

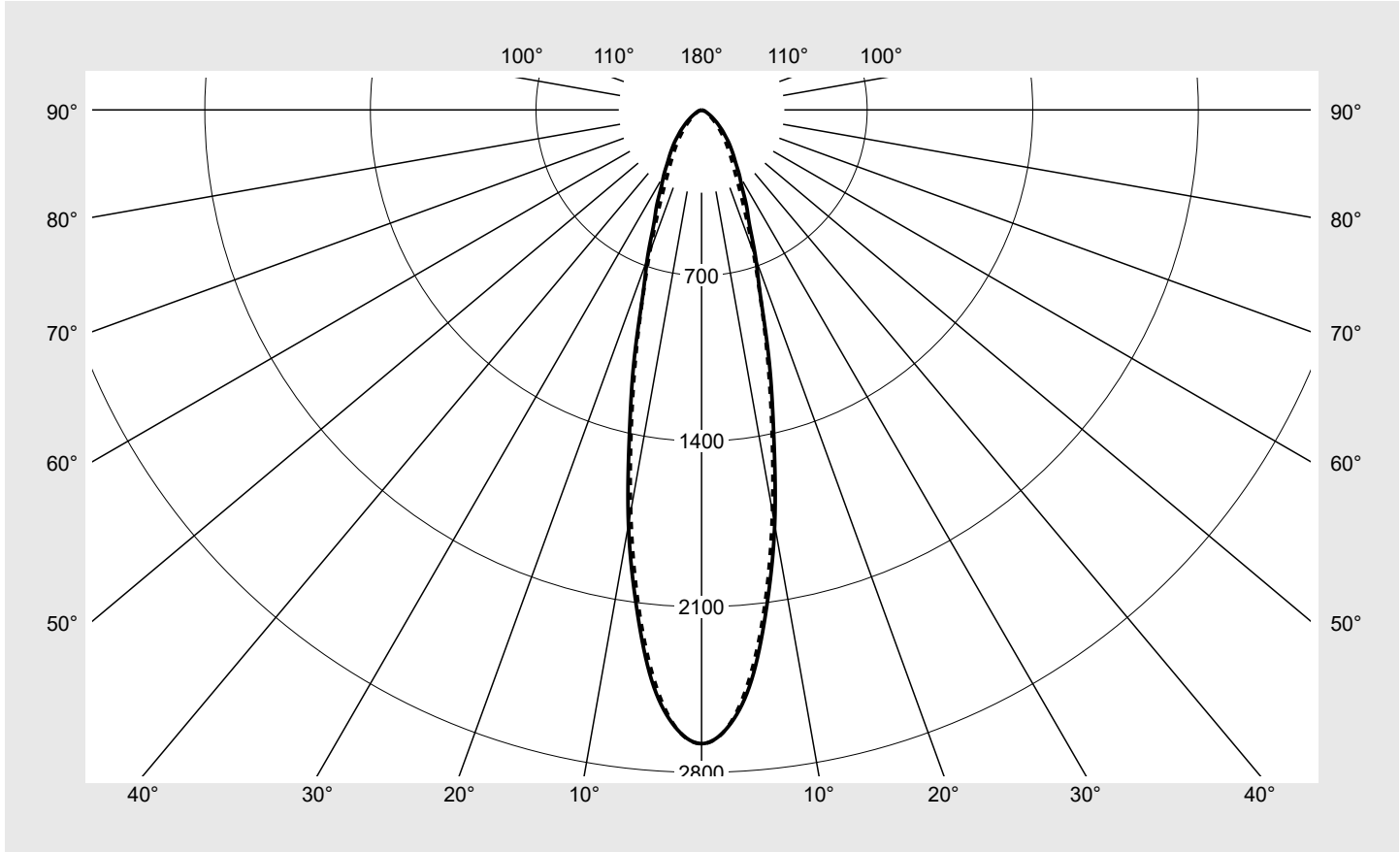


Photometric test report

Family Highbay 11	Order number: 51HN11DA3JDA EAN: 4069025424068	LP number 59711_468
	Version	primary light control with lens, PMMA, housing, white, narrow distribution
	Lamps	LED 3000 K CRI ≥ 80
	Controlgear	ECG-DALI
	Setting	AC-mode
	Rated values	Net luminous flux = 21850 lm Power consumption = 117.2 W Luminous efficacy = 186.4 lm/W
		serial documentation 26.05.2025
		

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	20.2	21.4	20.6	21.7	22.0	19.0	20.2	19.4	20.5	20.8
	3H	20.4	21.5	20.8	21.8	22.2	19.3	20.3	19.7	20.7	21.0
	4H	20.5	21.5	20.9	21.8	22.2	19.4	20.4	19.8	20.7	21.1
	6H	20.6	21.4	21.0	21.8	22.2	19.6	20.4	20.0	20.8	21.2
	8H	20.6	21.3	21.0	21.7	22.1	19.7	20.4	20.1	20.8	21.2
	12H	20.6	21.2	21.0	21.6	22.1	19.7	20.4	20.1	20.8	21.2
4H	2H	20.3	21.2	20.7	21.6	21.9	19.2	20.1	19.6	20.5	20.9
	3H	20.6	21.4	21.0	21.8	22.2	19.6	20.4	20.0	20.8	21.2
	4H	20.7	21.4	21.1	21.8	22.2	19.8	20.5	20.2	20.9	21.3
	6H	20.8	21.3	21.2	21.8	22.3	20.0	20.6	20.5	21.0	21.5
	8H	20.8	21.3	21.2	21.7	22.2	20.1	20.6	20.6	21.0	21.5
	12H	20.7	21.2	21.2	21.6	22.1	20.1	20.6	20.6	21.0	21.5
8H	4H	20.7	21.2	21.2	21.6	22.1	19.8	20.3	20.3	20.8	21.3
	6H	20.8	21.2	21.3	21.7	22.2	20.1	20.5	20.6	21.0	21.5
	8H	20.7	21.1	21.3	21.6	22.1	20.1	20.5	20.7	21.0	21.5
	12H	20.7	21.0	21.2	21.5	22.1	20.2	20.5	20.8	21.0	21.6
12H	4H	20.7	21.1	21.2	21.6	22.1	19.8	20.2	20.3	20.7	21.2
	6H	20.7	21.1	21.3	21.6	22.1	20.0	20.4	20.6	20.9	21.4
	8H	20.7	21.0	21.3	21.5	22.1	20.1	20.4	20.7	20.9	21.5

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°		34616.4	33460.8	31953.4	29954.8	28026.0	26192.6	25606.2	
50,0°		25950.8	25047.4	23986.5	22562.3	20870.6	19240.8	18696.2	
55,0°		18830.0	18320.3	17685.5	16766.9	15475.3	14125.5	13557.8	
60,0°		12919.5	12933.5	13174.0	12586.5	11838.1	10680.6	10147.5	
65,0°		9919.3	9752.0	9973.1	9811.7	9604.4	8631.2	8158.6	
70,0°		7685.1	7592.6	8156.6	7702.8	7993.6	7359.1	7033.0	
75,0°		6737.1	6322.8	6337.0	6251.5	6449.6	6725.1	6713.1	
80,0°		4915.1	4732.7	4578.3	4661.1	5208.2	6324.8	6453.5	
85,0°		1819.0	1796.7	1879.2	2124.4	3261.3	4801.6	5441.4	

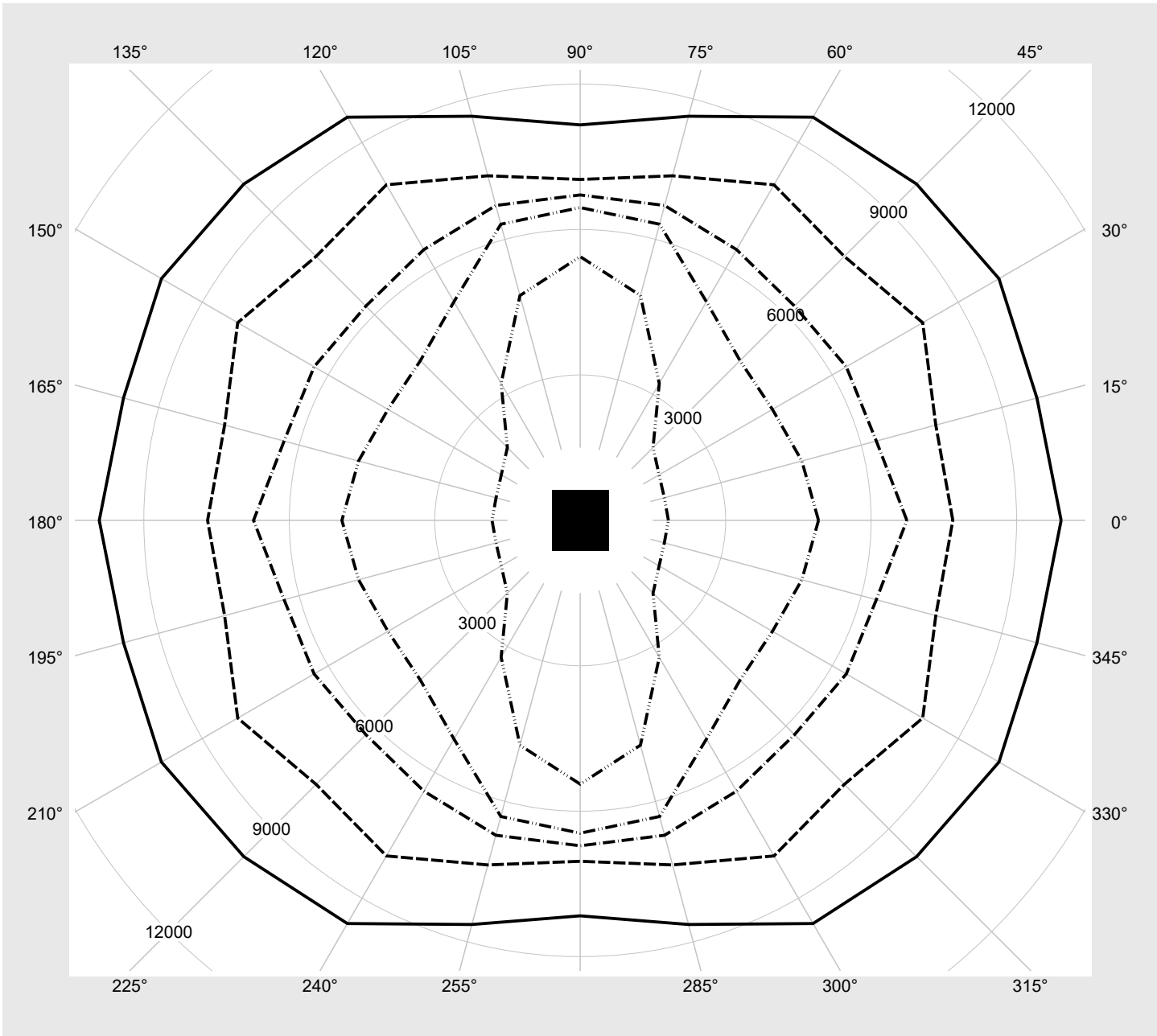
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Luminance values in cd/m²

γ 65°	γ 70°	γ 75°	γ 80°	γ 85°
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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	21850	117.2
95	240	252	20731	110.5
90	227	250	19685	104.4
85	213	248	18545	97.8
80	200	245	17481	91.6
75	187	243	16405	85.6
70	174	240	15326	79.4
65	161	237	14235	73.5
60	148	234	13136	67.6
55	135	231	12028	61.6
50	122	227	10913	55.5
45	109	223	9789	49.6
40	97	219	8739	44.2
35	85	214	7685	38.9
30	72	208	6529	33.1
25	60	201	5457	27.8
20	48	193	4376	22.6
15	36	182	3281	17.4
10	24	168	2182	12.0
5	12	142	1069	6.5
2	6	117	511	3.8