

Photometric test report

Family Highbay 11	Order number: 51HN11DB6MMA EAN: 4069025424471	LP number 59711_384
	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 = 28420 lm Power consumption = 146.3 W Luminous efficacy = 194.3 lm/W
		serial documentation 09.04.2025
		



Classifications		Luminaire light output ratios	
DIN 5040	A 7 0	η_{LB}	100.0%
CIE	N1=85 N2=97 N3=100	ϕ_u	100.0%
	N4=100 N5=100	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	18.7	19.9	19.1	20.2	20.5	17.5	18.7	17.9	19.0	19.3
	3H	18.9	20.0	19.3	20.3	20.7	17.8	18.8	18.2	19.2	19.5
	4H	19.0	20.0	19.4	20.3	20.7	17.9	18.9	18.3	19.2	19.6
	6H	19.1	19.9	19.5	20.3	20.7	18.1	18.9	18.5	19.3	19.7
	8H	19.1	19.8	19.6	20.2	20.6	18.2	18.9	18.6	19.3	19.7
	12H	19.1	19.7	19.5	20.1	20.6	18.2	18.9	18.6	19.3	19.7
4H	2H	18.8	19.7	19.2	20.1	20.4	17.7	18.7	18.1	19.0	19.4
	3H	19.1	19.9	19.5	20.3	20.7	18.1	18.9	18.5	19.3	19.7
	4H	19.2	19.9	19.6	20.3	20.7	18.3	19.0	18.7	19.4	19.9
	6H	19.3	19.9	19.7	20.3	20.8	18.5	19.1	19.0	19.5	20.0
	8H	19.3	19.8	19.7	20.2	20.7	18.6	19.1	19.1	19.6	20.0
	12H	19.3	19.7	19.7	20.1	20.6	18.6	19.1	19.1	19.5	20.0
8H	4H	19.2	19.7	19.7	20.2	20.6	18.3	18.8	18.8	19.3	19.8
	6H	19.3	19.7	19.8	20.2	20.7	18.6	19.0	19.1	19.5	20.0
	8H	19.2	19.6	19.8	20.1	20.6	18.7	19.0	19.2	19.5	20.0
	12H	19.2	19.5	19.8	20.0	20.6	18.7	19.0	19.3	19.5	20.1
12H	4H	19.2	19.6	19.7	20.1	20.6	18.3	18.7	18.8	19.2	19.7
	6H	19.3	19.6	19.8	20.1	20.6	18.5	18.9	19.1	19.4	19.9
	8H	19.2	19.5	19.8	20.0	20.6	18.6	18.9	19.2	19.5	20.0

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 852 B = 264	
C-planes	0°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
	180°						
γ	Luminance in cd/m²						
45,0°	22512.6	21761.0	20780.7	19480.9	18226.5	17034.2	16652.8
50,0°	16876.9	16289.4	15599.4	14673.2	13573.0	12513.1	12158.9
55,0°	12246.0	11914.5	11501.6	10904.2	10064.3	9186.4	8817.2
60,0°	8402.1	8411.2	8567.6	8185.6	7698.9	6946.0	6599.3
65,0°	6450.9	6342.1	6485.9	6381.0	6246.1	5613.2	5305.9
70,0°	4998.0	4937.8	5304.6	5009.4	5198.6	4785.9	4573.9
75,0°	4381.5	4112.0	4121.3	4065.6	4194.5	4373.6	4365.8
80,0°	3196.5	3077.9	2977.5	3031.3	3387.1	4113.3	4197.0
85,0°	1183.0	1168.5	1222.1	1381.6	2120.9	3122.7	3538.8

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Luminance values in cd/m²

γ 65°

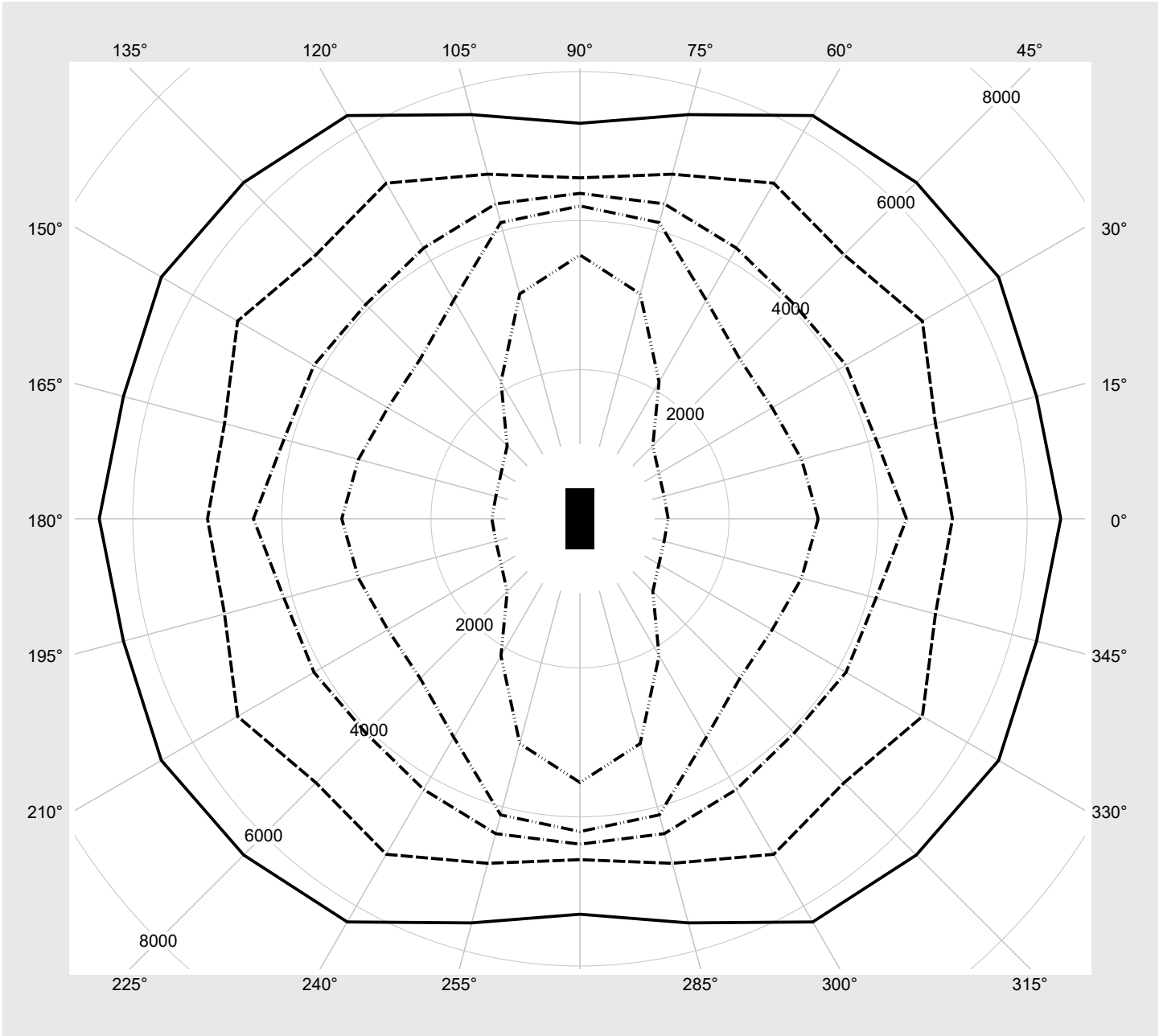
γ 70°

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	28420	146.3
95	241	252	27029	138.5
90	228	250	25629	130.7
85	214	248	24118	122.4
80	201	245	22703	114.8
75	188	243	21287	107.2
70	175	240	19855	99.6
65	162	238	18425	92.1
60	150	235	17098	85.1
55	137	231	15651	77.8
50	124	228	14198	70.4
45	112	224	12845	63.5
40	99	219	11377	56.1
35	86	214	9895	48.8
30	74	209	8525	42.2
25	62	202	7142	35.5
20	49	194	5641	28.4
15	37	183	4245	21.7
10	25	169	2845	15.3
5	13	145	1434	8.4
2	5	110	492	3.9