



Photometric test report

Family Highbay 11	Order number: 51HN31TATFDA EAN: 4069025493293	LP number 59711_484
	Version	primary light control with lens, PMMA, housing, black, narrow distribution
	Lamps	LED 4000 K CRI ≥ 80
	Controlgear	ECG-DALI
	Setting	factory setting
	Rated values	Net luminous flux = 12780 lm Power consumption = 71.8 W Luminous efficacy = 178 lm/W
		serial documentation 02.07.2025
		

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	
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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LP number
59711_484

Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

