

Photometric test report

Family
Highbay 11

Order number: 51HN11DB3KDA
EAN: 4069025424242

LP number
59711_472

serial
documentation
26.05.2025

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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 = 24700 lm
Power consumption = 125.3 W
Luminous efficacy = 197.1 lm/W

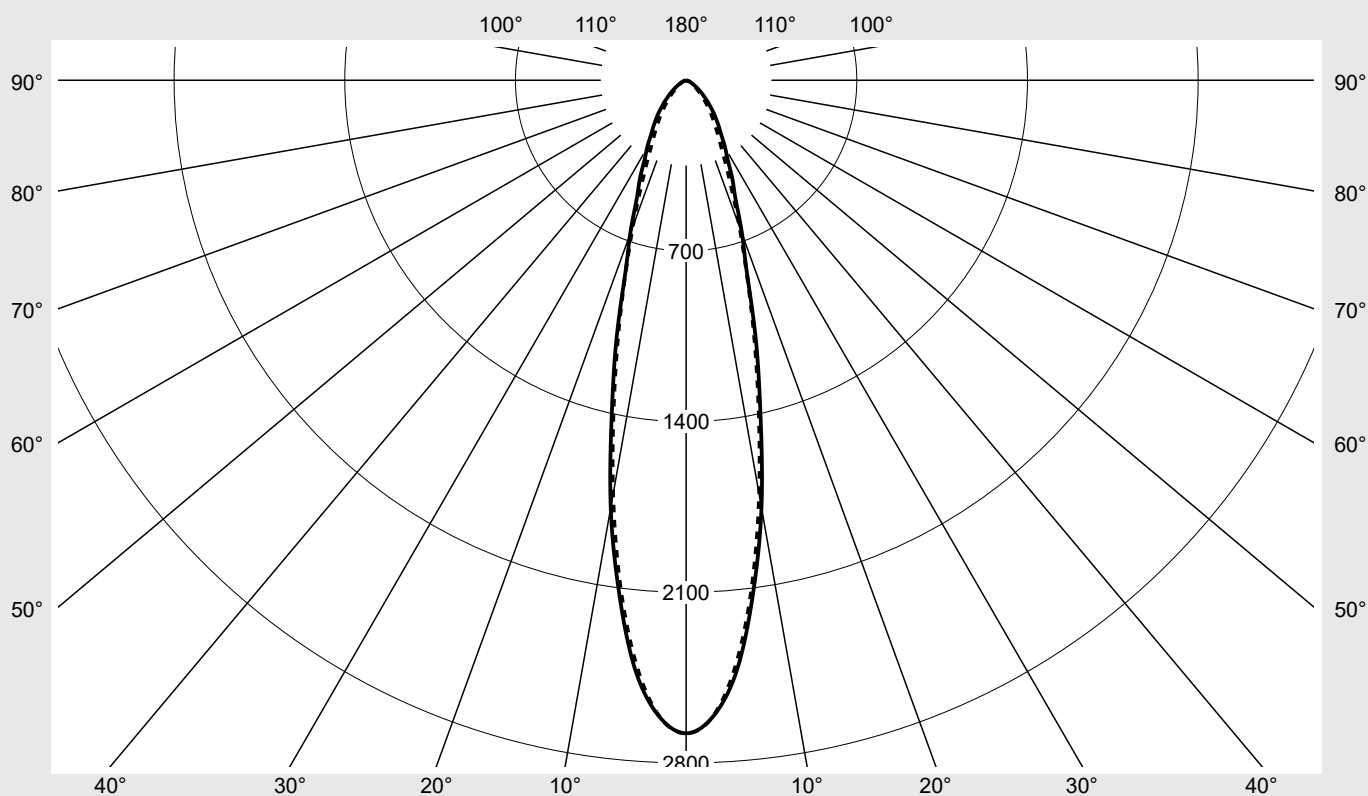


Luminous intensity in cd/klm

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

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C- planes	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Phi-zone	Total Phi-zone
γ	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	
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	18.2	19.4	18.6	19.7	20.0	17.0	18.2	17.4	18.5	18.8
	3H	18.5	19.5	18.8	19.8	20.2	17.3	18.4	17.7	18.7	19.0
	4H	18.5	19.5	18.9	19.8	20.2	17.5	18.4	17.9	18.8	19.1
	6H	18.6	19.4	19.0	19.8	20.2	17.6	18.4	18.0	18.8	19.2
	8H	18.6	19.4	19.1	19.7	20.1	17.7	18.4	18.1	18.8	19.2
	12H	18.6	19.3	19.0	19.7	20.1	17.7	18.4	18.2	18.8	19.2
4H	2H	18.3	19.2	18.7	19.6	20.0	17.2	18.2	17.6	18.5	18.9
	3H	18.6	19.4	19.0	19.8	20.2	17.6	18.4	18.1	18.8	19.2
	4H	18.7	19.4	19.2	19.8	20.3	17.8	18.5	18.3	18.9	19.4
	6H	18.8	19.4	19.3	19.8	20.3	18.0	18.6	18.5	19.0	19.5
	8H	18.8	19.3	19.3	19.7	20.2	18.1	18.6	18.6	19.1	19.5
	12H	18.8	19.2	19.3	19.7	20.2	18.2	18.6	18.6	19.1	19.6
8H	4H	18.7	19.2	19.2	19.7	20.2	17.8	18.4	18.3	18.8	19.3
	6H	18.8	19.2	19.3	19.7	20.2	18.1	18.5	18.6	19.0	19.5
	8H	18.8	19.1	19.3	19.6	20.2	18.2	18.5	18.7	19.0	19.6
	12H	18.7	19.0	19.3	19.5	20.1	18.2	18.5	18.8	19.1	19.6
12H	4H	18.7	19.1	19.2	19.6	20.1	17.8	18.3	18.3	18.7	19.2
	6H	18.8	19.1	19.3	19.6	20.1	18.1	18.4	18.6	18.9	19.4
	8H	18.7	19.0	19.3	19.6	20.1	18.2	18.5	18.7	19.0	19.5

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 852 B = 264	
C-planes	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
γ	Luminance in cd/m²						
45,0°	19565.8	18912.6	18060.6	16931.0	15840.8	14804.5	14473.1
50,0°	14667.9	14157.2	13557.6	12752.6	11796.4	10875.2	10567.4
55,0°	10643.1	10354.9	9996.1	9476.9	8746.9	7984.0	7663.1
60,0°	7302.3	7310.2	7446.2	7114.1	6691.1	6036.9	5735.5
65,0°	5606.6	5512.0	5637.0	5545.8	5428.6	4878.5	4611.4
70,0°	4343.8	4291.4	4610.3	4353.7	4518.1	4159.5	3975.2
75,0°	3808.0	3573.7	3581.8	3533.4	3645.5	3801.2	3794.4
80,0°	2778.1	2675.0	2587.7	2634.5	2943.8	3574.9	3647.6
85,0°	1028.1	1015.5	1062.1	1200.7	1843.3	2714.0	3075.6

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Luminance values in cd/m²

γ 65°

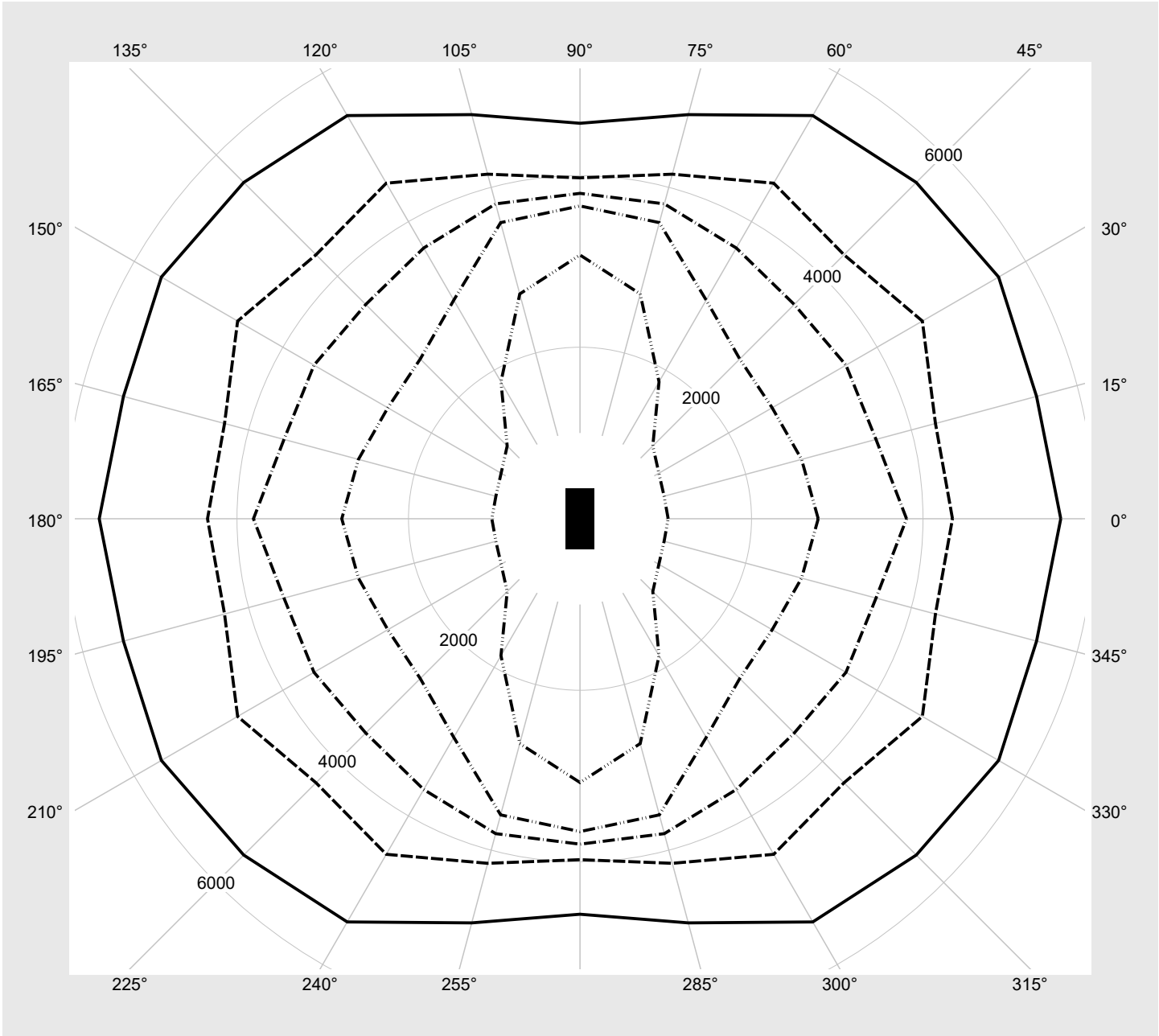
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table		environmental temperature: 25°C

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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	24700	125.3
95	241	252	23486	118.6
90	228	250	22263	112.1
85	215	248	21039	105.6
80	202	246	19804	99.1
75	189	243	18571	92.6
70	176	241	17331	86.1
65	163	238	16083	79.8
60	150	235	14835	73.4
55	137	231	13570	66.8
50	124	228	12307	60.6
45	112	224	11135	54.6
40	99	219	9854	48.4
35	87	215	8670	42.7
30	74	209	7376	36.5
25	62	202	6179	30.7
20	50	194	4978	25.0
15	37	183	3665	19.0
10	25	169	2452	13.3
5	13	145	1228	7.4
2	6	117	515	4.0