

Photometric test report

Family Highbay 11	Order number: 51HN11DB4PMA EAN: 4069025379160	LP number 59711_338
	Version	primary light control with lens, PMMA, housing, white, for Modario® rail, narrow distribution
	Lamps	LED 4000 K CRI ≥ 80
	Controlgear	ECG-DALI
	Rated values	Net luminous flux = 33000 lm Power consumption = 161.6 W Luminous efficacy = 204.2 lm/W
		serial documentation 05.03.2025
		



Classifications		Luminaire light output ratios	
DIN 5040	A 7 0	ηLB	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	19.2	20.4	19.6	20.7	21.0	18.0	19.2	18.4	19.5
	3H	19.5	20.5	19.8	20.8	21.2	18.3	19.4	18.7	19.7
	4H	19.5	20.5	19.9	20.8	21.2	18.5	19.4	18.9	19.8
	6H	19.6	20.4	20.0	20.8	21.2	18.6	19.4	19.0	19.8
	8H	19.6	20.4	20.1	20.7	21.2	18.7	19.4	19.1	19.8
	12H	19.6	20.3	20.0	20.7	21.1	18.7	19.4	19.2	19.8
4H	2H	19.3	20.2	19.7	20.6	21.0	18.2	19.2	18.6	19.5
	3H	19.6	20.4	20.0	20.8	21.2	18.6	19.4	19.1	19.8
	4H	19.7	20.4	20.2	20.8	21.3	18.8	19.5	19.3	19.9
	6H	19.8	20.4	20.3	20.8	21.3	19.0	19.6	19.5	20.0
	8H	19.8	20.3	20.3	20.7	21.2	19.1	19.6	19.6	20.1
	12H	19.8	20.2	20.3	20.7	21.2	19.2	19.6	19.7	20.1
8H	4H	19.7	20.2	20.2	20.7	21.2	18.8	19.4	19.3	19.8
	6H	19.8	20.2	20.3	20.7	21.2	19.1	19.5	19.6	20.0
	8H	19.8	20.1	20.3	20.6	21.2	19.2	19.5	19.7	20.0
	12H	19.7	20.0	20.3	20.5	21.1	19.3	19.6	19.8	20.1
12H	4H	19.7	20.1	20.2	20.6	21.1	18.8	19.3	19.3	19.7
	6H	19.8	20.1	20.3	20.6	21.1	19.1	19.4	19.6	19.9
	8H	19.8	20.1	20.3	20.6	21.1	19.2	19.5	19.7	20.0

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°	26140.5	25267.9	24129.6	22620.4	21163.8	19779.3	19336.5
50,0°	19596.7	18914.5	18113.4	17037.9	15760.4	14529.7	14118.4
55,0°	14219.5	13834.5	13355.2	12661.5	11686.2	10666.8	10238.1
60,0°	9756.2	9766.7	9948.4	9504.7	8939.6	8065.4	7662.9
65,0°	7490.5	7364.2	7531.2	7409.3	7252.7	6517.8	6160.9
70,0°	5803.4	5733.5	6159.5	5816.7	6036.4	5557.2	5311.0
75,0°	5087.5	4774.6	4785.4	4720.8	4870.4	5078.5	5069.4
80,0°	3711.6	3573.9	3457.3	3519.8	3933.0	4776.2	4873.3
85,0°	1373.6	1356.8	1419.1	1604.2	2462.7	3625.9	4109.1

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LP number
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Luminance values in cd/m²

γ 65°

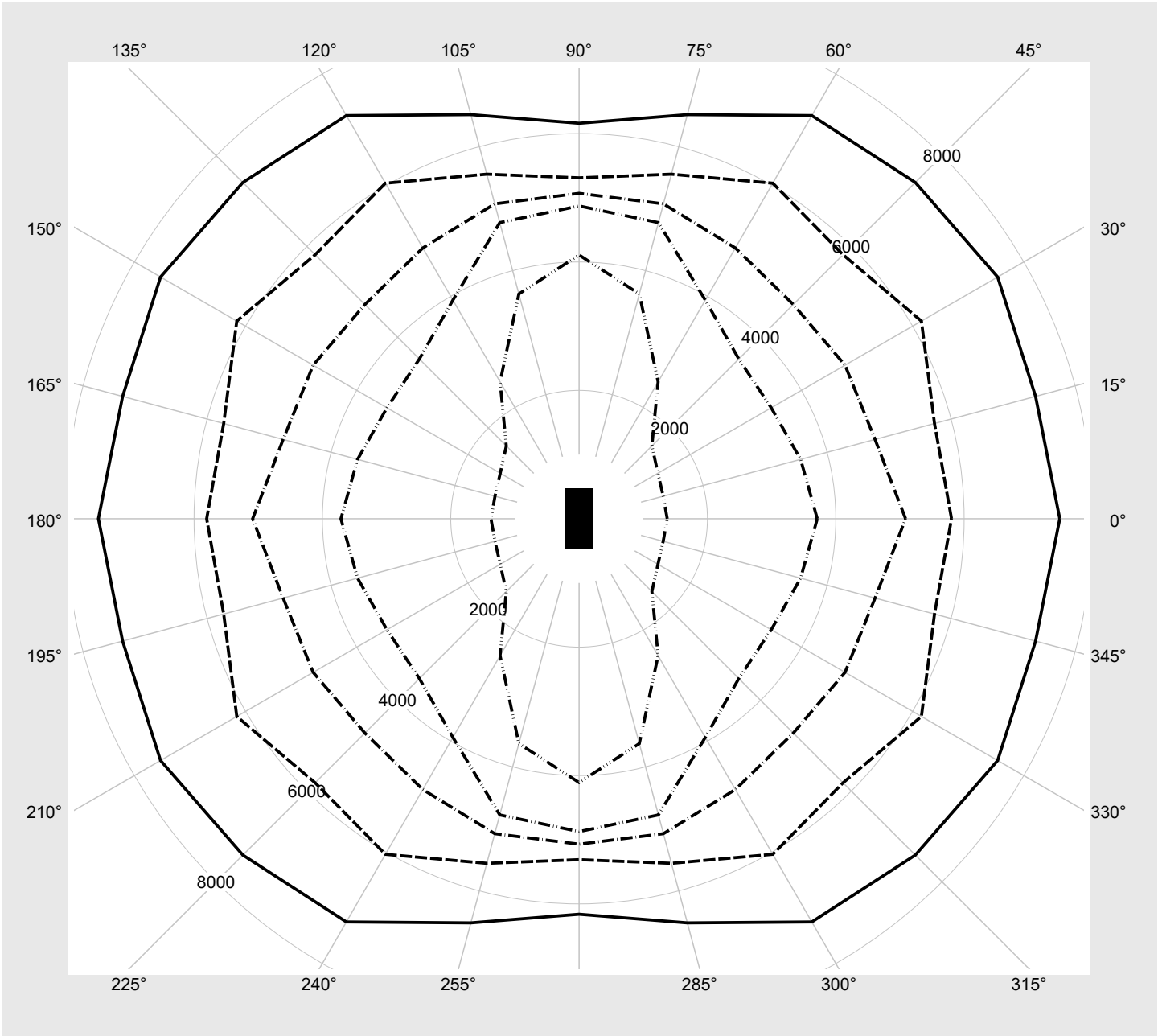
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table environmental temperature: 25°C		sit eco

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	33000	161.6
95	241	252	31393	153.1
90	227	250	29656	143.9
85	214	248	28034	135.5
80	201	245	26404	127.1
75	188	243	24762	118.8
70	175	240	23119	110.4
65	162	238	21466	102.3
60	149	234	19806	94.0
55	136	231	18129	85.8
50	123	227	16436	77.7
45	111	224	14868	70.2
40	98	219	13158	62.2
35	86	214	11573	54.7
30	73	208	9834	46.6
25	61	202	8223	39.5
20	49	194	6601	32.3
15	37	183	4966	25.0
10	25	169	3318	17.8
5	13	145	1660	10.3
2	5	110	548	5.2