Photometric test report

Family
Highbay 11

Order number: 51HN11DA4KEA
EAN: 4069025420893

Version	primary light control with lens, PMMA, housing, white, narrow distribution
Lamps	LED 4000 K | CRI ≥ 80
Controlgear	ECG-DALI
Setting	DC mode (central or group accumulator) initial emergency light level
Rated values	Net luminous flux = 3650 lm Power consumption = 18.3 W Luminous efficacy = 199.5 lm/W

LP number
59711_185

serial documentation
14.02.2025

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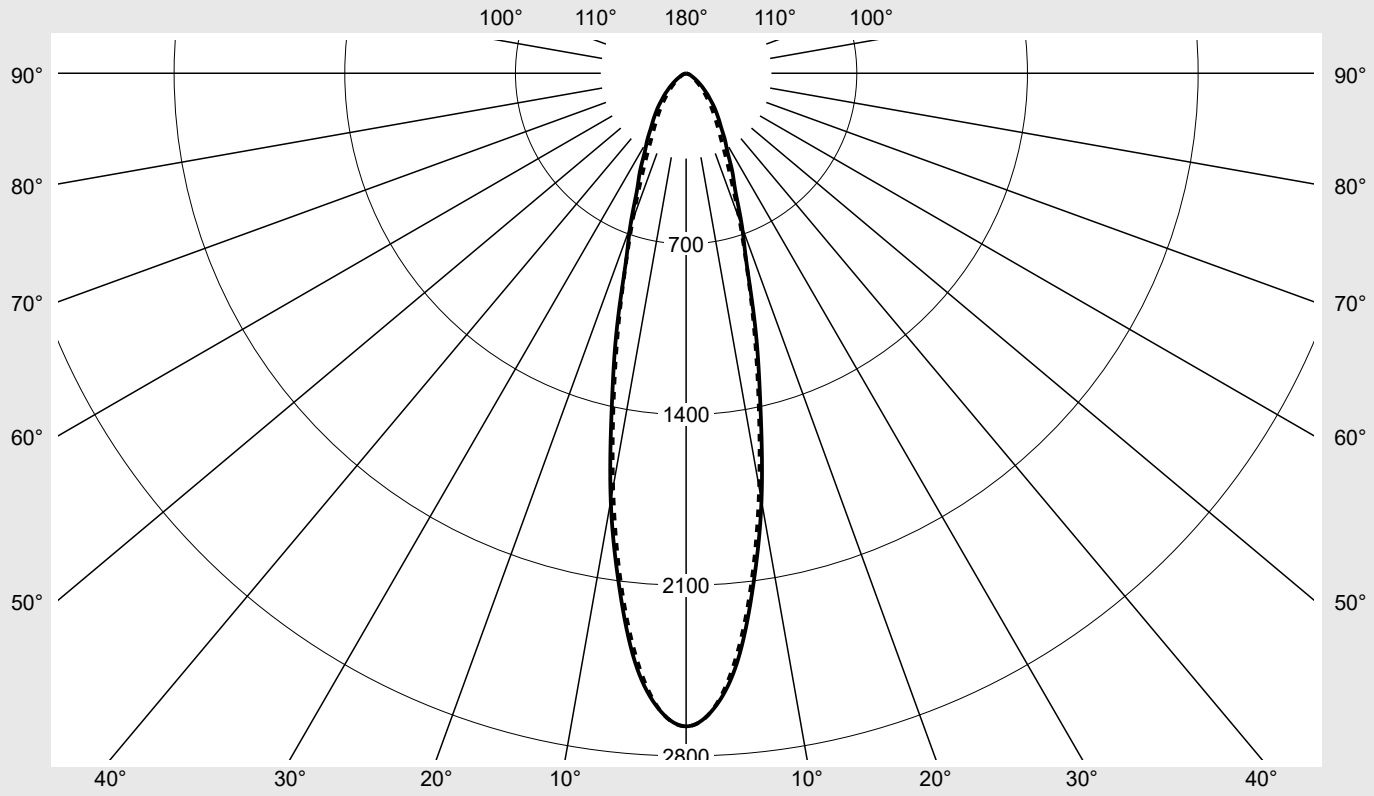
Luminous intensity in cd/klm

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

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

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 x	y	View crosswise (C0)					View endwise (C90)				
2H	2H	14.0	15.2	14.3	15.5	15.8	12.8	14.0	13.2	14.3	14.6
	3H	14.2	15.2	14.6	15.6	15.9	13.1	14.1	13.5	14.5	14.8
	4H	14.3	15.2	14.7	15.6	16.0	13.2	14.2	13.6	14.5	14.9
	6H	14.4	15.2	14.8	15.6	15.9	13.4	14.2	13.8	14.6	15.0
	8H	14.4	15.1	14.8	15.5	15.9	13.5	14.2	13.9	14.6	15.0
	12H	14.4	15.0	14.8	15.4	15.8	13.5	14.2	13.9	14.6	15.0
4H	2H	14.0	15.0	14.4	15.3	15.7	13.0	13.9	13.4	14.3	14.7
	3H	14.4	15.1	14.8	15.5	16.0	13.4	14.2	13.8	14.6	15.0
	4H	14.5	15.2	14.9	15.6	16.0	13.6	14.3	14.0	14.7	15.1
	6H	14.6	15.1	15.0	15.6	16.0	13.8	14.4	14.2	14.8	15.3
	8H	14.5	15.1	15.0	15.5	16.0	13.9	14.4	14.3	14.8	15.3
	12H	14.5	15.0	15.0	15.4	15.9	13.9	14.4	14.4	14.8	15.3
8H	4H	14.5	15.0	14.9	15.4	15.9	13.6	14.1	14.1	14.6	15.1
	6H	14.5	15.0	15.0	15.4	16.0	13.8	14.3	14.3	14.7	15.3
	8H	14.5	14.9	15.0	15.4	15.9	13.9	14.3	14.4	14.8	15.3
	12H	14.5	14.8	15.0	15.3	15.9	14.0	14.3	14.5	14.8	15.4
12H	4H	14.4	14.9	14.9	15.3	15.8	13.6	14.0	14.1	14.5	15.0
	6H	14.5	14.9	15.0	15.4	15.9	13.8	14.2	14.3	14.7	15.2
	8H	14.5	14.8	15.0	15.3	15.9	13.9	14.2	14.4	14.7	15.3

Luminance table

Max. for $\gamma >= 65°$

Photometric dimensions in mm: L = 426, 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°	5782.6	5589.6	5337.8	5003.9	4681.7	4375.4	4277.5
50,0°	4335.0	4184.1	4006.9	3769.0	3486.4	3214.1	3123.2
55,0°	3145.5	3060.4	2954.3	2800.9	2585.1	2359.6	2264.8
60,0°	2158.2	2160.5	2200.7	2102.6	1977.5	1784.2	1695.1
65,0°	1657.0	1629.0	1666.0	1639.0	1604.4	1441.8	1362.9
70,0°	1283.8	1268.3	1362.5	1286.7	1335.3	1229.3	1174.9
75,0°	1125.4	1056.2	1058.6	1044.3	1077.4	1123.4	1121.4
80,0°	821.1	790.6	764.8	778.6	870.0	1056.5	1078.0
85,0°	303.9	300.1	313.9	354.9	544.8	802.1	909.0

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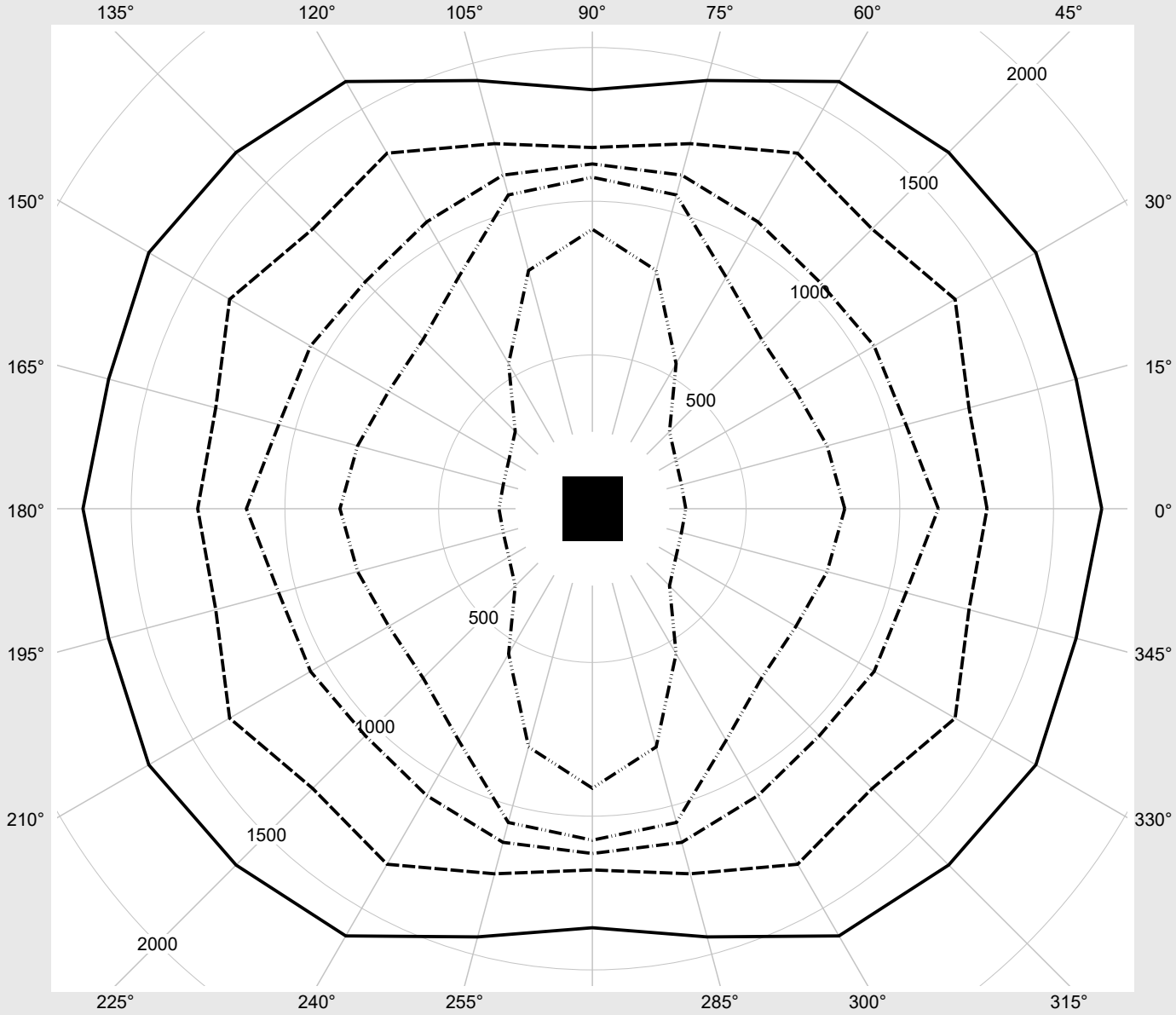
Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85°