

Photometric test report

Family Highbay 11	Order number: 51HN32TATFDA EAN: 4069025494429	LP number 59710_509
	Version primary light control with lens, PMMA, housing, black, wide distribution Lamps LED 2700 K CRI ≥ 80 Controlgear ECG-DALI Setting individual position Rated values Net luminous flux = 12780 lm Power consumption = 75.1 W Luminous efficacy = 170.2 lm/W	serial documentation 02.07.2025

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	
η_{LB}	100.0%
ϕ_u	100.0%
ϕ_o	0.0%

Measurement conditions
DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		Maximum luminous intensity
		siteco

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°	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	γ	Luminance in cd/m ²							
		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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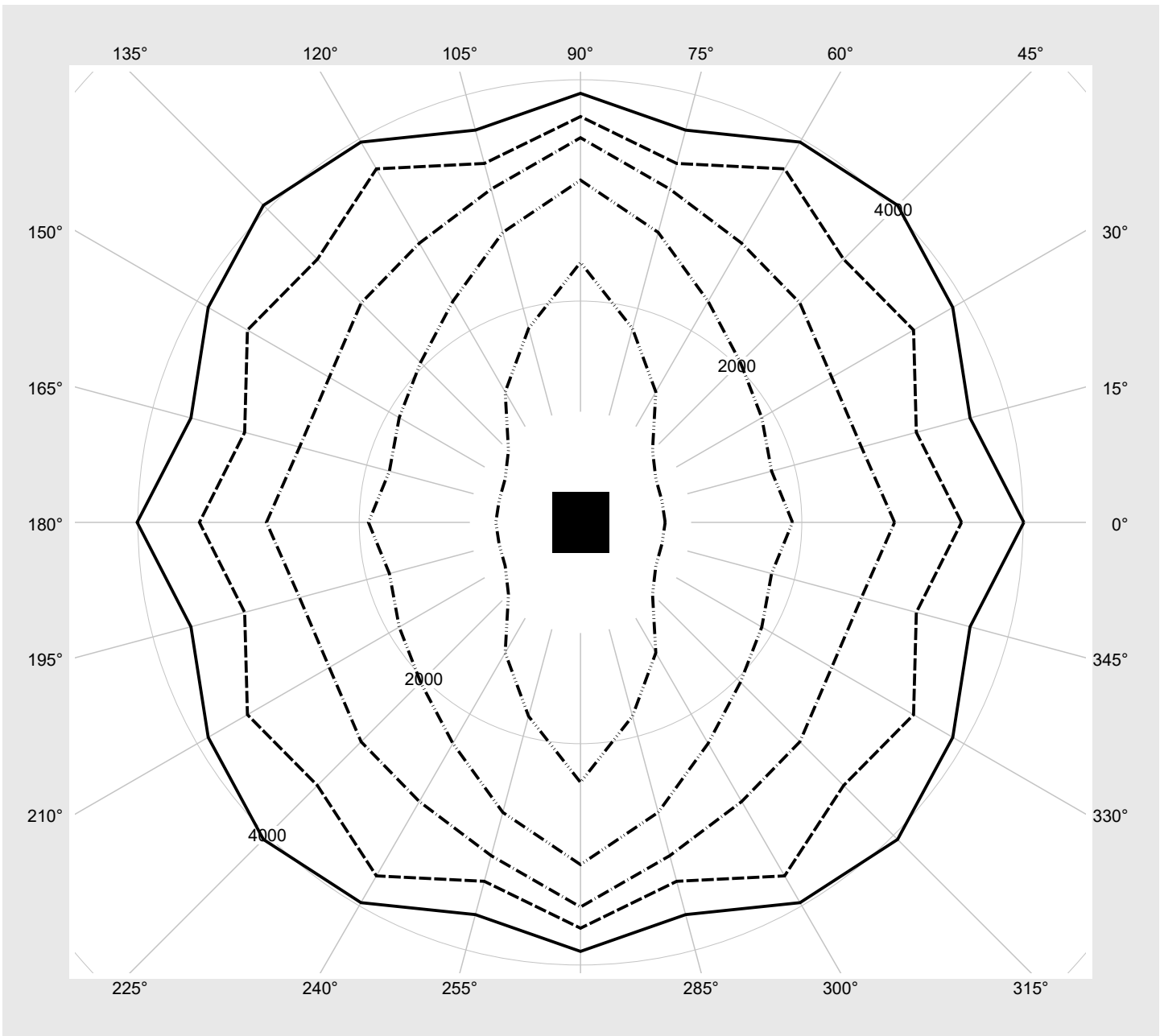
Family
Highbay 11

Order number: 51HN32TATFDA
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LP number
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 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