

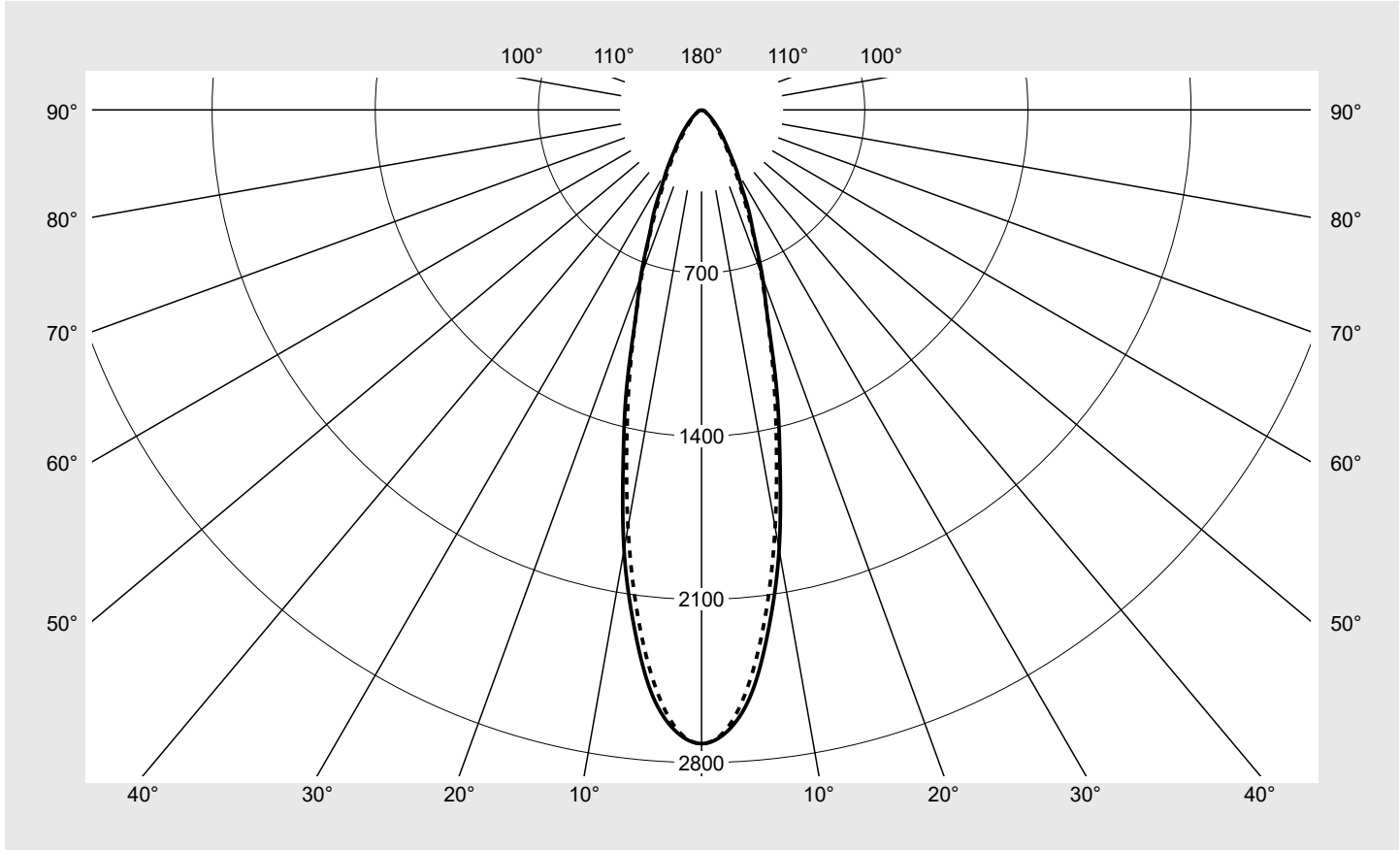


# Photometric test report

<b>Family</b> <b>Highbay 21</b>	<b>Order number: 52HN11DA6LMA</b> <b>EAN: 4069025445162</b>	<b>LP number</b> <b>59724_275</b>
	<b>Version</b> primary light control with lens, PMMA, housing, white, narrow distribution <b>Lamps</b> LED 6500 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI <b>Setting</b> DC mode (central or group accumulator) initial emergency light level	<b>serial documentation</b> <b>24.04.2025</b>
	<b>Rated values</b> Net luminous flux = 4040 lm Power consumption = 22.3 W Luminous efficacy = 181.2 lm/W	

**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 2719 cd/klm**



Classifications	
DIN 5040	A 7 0
CIE	N1=89 N2=97 N3=99 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	0,0° 180,0°	7,5°	15,0°	22,5°	30,0°	37,5°	45,0°
		172,5° 187,5° 352,5°	165,0° 195,0° 345,0°	157,5° 202,5° 337,5°	150,0° 210,0° 330,0°	142,5° 217,5° 322,5°	135,0° 225,0° 315,0°
Luminous intensity in cd/klm							
γ							
0,0°	2718.5	2718.5	2718.5	2718.5	2718.5	2718.5	2718.5
2,5°	2662.8	2671.1	2671.1	2670.6	2667.6	2663.3	2662.4
5,0°	2502.8	2490.9	2498.0	2494.5	2487.6	2479.1	2473.3
7,5°	2228.4	2233.8	2227.9	2223.2	2214.7	2203.4	2194.2
10,0°	1915.8	1894.8	1902.8	1897.9	1890.8	1880.8	1870.9
12,5°	1554.6	1560.7	1554.3	1552.6	1548.0	1540.2	1531.7
15,0°	1246.2	1237.0	1237.4	1238.4	1237.7	1233.9	1229.0
17,5°	947.1	964.7	959.6	960.0	960.5	959.5	958.4
20,0°	765.0	752.2	754.6	751.6	749.0	747.8	747.5
22,5°	591.2	598.6	590.3	583.2	577.5	573.8	572.1
25,0°	481.4	472.8	470.4	460.9	451.8	445.8	443.1
27,5°	370.5	376.3	371.1	363.9	355.1	347.9	344.8
30,0°	301.2	297.9	295.0	290.6	284.7	279.0	275.2
32,5°	234.8	237.8	234.9	232.8	229.2	225.3	220.4
35,0°	189.2	188.5	187.7	186.9	184.4	180.6	175.3
37,5°	154.0	153.7	151.7	151.0	148.4	144.9	141.0
40,0°	125.7	123.3	123.0	121.9	119.1	115.8	113.2
42,5°	99.2	100.3	99.3	98.6	95.9	92.9	90.7
45,0°	81.4	79.6	79.7	79.0	77.2	74.6	72.7
47,5°	64.2	64.9	64.5	64.0	62.8	60.9	59.5
50,0°	52.5	51.6	51.8	51.7	51.0	49.9	49.1
52,5°	41.7	41.9	41.8	42.1	41.9	41.4	40.9
55,0°	33.9	33.5	34.1	34.8	35.0	35.0	34.7
57,5°	27.1	27.4	28.1	29.2	29.7	29.7	29.6
60,0°	22.3	22.3	23.0	24.6	25.8	25.8	25.5
62,5°	19.0	19.2	19.6	20.7	22.4	22.3	22.0
65,0°	17.0	16.8	17.2	18.3	19.8	19.1	19.1
67,5°	14.7	14.8	14.9	16.1	17.2	16.3	16.1
70,0°	12.8	12.5	12.6	13.8	14.3	13.8	13.9
72,5°	11.3	11.1	10.9	11.6	11.4	11.2	11.7
75,0°	9.7	9.3	8.9	9.6	9.3	9.1	9.3
77,5°	7.4	7.4	7.1	7.5	7.1	6.8	7.1
80,0°	4.9	4.7	4.8	4.8	4.5	4.5	4.8
82,5°	2.2	2.3	2.3	2.4	2.4	2.5	2.7
85,0°	0.8	0.8	0.8	0.8	0.8	0.9	1.0
87,5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4

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

C-planes $\gamma$	52,5°	60,0°	67,5°	75,0°	82,5°	90,0° 270,0°	Phi-zone	Total Phi-zone
	127,5° 232,5° 307,5°	120,0° 240,0° 300,0°	112,5° 247,5° 292,5°	105,0° 255,0° 285,0°	97,5° 262,5° 277,5°			
	Luminous intensity in cd/klm						Luminous flux in lm/klm	
0,0°	2718.5	2718.5	2718.5	2718.5	2718.5	2718.5	4.1	4.1
2,5°	2661.4	2660.0	2657.7	2657.0	2651.0	2647.2	31.8	35.9
5,0°	2468.0	2461.9	2456.3	2452.9	2444.7	2440.4	59.1	95.0
7,5°	2185.5	2176.0	2168.0	2162.0	2152.6	2148.3	78.5	173.5
10,0°	1860.3	1847.8	1837.7	1831.0	1822.1	1817.6	88.9	262.4
12,5°	1522.0	1510.4	1500.7	1495.5	1488.9	1485.2	90.6	353.0
15,0°	1223.0	1215.3	1207.9	1204.2	1200.8	1197.6	86.8	439.8
17,5°	955.3	949.4	945.6	944.9	945.8	944.0	78.6	518.5
20,0°	745.4	741.8	741.4	743.7	748.0	747.7	70.2	588.6
22,5°	571.4	571.2	573.5	575.9	579.7	580.1	60.8	649.4
25,0°	443.2	444.5	446.3	448.3	449.2	448.8	52.5	701.9
27,5°	344.0	344.5	345.1	346.1	344.9	343.6	44.7	746.7
30,0°	273.7	273.8	273.9	272.4	270.2	268.2	38.5	785.2
32,5°	217.7	217.2	215.9	213.7	211.0	209.4	32.9	818.1
35,0°	172.5	170.5	168.2	166.4	165.0	164.5	27.8	845.9
37,5°	138.1	135.6	133.3	132.0	130.7	130.3	23.7	869.5
40,0°	110.2	108.1	106.1	104.8	103.7	103.1	20.0	889.6
42,5°	88.5	86.8	85.0	83.9	83.2	82.7	16.9	906.5
45,0°	71.2	69.8	68.4	67.3	66.9	66.6	14.2	920.7
47,5°	58.5	57.3	56.0	55.1	54.8	54.6	12.1	932.8
50,0°	48.3	47.1	46.0	45.5	45.1	44.8	10.3	943.0
52,5°	40.2	39.3	38.3	37.7	37.1	36.8	8.7	951.8
55,0°	34.1	33.4	32.5	31.7	31.0	30.7	7.5	959.3
57,5°	29.3	29.0	28.2	27.0	26.3	26.1	6.6	965.9
60,0°	25.7	25.8	24.8	23.5	22.8	22.6	5.8	971.6
62,5°	22.4	22.9	21.8	20.7	20.1	19.9	5.1	976.8
65,0°	19.6	20.2	19.7	18.4	17.9	17.8	4.6	981.4
67,5°	16.7	17.6	17.8	16.4	16.0	16.0	4.1	985.5
70,0°	14.1	15.0	15.6	14.4	14.4	14.6	3.6	989.1
72,5°	11.7	12.4	13.4	12.9	13.2	13.4	3.1	992.3
75,0°	9.5	10.4	12.0	11.4	11.8	11.9	2.7	995.0
77,5°	7.2	8.1	9.6	9.6	10.0	10.2	2.1	997.1
80,0°	5.1	5.7	7.0	7.5	7.6	8.0	1.5	998.6
82,5°	3.0	3.6	4.5	5.0	5.3	5.6	0.9	999.5
85,0°	1.2	1.7	2.3	2.7	3.1	3.3	0.4	999.9
87,5°	0.4	0.4	0.5	0.6	0.8	0.9	0.1	1000.1

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Family Highbay 21	Order number: 52HN11DA6LMA EAN: 4069025445162	LP number 59724_275
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UGR-Table		Standard room									
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	12.1	13.2	12.4	13.5	13.8	11.5	12.6	11.9	12.9	13.3
	3H	12.5	13.5	12.9	13.8	14.2	12.2	13.1	12.5	13.5	13.8
	4H	12.7	13.6	13.1	14.0	14.3	12.6	13.5	13.0	13.8	14.2
	6H	12.9	13.7	13.3	14.0	14.4	13.0	13.8	13.4	14.2	14.6
	8H	13.0	13.6	13.4	14.0	14.4	13.2	13.9	13.6	14.3	14.7
	12H	12.9	13.5	13.4	13.9	14.4	13.3	13.9	13.7	14.3	14.7
4H	2H	12.2	13.1	12.6	13.5	13.9	11.7	12.6	12.1	13.0	13.4
	3H	12.8	13.6	13.2	14.0	14.4	12.6	13.3	13.0	13.7	14.2
	4H	13.1	13.8	13.6	14.2	14.6	13.1	13.8	13.6	14.2	14.7
	6H	13.4	13.9	13.8	14.4	14.8	13.7	14.2	14.1	14.7	15.1
	8H	13.4	13.9	13.9	14.3	14.8	13.9	14.4	14.4	14.8	15.3
	12H	13.4	13.8	13.9	14.2	14.7	14.0	14.4	14.5	14.9	15.4
8H	4H	13.2	13.7	13.7	14.2	14.7	13.2	13.7	13.7	14.2	14.7
	6H	13.5	13.9	14.0	14.4	14.9	13.8	14.2	14.3	14.7	15.2
	8H	13.5	13.9	14.0	14.4	14.9	14.1	14.4	14.6	14.9	15.4
	12H	13.5	13.8	14.0	14.3	14.8	14.2	14.5	14.8	15.0	15.6
12H	4H	13.2	13.6	13.7	14.1	14.6	13.2	13.6	13.7	14.1	14.6
	6H	13.5	13.8	14.0	14.3	14.9	13.8	14.2	14.4	14.6	15.2
	8H	13.5	13.8	14.1	14.3	14.9	14.1	14.3	14.6	14.9	15.4

Luminance table		Max. for $\gamma \geq 65^\circ$									
		Photometric dimensions in mm: L = 426 B = 264									
C-planes	$\gamma$	10,0°	20,0°	30,0°	40,0°	50,0°	60,0°	70,0°	80,0°	90,0°	
		170,0°	160,0°	150,0°	140,0°	130,0°	120,0°	110,0°	100,0°		
		190,0°	200,0°	210,0°	220,0°	230,0°	240,0°	250,0°	260,0°		
		180,0°	340,0°	330,0°	320,0°	310,0°	300,0°	290,0°	280,0°	270,0°	
		Luminance in cd/m <sup>2</sup>									
45,0°		4134.9	4036.6	4031.2	3922.5	3753.7	3641.8	3548.0	3453.8	3404.8	3382.3
50,0°		2931.2	2882.2	2894.9	2849.6	2772.9	2718.9	2632.5	2557.4	2526.1	2501.9
55,0°		2123.3	2103.1	2167.0	2195.0	2185.3	2146.9	2093.6	2019.1	1950.9	1925.3
60,0°		1604.2	1614.4	1730.3	1857.0	1845.4	1841.9	1854.6	1755.8	1652.0	1625.4
65,0°		1448.2	1436.2	1517.7	1679.2	1619.0	1647.6	1718.2	1645.4	1534.9	1516.7
70,0°		1343.1	1313.9	1418.9	1498.8	1445.5	1464.4	1576.4	1616.0	1509.8	1530.8
75,0°		1342.6	1270.5	1316.2	1292.2	1261.2	1304.5	1438.0	1677.3	1627.5	1653.0
80,0°		1013.5	975.0	1002.5	939.8	948.3	1018.7	1186.4	1504.7	1555.0	1647.1
85,0°		333.0	324.5	331.8	336.7	372.4	451.7	690.8	995.9	1227.0	1367.2

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

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

**siteco**

