



Photometric test report

Family Highbay 11	Order number: 51HN11TATFDA EAN: 4069025493255	LP number 59711_482
	Version	primary light control with lens, PMMA, housing, white, narrow distribution
	Lamps	LED 6500 K CRI ≥ 80
	Controlgear	ECG-DALI
	Setting	individual position
	Rated values	Net luminous flux = 12780 lm Power consumption = 71.2 W Luminous efficacy = 179.5 lm/W
		serial documentation 02.07.2025
		

Luminous intensity in cd/klm C180-0 C270-90 I_{max}: 2679 cd/klm



Classifications	
DIN 5040	A 7 0
CIE	N1=85 N2=97 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°	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	18.3	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

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°		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	

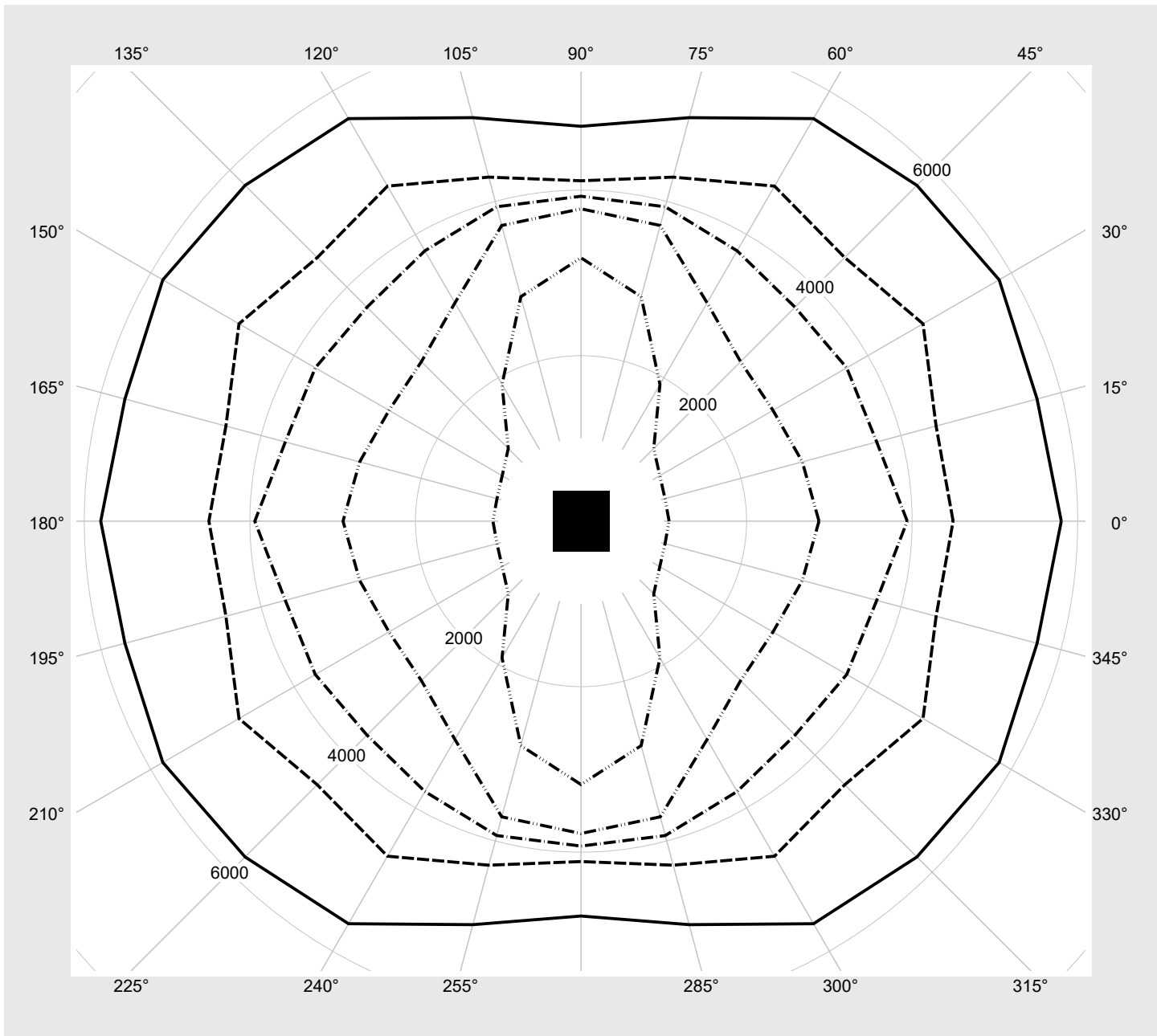
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Luminance values in cd/m²

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	12780	71.2
95	240	252	12122	67.1
90	227	250	11509	63.4
85	214	248	10887	59.7
80	200	245	10212	55.6
75	187	243	9584	52.0
70	174	240	8951	48.3
65	161	237	8313	44.8
60	148	234	7671	41.1
55	135	231	7020	37.6
50	122	227	6369	34.1
45	110	223	5762	30.9
40	97	219	5099	27.5
35	85	214	4480	24.2
30	73	208	3859	21.1
25	60	201	3182	17.7
20	48	193	2552	14.5
15	36	182	1916	11.4
10	24	168	1272	8.4
5	12	142	626	5.3
2	4	102	193	3.1