Photometric test report

Family
Highbay 11

Order number: 51HN11DB4LDA
EAN: 4069025230461

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 = 26000 lm Power consumption = 125.4 W Luminous efficacy = 207.3 lm/W

LP number
59711_152

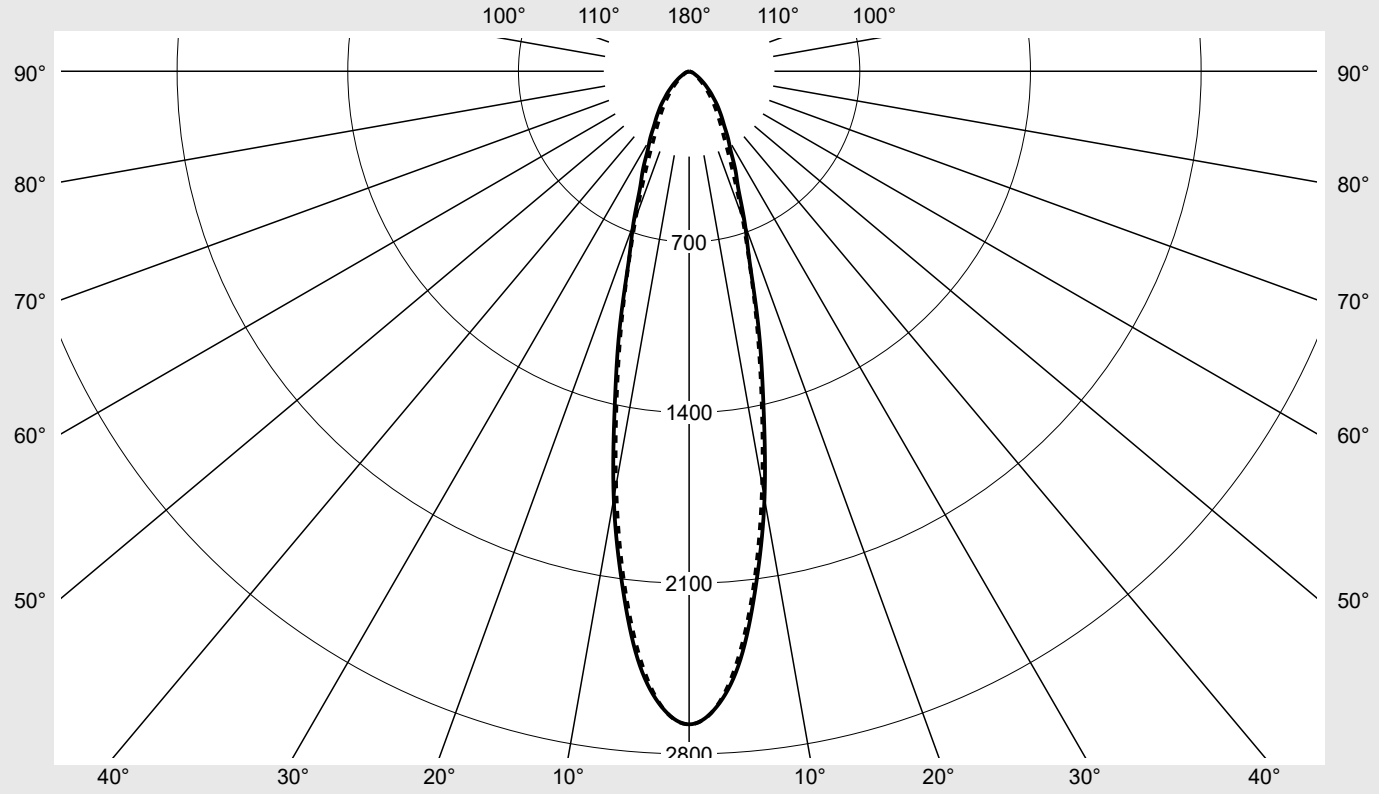
serial documentation
14.02.2025

siteco

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

ηLB	100.0%
ϕ_u	100.0%
ϕ_o	0.0%

Measurement conditions

DIN EN 13032 and DIN 5032

Photometric test report

Family	Order number: 51HN11DB4LDA	LP number
Highbay 11	EAN: 4069025230461	59711_152

siteco

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

Photometric test report

Family	Order number: 51HN11DB4LDA	LP number
Highbay 11	EAN: 4069025230461	59711_152

siteco

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	18.4	19.6	18.8	19.9	20.2	17.2	18.4	17.6	18.7	19.0
	3H	18.6	19.7	19.0	20.0	20.4	17.5	18.5	17.9	18.9	19.2
	4H	18.7	19.7	19.1	20.0	20.4	17.6	18.6	18.0	18.9	19.3
	6H	18.8	19.6	19.2	20.0	20.4	17.8	18.6	18.2	19.0	19.4
	8H	18.8	19.5	19.2	19.9	20.3	17.9	18.6	18.3	19.0	19.4
	12H	18.8	19.4	19.2	19.8	20.3	17.9	18.6	18.3	19.0	19.4
4H	2H	18.5	19.4	18.9	19.8	20.1	17.4	18.3	17.8	18.7	19.1
	3H	18.8	19.6	19.2	20.0	20.4	17.8	18.6	18.2	19.0	19.4
	4H	18.9	19.6	19.3	20.0	20.4	18.0	18.7	18.4	19.1	19.5
	6H	19.0	19.5	19.4	20.0	20.5	18.2	18.8	18.7	19.2	19.7
	8H	19.0	19.5	19.4	19.9	20.4	18.3	18.8	18.8	19.2	19.7
	12H	18.9	19.4	19.4	19.8	20.3	18.3	18.8	18.8	19.2	19.7
8H	4H	18.9	19.4	19.4	19.8	20.3	18.0	18.5	18.5	19.0	19.5
	6H	19.0	19.4	19.5	19.9	20.4	18.3	18.7	18.8	19.1	19.7
	8H	18.9	19.3	19.5	19.8	20.3	18.3	18.7	18.9	19.2	19.7
	12H	18.9	19.2	19.4	19.7	20.3	18.4	18.7	18.9	19.2	19.8
12H	4H	18.9	19.3	19.4	19.8	20.3	18.0	18.4	18.5	18.9	19.4
	6H	18.9	19.3	19.5	19.8	20.3	18.2	18.6	18.8	19.1	19.6
	8H	18.9	19.2	19.5	19.7	20.3	18.3	18.6	18.9	19.1	19.7

Luminance table

Max. for $\gamma >= 65°$

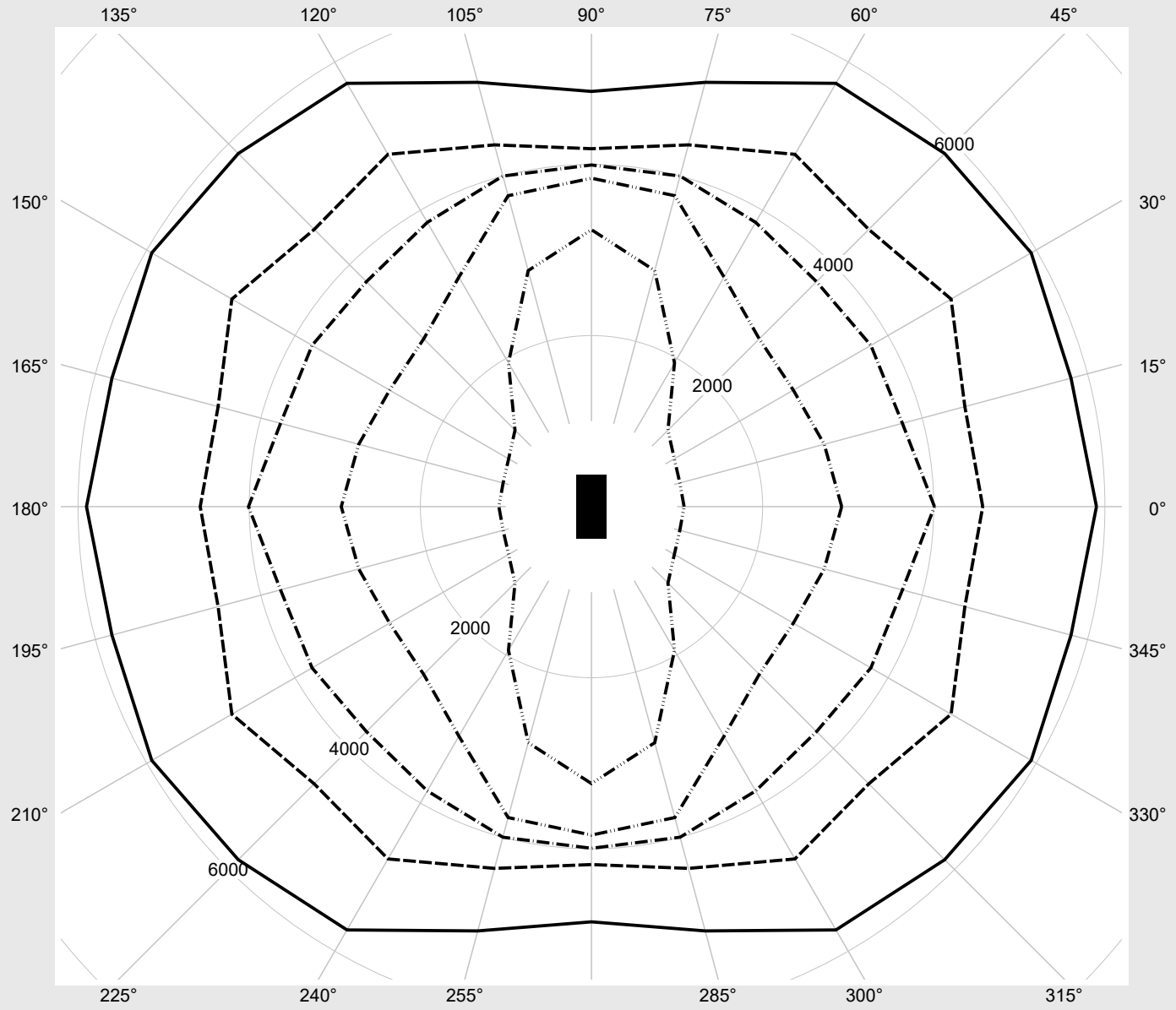
Photometric dimensions in mm: L = 852, B = 264

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°	20595.6	19908.0	19011.2	17822.1	16674.5	15583.7	15234.8
50,0°	15439.9	14902.3	14271.1	13423.8	12417.3	11447.6	11123.6
55,0°	11203.2	10899.9	10522.3	9975.7	9207.3	8404.2	8066.4
60,0°	7686.7	7695.0	7838.1	7488.5	7043.3	6354.6	6037.4
65,0°	5901.6	5802.1	5933.6	5837.6	5714.3	5135.2	4854.1
70,0°	4572.4	4517.3	4852.9	4582.9	4755.9	4378.4	4184.4
75,0°	4008.4	3761.8	3770.3	3719.4	3837.3	4001.2	3994.1
80,0°	2924.3	2815.8	2723.9	2773.2	3098.7	3763.0	3839.6
85,0°	1082.2	1069.0	1118.1	1263.9	1940.3	2856.8	3237.4

Photometric test report

Family	Order number: 51HN11DB4LDA	LP number
Highbay 11	EAN: 4069025230461	59711_152

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



Photometric test report

Family	Order number: 51HN11DB4LDA	LP number
Highbay 11	EAN: 4069025230461	59711_152

siteco

Dimming levels table

environmental temperature: 25°C

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	26000	125.4
95	241	252	24724	118.7
90	228	250	23439	112.2
85	214	248	22054	105.2
80	201	245	20755	98.6
75	188	243	19459	92.2
70	175	240	18155	85.7
65	163	238	16943	79.9
60	150	235	15629	73.4
55	137	231	14297	66.9
50	124	228	12968	60.7
45	112	224	11732	54.7
40	99	219	10381	48.4
35	87	215	9132	42.7
30	74	209	7766	36.5
25	62	202	6501	30.8
20	50	194	5232	25.1
15	38	184	3949	19.5
10	25	169	2558	13.3
5	13	145	1260	7.4
2	6	117	502	4.0