

Photometric test report

Family Highbay 11	Order number: 51HN11DA4PDA EAN: 4069025358158	LP number 59711_132
	Version	primary light control with lens, PMMA, housing, white, narrow distribution
	Lamps	LED 4000 K CRI ≥ 80
	Controlgear	ECG-DALI
	Setting	AC-mode
	Rated values	Net luminous flux = 34500 lm Power consumption = 186.7 W Luminous efficacy = 184.8 lm/W
		serial documentation 14.02.2025
		

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	21.8	23.0	22.1	23.3	23.6	20.6	21.8	21.0	22.1	22.4
	3H	22.0	23.1	22.4	23.4	23.7	20.9	21.9	21.3	22.3	22.6
	4H	22.1	23.0	22.5	23.4	23.8	21.0	22.0	21.4	22.3	22.7
	6H	22.2	23.0	22.6	23.4	23.8	21.2	22.0	21.6	22.4	22.8
	8H	22.2	22.9	22.6	23.3	23.7	21.3	22.0	21.7	22.4	22.8
	12H	22.2	22.8	22.6	23.2	23.6	21.3	22.0	21.7	22.4	22.8
4H	2H	21.8	22.8	22.2	23.1	23.5	20.8	21.7	21.2	22.1	22.5
	3H	22.2	22.9	22.6	23.3	23.8	21.2	22.0	21.6	22.4	22.8
	4H	22.3	23.0	22.7	23.4	23.8	21.4	22.1	21.8	22.5	22.9
	6H	22.4	22.9	22.8	23.4	23.8	21.6	22.2	22.1	22.6	23.1
	8H	22.4	22.9	22.8	23.3	23.8	21.7	22.2	22.1	22.6	23.1
	12H	22.3	22.8	22.8	23.2	23.7	21.7	22.2	22.2	22.6	23.1
8H	4H	22.3	22.8	22.7	23.2	23.7	21.4	21.9	21.9	22.4	22.9
	6H	22.3	22.8	22.8	23.2	23.8	21.6	22.1	22.1	22.5	23.1
	8H	22.3	22.7	22.8	23.2	23.7	21.7	22.1	22.2	22.6	23.1
	12H	22.3	22.6	22.8	23.1	23.7	21.8	22.1	22.3	22.6	23.2
12H	4H	22.3	22.7	22.7	23.2	23.7	21.4	21.8	21.9	22.3	22.8
	6H	22.3	22.7	22.8	23.2	23.7	21.6	22.0	22.1	22.5	23.0
	8H	22.3	22.6	22.8	23.1	23.7	21.7	22.0	22.3	22.5	23.1

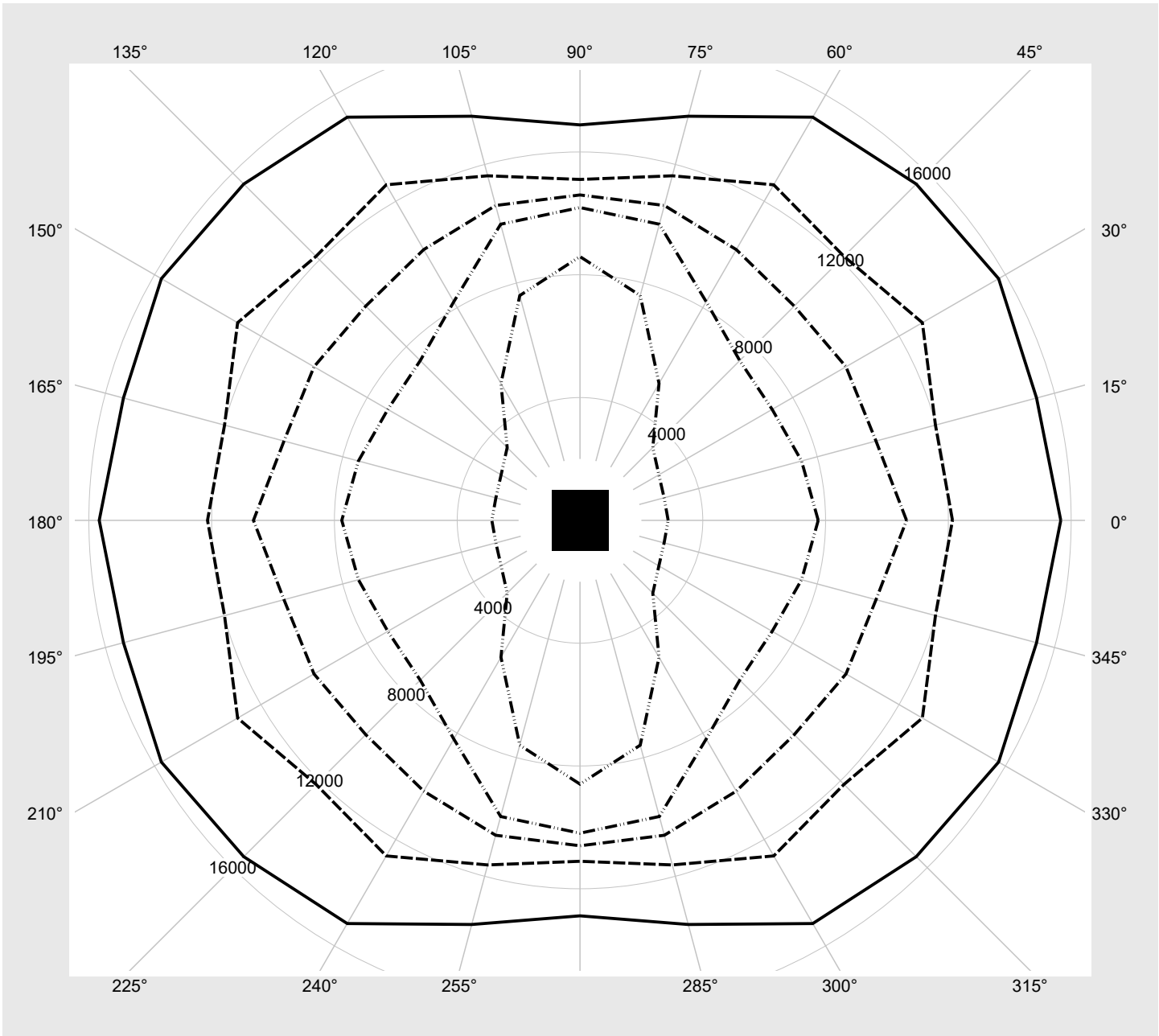
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 426 B = 264
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C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45,0°		54657.5	52832.8	50452.8	47297.1	44251.6	41356.7	40430.9	
50,0°		40975.0	39548.5	37873.4	35624.6	32953.5	30380.2	29520.2	
55,0°		29731.6	28926.7	27924.4	26474.0	24434.7	22303.4	21407.0	
60,0°		20399.2	20421.3	20801.1	19873.5	18691.8	16864.1	16022.3	
65,0°		15662.0	15397.8	15747.0	15492.2	15164.8	13628.2	12882.0	
70,0°		12134.4	11988.2	12878.9	12162.2	12621.5	11619.6	11104.8	
75,0°		10637.6	9983.3	10005.9	9870.7	10183.7	10618.6	10599.7	
80,0°		7760.6	7472.7	7228.9	7359.6	8223.5	9986.5	10189.7	
85,0°		2872.1	2836.9	2967.1	3354.3	5149.4	7581.5	8591.7	

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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	34500	186.7
95	240	252	32775	175.7
90	226	250	31037	165.0
85	212	247	29272	154.2
80	199	245	27631	144.5
75	186	243	25939	134.7
70	172	240	24132	124.1
65	159	237	22442	114.6
60	146	234	20729	105.1
55	133	230	19002	95.6
50	120	227	17248	86.2
45	107	222	15476	76.8
40	95	218	13817	68.3
35	83	213	12144	59.8
30	70	207	10306	50.6
25	58	200	8586	42.2
20	46	191	6846	34.0
15	35	181	5228	26.6
10	23	166	3438	18.5
5	12	142	1774	10.7
2	5	110	697	5.7