

Photometric test report

Family Highbay 11	Order number: 51HN31DB4VDA EAN: 4069025438287	LP number 59711_226
	Version	primary light control with lens, PMMA, housing, black, narrow distribution
	Lamps	LED 4000 K CRI ≥ 80
	Controlgear	ECG-DALI
	Setting	DC mode (central or group accumulator) initial emergency light level
	Rated values	Net luminous flux = 9070 lm Power consumption = 44.6 W Luminous efficacy = 203.4 lm/W
		serial documentation 14.02.2025
		



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

sitEco

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	14.7	15.9	15.1	16.2	16.5	13.5	14.7	13.9	15.0
	3H	15.0	16.0	15.4	16.3	16.7	13.8	14.9	14.2	15.2
	4H	15.1	16.0	15.5	16.3	16.7	14.0	14.9	14.4	15.3
	6H	15.1	15.9	15.5	16.3	16.7	14.1	15.0	14.5	15.3
	8H	15.2	15.9	15.6	16.3	16.7	14.2	15.0	14.7	15.3
	12H	15.1	15.8	15.6	16.2	16.6	14.2	14.9	14.7	15.3
4H	2H	14.8	15.7	15.2	16.1	16.5	13.7	14.7	14.1	15.0
	3H	15.1	15.9	15.5	16.3	16.7	14.1	14.9	14.6	15.3
	4H	15.2	15.9	15.7	16.3	16.8	14.3	15.0	14.8	15.4
	6H	15.3	15.9	15.8	16.3	16.8	14.5	15.1	15.0	15.6
	8H	15.3	15.8	15.8	16.3	16.7	14.6	15.1	15.1	15.6
	12H	15.3	15.7	15.8	16.2	16.7	14.7	15.1	15.2	15.6
8H	4H	15.2	15.7	15.7	16.2	16.7	14.4	14.9	14.8	15.3
	6H	15.3	15.7	15.8	16.2	16.7	14.6	15.0	15.1	15.5
	8H	15.3	15.7	15.8	16.1	16.7	14.7	15.1	15.2	15.5
	12H	15.3	15.6	15.8	16.1	16.6	14.8	15.1	15.3	15.6
12H	4H	15.2	15.6	15.7	16.1	16.6	14.4	14.8	14.8	15.2
	6H	15.3	15.6	15.8	16.1	16.7	14.6	14.9	15.1	15.4
	8H	15.3	15.6	15.8	16.1	16.6	14.7	15.0	15.2	15.5

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°	7184.7	6944.8	6632.0	6217.2	5816.8	5436.3	5314.6
50,0°	5386.1	5198.6	4978.4	4682.8	4331.7	3993.5	3880.4
55,0°	3908.2	3802.4	3670.6	3480.0	3211.9	2931.8	2813.9
60,0°	2681.5	2684.4	2734.3	2612.4	2457.0	2216.8	2106.1
65,0°	2058.8	2024.0	2069.9	2036.4	1993.4	1791.4	1693.3
70,0°	1595.1	1575.8	1692.9	1598.7	1659.1	1527.4	1459.7
75,0°	1398.3	1312.3	1315.3	1297.5	1338.6	1395.8	1393.3
80,0°	1020.1	982.3	950.2	967.4	1081.0	1312.7	1339.4
85,0°	377.5	372.9	390.0	440.9	676.9	996.6	1129.4

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Luminance values in cd/m²

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

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