

Photometric test report

Family Highbay 11	Order number: 51HN11DB4VDA02 EAN: 4069025426925	LP number 59711_63
	Version	primary light control with lens, PMMA, housing, white, narrow distribution, with Node BT
	Lamps	LED 4000 K CRI ≥ 80
	Controlgear	ECG-DALI
	Rated values	Net luminous flux = 56000 lm Power consumption = 295.4 W Luminous efficacy = 189.6 lm/W
		serial documentation 30.01.2025
		



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)			
x	y									
2H	2H	21.1	22.2	21.4	22.5	22.9	19.9	21.1	20.2	21.4
	3H	21.3	22.3	21.7	22.7	23.0	20.2	21.2	20.5	21.5
	4H	21.4	22.3	21.8	22.7	23.0	20.3	21.2	20.7	21.6
	6H	21.4	22.3	21.8	22.6	23.0	20.4	21.3	20.9	21.7
	8H	21.5	22.2	21.9	22.6	23.0	20.6	21.3	21.0	21.7
	12H	21.4	22.1	21.9	22.5	22.9	20.6	21.2	21.0	21.6
4H	2H	21.1	22.1	21.5	22.4	22.8	20.1	21.0	20.5	21.4
	3H	21.4	22.2	21.9	22.6	23.0	20.5	21.2	20.9	21.6
	4H	21.6	22.2	22.0	22.7	23.1	20.7	21.4	21.1	21.8
	6H	21.6	22.2	22.1	22.6	23.1	20.9	21.4	21.3	21.9
	8H	21.6	22.1	22.1	22.6	23.1	20.9	21.5	21.4	21.9
	12H	21.6	22.0	22.1	22.5	23.0	21.0	21.4	21.5	21.9
8H	4H	21.5	22.1	22.0	22.5	23.0	20.7	21.2	21.2	21.6
	6H	21.6	22.0	22.1	22.5	23.0	20.9	21.3	21.4	21.8
	8H	21.6	22.0	22.1	22.5	23.0	21.0	21.4	21.5	21.9
	12H	21.6	21.9	22.1	22.4	22.9	21.1	21.4	21.6	21.9
12H	4H	21.5	22.0	22.0	22.4	22.9	20.7	21.1	21.2	21.6
	6H	21.6	22.0	22.1	22.4	23.0	20.9	21.2	21.4	21.7
	8H	21.6	21.9	22.1	22.4	22.9	21.0	21.3	21.5	21.8

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 852 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°
65,0°	70,0°	75,0°	80,0°	85,0°			

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LP number
59711_63

Luminance values in cd/m²

γ 65°

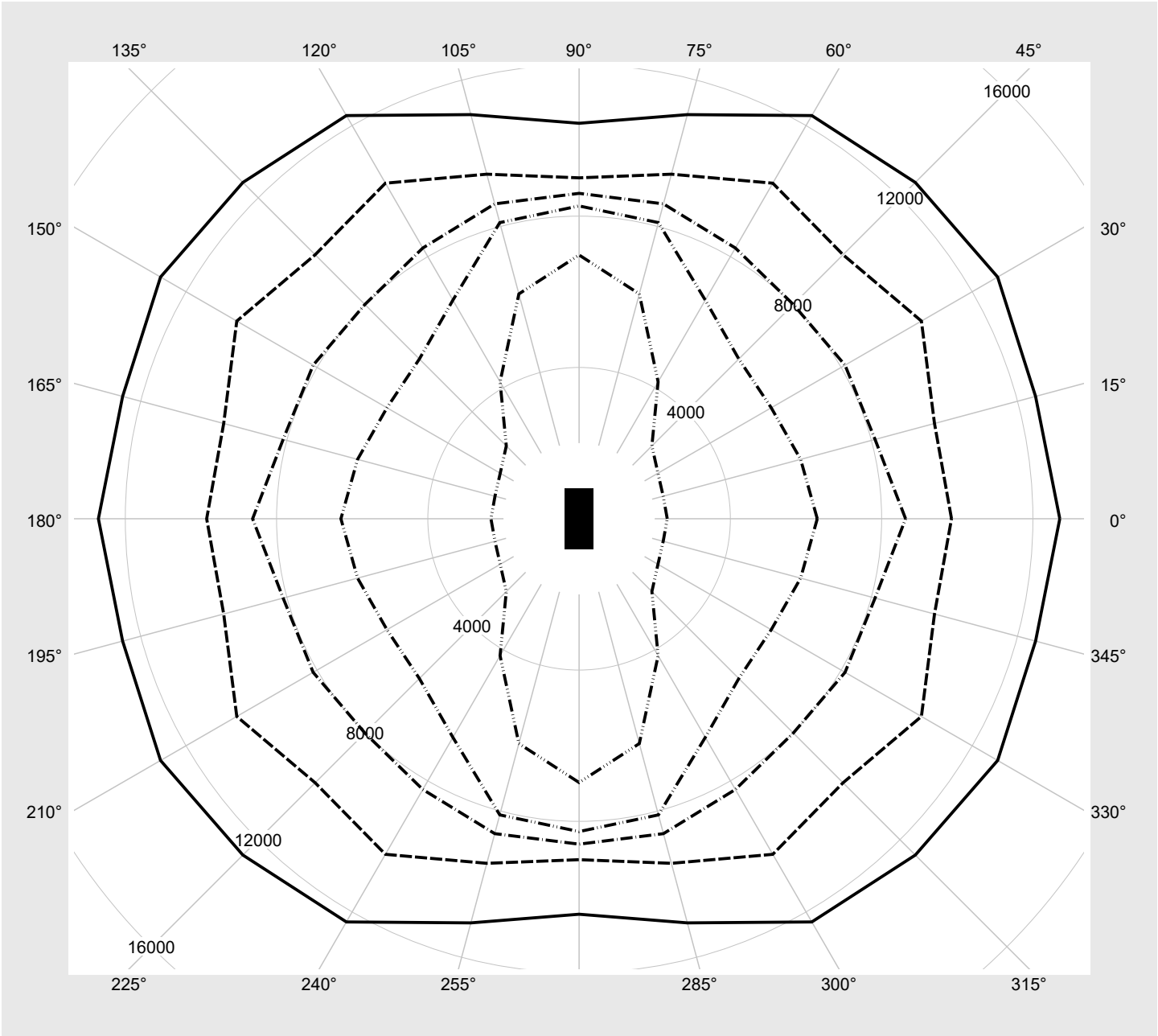
γ 70°

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	56000	295.4
95	240	252	53210	278.4
90	226	250	50330	261.5
85	213	248	47658	245.8
80	199	245	44755	228.8
75	186	243	42024	213.5
70	173	240	39281	198.1
65	160	237	36488	182.7
60	147	234	33675	167.6
55	134	231	30845	152.6
50	121	227	27992	137.6
45	108	223	25125	122.8
40	96	218	22443	109.0
35	83	213	19499	94.4
30	71	207	16763	81.1
25	59	201	13995	67.9
20	47	192	11182	54.7
15	35	181	8342	41.7
10	24	168	5708	29.8
5	12	142	2795	16.2
2	5	110	1082	8.4