

Photometric test report

Family
Highbay 11

Order number: 51HN12DB6KDA
EAN: 4069025424952

LP number
59710_456

serial
documentation
10.04.2025

siteco



Version primary light control with lens, PMMA, housing, white, wide distribution

Lamps LED 6500 K | CRI ≥ 80

Controlgear ECG-DALI

Setting DC mode (central or group accumulator) initial emergency light level

Rated values Net luminous flux = 3760 lm
Power consumption = 19.5 W
Luminous efficacy = 192.8 lm/W

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 772 cd/klm



Classifications

DIN 5040 A 6 0
CIE N1=88 N2=98 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

Photometric test report

Family Highbay 11	Order number: 51HN12DB6KDA EAN: 4069025424952	LP number 59710_456
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°	643.6	643.6	643.6	643.6	643.6	643.6	643.6	1.0	1.0
2,5°	644.5	645.1	645.0	644.3	644.2	643.7	641.7	7.7	8.7
5,0°	651.5	652.3	650.7	647.5	645.3	643.2	640.4	15.5	24.1
7,5°	669.6	669.1	664.2	657.2	651.2	645.8	641.3	23.5	47.6
10,0°	693.4	691.0	681.5	670.0	659.9	651.2	645.8	31.9	79.6
12,5°	711.8	709.4	700.3	685.9	671.9	660.7	654.0	40.7	120.2
15,0°	721.3	721.7	717.1	704.9	689.4	675.9	667.7	49.7	169.9
17,5°	743.8	740.8	737.9	726.5	708.9	693.0	684.2	59.4	229.3
20,0°	761.9	761.9	759.6	745.2	724.0	705.6	696.8	69.2	298.5
22,5°	772.0	771.2	770.0	754.7	731.1	710.8	702.6	78.2	376.7
25,0°	758.1	756.6	756.3	743.6	722.7	703.3	695.6	85.1	461.8
27,5°	706.7	709.5	709.5	700.0	685.7	672.3	667.0	87.8	549.7
30,0°	640.4	635.6	633.7	626.6	621.7	614.1	609.9	85.8	635.5
32,5°	530.6	537.6	535.6	526.2	530.2	524.1	520.8	78.1	713.6
35,0°	428.2	426.4	425.9	411.9	420.8	414.2	411.4	66.0	779.6
37,5°	322.5	323.4	327.0	311.0	319.4	310.8	308.2	53.0	832.6
40,0°	236.1	234.0	241.6	230.8	230.9	219.8	218.4	40.7	873.3
42,5°	162.3	165.3	172.9	171.1	161.7	151.3	150.8	30.2	903.5
45,0°	117.3	114.9	119.4	122.5	109.3	102.6	102.3	21.9	925.4
47,5°	80.5	81.4	82.8	85.5	75.2	71.4	70.8	15.9	941.3
50,0°	59.4	58.0	58.0	59.0	52.9	50.5	49.6	11.7	953.0
52,5°	43.3	42.8	42.8	43.0	39.3	37.2	36.6	8.9	961.8
55,0°	33.3	32.4	32.9	33.7	30.5	28.7	28.3	7.1	968.9
57,5°	25.9	25.4	25.9	26.8	24.5	22.9	22.9	5.8	974.7
60,0°	20.9	20.2	21.2	21.8	20.4	18.9	19.2	4.9	979.5
62,5°	16.9	16.2	17.4	18.0	17.2	15.9	16.4	4.1	983.6
65,0°	14.9	13.6	14.4	15.1	14.8	13.6	14.4	3.6	987.2
67,5°	12.3	11.4	12.5	12.4	13.0	11.7	12.6	3.1	990.3
70,0°	10.4	9.5	10.5	10.1	11.1	10.1	11.0	2.7	993.0
72,5°	8.2	7.7	7.9	8.2	8.7	8.6	9.5	2.2	995.2
75,0°	6.5	6.0	6.0	6.4	6.6	7.1	7.9	1.7	996.9
77,5°	4.5	4.3	4.4	4.7	5.1	5.6	6.3	1.3	998.2
80,0°	2.9	2.7	2.9	3.1	3.5	4.1	4.7	0.9	999.1
82,5°	1.3	1.4	1.6	1.8	2.2	2.7	3.3	0.5	999.7
85,0°	0.6	0.6	0.6	0.7	1.0	1.4	1.8	0.3	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: 51HN12DB6KDA EAN: 4069025424952							LP number 59710_456	
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	12.7	14.0	13.1	14.3	14.6	12.4	13.7	12.8	14.0
	3H	12.7	13.8	13.1	14.2	14.5	12.4	13.6	12.8	13.9
	4H	12.7	13.7	13.1	14.1	14.5	12.5	13.5	12.9	13.9
	6H	12.7	13.6	13.1	14.0	14.4	12.5	13.4	12.9	13.8
	8H	12.7	13.5	13.2	13.9	14.3	12.6	13.4	13.0	13.8
	12H	12.7	13.4	13.2	13.8	14.3	12.6	13.3	13.0	13.7
4H	2H	12.6	13.6	13.0	14.0	14.4	12.3	13.4	12.7	13.7
	3H	12.6	13.5	13.1	13.9	14.3	12.4	13.2	12.8	13.6
	4H	12.6	13.4	13.1	13.8	14.3	12.4	13.2	12.9	13.6
	6H	12.6	13.3	13.1	13.7	14.2	12.5	13.1	12.9	13.6
	8H	12.6	13.2	13.1	13.6	14.1	12.5	13.1	13.0	13.5
	12H	12.6	13.1	13.1	13.5	14.0	12.5	13.0	13.0	13.5
8H	4H	12.6	13.2	13.0	13.6	14.1	12.4	12.9	12.8	13.4
	6H	12.5	13.0	13.0	13.5	14.0	12.4	12.9	12.9	13.4
	8H	12.5	12.9	13.0	13.4	13.9	12.4	12.9	12.9	13.3
	12H	12.5	12.8	13.0	13.3	13.9	12.5	12.8	13.0	13.3
12H	4H	12.6	13.1	13.1	13.5	14.0	12.4	12.8	12.9	13.3
	6H	12.6	12.9	13.1	13.4	13.9	12.4	12.8	12.9	13.3
	8H	12.5	12.8	13.0	13.3	13.9	12.4	12.8	13.0	13.3

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°	2773.6	2715.9	2823.1	2895.5	2583.2	2425.3	2418.2
50,0°	1545.4	1508.8	1507.2	1534.2	1376.7	1312.6	1290.1
55,0°	971.2	945.2	958.7	980.7	889.6	836.3	826.2
60,0°	698.5	674.3	708.5	729.8	683.3	632.8	640.8
65,0°	589.4	536.2	571.5	596.1	583.7	539.8	570.3
70,0°	506.6	462.2	511.3	494.7	542.7	494.0	539.5
75,0°	417.5	386.7	385.7	412.5	428.5	458.7	511.3
80,0°	281.9	263.0	278.3	300.6	339.3	399.1	455.0
85,0°	112.6	112.0	115.7	135.4	200.2	266.8	345.6

Photometric test report

Family
Highbay 11

Order number: 51HN12DB6KDA
EAN: 4069025424952

LP number
59710_456

Luminance values in cd/m²

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

siteco

