

# Photometric test report

<b>Family</b> <b>Highbay 11</b>	<b>Order number: 51HN31TATFDA</b> <b>EAN: 4069025493293</b>	<b>LP number</b> <b>59711_483</b>
	<b>Version</b> primary light control with lens, PMMA, housing, black, narrow distribution <b>Lamps</b> LED 2700 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI <b>Setting</b> individual position <b>Rated values</b> Net luminous flux = 12780 lm Power consumption = 75.1 W Luminous efficacy = 170.2 lm/W	<b>serial documentation</b> <b>02.07.2025</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
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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									
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	18.3	19.5	18.7	19.8	20.1	17.1	18.3	17.5	18.6	19.0
	3H	18.6	19.6	19.0	19.9	20.3	17.4	18.5	17.8	18.8	19.2
	4H	18.7	19.6	19.1	19.9	20.3	17.6	18.5	18.0	18.9	19.3
	6H	18.7	19.5	19.1	19.9	20.3	17.7	18.6	18.1	18.9	19.3
	8H	18.8	19.5	19.2	19.9	20.3	17.8	18.6	18.3	18.9	19.3
	12H	18.7	19.4	19.2	19.8	20.2	17.8	18.5	18.3	18.9	19.3
4H	2H	18.4	19.3	18.8	19.7	20.1	17.3	18.3	17.7	18.6	19.0
	3H	18.7	19.5	19.1	19.9	20.3	17.7	18.5	18.2	18.9	19.3
	4H	18.8	19.5	19.3	19.9	20.4	17.9	18.6	18.4	19.0	19.5
	6H	18.9	19.5	19.4	19.9	20.4	18.1	18.7	18.6	19.2	19.6
	8H	18.9	19.4	19.4	19.9	20.3	18.2	18.7	18.7	19.2	19.7
	12H	18.9	19.3	19.4	19.8	20.3	18.3	18.7	18.8	19.2	19.7
8H	4H	18.8	19.3	19.3	19.8	20.3	18.0	18.5	18.4	18.9	19.4
	6H	18.9	19.3	19.4	19.8	20.3	18.2	18.6	18.7	19.1	19.6
	8H	18.9	19.3	19.4	19.7	20.3	18.3	18.7	18.8	19.1	19.7
	12H	18.9	19.2	19.4	19.7	20.2	18.4	18.7	18.9	19.2	19.7
12H	4H	18.8	19.2	19.3	19.7	20.2	17.9	18.4	18.4	18.8	19.3
	6H	18.9	19.2	19.4	19.7	20.3	18.2	18.5	18.7	19.0	19.5
	8H	18.9	19.2	19.4	19.7	20.2	18.3	18.6	18.8	19.1	19.6

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Luminance table		Max. for $\gamma \geq 65^\circ$							Photometric dimensions in mm:		L = 426	B = 264
C-planes	$\gamma$	0°	15°	30°	45°	60°	75°	90°				
		180°	165°	150°	135°	120°	105°		270°			
		195°	210°	225°	240°	255°	270°					
		345°	330°	315°	300°	285°						
		Luminance in cd/m <sup>2</sup>										
45,0°		20247.0	19571.1	18689.5	17520.5	16392.3	15320.0	14977.0				
50,0°		15178.6	14650.1	14029.6	13196.6	12207.1	11253.9	10935.3				
55,0°		11013.6	10715.5	10344.2	9806.9	9051.5	8262.0	7929.9				
60,0°		7556.6	7564.8	7705.5	7361.8	6924.1	6247.0	5935.2				
65,0°		5801.8	5703.9	5833.2	5738.8	5617.6	5048.3	4771.9				
70,0°		4495.0	4440.9	4770.8	4505.3	4675.4	4304.3	4113.6				
75,0°		3940.5	3698.2	3706.5	3656.5	3772.4	3933.5	3926.5				
80,0°		2874.8	2768.1	2677.8	2726.3	3046.3	3699.4	3774.6				
85,0°		1063.9	1050.9	1099.1	1242.6	1907.5	2808.5	3182.7				

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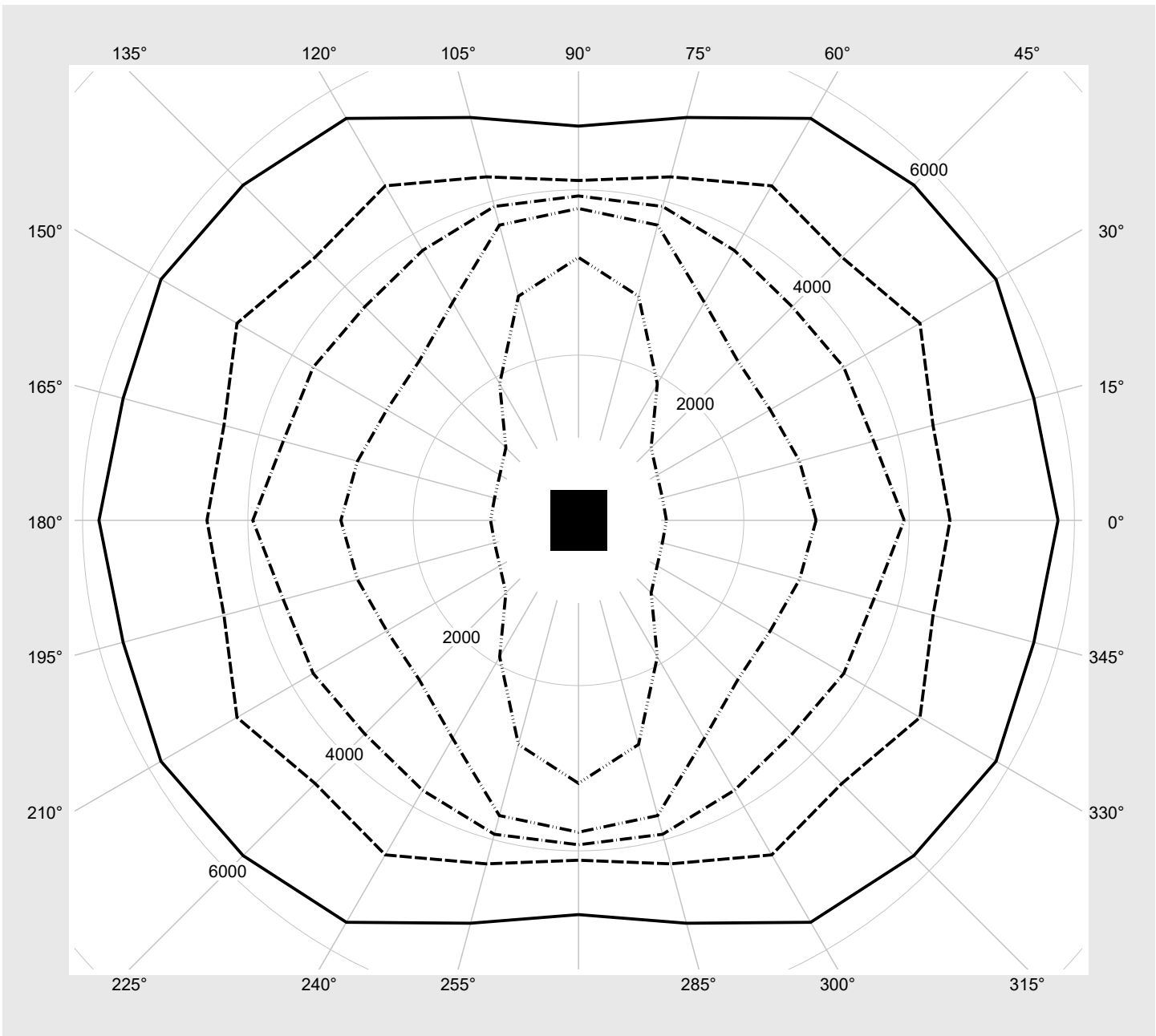
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Highbay 11

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

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



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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	12780	75.1
95	240	252	12121	70.9
90	227	250	11508	66.8
85	213	248	10846	62.7
80	200	245	10225	58.8
75	187	243	9596	54.8
70	174	240	8965	50.9
65	161	237	8331	47.1
60	148	234	7690	43.3
55	135	231	7040	39.5
50	122	227	6389	35.9
45	109	223	5733	32.1
40	97	219	5121	28.8
35	84	213	4449	25.2
30	72	208	3827	21.9
25	60	201	3199	18.6
20	48	193	2567	15.2
15	36	182	1929	11.9
10	24	168	1282	8.7
5	12	142	632	5.5
2	4	102	196	3.2