
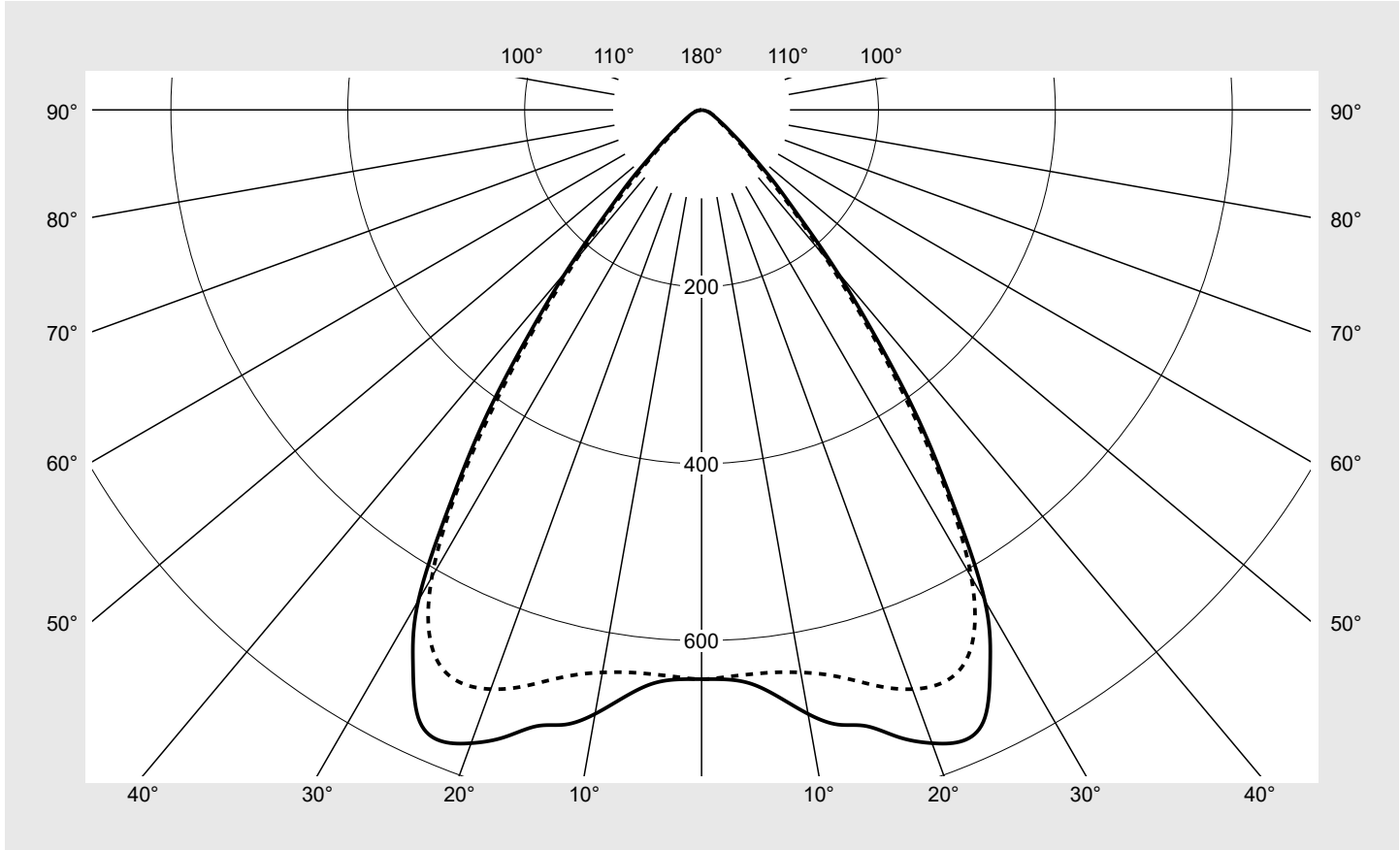


# Photometric test report

<b>Family</b> <b>Highbay 11</b>	<b>Order number: 51HN12DB4QBA</b> <b>EAN: 4069025440600</b>	<b>LP number</b> <b>59710_359</b>
	<b>Version</b> primary light control with lens, PMMA, housing, white, wide distribution	<b>serial documentation</b> <b>18.03.2025</b>
	<b>Lamps</b> LED 4000 K   CRI ≥ 80	
	<b>Controlgear</b> ECG-DALI	<b>Rated values</b> Net luminous flux = 5620 lm Power consumption = 27.8 W Luminous efficacy = 202.2 lm/W
	<b>Setting</b> DC mode (central or group accumulator) initial emergency light level	



**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° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Luminous intensity in cd/klm		Luminous flux in lm/klm	
								Phi-zone	Total Phi-zone	Phi-zone	Total Phi-zone
0,0°	643.6	643.6	643.6	643.6	643.6	643.6	643.6	1.0	1.0	1.0	1.0
2,5°	644.5	645.1	645.0	644.3	644.2	643.7	641.7	7.7	8.7	7.7	8.7
5,0°	651.5	652.3	650.7	647.5	645.3	643.2	640.4	15.5	24.1	15.5	24.1
7,5°	669.6	669.1	664.2	657.2	651.2	645.8	641.3	23.5	47.6	23.5	47.6
10,0°	693.4	691.0	681.5	670.0	659.9	651.2	645.8	31.9	79.6	31.9	79.6
12,5°	711.8	709.4	700.3	685.9	671.9	660.7	654.0	40.7	120.2	40.7	120.2
15,0°	721.3	721.7	717.1	704.9	689.4	675.9	667.7	49.7	169.9	49.7	169.9
17,5°	743.8	740.8	737.9	726.5	708.9	693.0	684.2	59.4	229.3	59.4	229.3
20,0°	761.9	761.9	759.6	745.2	724.0	705.6	696.8	69.2	298.5	69.2	298.5
22,5°	772.0	771.2	770.0	754.7	731.1	710.8	702.6	78.2	376.7	78.2	376.7
25,0°	758.1	756.6	756.3	743.6	722.7	703.3	695.6	85.1	461.8	85.1	461.8
27,5°	706.7	709.5	709.5	700.0	685.7	672.3	667.0	87.8	549.7	87.8	549.7
30,0°	640.4	635.6	633.7	626.6	621.7	614.1	609.9	85.8	635.5	85.8	635.5
32,5°	530.6	537.6	535.6	526.2	530.2	524.1	520.8	78.1	713.6	78.1	713.6
35,0°	428.2	426.4	425.9	411.9	420.8	414.2	411.4	66.0	779.6	66.0	779.6
37,5°	322.5	323.4	327.0	311.0	319.4	310.8	308.2	53.0	832.6	53.0	832.6
40,0°	236.1	234.0	241.6	230.8	230.9	219.8	218.4	40.7	873.3	40.7	873.3
42,5°	162.3	165.3	172.9	171.1	161.7	151.3	150.8	30.2	903.5	30.2	903.5
45,0°	117.3	114.9	119.4	122.5	109.3	102.6	102.3	21.9	925.4	21.9	925.4
47,5°	80.5	81.4	82.8	85.5	75.2	71.4	70.8	15.9	941.3	15.9	941.3
50,0°	59.4	58.0	58.0	59.0	52.9	50.5	49.6	11.7	953.0	11.7	953.0
52,5°	43.3	42.8	42.8	43.0	39.3	37.2	36.6	8.9	961.8	8.9	961.8
55,0°	33.3	32.4	32.9	33.7	30.5	28.7	28.3	7.1	968.9	7.1	968.9
57,5°	25.9	25.4	25.9	26.8	24.5	22.9	22.9	5.8	974.7	5.8	974.7
60,0°	20.9	20.2	21.2	21.8	20.4	18.9	19.2	4.9	979.5	4.9	979.5
62,5°	16.9	16.2	17.4	18.0	17.2	15.9	16.4	4.1	983.6	4.1	983.6
65,0°	14.9	13.6	14.4	15.1	14.8	13.6	14.4	3.6	987.2	3.6	987.2
67,5°	12.3	11.4	12.5	12.4	13.0	11.7	12.6	3.1	990.3	3.1	990.3
70,0°	10.4	9.5	10.5	10.1	11.1	10.1	11.0	2.7	993.0	2.7	993.0
72,5°	8.2	7.7	7.9	8.2	8.7	8.6	9.5	2.2	995.2	2.2	995.2
75,0°	6.5	6.0	6.0	6.4	6.6	7.1	7.9	1.7	996.9	1.7	996.9
77,5°	4.5	4.3	4.4	4.7	5.1	5.6	6.3	1.3	998.2	1.3	998.2
80,0°	2.9	2.7	2.9	3.1	3.5	4.1	4.7	0.9	999.1	0.9	999.1
82,5°	1.3	1.4	1.6	1.8	2.2	2.7	3.3	0.5	999.7	0.5	999.7
85,0°	0.6	0.6	0.6	0.7	1.0	1.4	1.8	0.3	999.9	0.3	999.9
87,5°	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.1	1000.0	0.1	1000.0
90,0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0	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	14.1	15.4	14.5	15.7	16.0	13.8	15.1	14.2	15.4	15.7
	3H	14.1	15.2	14.5	15.6	15.9	13.8	15.0	14.2	15.3	15.7
	4H	14.1	15.1	14.5	15.5	15.9	13.9	14.9	14.2	15.2	15.6
	6H	14.1	15.0	14.5	15.4	15.8	13.9	14.8	14.3	15.2	15.6
	8H	14.1	14.9	14.6	15.3	15.7	14.0	14.8	14.4	15.1	15.6
	12H	14.1	14.8	14.6	15.2	15.7	14.0	14.7	14.4	15.1	15.5
4H	2H	14.0	15.0	14.4	15.4	15.8	13.7	14.8	14.1	15.1	15.5
	3H	14.0	14.9	14.5	15.3	15.7	13.8	14.6	14.2	15.0	15.4
	4H	14.0	14.8	14.5	15.2	15.6	13.8	14.6	14.3	15.0	15.4
	6H	14.0	14.7	14.5	15.1	15.6	13.9	14.5	14.3	15.0	15.4
	8H	14.0	14.6	14.5	15.0	15.5	13.9	14.5	14.4	14.9	15.4
	12H	14.0	14.5	14.5	14.9	15.4	13.9	14.4	14.4	14.9	15.4
8H	4H	14.0	14.5	14.4	15.0	15.5	13.8	14.3	14.2	14.8	15.3
	6H	13.9	14.4	14.4	14.9	15.4	13.8	14.3	14.3	14.8	15.3
	8H	13.9	14.3	14.4	14.8	15.3	13.8	14.2	14.3	14.7	15.3
	12H	13.9	14.2	14.4	14.7	15.3	13.9	14.2	14.4	14.7	15.2
12H	4H	14.0	14.4	14.5	14.9	15.4	13.8	14.2	14.3	14.7	15.2
	6H	13.9	14.3	14.5	14.8	15.3	13.8	14.2	14.3	14.7	15.2
	8H	13.9	14.2	14.4	14.7	15.3	13.8	14.1	14.4	14.7	15.2

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°		4145.7	4059.4	4219.7	4327.8	3861.0	3625.1	3614.4		
50,0°		2309.8	2255.2	2252.8	2293.1	2057.7	1961.9	1928.3		
55,0°		1451.6	1412.8	1433.0	1465.8	1329.7	1249.9	1234.9		
60,0°		1044.1	1007.9	1059.0	1090.8	1021.3	945.8	957.8		
65,0°		881.0	801.4	854.2	891.0	872.5	806.9	852.5		
70,0°		757.2	690.9	764.2	739.4	811.1	738.4	806.4		
75,0°		624.0	578.0	576.4	616.5	640.5	685.6	764.3		
80,0°		421.3	393.1	416.0	449.4	507.2	596.6	680.0		
85,0°		168.3	167.4	172.9	202.4	299.3	398.8	516.6		

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

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

**siteco**

