

## Photometric test report

Family  
Highbay 11

Order number: 51HN12DB4LBA  
EAN: 4069025440549

LP number  
59710\_357



**Version** primary light control with lens, PMMA, housing, white, wide 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 = 3960 lm  
Power consumption = 19.6 W  
Luminous efficacy = 202 lm/W

serial  
documentation  
18.03.2025

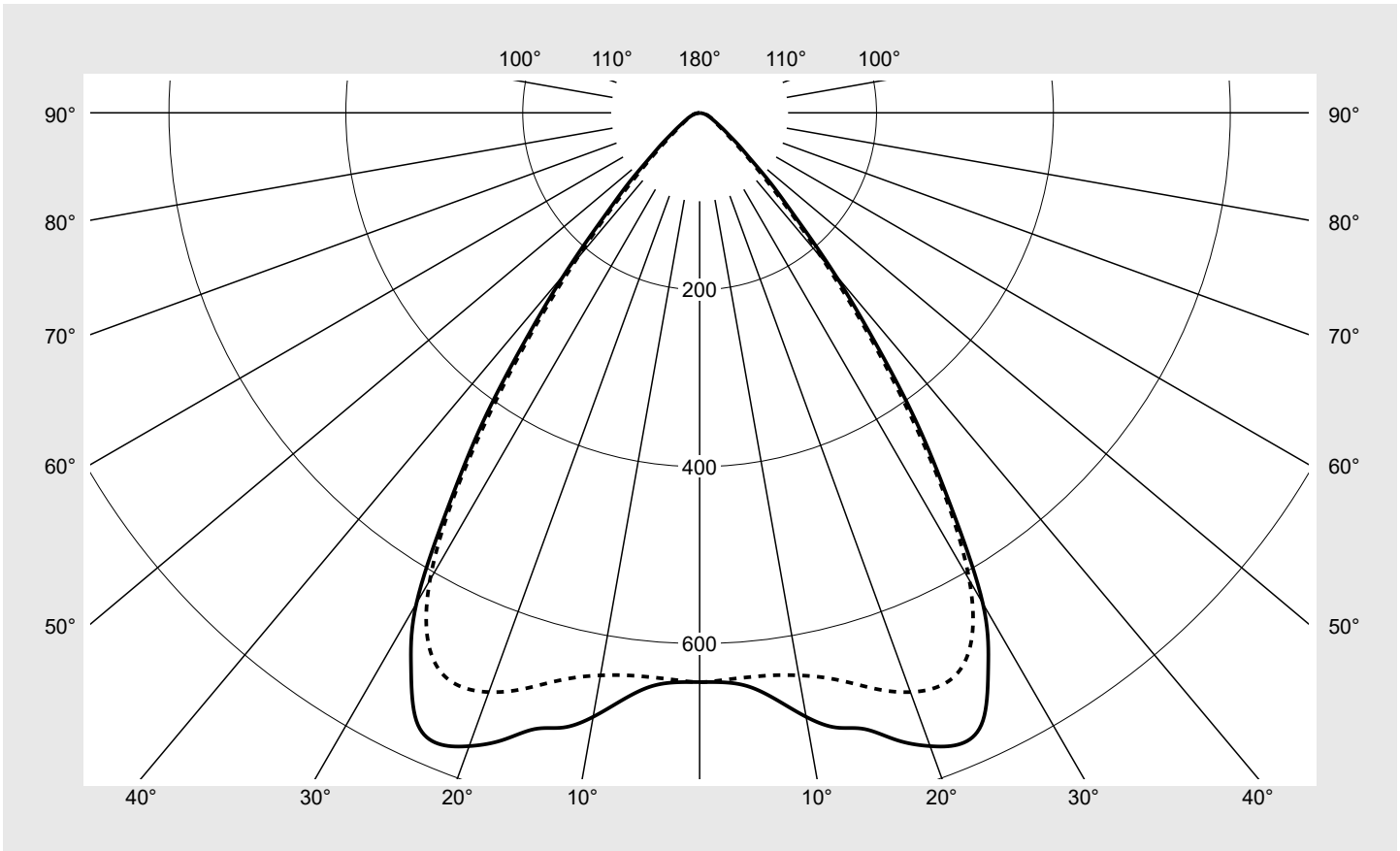
siteco

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

$\eta_{LB}$  100.0%  
 $\phi_u$  100.0%  
 $\phi_o$  0.0%

### Measurement conditions

DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		Maximum luminous intensity
		<b>siteco</b>

C-planes $\gamma$	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°	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

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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	12.9	14.2	13.2	14.5	14.8	12.6	13.9	13.0	14.2	14.5
	3H	12.9	14.0	13.3	14.4	14.7	12.6	13.7	13.0	14.1	14.4
	4H	12.9	13.9	13.3	14.3	14.6	12.6	13.7	13.0	14.0	14.4
	6H	12.9	13.8	13.3	14.2	14.6	12.6	13.6	13.1	14.0	14.4
	8H	12.9	13.7	13.4	14.1	14.5	12.8	13.5	13.2	13.9	14.3
	12H	12.9	13.6	13.3	14.0	14.4	12.7	13.5	13.2	13.9	14.3
4H	2H	12.8	13.8	13.2	14.2	14.5	12.5	13.5	12.9	13.9	14.3
	3H	12.8	13.7	13.2	14.1	14.5	12.6	13.4	13.0	13.8	14.2
	4H	12.8	13.6	13.3	14.0	14.4	12.6	13.4	13.1	13.8	14.2
	6H	12.8	13.4	13.3	13.9	14.3	12.7	13.3	13.1	13.7	14.2
	8H	12.8	13.4	13.2	13.8	14.3	12.7	13.2	13.1	13.7	14.2
	12H	12.8	13.2	13.3	13.7	14.2	12.7	13.2	13.2	13.6	14.1
8H	4H	12.7	13.3	13.2	13.8	14.3	12.5	13.1	13.0	13.6	14.1
	6H	12.7	13.2	13.2	13.7	14.2	12.6	13.1	13.1	13.6	14.1
	8H	12.7	13.1	13.2	13.6	14.1	12.6	13.0	13.1	13.5	14.0
	12H	12.7	13.0	13.2	13.5	14.1	12.6	13.0	13.2	13.5	14.0
12H	4H	12.8	13.2	13.3	13.7	14.2	12.6	13.0	13.1	13.5	14.0
	6H	12.7	13.1	13.2	13.6	14.1	12.6	13.0	13.1	13.5	14.0
	8H	12.7	13.0	13.2	13.5	14.1	12.6	12.9	13.1	13.4	14.0

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 852 B = 264
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C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>								
		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°		2921.2	2860.3	2973.3	3049.5	2720.6	2554.3	2546.8		
50,0°		1627.6	1589.1	1587.4	1615.8	1449.9	1382.4	1358.7		
55,0°		1022.8	995.5	1009.7	1032.9	936.9	880.7	870.2		
60,0°		735.7	710.2	746.2	768.6	719.6	666.4	674.9		
65,0°		620.8	564.7	601.9	627.8	614.8	568.6	600.7		
70,0°		533.5	486.8	538.5	521.0	571.5	520.3	568.2		
75,0°		439.7	407.3	406.2	434.4	451.3	483.1	538.5		
80,0°		296.9	277.0	293.1	316.6	357.4	420.3	479.2		
85,0°		118.6	118.0	121.8	142.6	210.9	281.0	364.0		

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**Luminance values in cd/m<sup>2</sup>**

$\gamma$  65°   
   $\gamma$  70°   
   $\gamma$  75°   
   $\gamma$  80°   
   $\gamma$  85°

