


Photometric test report

Family Highbay 11	Order number: 51HN31DA4FDA EAN: 4069025431035	LP number 59711_174
	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 = 2310 lm Power consumption = 11.8 W Luminous efficacy = 195.8 lm/W	serial documentation 14.02.2025



Luminous intensity in cd/klm C180-0 C270-90 **Imax: 2679 cd/klm**



Classifications	
DIN 5040	A 7 0
CIE	N1=85 N2=97 N3=100 N4=100 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	100.0%
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 γ	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-zone	Total Phi-zone
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			
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
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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	12.4	13.6	12.8	13.9	14.2	11.2	12.4	11.6	12.7	13.0
	3H	12.6	13.7	13.0	14.0	14.4	11.5	12.5	11.9	12.9	13.2
	4H	12.7	13.6	13.1	14.0	14.4	11.6	12.6	12.0	12.9	13.3
	6H	12.8	13.6	13.2	14.0	14.4	11.8	12.6	12.2	13.0	13.4
	8H	12.8	13.5	13.2	13.9	14.3	11.9	12.6	12.3	13.0	13.4
	12H	12.8	13.4	13.2	13.8	14.2	11.9	12.6	12.3	13.0	13.4
4H	2H	12.5	13.4	12.9	13.8	14.1	11.4	12.3	11.8	12.7	13.1
	3H	12.8	13.6	13.2	13.9	14.4	11.8	12.6	12.2	13.0	13.4
	4H	12.9	13.6	13.3	14.0	14.4	12.0	12.7	12.4	13.1	13.5
	6H	13.0	13.5	13.4	14.0	14.4	12.2	12.8	12.7	13.2	13.7
	8H	13.0	13.5	13.4	13.9	14.4	12.3	12.8	12.7	13.2	13.7
	12H	12.9	13.4	13.4	13.8	14.3	12.3	12.8	12.8	13.2	13.7
8H	4H	12.9	13.4	13.4	13.8	14.3	12.0	12.5	12.5	13.0	13.5
	6H	13.0	13.4	13.5	13.9	14.4	12.3	12.7	12.8	13.1	13.7
	8H	12.9	13.3	13.4	13.8	14.3	12.3	12.7	12.9	13.2	13.7
	12H	12.9	13.2	13.4	13.7	14.3	12.4	12.7	12.9	13.2	13.8
12H	4H	12.9	13.3	13.4	13.8	14.3	12.0	12.4	12.5	12.9	13.4
	6H	12.9	13.3	13.5	13.8	14.3	12.2	12.6	12.8	13.1	13.6
	8H	12.9	13.2	13.4	13.7	14.3	12.3	12.6	12.9	13.1	13.7

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 426 B = 264
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C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45,0°		3659.7	3537.5	3378.1	3166.9	2962.9	2769.1	2707.1	
50,0°		2743.5	2648.0	2535.9	2385.3	2206.5	2034.2	1976.6	
55,0°		1990.7	1936.8	1869.7	1772.6	1636.1	1493.4	1433.3	
60,0°		1365.9	1367.3	1392.8	1330.7	1251.5	1129.2	1072.8	
65,0°		1048.7	1031.0	1054.4	1037.3	1015.4	912.5	862.5	
70,0°		812.5	802.7	862.3	814.3	845.1	778.0	743.5	
75,0°		712.3	668.5	670.0	660.9	681.9	711.0	709.7	
80,0°		519.6	500.3	484.0	492.8	550.6	668.7	682.3	
85,0°		192.3	189.9	198.7	224.6	344.8	507.6	575.3	

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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

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