

Photometric test report

Family
Highbay 11

Order number: 51HN11DB5QDA
EAN: 4069025424389

LP number
59711_417

serial
documentation
10.04.2025

siteco



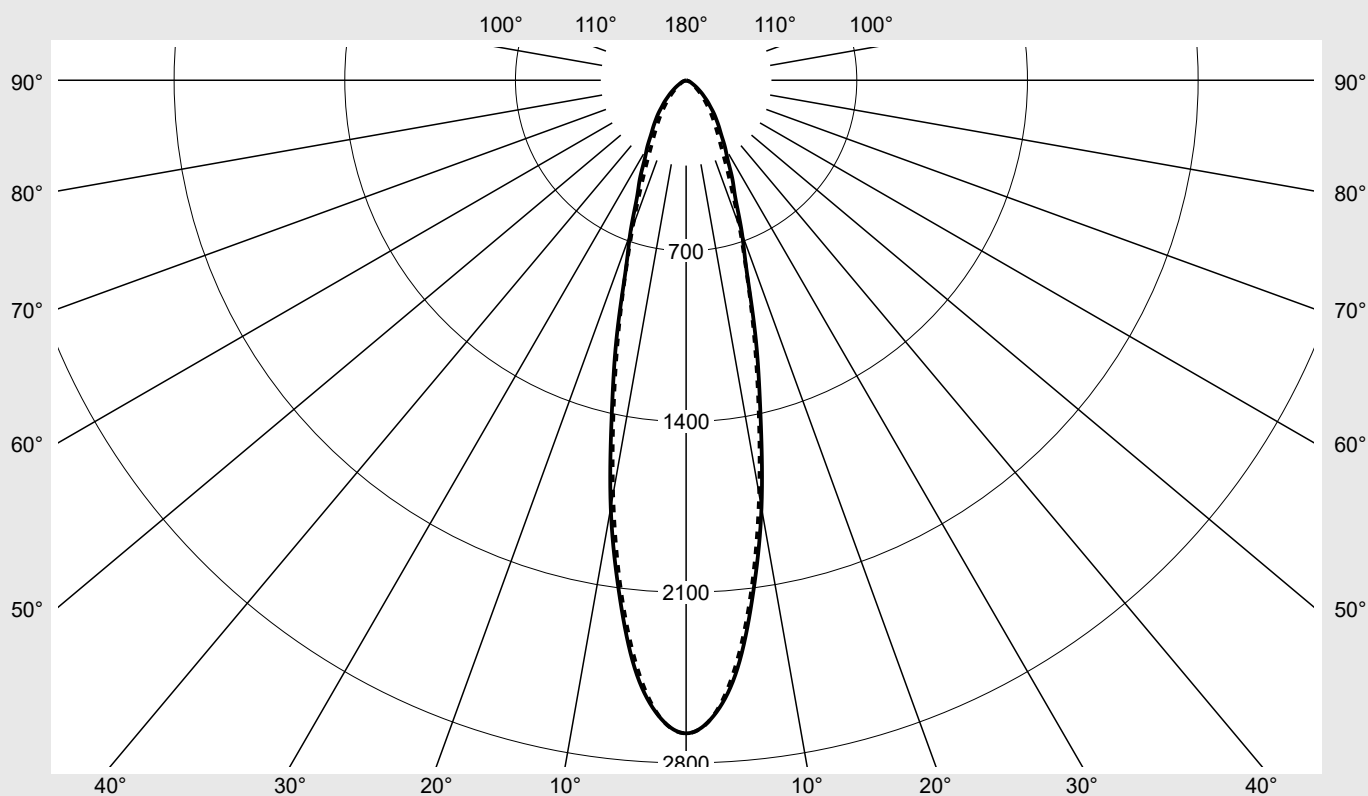
Version primary light control with lens, PMMA, housing, white, narrow distribution
Lamps LED 5000 K | CRI ≥ 80
Controlgear ECG-DALI
Setting AC-mode
Rated values Net luminous flux = 35850 lm
Power consumption = 177.7 W
Luminous efficacy = 201.7 lm/W

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	19.5	20.7	19.9	21.0	21.3	18.3	19.5	18.7	19.8	20.1
	3H	19.8	20.8	20.1	21.1	21.5	18.6	19.6	19.0	20.0	20.3
	4H	19.8	20.8	20.2	21.1	21.5	18.8	19.7	19.1	20.1	20.4
	6H	19.9	20.7	20.3	21.1	21.5	18.9	19.7	19.3	20.1	20.5
	8H	19.9	20.6	20.4	21.0	21.4	19.0	19.7	19.4	20.1	20.5
	12H	19.9	20.6	20.3	20.9	21.4	19.0	19.7	19.4	20.1	20.5
4H	2H	19.6	20.5	20.0	20.9	21.2	18.5	19.5	18.9	19.8	20.2
	3H	19.9	20.7	20.3	21.1	21.5	18.9	19.7	19.4	20.1	20.5
	4H	20.0	20.7	20.5	21.1	21.6	19.1	19.8	19.6	20.2	20.7
	6H	20.1	20.7	20.5	21.1	21.6	19.3	19.9	19.8	20.3	20.8
	8H	20.1	20.6	20.6	21.0	21.5	19.4	19.9	19.9	20.4	20.8
	12H	20.1	20.5	20.6	21.0	21.5	19.4	19.9	19.9	20.3	20.8
8H	4H	20.0	20.5	20.5	21.0	21.4	19.1	19.6	19.6	20.1	20.6
	6H	20.1	20.5	20.6	21.0	21.5	19.4	19.8	19.9	20.3	20.8
	8H	20.1	20.4	20.6	20.9	21.5	19.5	19.8	20.0	20.3	20.9
	12H	20.0	20.3	20.6	20.8	21.4	19.5	19.8	20.1	20.3	20.9
12H	4H	20.0	20.4	20.5	20.9	21.4	19.1	19.5	19.6	20.0	20.5
	6H	20.1	20.4	20.6	20.9	21.4	19.4	19.7	19.9	20.2	20.7
	8H	20.0	20.3	20.6	20.8	21.4	19.5	19.8	20.0	20.3	20.8

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 852 B = 264
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C-planes	γ	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
			Luminance in cd/m²					
45,0°		28398.1	27450.1	26213.5	24573.9	22991.6	21487.5	21006.5
50,0°		21289.2	20548.0	19677.7	18509.3	17121.5	15784.5	15337.7
55,0°		15447.5	15029.3	14508.6	13755.0	12695.4	11588.1	11122.3
60,0°		10598.7	10610.2	10807.5	10325.6	9711.6	8762.0	8324.6
65,0°		8137.5	8000.2	8181.6	8049.2	7879.1	7080.7	6693.0
70,0°		6304.6	6228.7	6691.4	6319.1	6557.7	6037.1	5769.7
75,0°		5526.9	5187.0	5198.7	5128.5	5291.1	5517.1	5507.2
80,0°		4032.1	3882.5	3755.9	3823.8	4272.6	5188.7	5294.2
85,0°		1492.2	1474.0	1541.6	1742.8	2675.4	3939.1	4463.9

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Luminance values in cd/m²

γ 65°

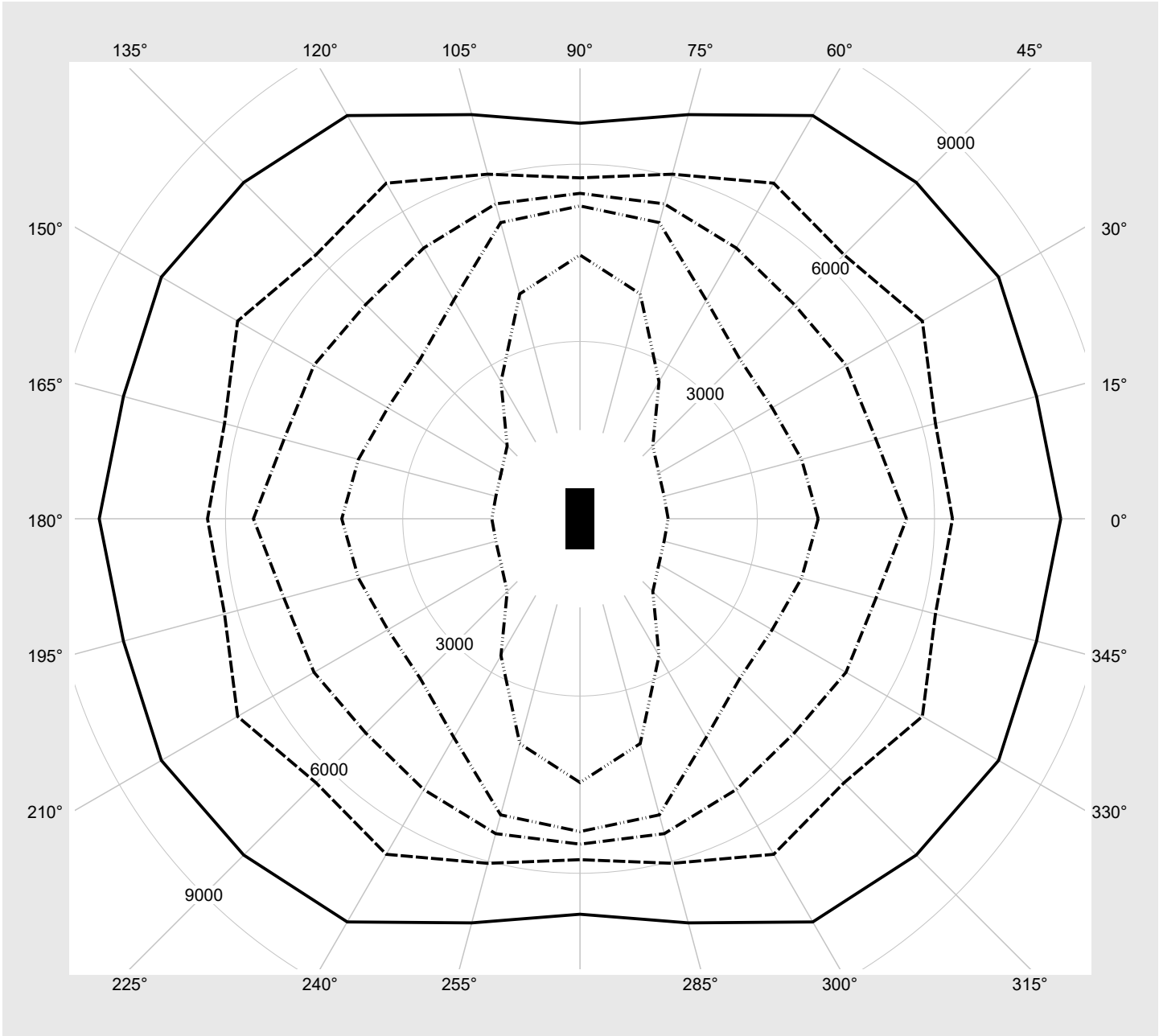
γ 70°

γ 75°

γ 80°

γ 85°

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Family Highbay 11	Order number: 51HN11DB5QDA EAN: 4069025424389	LP number 59711_417
Dimming levels table environmental temperature: 25°C		sit eco

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	35850	177.7
95	241	252	34114	168.3
90	227	250	32233	158.2
85	214	248	30480	149.0
80	201	245	28708	139.6
75	188	243	26932	130.5
70	175	240	25145	121.2
65	162	238	23352	112.2
60	149	234	21544	103.1
55	136	231	19731	94.1
50	123	227	17899	85.1
45	111	224	16192	76.9
40	98	219	14334	68.0
35	86	214	12609	59.9
30	73	208	10728	51.0
25	61	202	8970	43.0
20	49	194	7205	35.1
15	37	183	5426	27.2
10	25	169	3634	19.3
5	13	145	1824	11.1
1	4	102	461	4.8