

Photometric test report

Family
Highbay 21

Order number: 52HN12DB6LLA
EAN: 4069025445667

LP number
59723_256

serial
documentation
24.04.2025



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 = 27140 lm
Power consumption = 144.0 W
Luminous efficacy = 188.5 lm/W

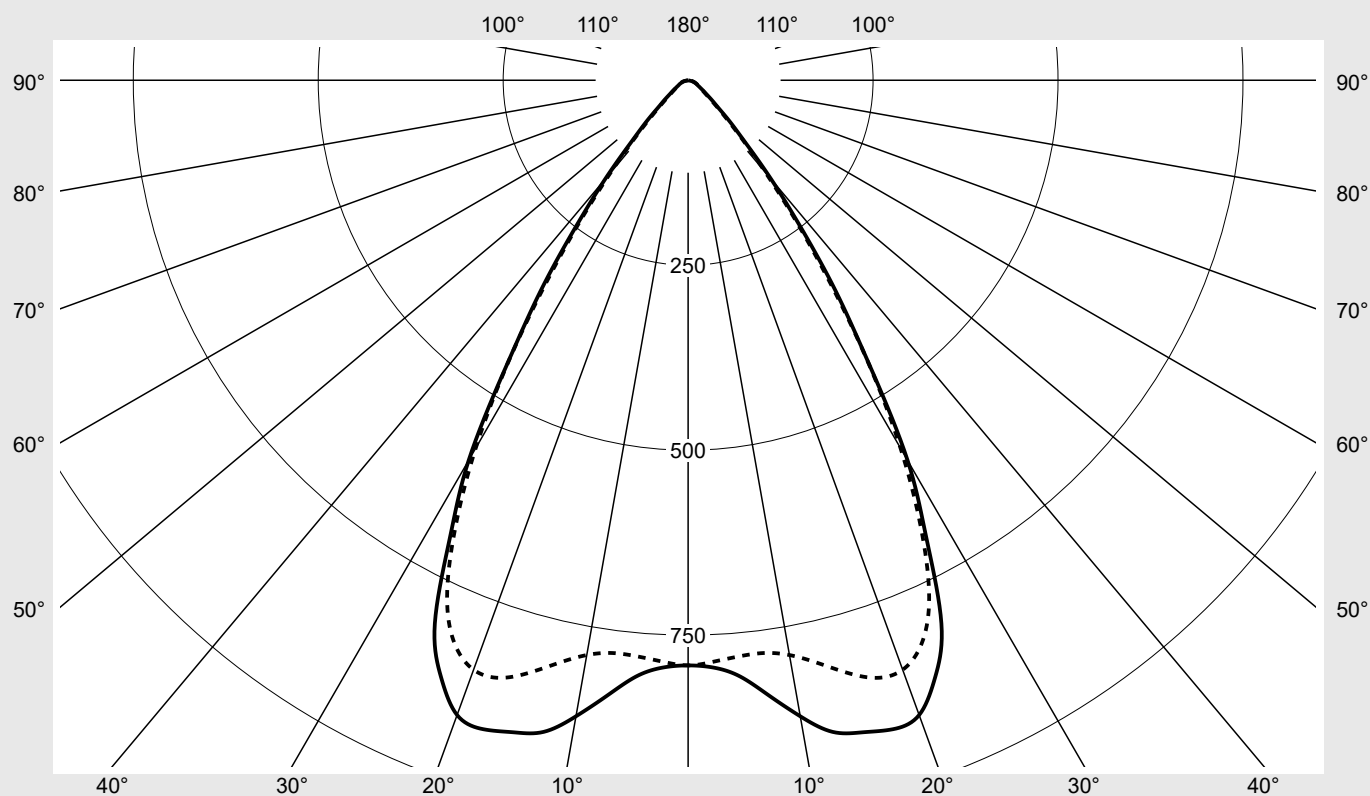
siteco

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

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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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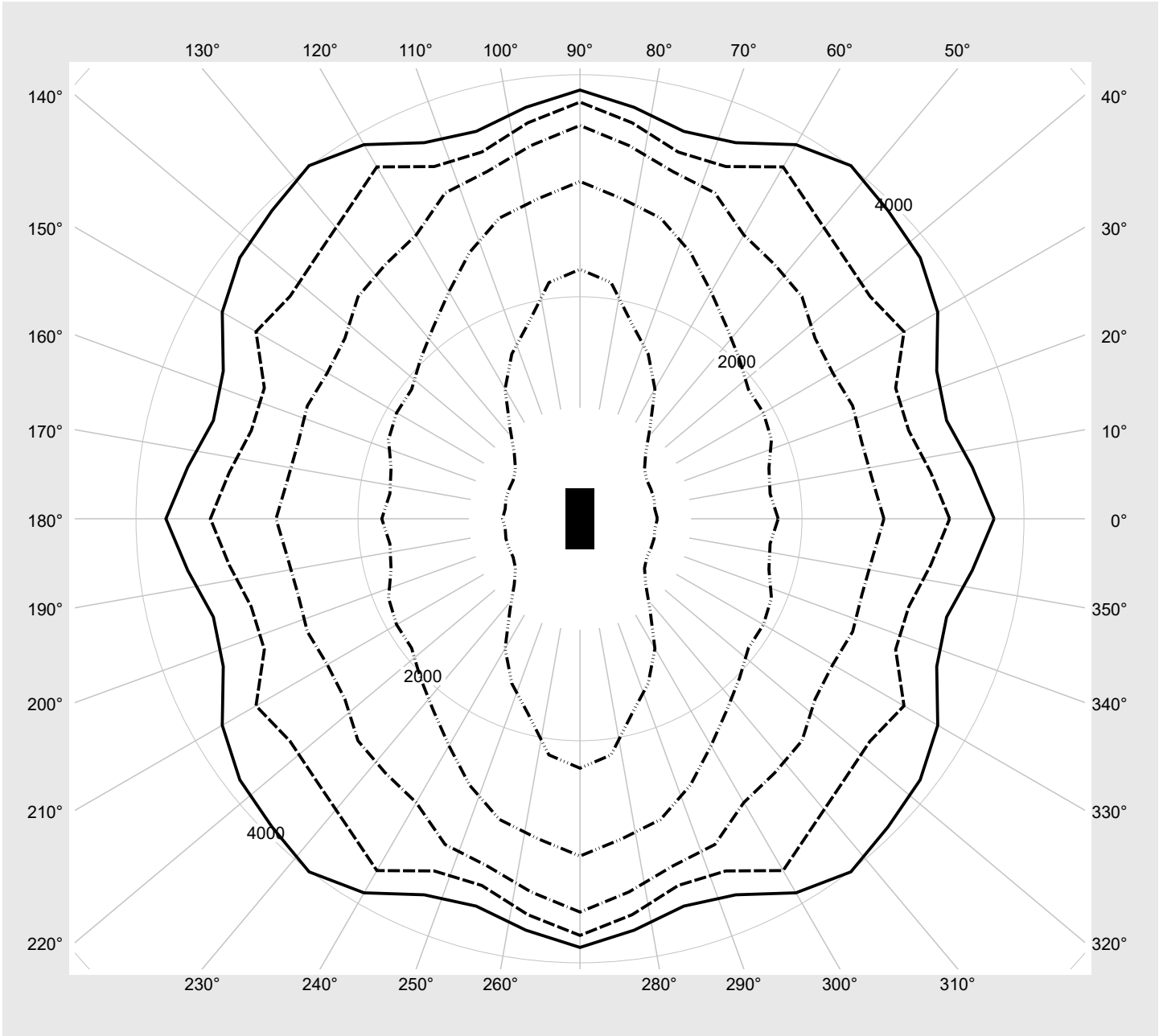
Family Highbay 21	Order number: 52HN12DB6LLA EAN: 4069025445667	LP number 59723_256
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UGR-Table		Standard room							siteco		
Reflection factor of ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
Reflection factor of walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	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	18.0	19.2	18.4	19.6	19.9	17.8	19.1	18.2	19.4	19.7
	3H	18.0	19.1	18.4	19.5	19.8	17.9	19.0	18.3	19.3	19.7
	4H	18.1	19.0	18.5	19.4	19.8	18.0	19.0	18.4	19.3	19.7
	6H	18.0	18.9	18.4	19.3	19.7	18.0	18.9	18.4	19.3	19.7
	8H	18.1	18.9	18.6	19.2	19.7	18.1	18.9	18.6	19.2	19.7
	12H	18.1	18.8	18.5	19.2	19.6	18.1	18.8	18.6	19.2	19.6
4H	2H	17.9	18.9	18.3	19.3	19.6	17.7	18.7	18.1	19.1	19.5
	3H	18.0	18.8	18.4	19.2	19.6	17.9	18.7	18.3	19.1	19.5
	4H	18.0	18.8	18.5	19.2	19.6	18.0	18.7	18.4	19.1	19.6
	6H	18.0	18.6	18.5	19.1	19.5	18.1	18.7	18.5	19.1	19.6
	8H	18.0	18.5	18.5	19.0	19.5	18.1	18.6	18.6	19.1	19.6
	12H	18.0	18.4	18.5	18.9	19.4	18.1	18.6	18.6	19.0	19.5
8H	4H	18.0	18.5	18.5	19.0	19.5	17.9	18.5	18.4	18.9	19.4
	6H	18.0	18.4	18.5	18.9	19.4	18.0	18.5	18.5	19.0	19.5
	8H	17.9	18.3	18.4	18.8	19.4	18.1	18.5	18.6	18.9	19.5
	12H	17.9	18.2	18.5	18.7	19.3	18.1	18.4	18.6	18.9	19.5
12H	4H	18.0	18.4	18.5	18.9	19.4	18.0	18.4	18.4	18.8	19.3
	6H	18.0	18.3	18.5	18.8	19.4	18.0	18.4	18.6	18.9	19.4
	8H	17.9	18.2	18.5	18.7	19.3	18.1	18.4	18.6	18.9	19.4

Luminance table		Max. for $\gamma \geq 65^\circ$									Photometric dimensions in mm:	L = 852 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°	14031.6	13597.3	13801.6	13878.3	13907.0	13597.6	13114.6	12755.7	12637.4	12602.6		
50,0°	7959.9	7740.5	7885.4	7903.5	7902.5	7752.6	7474.2	7225.8	7068.1	7012.7		
55,0°	5389.1	5231.5	5347.8	5484.4	5631.7	5523.9	5250.5	5031.2	4894.1	4910.8		
60,0°	4146.1	4026.6	4094.4	4383.4	4521.1	4513.7	4348.1	4081.8	4034.4	4118.9		
65,0°	3730.7	3513.9	3438.5	3721.6	3892.7	4003.8	3891.2	3629.9	3696.6	3861.8		
70,0°	3330.0	3145.0	3042.9	3370.5	3296.8	3420.5	3659.8	3405.8	3540.9	3753.3		
75,0°	2738.4	2643.5	2655.7	2628.9	2709.7	2864.0	2952.0	3214.7	3339.2	3543.1		
80,0°	1785.8	1728.7	1839.2	1908.1	1939.9	2120.6	2361.1	2670.3	2869.8	3038.6		
85,0°	697.8	680.2	691.6	695.0	759.9	957.9	1349.8	1680.8	2061.1	2246.9		

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



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Dimming levels table		environmental temperature: 25°C
		siteco

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	27140	144.0
95	241	252	25789	136.5
90	228	250	24434	129.1
85	215	248	23074	121.6
80	202	246	21706	114.0
75	189	243	20338	106.8
70	176	241	18959	99.4
65	164	238	17690	92.7
60	151	235	16307	85.2
55	138	232	14921	77.9
50	125	228	13530	70.7
45	113	224	12238	63.9
40	100	220	10839	56.7
35	88	215	9538	50.0
30	75	209	8130	42.8
25	63	203	6821	36.2
20	50	194	5403	29.2
15	38	184	4087	22.5
10	25	169	2662	15.5
5	13	145	1339	8.6
2	5	110	457	4.0