

Photometric test report

Family
Highbay 11

Order number: 51HN11DBDLDA
EAN: 4069025444936

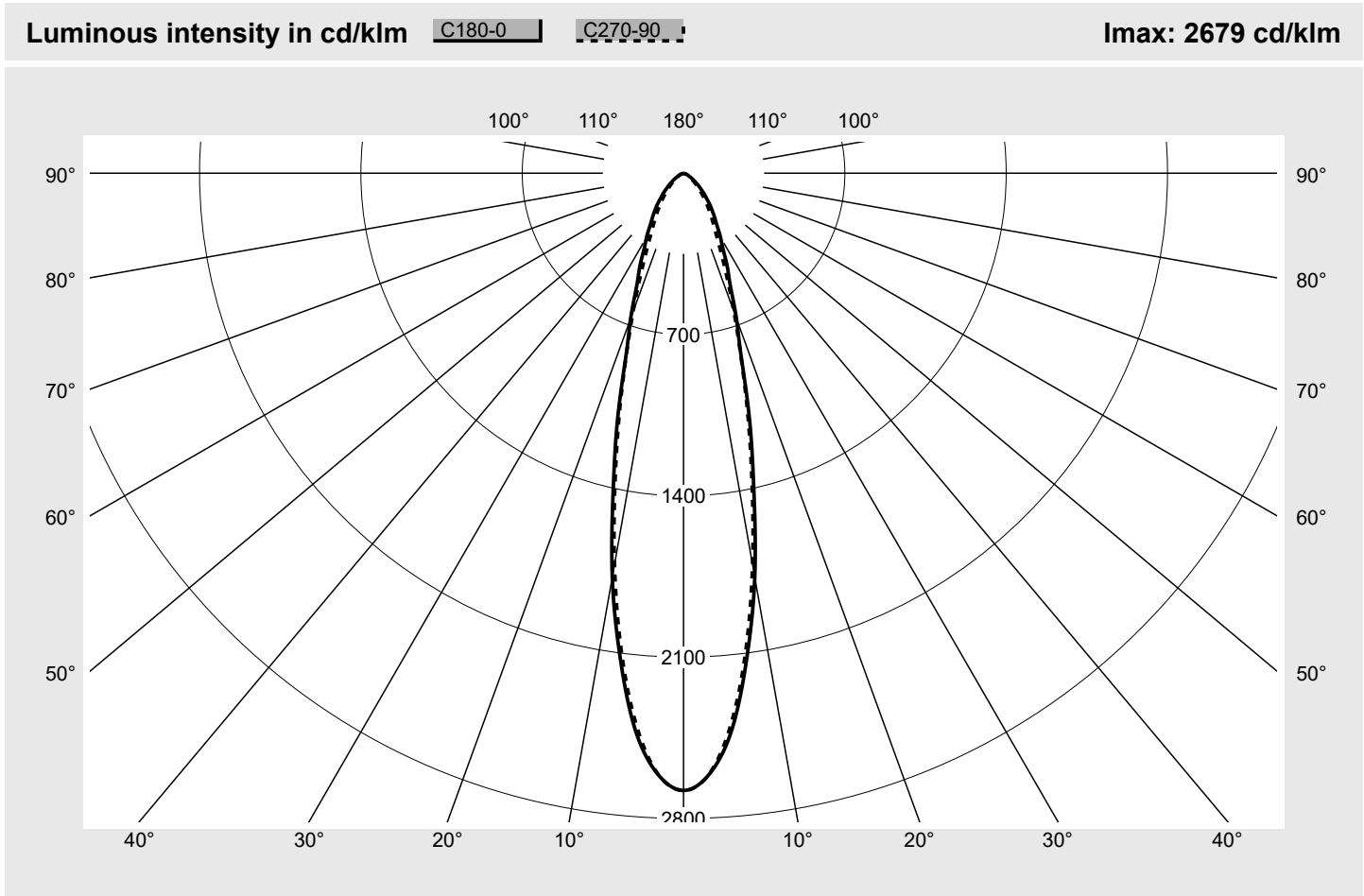
LP number
59711_454



Versionprimary light control with lens, PMMA, housing, white, narrow distribution
LampsLED 4000 K | CRI ≥ 90
ControlgearECG-DALI
SettingAC-mode
Rated valuesNet luminous flux = 26600 lm
Power consumption = 146.4 W
Luminous efficacy = 181.7 lm/W

serial
documentation
26.05.2025

sITeco



Classifications		Luminaire light output ratios	
DIN 5040	A 7 0	η_{LB}	100.0%
CIE	N1=85 N2=97 N3=100	ϕ_u	100.0%
	N4=100 N5=100	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	18.5	19.7	18.8	20.0	20.3	17.3	18.5	17.6	18.8
	3H	18.7	19.7	19.1	20.1	20.4	17.6	18.6	18.0	18.9
	4H	18.8	19.7	19.2	20.1	20.5	17.7	18.7	18.1	19.0
	6H	18.8	19.7	19.3	20.0	20.4	17.9	18.7	18.3	19.1
	8H	18.9	19.6	19.3	20.0	20.4	18.0	18.7	18.4	19.1
	12H	18.9	19.5	19.3	19.9	20.3	18.0	18.7	18.4	19.0
4H	2H	18.5	19.5	18.9	19.8	20.2	17.5	18.4	17.9	18.8
	3H	18.9	19.6	19.3	20.0	20.4	17.9	18.7	18.3	19.1
	4H	19.0	19.7	19.4	20.1	20.5	18.1	18.8	18.5	19.2
	6H	19.0	19.6	19.5	20.1	20.5	18.3	18.9	18.7	19.3
	8H	19.0	19.5	19.5	20.0	20.5	18.4	18.9	18.8	19.3
	12H	19.0	19.4	19.5	19.9	20.4	18.4	18.8	18.9	19.3
8H	4H	19.0	19.5	19.4	19.9	20.4	18.1	18.6	18.6	19.1
	6H	19.0	19.5	19.5	19.9	20.5	18.3	18.8	18.8	19.2
	8H	19.0	19.4	19.5	19.9	20.4	18.4	18.8	18.9	19.3
	12H	19.0	19.3	19.5	19.8	20.3	18.5	18.8	19.0	19.3
12H	4H	18.9	19.4	19.4	19.8	20.3	18.1	18.5	18.6	19.0
	6H	19.0	19.4	19.5	19.9	20.4	18.3	18.7	18.8	19.2
	8H	19.0	19.3	19.5	19.8	20.4	18.4	18.7	18.9	19.2

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°	21070.9	20367.4	19449.9	18233.4	17059.3	15943.3	15586.4
50,0°	15796.2	15246.2	14600.5	13733.6	12703.8	11711.8	11380.3
55,0°	11461.8	11151.5	10765.1	10205.9	9419.8	8598.1	8252.6
60,0°	7864.1	7872.6	8019.0	7661.4	7205.8	6501.2	6176.7
65,0°	6037.8	5936.0	6070.6	5972.4	5846.1	5253.8	4966.1
70,0°	4677.9	4621.6	4964.9	4688.6	4865.7	4479.4	4281.0
75,0°	4100.9	3848.7	3857.3	3805.2	3925.9	4093.6	4086.3
80,0°	2991.8	2880.8	2786.8	2837.2	3170.2	3849.9	3928.2
85,0°	1107.2	1093.6	1143.9	1293.1	1985.1	2922.7	3312.1

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Luminance values in cd/m²

γ 65°

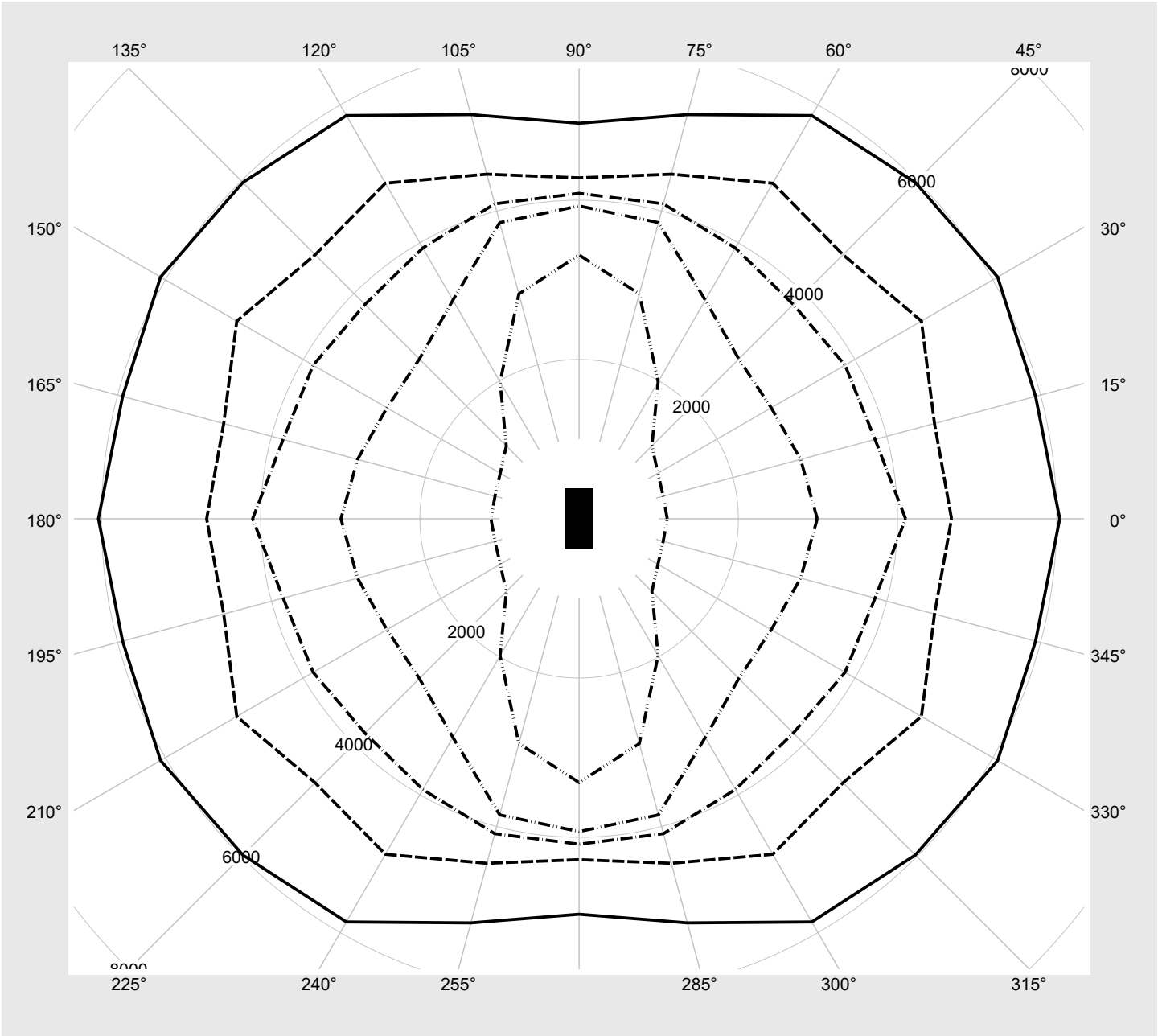
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table		environmental temperature: 25°C



Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	26600	146.4
95	240	252	25234	137.9
90	227	250	23955	129.9
85	213	248	22568	121.5
80	200	245	21264	113.7
75	187	243	19956	106.1
70	174	240	18638	98.5
65	161	237	17312	91.0
60	148	234	15977	83.4
55	135	231	14635	75.9
50	122	227	13272	68.3
45	110	223	12012	61.7
40	97	219	10633	54.2
35	85	214	9349	47.5
30	72	208	7949	40.3
25	60	201	6643	33.8
20	48	193	5332	27.3
15	36	182	4006	20.8
10	24	168	2676	14.3
5	12	142	1330	7.6
2	5	110	542	3.9