

Photometric test report

Family Highbay 11	Order number: 51HN11DB6PDA EAN: 4069025424488	LP number 59711_421
	Version	primary light control with lens, PMMA, housing, white, narrow distribution
	Lamps	LED 6500 K CRI ≥ 80
	Controlgear	ECG-DALI
	Setting	AC-mode
	Rated values	Net luminous flux = 34160 lm Power consumption = 177.6 W Luminous efficacy = 192.3 lm/W
		serial documentation 10.04.2025
		



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	19.3	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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LP number
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Luminance values in cd/m²

γ 65°

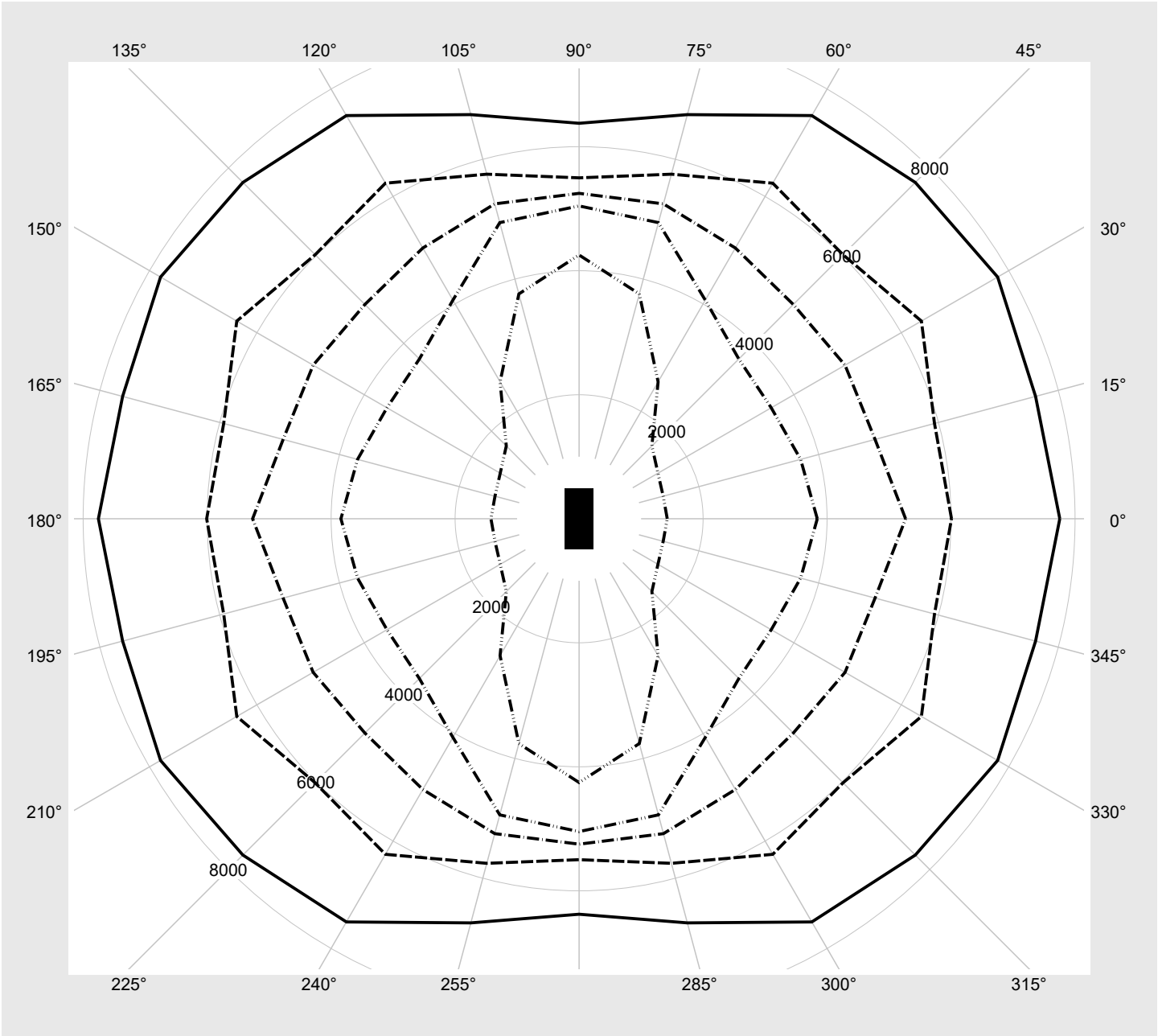
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table		environmental temperature: 25°C
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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