



Photometric test report

Family Highbay 11	Order number: 51HN11DA4EDA EAN: 4069025230362	LP number 59711_168
	Version primary light control with lens, PMMA, housing, white, narrow distribution	serial documentation 14.02.2025
	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 = 1490 lm Power consumption = 8.2 W Luminous efficacy = 181.7 lm/W		

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
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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	10.9	12.0	11.2	12.4	12.7	9.7	10.9	10.0	11.2	11.5
	3H	11.1	12.1	11.5	12.5	12.8	10.0	11.0	10.4	11.3	11.7
	4H	11.2	12.1	11.6	12.5	12.9	10.1	11.1	10.5	11.4	11.8
	6H	11.2	12.1	11.7	12.4	12.8	10.3	11.1	10.7	11.5	11.9
	8H	11.3	12.0	11.7	12.4	12.8	10.4	11.1	10.8	11.5	11.9
	12H	11.3	11.9	11.7	12.3	12.7	10.4	11.0	10.8	11.4	11.9
4H	2H	10.9	11.9	11.3	12.2	12.6	9.9	10.8	10.3	11.2	11.5
	3H	11.3	12.0	11.7	12.4	12.8	10.3	11.1	10.7	11.4	11.9
	4H	11.4	12.1	11.8	12.5	12.9	10.5	11.2	10.9	11.6	12.0
	6H	11.4	12.0	11.9	12.5	12.9	10.7	11.3	11.1	11.7	12.2
	8H	11.4	11.9	11.9	12.4	12.9	10.7	11.3	11.2	11.7	12.2
	12H	11.4	11.8	11.9	12.3	12.8	10.8	11.2	11.3	11.7	12.2
8H	4H	11.4	11.9	11.8	12.3	12.8	10.5	11.0	11.0	11.5	11.9
	6H	11.4	11.9	11.9	12.3	12.8	10.7	11.1	11.2	11.6	12.1
	8H	11.4	11.8	11.9	12.3	12.8	10.8	11.2	11.3	11.7	12.2
	12H	11.4	11.7	11.9	12.2	12.7	10.9	11.2	11.4	11.7	12.3
12H	4H	11.3	11.8	11.8	12.2	12.7	10.5	10.9	11.0	11.4	11.9
	6H	11.4	11.8	11.9	12.3	12.8	10.7	11.1	11.2	11.5	12.1
	8H	11.4	11.7	11.9	12.2	12.8	10.8	11.1	11.3	11.6	12.2

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°		2360.6	2281.8	2179.0	2042.7	1911.2	1786.1	1746.1		
50,0°		1769.6	1708.0	1635.7	1538.6	1423.2	1312.1	1274.9		
55,0°		1284.1	1249.3	1206.0	1143.4	1055.3	963.2	924.5		
60,0°		881.0	882.0	898.4	858.3	807.3	728.3	692.0		
65,0°		676.4	665.0	680.1	669.1	654.9	588.6	556.4		
70,0°		524.1	517.8	556.2	525.3	545.1	501.8	479.6		
75,0°		459.4	431.2	432.1	426.3	439.8	458.6	457.8		
80,0°		335.2	322.7	312.2	317.8	355.2	431.3	440.1		
85,0°		124.0	122.5	128.1	144.9	222.4	327.4	371.1		

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Luminance values in cd/m²

γ 65°	γ 70°	γ 75°	γ 80°	γ 85°
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