

Photometric test report

Family Highbay 11	Order number: 51HN11DA4LMA EAN: 4069025379146	LP number 59711_337
	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 = 26500 lm Power consumption = 137.7 W Luminous efficacy = 192.4 lm/W
		serial documentation 05.03.2025
		



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	20.9	22.0	21.2	22.4	22.7	19.7	20.9	20.0	21.2	21.5
	3H	21.1	22.1	21.5	22.5	22.8	20.0	21.0	20.4	21.3	21.7
	4H	21.2	22.1	21.6	22.5	22.9	20.1	21.1	20.5	21.4	21.8
	6H	21.2	22.1	21.7	22.4	22.8	20.3	21.1	20.7	21.5	21.9
	8H	21.3	22.0	21.7	22.4	22.8	20.4	21.1	20.8	21.5	21.9
	12H	21.3	21.9	21.7	22.3	22.7	20.4	21.0	20.8	21.4	21.9
4H	2H	20.9	21.9	21.3	22.2	22.6	19.9	20.8	20.3	21.2	21.5
	3H	21.3	22.0	21.7	22.4	22.8	20.3	21.1	20.7	21.4	21.9
	4H	21.4	22.1	21.8	22.5	22.9	20.5	21.2	20.9	21.6	22.0
	6H	21.4	22.0	21.9	22.5	22.9	20.7	21.3	21.1	21.7	22.2
	8H	21.4	21.9	21.9	22.4	22.9	20.7	21.3	21.2	21.7	22.2
	12H	21.4	21.8	21.9	22.3	22.8	20.8	21.2	21.3	21.7	22.2
8H	4H	21.4	21.9	21.8	22.3	22.8	20.5	21.0	21.0	21.5	21.9
	6H	21.4	21.9	21.9	22.3	22.8	20.7	21.1	21.2	21.6	22.1
	8H	21.4	21.8	21.9	22.3	22.8	20.8	21.2	21.3	21.7	22.2
	12H	21.4	21.7	21.9	22.2	22.7	20.9	21.2	21.4	21.7	22.3
12H	4H	21.3	21.8	21.8	22.2	22.7	20.5	20.9	21.0	21.4	21.9
	6H	21.4	21.8	21.9	22.3	22.8	20.7	21.1	21.2	21.5	22.1
	8H	21.4	21.7	21.9	22.2	22.8	20.8	21.1	21.3	21.6	22.2

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 426 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°	41983.3	40581.7	38753.6	36329.7	33990.4	31766.7	31055.6
50,0°	31473.5	30377.8	29091.2	27363.9	25312.1	23335.5	22675.0
55,0°	22837.3	22219.1	21449.2	20335.1	18768.7	17131.6	16443.1
60,0°	15669.0	15686.0	15977.7	15265.1	14357.5	12953.6	12307.0
65,0°	12030.3	11827.3	12095.5	11899.8	11648.3	10468.0	9894.8
70,0°	9320.7	9208.4	9892.5	9342.0	9694.7	8925.2	8529.8
75,0°	8170.9	7668.4	7685.7	7581.9	7822.2	8156.3	8141.8
80,0°	5961.1	5739.9	5552.6	5653.0	6316.6	7670.8	7826.9
85,0°	2206.1	2179.1	2279.1	2576.5	3955.3	5823.5	6599.4

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Luminance values in cd/m²

γ 65°

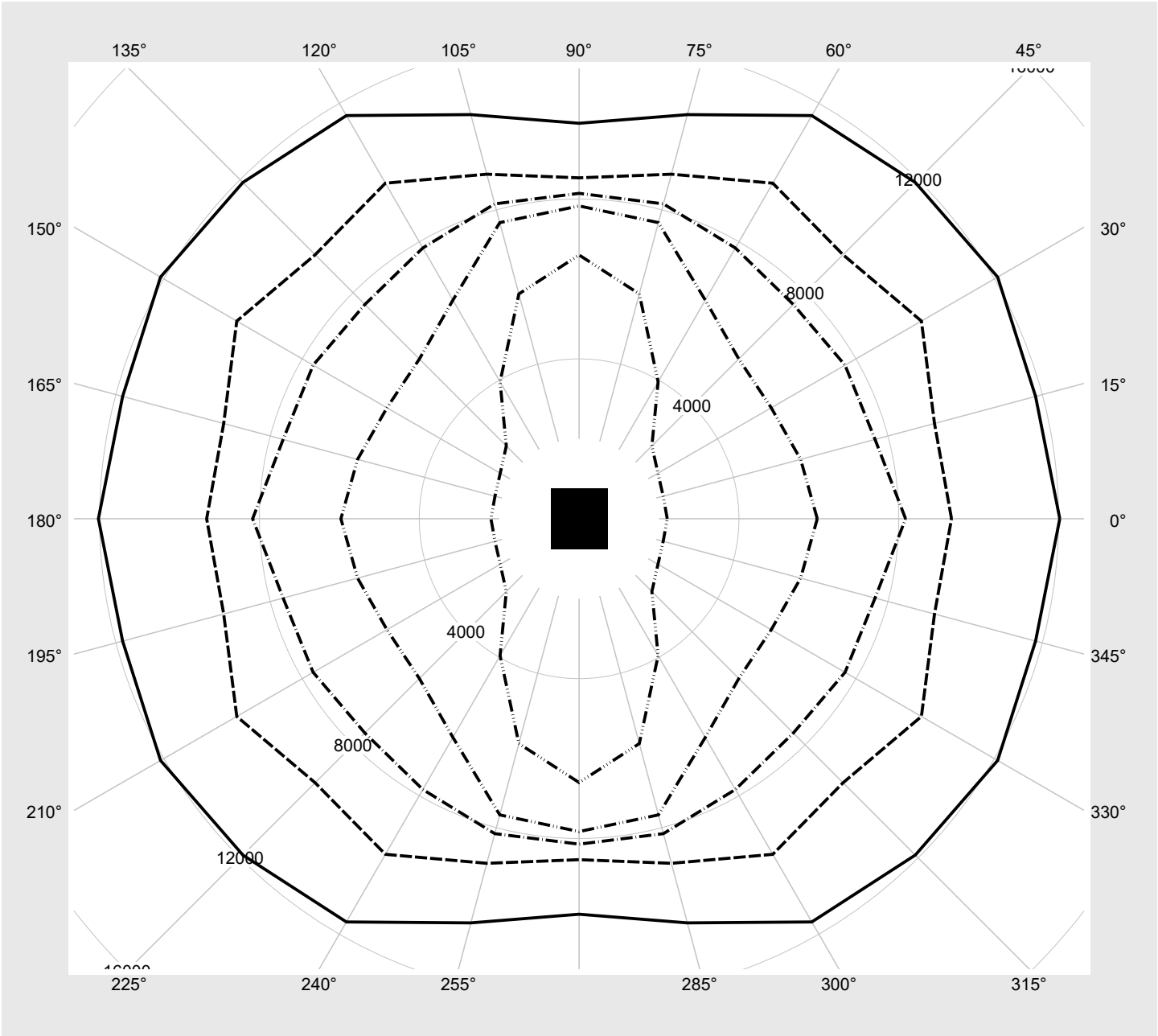
γ 70°

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	26500	137.7
95	240	252	25140	129.7
90	227	250	23873	122.3
85	213	248	22501	114.5
80	200	245	21220	107.2
75	186	243	19826	99.4
70	173	240	18520	92.4
65	160	237	17202	85.3
60	147	234	15879	78.3
55	134	231	14540	71.3
50	122	227	13295	64.8
45	109	223	11932	57.9
40	96	218	10562	51.0
35	84	213	9279	44.6
30	72	208	7987	38.4
25	60	201	6678	32.2
20	47	192	5250	25.5
15	36	182	4023	20.0
10	24	168	2675	13.8
5	12	142	1308	7.4
2	5	110	503	3.7