

Photometric test report

Family Highbay 11	Order number: 51HN11DA4PMA EAN: 4069025419446	LP number 59711_327
	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 = 34500 lm Power consumption = 186.7 W Luminous efficacy = 184.8 lm/W
		serial documentation 27.02.2025
		



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
Reflection factor of walls		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3
Reflection factor of floor		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)			
2H	x									
	y									
	2H	21.8	23.0	22.1	23.3	23.6	20.6	21.8	21.0	22.1
	3H	22.0	23.1	22.4	23.4	23.7	20.9	21.9	21.3	22.3
	4H	22.1	23.0	22.5	23.4	23.8	21.0	22.0	21.4	22.3
	6H	22.2	23.0	22.6	23.4	23.8	21.2	22.0	21.6	22.4
4H	8H	22.2	22.9	22.6	23.3	23.7	21.3	22.0	21.7	22.4
	12H	22.2	22.8	22.6	23.2	23.6	21.3	22.0	21.7	22.4
	2H	21.8	22.8	22.2	23.1	23.5	20.8	21.7	21.2	22.1
	3H	22.2	22.9	22.6	23.3	23.8	21.2	22.0	21.6	22.4
	4H	22.3	23.0	22.7	23.4	23.8	21.4	22.1	21.8	22.5
	6H	22.4	22.9	22.8	23.4	23.8	21.6	22.2	22.1	22.6
8H	8H	22.4	22.9	22.8	23.3	23.8	21.7	22.2	22.1	22.6
	12H	22.3	22.8	22.8	23.2	23.7	21.7	22.2	22.2	22.6
	4H	22.3	22.8	22.7	23.2	23.7	21.4	21.9	21.9	22.4
	6H	22.3	22.8	22.8	23.2	23.8	21.6	22.1	22.1	22.5
	8H	22.3	22.7	22.8	23.2	23.7	21.7	22.1	22.2	22.6
	12H	22.3	22.6	22.8	23.1	23.7	21.8	22.1	22.3	22.6
12H	4H	22.3	22.7	22.7	23.2	23.7	21.4	21.8	21.9	22.3
	6H	22.3	22.7	22.8	23.2	23.7	21.6	22.0	22.1	22.5
	8H	22.3	22.6	22.8	23.1	23.7	21.7	22.0	22.3	22.5
	2H	21.8	22.8	22.2	23.1	23.5	20.8	21.7	21.2	22.1
	3H	22.2	22.9	22.6	23.3	23.8	21.2	22.0	21.6	22.4
	4H	22.3	23.0	22.7	23.4	23.8	21.4	22.1	21.8	22.5

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 426 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°	85,0°			

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LP number
59711_327

Luminance values in cd/m²

γ 65°

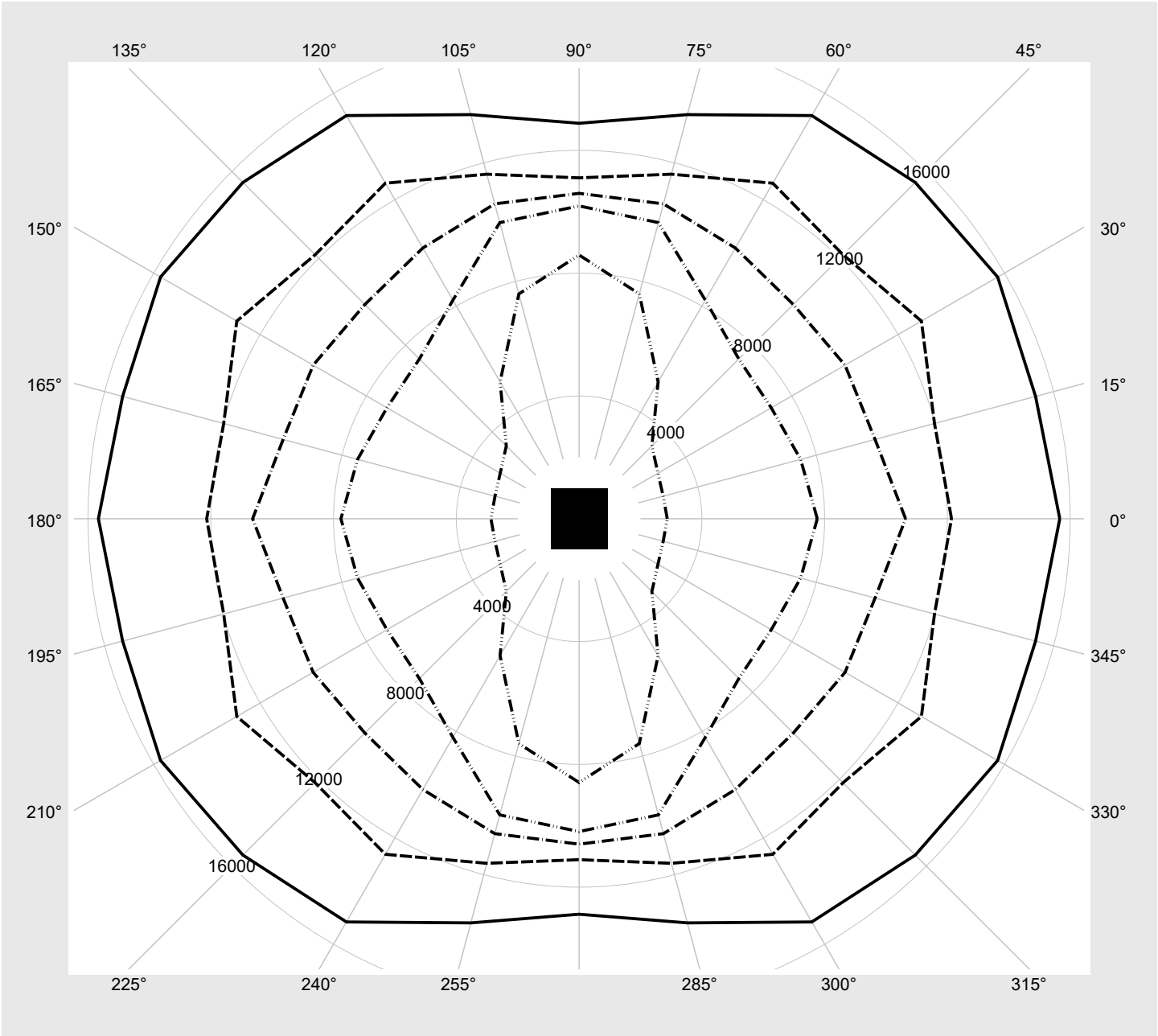
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table		environmental temperature: 25°C
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	34500	186.7
95	240	252	32775	175.7
90	226	250	31037	165.0
85	212	247	29272	154.2
80	199	245	27631	144.5
75	186	243	25939	134.7
70	172	240	24132	124.1
65	159	237	22442	114.6
60	146	234	20729	105.1
55	133	230	19002	95.6
50	120	227	17248	86.2
45	107	222	15476	76.8
40	95	218	13817	68.3
35	83	213	12144	59.8
30	70	207	10306	50.6
25	58	200	8586	42.2
20	46	191	6846	34.0
15	35	181	5228	26.6
10	23	166	3438	18.5
5	12	142	1774	10.7
2	5	110	697	5.7