



# Photometric test report

<b>Family</b> <b>Highbay 11</b>	<b>Order number: 51HN11DA6FDA</b> <b>EAN: 4069025424174</b>	<b>LP number</b> <b>59711_408</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 = 14220 lm Power consumption = 73.2 W Luminous efficacy = 194.3 lm/W
		<b>serial documentation</b> <b>10.04.2025</b>
		

**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



C-planes γ	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	18.7	19.9	19.1	20.2	20.5	17.5	18.7	17.9	19.0	19.3
	3H	18.9	20.0	19.3	20.3	20.7	17.8	18.8	18.2	19.2	19.5
	4H	19.0	20.0	19.4	20.3	20.7	17.9	18.9	18.3	19.2	19.6
	6H	19.1	19.9	19.5	20.3	20.7	18.1	18.9	18.5	19.3	19.7
	8H	19.1	19.8	19.6	20.2	20.6	18.2	18.9	18.6	19.3	19.7
	12H	19.1	19.7	19.5	20.1	20.6	18.2	18.9	18.6	19.3	19.7
4H	2H	18.8	19.7	19.2	20.1	20.4	17.7	18.7	18.1	19.0	19.4
	3H	19.1	19.9	19.5	20.3	20.7	18.1	18.9	18.5	19.3	19.7
	4H	19.2	19.9	19.6	20.3	20.8	18.3	19.0	18.8	19.4	19.9
	6H	19.3	19.9	19.7	20.3	20.8	18.5	19.1	19.0	19.5	20.0
	8H	19.3	19.8	19.8	20.2	20.7	18.6	19.1	19.1	19.6	20.0
	12H	19.3	19.7	19.7	20.1	20.6	18.6	19.1	19.1	19.5	20.0
8H	4H	19.2	19.7	19.7	20.2	20.6	18.3	18.8	18.8	19.3	19.8
	6H	19.3	19.7	19.8	20.2	20.7	18.6	19.0	19.1	19.5	20.0
	8H	19.3	19.6	19.8	20.1	20.6	18.7	19.0	19.2	19.5	20.0
	12H	19.2	19.5	19.8	20.0	20.6	18.7	19.0	19.3	19.5	20.1
12H	4H	19.2	19.6	19.7	20.1	20.6	18.3	18.7	18.8	19.2	19.7
	6H	19.3	19.6	19.8	20.1	20.6	18.6	18.9	19.1	19.4	19.9
	8H	19.2	19.5	19.8	20.0	20.6	18.7	18.9	19.2	19.5	20.0

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°		22528.4	21776.3	20795.3	19494.6	18239.4	17046.1	16664.6	
50,0°		16888.8	16300.9	15610.4	14683.5	13582.6	12521.9	12167.5	
55,0°		12254.6	11922.8	11509.7	10911.9	10071.3	9192.9	8823.4	
60,0°		8408.0	8417.1	8573.7	8191.3	7704.3	6950.9	6604.0	
65,0°		6455.5	6346.6	6490.5	6385.5	6250.5	5617.2	5309.6	
70,0°		5001.5	4941.2	5308.3	5013.0	5202.2	4789.3	4577.1	
75,0°		4384.5	4114.9	4124.2	4068.5	4197.4	4376.7	4368.9	
80,0°		3198.7	3080.0	2979.6	3033.4	3389.5	4116.2	4199.9	
85,0°		1183.8	1169.3	1223.0	1382.6	2122.4	3124.9	3541.3	

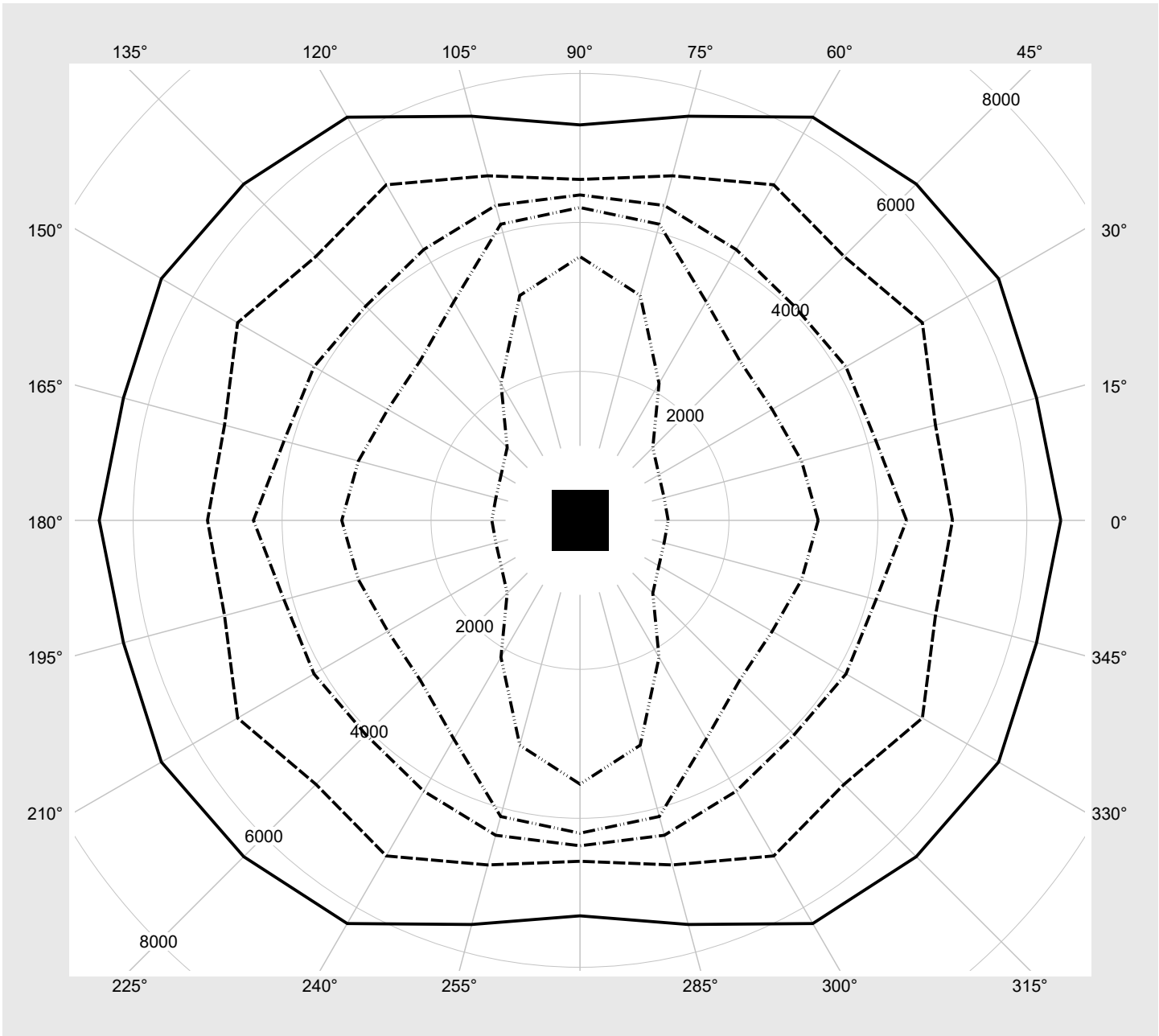
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**Luminance values in cd/m<sup>2</sup>**

$\gamma$  65°   
   $\gamma$  70°   
   $\gamma$  75°   
   $\gamma$  80°   
   $\gamma$  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	14220	73.2
95	241	252	13521	69.3
90	228	250	12822	65.5
85	214	248	12066	61.5
80	201	245	11356	57.7
75	188	243	10649	53.8
70	175	240	9936	50.1
65	162	238	9216	46.4
60	150	235	8552	43.0
55	137	231	7828	39.2
50	124	228	7097	35.6
45	112	224	6424	32.2
40	99	219	5690	28.6
35	87	215	5004	25.2
30	74	209	4263	21.7
25	62	202	3574	18.3
20	49	194	2819	14.8
15	37	183	2123	11.5
10	25	169	1424	8.2
5	13	145	716	4.7
2	5	110	245	2.5