

Photometric test report

Family
Highbay 21

Order number: 52HN12DA6LLA
EAN: 4069025445513

LP number
59723_234



Version primary light control with lens, PMMA, housing, white, wide distribution

Lamps LED 6500 K | CRI ≥ 80

Controlgear ECG-DALI

Setting AC-mode

Rated values Net luminous flux = 25700 lm
Power consumption = 142.6 W
Luminous efficacy = 180.2 lm/W

serial
documentation
24.04.2025

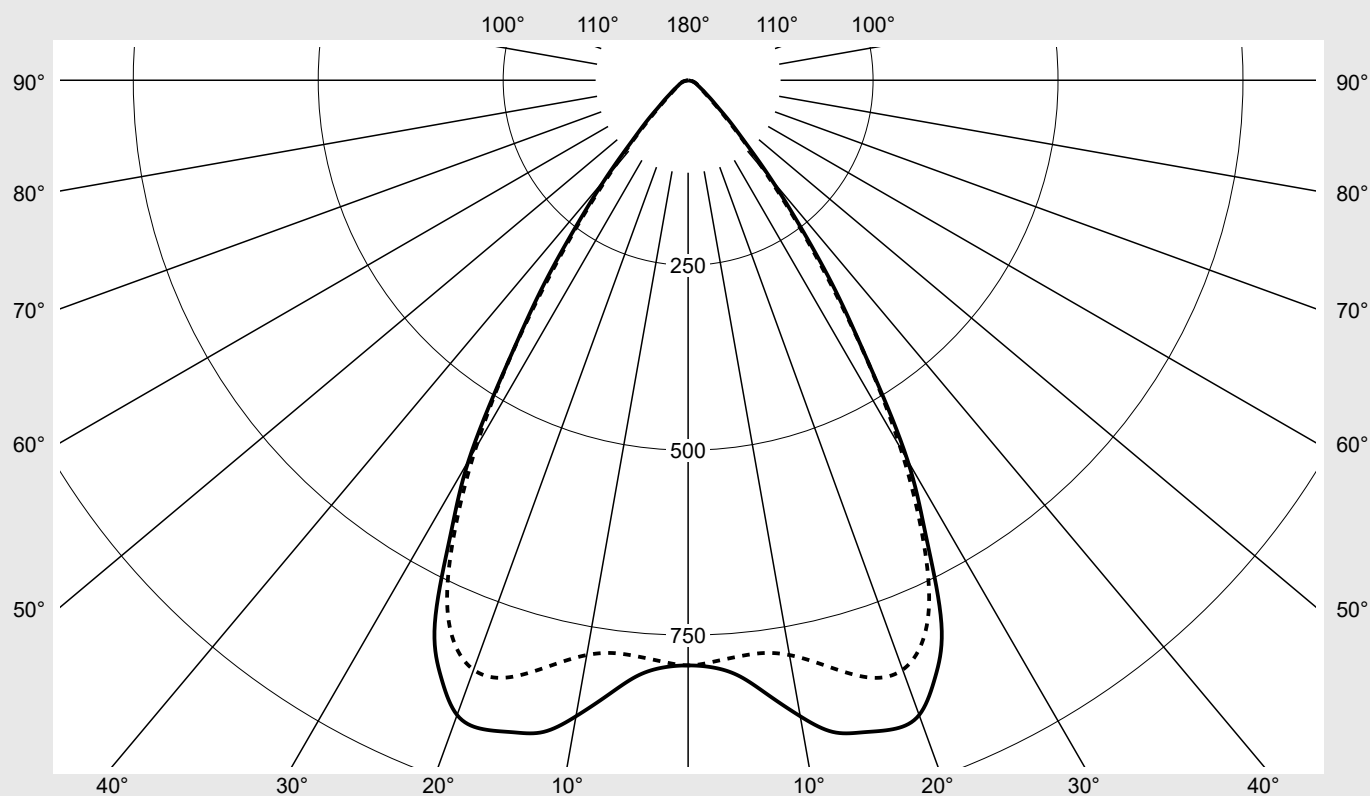
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 920 cd/klm



Classifications

DIN 5040 A 7 0
CIE N1=90 N2=98 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

sitEco

C- planes	0,0° 180,0°	7,5° 172,5° 187,5° 352,5°	15,0° 165,0° 195,0° 345,0°	22,5° 157,5° 202,5° 337,5°	30,0° 150,0° 210,0° 330,0°	37,5° 142,5° 217,5° 322,5°	45,0° 135,0° 225,0° 315,0°
γ	Luminous intensity in cd/klm						
0,0°	791.0	791.0	791.0	791.0	791.0	791.0	791.0
2,5°	794.7	794.4	795.0	795.0	794.2	792.8	792.0
5,0°	809.1	811.4	809.6	807.9	804.8	800.8	797.1
7,5°	839.0	837.9	835.9	831.3	824.9	817.3	810.1
10,0°	873.0	873.9	866.7	857.6	846.5	834.6	825.0
12,5°	902.2	899.8	892.6	881.8	868.2	853.9	842.5
15,0°	912.4	911.0	905.2	895.6	883.1	869.5	858.7
17,5°	919.8	918.2	913.1	904.4	892.7	879.7	870.3
20,0°	913.1	910.4	906.8	900.7	891.6	880.0	870.9
22,5°	873.0	875.7	872.3	868.8	863.2	854.7	847.2
25,0°	810.1	803.4	805.6	804.0	800.6	794.9	789.9
27,5°	697.5	704.9	702.5	701.8	699.9	697.0	693.3
30,0°	593.2	587.4	585.8	584.9	582.5	580.2	578.9
32,5°	456.1	464.3	462.1	462.0	458.3	454.5	453.6
35,0°	347.7	343.4	342.9	343.5	340.5	335.4	333.2
37,5°	248.6	249.1	246.7	247.3	245.8	241.7	237.9
40,0°	174.7	169.8	171.0	172.0	172.0	169.5	166.1
42,5°	115.9	118.7	117.3	118.1	118.9	118.2	116.5
45,0°	82.2	79.8	80.4	81.1	81.3	81.6	80.9
47,5°	56.5	57.6	57.2	57.7	57.6	57.9	57.5
50,0°	42.4	41.3	41.7	42.1	42.1	42.1	42.0
52,5°	32.0	31.8	31.7	32.2	32.5	32.7	32.7
55,0°	25.6	24.9	25.0	25.6	26.1	26.6	26.9
57,5°	20.6	20.3	20.3	20.8	21.4	22.1	22.4
60,0°	17.2	16.8	16.6	17.2	18.2	18.6	18.9
62,5°	14.5	14.3	13.9	14.3	15.3	15.8	16.0
65,0°	13.1	12.5	12.0	12.2	13.0	13.5	13.7
67,5°	11.1	10.9	10.3	10.4	11.4	11.4	11.5
70,0°	9.4	9.0	8.7	8.7	9.6	9.3	9.5
72,5°	7.6	7.5	7.3	7.2	7.3	7.4	7.8
75,0°	5.9	5.7	5.6	5.7	5.6	5.7	6.1
77,5°	4.1	4.1	4.1	4.2	4.1	4.2	4.5
80,0°	2.6	2.5	2.5	2.7	2.7	2.8	2.9
82,5°	1.1	1.2	1.2	1.3	1.5	1.5	1.7
85,0°	0.5	0.5	0.5	0.5	0.5	0.5	0.6
87,5°	0.2	0.3	0.3	0.3	0.3	0.3	0.3

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Table of values for luminous intensities		Maximum luminous intensity
		siteco

C- planes	52,5° 127,5° 232,5° 307,5°	60,0° 120,0° 240,0° 300,0°	67,5° 112,5° 247,5° 292,5°	75,0° 105,0° 255,0° 285,0°	82,5° 97,5° 262,5° 277,5°	90,0° 270,0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm						Luminous flux in lm/klm	
0,0°	791.0	791.0	791.0	791.0	791.0	791.0	1.2	1.2
2,5°	791.3	790.7	790.0	789.4	788.0	786.7	9.5	10.7
5,0°	794.2	790.9	788.1	786.0	783.2	781.9	19.1	29.7
7,5°	803.7	797.3	791.2	786.8	782.5	780.9	29.0	58.7
10,0°	816.7	808.7	801.4	796.1	791.2	788.9	39.5	98.2
12,5°	833.0	825.3	818.6	813.6	808.7	806.6	50.4	148.6
15,0°	850.7	844.9	836.9	832.9	831.6	829.0	61.4	210.0
17,5°	864.2	859.8	856.6	853.6	849.6	847.0	72.4	282.5
20,0°	864.8	860.1	856.9	853.9	850.4	848.0	82.3	364.7
22,5°	841.4	836.7	833.2	829.7	826.8	824.5	89.2	453.9
25,0°	786.0	782.5	779.1	775.6	772.9	771.0	91.6	545.4
27,5°	691.2	689.6	687.4	684.8	682.7	681.4	87.8	633.3
30,0°	578.6	579.1	578.3	576.4	575.3	574.3	79.6	712.9
32,5°	454.5	456.7	457.0	455.4	454.6	454.3	67.4	780.2
35,0°	335.0	337.7	338.0	336.6	336.0	336.2	53.3	833.5
37,5°	239.3	241.4	241.0	239.6	239.1	239.2	40.5	874.0
40,0°	166.2	166.4	164.7	163.3	162.9	163.0	29.6	903.6
42,5°	115.3	113.5	111.1	110.0	109.8	109.7	21.3	924.9
45,0°	79.0	76.9	75.1	74.3	74.0	73.9	15.2	940.1
47,5°	56.0	54.4	53.1	52.3	51.9	51.7	11.2	951.3
50,0°	40.9	39.8	38.8	38.0	37.5	37.4	8.5	959.8
52,5°	31.8	30.8	29.9	29.1	28.8	28.7	6.8	966.6
55,0°	25.9	25.0	24.2	23.4	23.2	23.3	5.6	972.3
57,5°	21.7	20.8	20.1	19.5	19.4	19.6	4.8	977.0
60,0°	18.6	18.0	17.1	16.6	16.8	17.1	4.2	981.2
62,5°	16.0	15.6	14.7	14.4	14.7	15.1	3.6	984.8
65,0°	14.0	13.6	12.8	12.7	13.1	13.5	3.2	988.1
67,5°	12.0	12.1	11.2	11.1	11.6	12.1	2.9	991.0
70,0°	9.8	10.4	9.7	9.7	10.2	10.6	2.5	993.4
72,5°	7.8	8.3	8.3	8.3	8.8	9.1	2.1	995.5
75,0°	6.2	6.3	6.8	6.9	7.3	7.6	1.6	997.1
77,5°	4.6	4.9	5.3	5.5	5.8	6.0	1.3	998.4
80,0°	3.1	3.4	3.7	4.0	4.2	4.4	0.9	999.2
82,5°	1.8	2.1	2.4	2.6	2.8	2.9	0.5	999.7
85,0°	0.7	1.0	1.2	1.3	1.6	1.6	0.2	1000.0
87,5°	0.3	0.3	0.3	0.3	0.4	0.4	0.1	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	20.2	21.5	20.6	21.8	22.1	20.0	21.3	20.4	21.6	21.9
	3H	20.3	21.3	20.6	21.7	22.0	20.1	21.2	20.5	21.5	21.9
	4H	20.3	21.3	20.7	21.6	22.0	20.2	21.2	20.6	21.5	21.9
	6H	20.3	21.1	20.7	21.5	21.9	20.2	21.1	20.6	21.5	21.9
	8H	20.4	21.1	20.8	21.5	21.9	20.4	21.1	20.8	21.5	21.9
	12H	20.3	21.0	20.8	21.4	21.8	20.3	21.0	20.8	21.4	21.8
4H	2H	20.1	21.1	20.5	21.5	21.9	20.0	21.0	20.4	21.3	21.7
	3H	20.2	21.0	20.6	21.4	21.8	20.1	20.9	20.5	21.3	21.7
	4H	20.2	21.0	20.7	21.4	21.8	20.2	20.9	20.6	21.3	21.8
	6H	20.2	20.9	20.7	21.3	21.8	20.3	20.9	20.7	21.3	21.8
	8H	20.2	20.8	20.7	21.2	21.7	20.3	20.9	20.8	21.3	21.8
	12H	20.2	20.7	20.7	21.1	21.6	20.4	20.8	20.9	21.3	21.8
8H	4H	20.2	20.7	20.7	21.2	21.7	20.1	20.7	20.6	21.1	21.6
	6H	20.2	20.6	20.7	21.1	21.6	20.3	20.7	20.8	21.2	21.7
	8H	20.2	20.6	20.7	21.0	21.6	20.3	20.7	20.8	21.2	21.7
	12H	20.2	20.4	20.7	21.0	21.5	20.3	20.6	20.9	21.1	21.7
12H	4H	20.2	20.6	20.7	21.1	21.6	20.2	20.6	20.7	21.1	21.6
	6H	20.2	20.5	20.7	21.0	21.6	20.3	20.6	20.8	21.1	21.6
	8H	20.2	20.5	20.7	21.0	21.5	20.3	20.6	20.8	21.1	21.6

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 426 B = 264				
C-planes	0,0° 180,0°	10,0° 170,0° 190,0° 350,0°	20,0° 160,0° 200,0° 340,0°	30,0° 150,0° 210,0° 330,0°	40,0° 140,0° 220,0° 320,0°	50,0° 130,0° 230,0° 310,0°	60,0° 120,0° 240,0° 300,0°	70,0° 110,0° 250,0° 290,0°	80,0° 100,0° 260,0° 280,0°	90,0° 270,0°
		Luminance in cd/m²								
γ										
45,0°	26574.2	25751.7	26138.7	26284.0	26338.2	25752.3	24837.4	24157.8	23933.8	23867.9
50,0°	15075.1	14659.7	14934.1	14968.4	14966.3	14682.5	14155.4	13684.9	13386.1	13281.2
55,0°	10206.4	9907.8	10128.2	10386.9	10665.9	10461.5	9943.9	9528.5	9268.8	9300.4
60,0°	7852.3	7625.9	7754.4	8301.6	8562.5	8548.4	8234.9	7730.5	7640.6	7800.7
65,0°	7065.6	6654.9	6512.1	7048.3	7372.3	7582.7	7369.5	6874.5	7000.9	7313.8
70,0°	6306.6	5956.2	5762.9	6383.4	6243.7	6478.0	6931.3	6450.2	6706.1	7108.3
75,0°	5186.3	5006.6	5029.6	4978.8	5131.8	5424.1	5590.7	6088.3	6324.1	6710.2
80,0°	3382.1	3273.9	3483.3	3613.7	3673.9	4016.1	4471.7	5057.2	5435.1	5754.8
85,0°	1321.5	1288.2	1309.8	1316.2	1439.2	1814.1	2556.4	3183.3	3903.5	4255.4

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Order number: 52HN12DA6LLA
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Luminance values in cd/m²

γ 65°

γ 70°

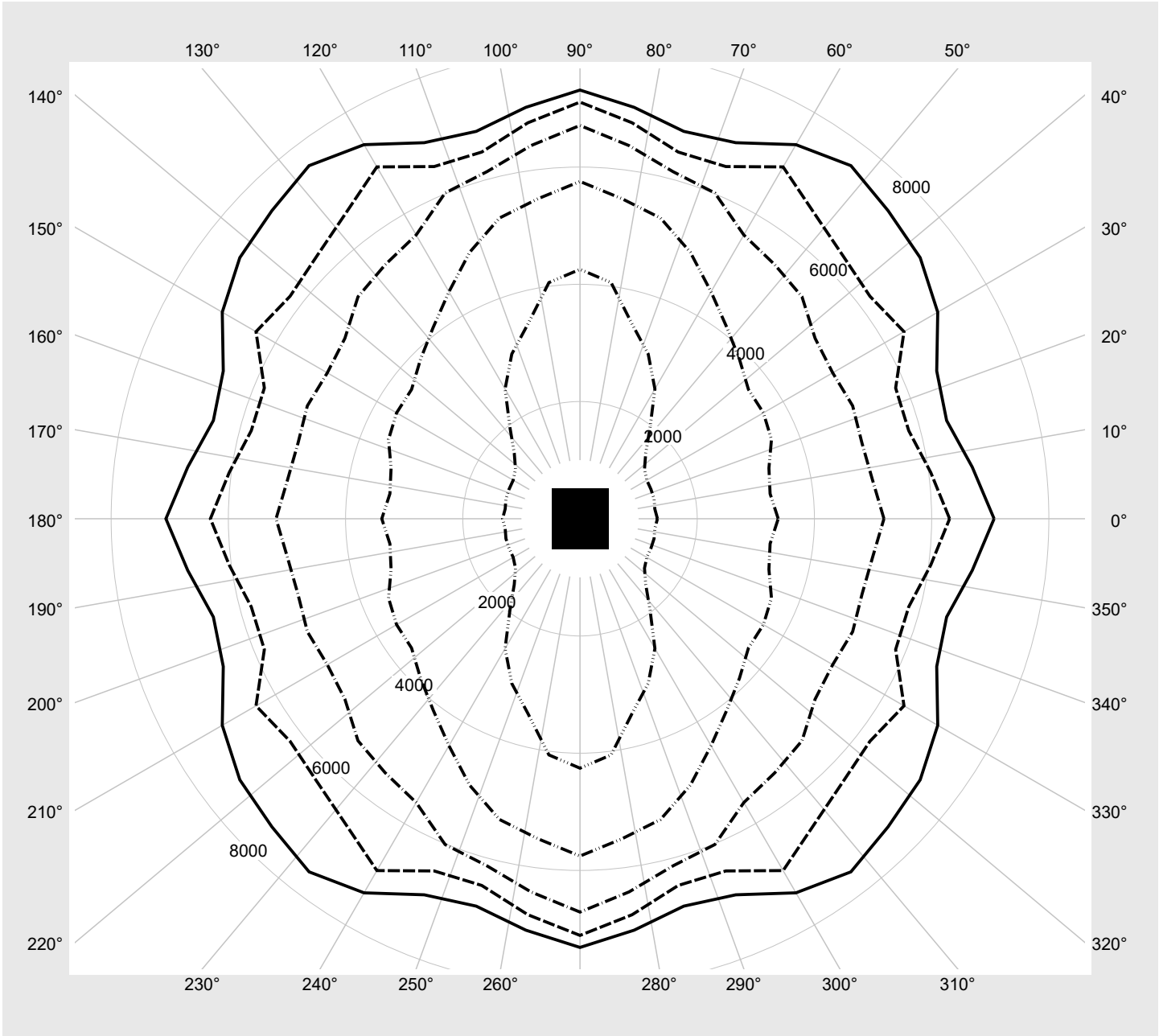
γ 75°

γ 80°

γ 85°

sit

eco



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Family Highbay 21	Order number: 52HN12DA6LLA EAN: 4069025445513	LP number 59723_234
Dimming levels table environmental temperature: 25°C		

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	25700	142.6
95	240	252	24382	134.6
90	227	250	23135	127.1
85	214	248	21887	119.7
80	200	245	20531	111.7
75	187	243	19262	104.4
70	174	240	17981	97.0
65	161	237	16694	89.7
60	148	234	15391	82.5
55	135	231	14084	75.2
50	123	227	12865	68.7
45	110	223	11536	61.5
40	98	219	10306	54.7
35	85	214	8959	47.6
30	73	208	7712	41.1
25	61	202	6453	34.6
20	49	194	5189	28.1
15	36	182	3809	21.2
10	24	168	2532	14.7
5	12	142	1246	7.9
2	5	110	491	4.1