
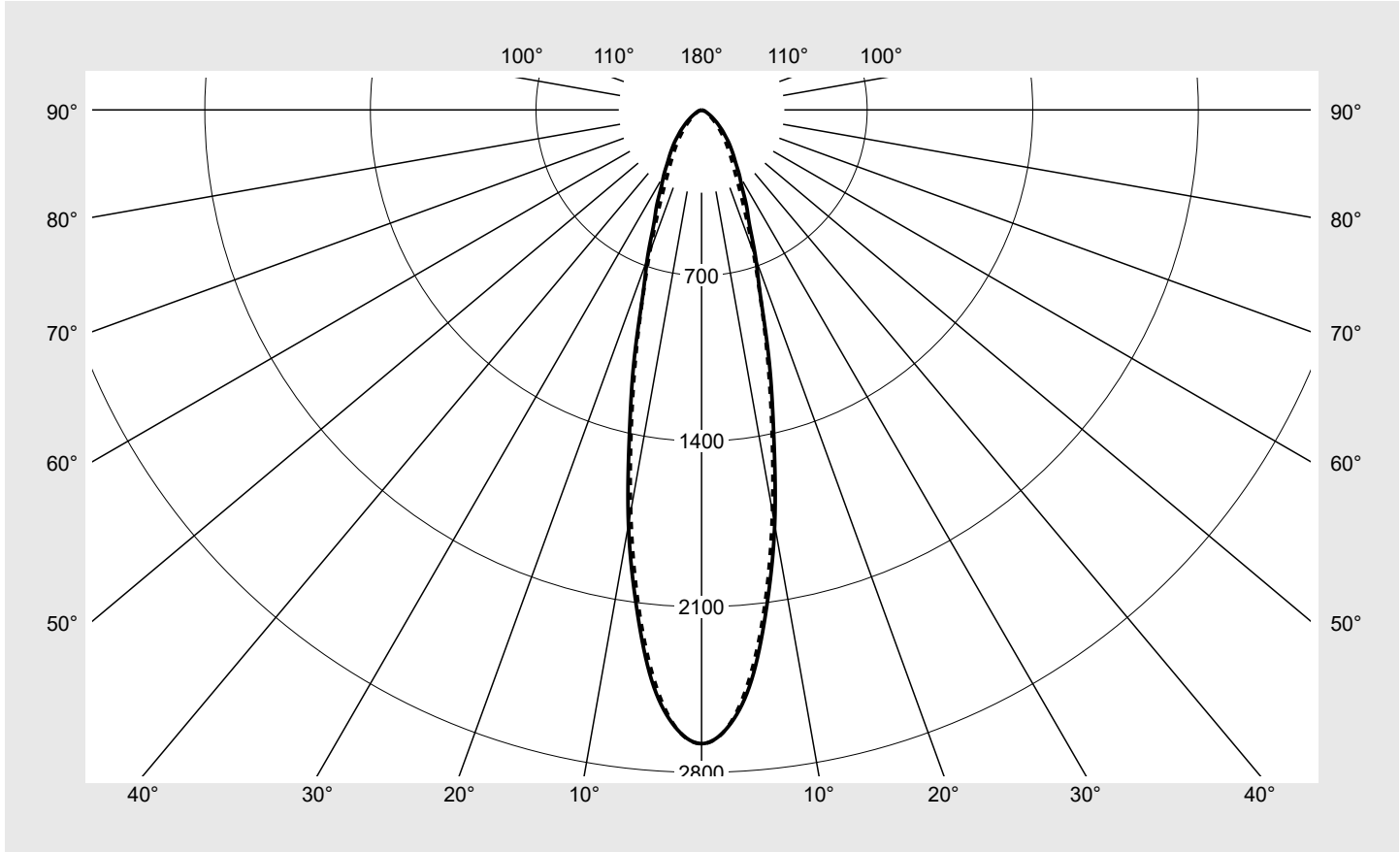


# Photometric test report

<b>Family</b> <b>Highbay 11</b>	<b>Order number: 51HN11DA6LDA</b> <b>EAN: 4069025424211</b>	<b>LP number</b> <b>59711_410</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>	AC-mode
	<b>Rated values</b>	Net luminous flux = 26540 lm Power consumption = 146.7 W Luminous efficacy = 180.9 lm/W
		<b>serial documentation</b> 10.04.2025
		

**Luminous intensity in cd/klm**    **C180-0**    **C270-90**    **Imax: 2679 cd/klm**



Classifications	
DIN 5040	A 7 0
CIE	N1=85 N2=97 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°	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

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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	20.9	22.1	21.2	22.4	22.7	19.7	20.9	20.0	21.2	21.5
	3H	21.1	22.1	21.5	22.5	22.8	20.0	21.0	20.4	21.3	21.7
	4H	21.2	22.1	21.6	22.5	22.9	20.1	21.1	20.5	21.4	21.8
	6H	21.2	22.1	21.7	22.4	22.8	20.3	21.1	20.7	21.5	21.9
	8H	21.3	22.0	21.7	22.4	22.8	20.4	21.1	20.8	21.5	21.9
	12H	21.3	21.9	21.7	22.3	22.7	20.4	21.1	20.8	21.4	21.9
4H	2H	20.9	21.9	21.3	22.2	22.6	19.9	20.8	20.3	21.2	21.6
	3H	21.3	22.0	21.7	22.4	22.8	20.3	21.1	20.7	21.5	21.9
	4H	21.4	22.1	21.8	22.5	22.9	20.5	21.2	20.9	21.6	22.0
	6H	21.4	22.0	21.9	22.5	22.9	20.7	21.3	21.1	21.7	22.2
	8H	21.4	21.9	21.9	22.4	22.9	20.8	21.3	21.2	21.7	22.2
	12H	21.4	21.8	21.9	22.3	22.8	20.8	21.2	21.3	21.7	22.2
8H	4H	21.4	21.9	21.8	22.3	22.8	20.5	21.0	21.0	21.5	21.9
	6H	21.4	21.9	21.9	22.3	22.9	20.7	21.2	21.2	21.6	22.1
	8H	21.4	21.8	21.9	22.3	22.8	20.8	21.2	21.3	21.7	22.2
	12H	21.4	21.7	21.9	22.2	22.7	20.9	21.2	21.4	21.7	22.3
12H	4H	21.3	21.8	21.8	22.2	22.7	20.5	20.9	21.0	21.4	21.9
	6H	21.4	21.8	21.9	22.3	22.8	20.7	21.1	21.2	21.6	22.1
	8H	21.4	21.7	21.9	22.2	22.8	20.8	21.1	21.3	21.6	22.2

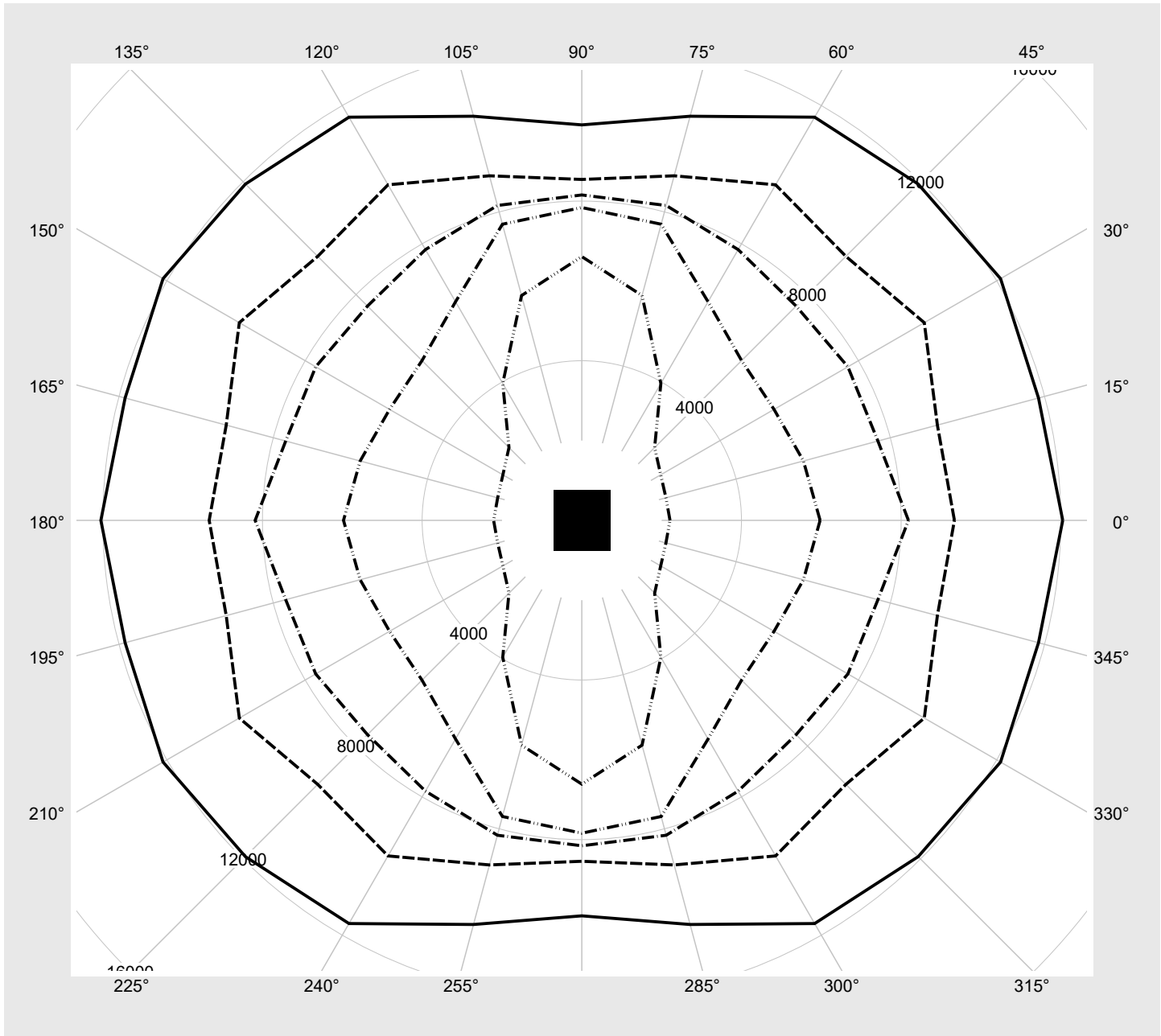
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 426 B = 264
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C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45,0°		42046.7	40643.0	38812.1	36384.5	34041.7	31814.7	31102.5	
50,0°		31521.0	30423.7	29135.1	27405.2	25350.3	23370.8	22709.2	
55,0°		22871.8	22252.6	21481.6	20365.8	18797.0	17157.5	16467.9	
60,0°		15692.6	15709.6	16001.8	15288.2	14379.1	12973.1	12325.6	
65,0°		12048.4	11845.2	12113.8	11917.8	11665.9	10483.8	9909.8	
70,0°		9334.7	9222.3	9907.4	9356.1	9709.4	8938.7	8542.6	
75,0°		8183.2	7679.9	7697.3	7593.3	7834.0	8168.7	8154.1	
80,0°		5970.1	5748.5	5561.0	5661.6	6326.1	7682.4	7838.7	
85,0°		2209.4	2182.4	2282.5	2580.4	3961.3	5832.3	6609.4	

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**Luminance values in cd/m<sup>2</sup>**     γ 65°   γ 70°   γ 75°   γ 80°   γ 85°     **siteco**



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Dimming levels table	environmental temperature: 25°C	sITeco
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	26540	146.7
95	240	252	25204	138.3
90	226	250	23841	129.7
85	213	248	22569	121.9
80	199	245	21187	113.6
75	186	243	19894	105.9
70	173	240	18588	98.3
65	160	237	17272	90.7
60	147	234	15936	83.1
55	134	231	14598	75.6
50	121	227	13240	68.3
45	109	223	11975	61.5
40	96	218	10598	54.0
35	84	213	9309	47.3
30	72	208	8012	40.6
25	59	201	6590	33.5
20	47	192	5267	27.0
15	35	181	3927	20.6
10	24	168	2691	14.6
5	12	142	1328	7.8
2	5	110	525	3.9