

Photometric test report

Family Highbay 11	Order number: 51HN11DB4MDA3S EAN: 4069025363350	LP number 59711_310
	Version	primary light control with lens, PMMA, housing, white, narrow distribution
	Lamps	LED 4000 K CRI ≥ 80
	Controlgear	ECG-DALI
	Setting	emergency light operation: 3 h
	Rated values	Net luminous flux = 940 lm Power consumption = 6.0 W Luminous efficacy = 156.7 lm/W
		serial documentation 24.02.2025
		



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

Photometric test report

Family Highbay 11	Order number: 51HN11DB4MDA3S EAN: 4069025363350	LP number 59711_310
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

Photometric test report

Family Highbay 11		Order number: 51HN11DB4MDA3S EAN: 4069025363350							LP number 59711_310	
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	6.9	8.0	7.2	8.3	8.7	5.7	6.9	6.0	7.2
	3H	7.1	8.1	7.5	8.5	8.8	6.0	7.0	6.3	7.3
	4H	7.2	8.1	7.6	8.5	8.8	6.1	7.0	6.5	7.4
	6H	7.2	8.1	7.6	8.4	8.8	6.2	7.1	6.7	7.5
	8H	7.3	8.0	7.7	8.4	8.8	6.4	7.1	6.8	7.5
	12H	7.2	7.9	7.7	8.3	8.7	6.4	7.0	6.8	7.4
4H	2H	6.9	7.9	7.3	8.2	8.6	5.9	6.8	6.3	7.2
	3H	7.2	8.0	7.7	8.4	8.8	6.3	7.0	6.7	7.4
	4H	7.4	8.0	7.8	8.5	8.9	6.5	7.2	6.9	7.6
	6H	7.4	8.0	7.9	8.4	8.9	6.7	7.2	7.1	7.7
	8H	7.4	7.9	7.9	8.4	8.9	6.7	7.3	7.2	7.7
	12H	7.4	7.8	7.9	8.3	8.8	6.8	7.2	7.3	7.7
8H	4H	7.3	7.9	7.8	8.3	8.8	6.5	7.0	7.0	7.4
	6H	7.4	7.8	7.9	8.3	8.8	6.7	7.1	7.2	7.6
	8H	7.4	7.8	7.9	8.3	8.8	6.8	7.2	7.3	7.7
	12H	7.4	7.7	7.9	8.2	8.7	6.9	7.2	7.4	7.7
12H	4H	7.3	7.8	7.8	8.2	8.7	6.5	6.9	7.0	7.4
	6H	7.4	7.8	7.9	8.2	8.8	6.7	7.0	7.2	7.5
	8H	7.4	7.7	7.9	8.2	8.7	6.8	7.1	7.3	7.6

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°	
		Luminance in cd/m²						
γ								
45,0°	744.6	719.8	687.3	644.3	602.8	563.4	550.8	
50,0°	558.2	538.8	516.0	485.3	448.9	413.9	402.2	
55,0°	405.0	394.1	380.4	360.7	332.9	303.8	291.6	
60,0°	277.9	278.2	283.4	270.7	254.6	229.7	218.3	
65,0°	213.4	209.8	214.5	211.1	206.6	185.7	175.5	
70,0°	165.3	163.3	175.5	165.7	171.9	158.3	151.3	
75,0°	144.9	136.0	136.3	134.5	138.7	144.7	144.4	
80,0°	105.7	101.8	98.5	100.3	112.0	136.0	138.8	
85,0°	39.1	38.6	40.4	45.7	70.2	103.3	117.0	

Photometric test report

Family
Highbay 11

Order number: 51HN11DB4MDA3S
EAN: 4069025363350

LP number
59711_310

Luminance values in cd/m²

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

siteco

