

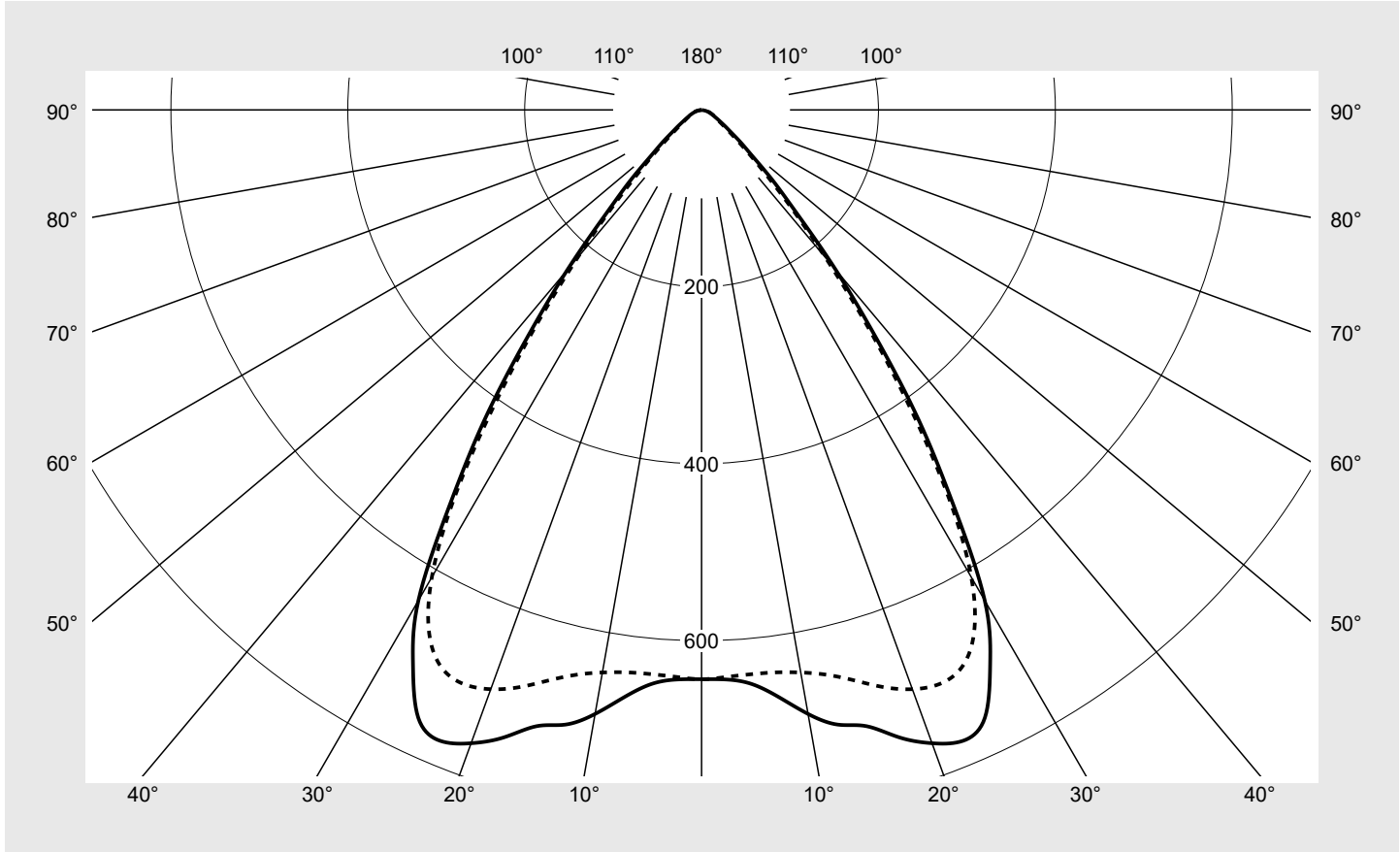


# Photometric test report

<b>Family</b> <b>Highbay 11</b>	<b>Order number: 51HN12TATFDA</b> <b>EAN: 4069025493279</b>	<b>LP number</b> <b>59710_507</b>
	<b>Version</b>	primary light control with lens, PMMA, housing, white, wide distribution
	<b>Lamps</b>	LED 4000 K   CRI ≥ 80
	<b>Controlgear</b>	ECG-DALI
	<b>Setting</b>	factory setting
	<b>Rated values</b>	Net luminous flux = 12780 lm Power consumption = 71.8 W Luminous efficacy = 178 lm/W
		<b>serial documentation</b> <b>02.07.2025</b>
		

**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



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°	643.6	643.6	643.6	643.6	643.6	643.6	643.6	1.0	1.0
2,5°	644.5	645.1	645.0	644.3	644.2	643.7	641.7	7.7	8.7
5,0°	651.5	652.3	650.7	647.5	645.3	643.2	640.4	15.5	24.1
7,5°	669.6	669.1	664.2	657.2	651.2	645.8	641.3	23.5	47.6
10,0°	693.4	691.0	681.5	670.0	659.9	651.2	645.8	31.9	79.6
12,5°	711.8	709.4	700.3	685.9	671.9	660.7	654.0	40.7	120.2
15,0°	721.3	721.7	717.1	704.9	689.4	675.9	667.7	49.7	169.9
17,5°	743.8	740.8	737.9	726.5	708.9	693.0	684.2	59.4	229.3
20,0°	761.9	761.9	759.6	745.2	724.0	705.6	696.8	69.2	298.5
22,5°	772.0	771.2	770.0	754.7	731.1	710.8	702.6	78.2	376.7
25,0°	758.1	756.6	756.3	743.6	722.7	703.3	695.6	85.1	461.8
27,5°	706.7	709.5	709.5	700.0	685.7	672.3	667.0	87.8	549.7
30,0°	640.4	635.6	633.7	626.6	621.7	614.1	609.9	85.8	635.5
32,5°	530.6	537.6	535.6	526.2	530.2	524.1	520.8	78.1	713.6
35,0°	428.2	426.4	425.9	411.9	420.8	414.2	411.4	66.0	779.6
37,5°	322.5	323.4	327.0	311.0	319.4	310.8	308.2	53.0	832.6
40,0°	236.1	234.0	241.6	230.8	230.9	219.8	218.4	40.7	873.3
42,5°	162.3	165.3	172.9	171.1	161.7	151.3	150.8	30.2	903.5
45,0°	117.3	114.9	119.4	122.5	109.3	102.6	102.3	21.9	925.4
47,5°	80.5	81.4	82.8	85.5	75.2	71.4	70.8	15.9	941.3
50,0°	59.4	58.0	58.0	59.0	52.9	50.5	49.6	11.7	953.0
52,5°	43.3	42.8	42.8	43.0	39.3	37.2	36.6	8.9	961.8
55,0°	33.3	32.4	32.9	33.7	30.5	28.7	28.3	7.1	968.9
57,5°	25.9	25.4	25.9	26.8	24.5	22.9	22.9	5.8	974.7
60,0°	20.9	20.2	21.2	21.8	20.4	18.9	19.2	4.9	979.5
62,5°	16.9	16.2	17.4	18.0	17.2	15.9	16.4	4.1	983.6
65,0°	14.9	13.6	14.4	15.1	14.8	13.6	14.4	3.6	987.2
67,5°	12.3	11.4	12.5	12.4	13.0	11.7	12.6	3.1	990.3
70,0°	10.4	9.5	10.5	10.1	11.1	10.1	11.0	2.7	993.0
72,5°	8.2	7.7	7.9	8.2	8.7	8.6	9.5	2.2	995.2
75,0°	6.5	6.0	6.0	6.4	6.6	7.1	7.9	1.7	996.9
77,5°	4.5	4.3	4.4	4.7	5.1	5.6	6.3	1.3	998.2
80,0°	2.9	2.7	2.9	3.1	3.5	4.1	4.7	0.9	999.1
82,5°	1.3	1.4	1.6	1.8	2.2	2.7	3.3	0.5	999.7
85,0°	0.6	0.6	0.6	0.7	1.0	1.4	1.8	0.3	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	19.4	20.7	19.7	21.0	21.3	19.1	20.4	19.4	20.7	21.0
	3H	19.4	20.5	19.8	20.8	21.2	19.1	20.2	19.5	20.6	20.9
	4H	19.4	20.4	19.8	20.8	21.1	19.1	20.2	19.5	20.5	20.9
	6H	19.3	20.3	19.7	20.6	21.0	19.1	20.1	19.5	20.4	20.8
	8H	19.4	20.2	19.8	20.6	21.0	19.2	20.0	19.7	20.4	20.8
	12H	19.4	20.1	19.8	20.5	20.9	19.2	20.0	19.7	20.3	20.8
4H	2H	19.3	20.3	19.7	20.7	21.0	19.0	20.0	19.4	20.4	20.7
	3H	19.3	20.2	19.7	20.5	21.0	19.0	19.9	19.5	20.3	20.7
	4H	19.3	20.1	19.7	20.5	20.9	19.1	19.9	19.5	20.3	20.7
	6H	19.3	19.9	19.7	20.4	20.8	19.1	19.8	19.6	20.2	20.7
	8H	19.2	19.8	19.7	20.3	20.8	19.1	19.7	19.6	20.2	20.7
	12H	19.3	19.7	19.8	20.2	20.7	19.2	19.7	19.7	20.1	20.6
8H	4H	19.2	19.8	19.7	20.3	20.7	19.0	19.6	19.5	20.1	20.5
	6H	19.2	19.7	19.7	20.2	20.7	19.1	19.6	19.6	20.0	20.5
	8H	19.2	19.6	19.7	20.1	20.6	19.1	19.5	19.6	20.0	20.5
	12H	19.2	19.5	19.7	20.0	20.5	19.1	19.4	19.7	20.0	20.5
12H	4H	19.2	19.7	19.7	20.2	20.7	19.0	19.5	19.5	20.0	20.5
	6H	19.2	19.6	19.7	20.1	20.6	19.1	19.5	19.6	19.9	20.5
	8H	19.2	19.5	19.7	20.0	20.5	19.1	19.4	19.6	19.9	20.5

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°		18854.8	18462.2	19191.2	19683.1	17560.0	16487.2	16438.6	
50,0°		10505.2	10256.8	10246.0	10429.0	9358.4	8923.0	8769.9	
55,0°		6601.9	6425.4	6517.1	6666.7	6047.6	5684.8	5616.5	
60,0°		4748.4	4583.9	4816.4	4960.9	4644.8	4301.4	4356.1	
65,0°		4006.7	3644.8	3884.9	4052.4	3968.2	3669.8	3877.1	
70,0°		3443.8	3142.1	3475.7	3362.7	3689.0	3358.1	3667.4	
75,0°		2838.1	2628.6	2621.6	2803.8	2913.1	3118.2	3476.0	
80,0°		1916.1	1787.8	1891.9	2043.7	2306.8	2713.2	3092.7	
85,0°		765.3	761.4	786.2	920.5	1361.2	1813.6	2349.5	

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**Family**  
Highbay 11

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**EAN: 4069025493279**

**LP number**  
59710\_507

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

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

