19.7	19.9	20.2	20.7
12H	4H	19.8	20.2	20.3	20.7	21.2	19.0	19.4	19.5	19.8	20.3
	6H	19.9	20.2	20.4	20.7	21.3	19.2	19.5	19.7	20.0	20.6
	8H	19.9	20.2	20.4	20.7	21.2	19.3	19.6	19.8	20.1	20.6

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°	27059.4	26156.1	24977.8	23415.5	21907.8	20474.6	20016.2
50,0°	20285.6	19579.4	18750.1	17636.8	16314.4	15040.4	14614.7
55,0°	14719.3	14320.8	13824.6	13106.5	12096.9	11041.8	10598.0
60,0°	10099.1	10110.0	10298.1	9838.8	9253.8	8348.9	7932.2
65,0°	7753.8	7623.0	7795.9	7669.8	7507.7	6746.9	6377.5
70,0°	6007.4	5935.0	6376.0	6021.2	6248.5	5752.5	5497.7
75,0°	5266.4	4942.5	4953.6	4886.7	5041.6	5257.0	5247.6
80,0°	3842.1	3699.5	3578.8	3643.5	4071.2	4944.1	5044.6
85,0°	1421.9	1404.5	1468.9	1660.6	2549.3	3753.4	4253.5

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Luminance values in cd/m²

γ 65°

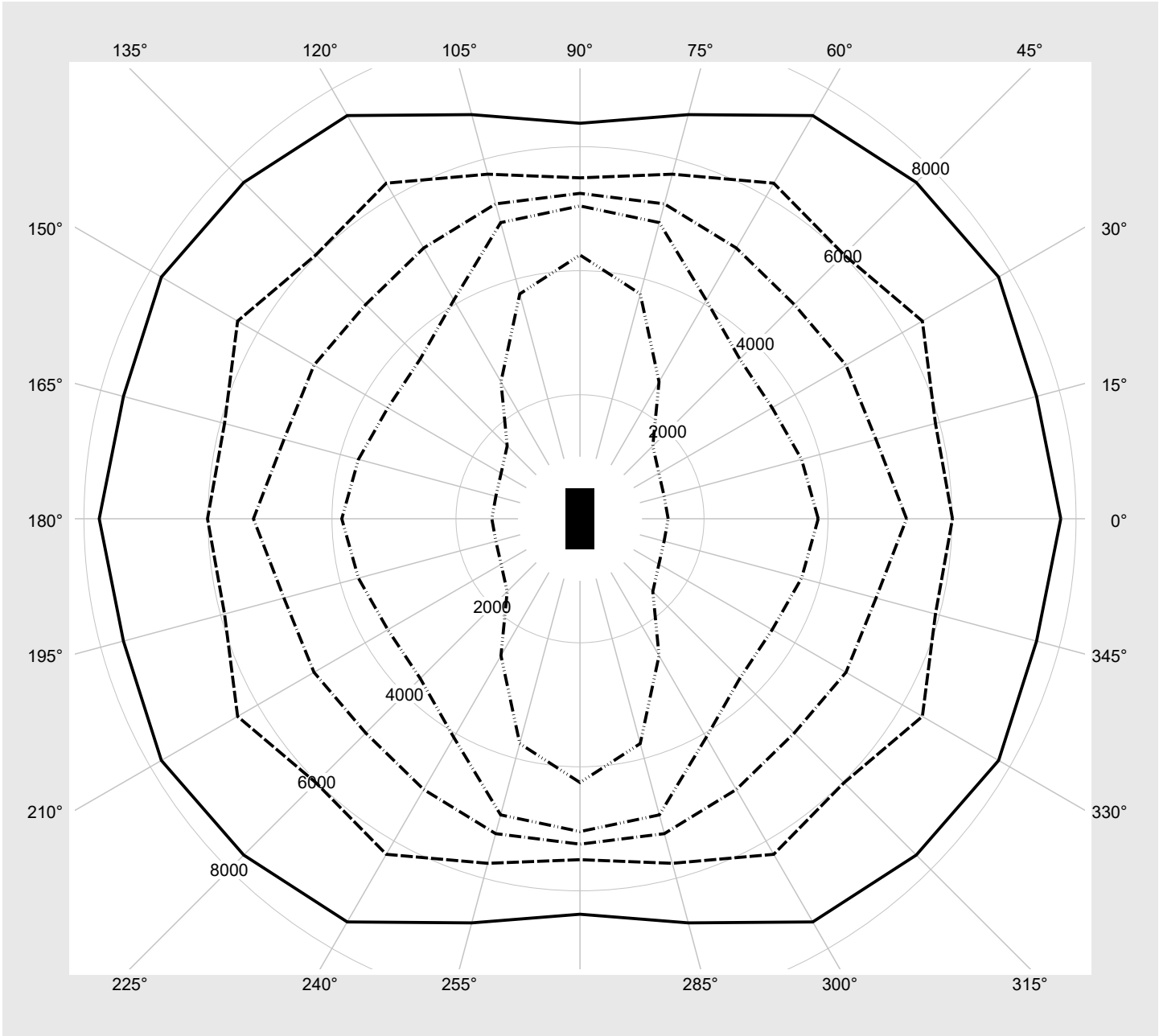
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table environmental temperature: 25°C		siteco

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	34160	177.6
95	241	252	32503	168.2
90	227	250	30707	158.1
85	214	248	29034	148.9
80	201	245	27342	139.5
75	188	243	25645	130.4
70	175	240	23938	121.1
65	162	238	22227	112.1
60	149	234	20500	103.0
55	136	231	18770	94.0
50	123	227	17022	85.0
45	111	224	15395	76.8
40	98	219	13625	67.9
35	86	214	11983	59.8
30	73	208	10195	50.9
25	61	202	8525	42.9
20	49	194	6851	35.0
15	37	183	5166	27.2
10	25	169	3471	19.3
5	13	145	1761	11.1
1	4	102	475	4.8