

Photometric test report

Family
Highbay 21

Order number: 52HN11DB6QLA
EAN: 4069025445339

LP number
59724_247

serial
documentation
24.04.2025



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

Lamps LED 6500 K | CRI ≥ 80

Controlgear ECG-DALI

Setting AC-mode

Rated values Net luminous flux = 36840 lm
Power consumption = 197.7 W
Luminous efficacy = 186.4 lm/W

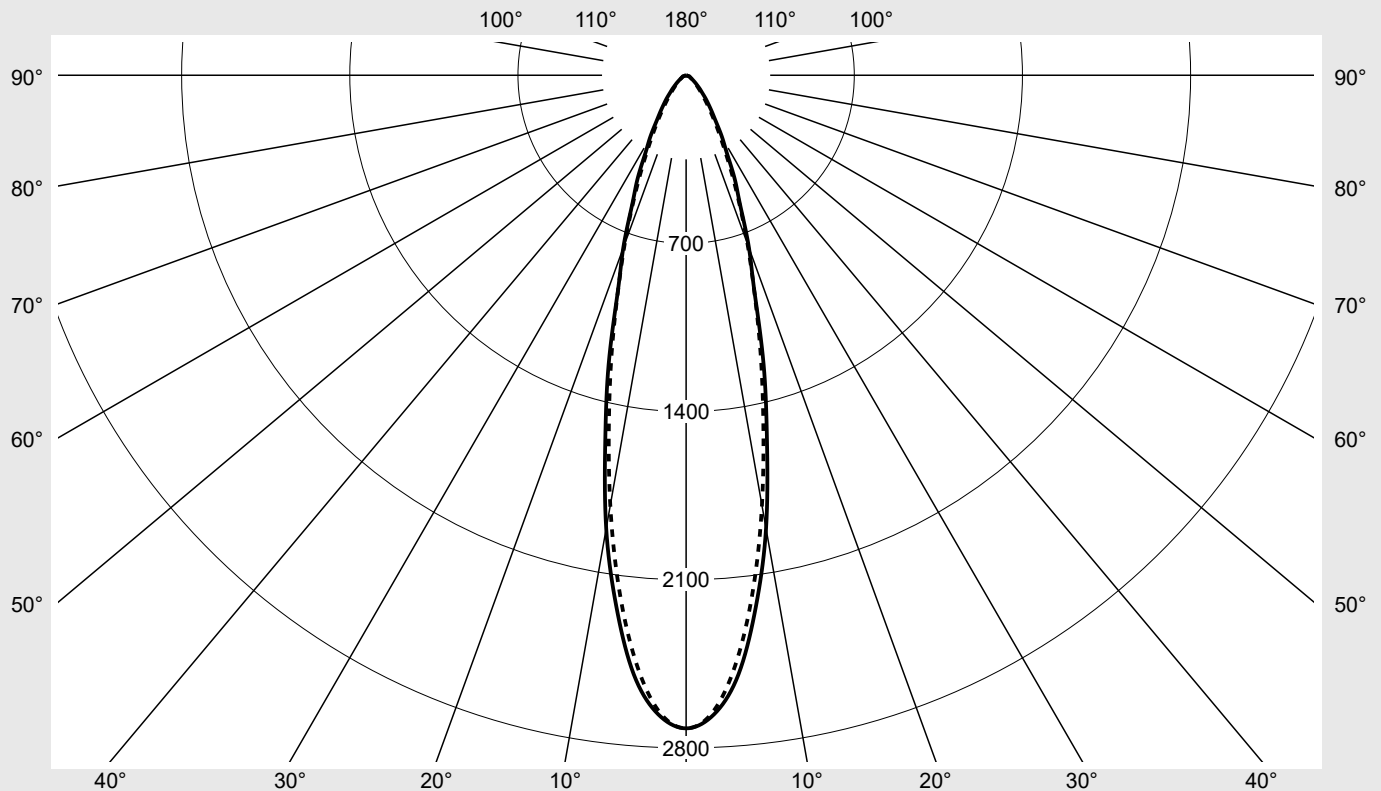
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 2719 cd/klm



Classifications

DIN 5040 A 7 0
CIE N1=89 N2=97 N3=99
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°	2718.5	2718.5	2718.5	2718.5	2718.5	2718.5	2718.5
2,5°	2662.8	2671.1	2671.1	2670.6	2667.6	2663.3	2662.4
5,0°	2502.8	2490.9	2498.0	2494.5	2487.6	2479.1	2473.3
7,5°	2228.4	2233.8	2227.9	2223.2	2214.7	2203.4	2194.2
10,0°	1915.8	1894.8	1902.8	1897.9	1890.8	1880.8	1870.9
12,5°	1554.6	1560.7	1554.3	1552.6	1548.0	1540.2	1531.7
15,0°	1246.2	1237.0	1237.4	1238.4	1237.7	1233.9	1229.0
17,5°	947.1	964.7	959.6	960.0	960.5	959.5	958.4
20,0°	765.0	752.2	754.6	751.6	749.0	747.8	747.5
22,5°	591.2	598.6	590.3	583.2	577.5	573.8	572.1
25,0°	481.4	472.8	470.4	460.9	451.8	445.8	443.1
27,5°	370.5	376.3	371.1	363.9	355.1	347.9	344.8
30,0°	301.2	297.9	295.0	290.6	284.7	279.0	275.2
32,5°	234.8	237.8	234.9	232.8	229.2	225.3	220.4
35,0°	189.2	188.5	187.7	186.9	184.4	180.6	175.3
37,5°	154.0	153.7	151.7	151.0	148.4	144.9	141.0
40,0°	125.7	123.3	123.0	121.9	119.1	115.8	113.2
42,5°	99.2	100.3	99.3	98.6	95.9	92.9	90.7
45,0°	81.4	79.6	79.7	79.0	77.2	74.6	72.7
47,5°	64.2	64.9	64.5	64.0	62.8	60.9	59.5
50,0°	52.5	51.6	51.8	51.7	51.0	49.9	49.1
52,5°	41.7	41.9	41.8	42.1	41.9	41.4	40.9
55,0°	33.9	33.5	34.1	34.8	35.0	35.0	34.7
57,5°	27.1	27.4	28.1	29.2	29.7	29.7	29.6
60,0°	22.3	22.3	23.0	24.6	25.8	25.8	25.5
62,5°	19.0	19.2	19.6	20.7	22.4	22.3	22.0
65,0°	17.0	16.8	17.2	18.3	19.8	19.1	19.1
67,5°	14.7	14.8	14.9	16.1	17.2	16.3	16.1
70,0°	12.8	12.5	12.6	13.8	14.3	13.8	13.9
72,5°	11.3	11.1	10.9	11.6	11.4	11.2	11.7
75,0°	9.7	9.3	8.9	9.6	9.3	9.1	9.3
77,5°	7.4	7.4	7.1	7.5	7.1	6.8	7.1
80,0°	4.9	4.7	4.8	4.8	4.5	4.5	4.8
82,5°	2.2	2.3	2.3	2.4	2.4	2.5	2.7
85,0°	0.8	0.8	0.8	0.8	0.8	0.9	1.0
87,5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4

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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°	2718.5	2718.5	2718.5	2718.5	2718.5	2718.5	4.1	4.1
2,5°	2661.4	2660.0	2657.7	2657.0	2651.0	2647.2	31.8	35.9
5,0°	2468.0	2461.9	2456.3	2452.9	2444.7	2440.4	59.1	95.0
7,5°	2185.5	2176.0	2168.0	2162.0	2152.6	2148.3	78.5	173.5
10,0°	1860.3	1847.8	1837.7	1831.0	1822.1	1817.6	88.9	262.4
12,5°	1522.0	1510.4	1500.7	1495.5	1488.9	1485.2	90.6	353.0
15,0°	1223.0	1215.3	1207.9	1204.2	1200.8	1197.6	86.8	439.8
17,5°	955.3	949.4	945.6	944.9	945.8	944.0	78.6	518.5
20,0°	745.4	741.8	741.4	743.7	748.0	747.7	70.2	588.6
22,5°	571.4	571.2	573.5	575.9	579.7	580.1	60.8	649.4
25,0°	443.2	444.5	446.3	448.3	449.2	448.8	52.5	701.9
27,5°	344.0	344.5	345.1	346.1	344.9	343.6	44.7	746.7
30,0°	273.7	273.8	273.9	272.4	270.2	268.2	38.5	785.2
32,5°	217.7	217.2	215.9	213.7	211.0	209.4	32.9	818.1
35,0°	172.5	170.5	168.2	166.4	165.0	164.5	27.8	845.9
37,5°	138.1	135.6	133.3	132.0	130.7	130.3	23.7	869.5
40,0°	110.2	108.1	106.1	104.8	103.7	103.1	20.0	889.6
42,5°	88.5	86.8	85.0	83.9	83.2	82.7	16.9	906.5
45,0°	71.2	69.8	68.4	67.3	66.9	66.6	14.2	920.7
47,5°	58.5	57.3	56.0	55.1	54.8	54.6	12.1	932.8
50,0°	48.3	47.1	46.0	45.5	45.1	44.8	10.3	943.0
52,5°	40.2	39.3	38.3	37.7	37.1	36.8	8.7	951.8
55,0°	34.1	33.4	32.5	31.7	31.0	30.7	7.5	959.3
57,5°	29.3	29.0	28.2	27.0	26.3	26.1	6.6	965.9
60,0°	25.7	25.8	24.8	23.5	22.8	22.6	5.8	971.6
62,5°	22.4	22.9	21.8	20.7	20.1	19.9	5.1	976.8
65,0°	19.6	20.2	19.7	18.4	17.9	17.8	4.6	981.4
67,5°	16.7	17.6	17.8	16.4	16.0	16.0	4.1	985.5
70,0°	14.1	15.0	15.6	14.4	14.4	14.6	3.6	989.1
72,5°	11.7	12.4	13.4	12.9	13.2	13.4	3.1	992.3
75,0°	9.5	10.4	12.0	11.4	11.8	11.9	2.7	995.0
77,5°	7.2	8.1	9.6	9.6	10.0	10.2	2.1	997.1
80,0°	5.1	5.7	7.0	7.5	7.6	8.0	1.5	998.6
82,5°	3.0	3.6	4.5	5.0	5.3	5.6	0.9	999.5
85,0°	1.2	1.7	2.3	2.7	3.1	3.3	0.4	999.9
87,5°	0.4	0.4	0.5	0.6	0.8	0.9	0.1	1000.1

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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	17.3	18.5	17.7	18.8	19.1	16.8	17.9	17.1	18.2	18.5
	3H	17.8	18.7	18.1	19.1	19.4	17.4	18.4	17.8	18.8	19.1
	4H	18.0	18.9	18.4	19.2	19.6	17.8	18.7	18.2	19.1	19.5
	6H	18.2	18.9	18.6	19.3	19.7	18.3	19.1	18.7	19.4	19.8
	8H	18.2	18.9	18.7	19.3	19.7	18.5	19.2	18.9	19.5	20.0
	12H	18.2	18.8	18.6	19.2	19.6	18.6	19.2	19.0	19.6	20.0
4H	2H	17.5	18.4	17.9	18.8	19.1	17.0	17.9	17.4	18.3	18.7
	3H	18.1	18.8	18.5	19.2	19.6	17.9	18.6	18.3	19.0	19.4
	4H	18.4	19.1	18.8	19.5	19.9	18.4	19.1	18.9	19.5	19.9
	6H	18.6	19.2	19.1	19.6	20.1	18.9	19.5	19.4	19.9	20.4
	8H	18.7	19.1	19.1	19.6	20.1	19.1	19.6	19.6	20.1	20.6
	12H	18.7	19.0	19.1	19.5	20.0	19.3	19.7	19.8	20.1	20.7
8H	4H	18.5	19.0	19.0	19.4	19.9	18.5	19.0	19.0	19.4	19.9
	6H	18.8	19.2	19.3	19.6	20.2	19.1	19.5	19.6	20.0	20.5
	8H	18.8	19.1	19.3	19.6	20.2	19.3	19.7	19.8	20.2	20.7
	12H	18.8	19.0	19.3	19.6	20.1	19.5	19.8	20.0	20.3	20.9
12H	4H	18.5	18.9	19.0	19.4	19.9	18.5	18.9	19.0	19.4	19.9
	6H	18.8	19.1	19.3	19.6	20.1	19.1	19.4	19.6	19.9	20.5
	8H	18.8	19.1	19.3	19.6	20.1	19.3	19.6	19.9	20.1	20.7

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°	18852.7	18404.4	18379.9	17884.2	17114.7	16604.4	16176.7	15747.2	15524.0	15421.3
50,0°	13364.5	13141.3	13199.1	12992.5	12642.8	12396.5	12002.9	11660.1	11517.4	11407.4
55,0°	9681.1	9588.8	9880.4	10008.0	9963.5	9788.5	9545.4	9205.9	8895.1	8778.4
60,0°	7314.3	7360.8	7889.3	8466.7	8413.8	8397.8	8455.9	8005.4	7532.2	7411.0
65,0°	6603.1	6548.1	6919.6	7656.1	7381.8	7512.3	7833.9	7501.9	6998.1	6915.1
70,0°	6123.9	5990.8	6469.5	6833.6	6590.4	6676.7	7187.5	7368.2	6883.9	6979.6
75,0°	6121.3	5792.9	6001.2	5891.5	5750.5	5947.7	6556.6	7647.6	7420.6	7536.9
80,0°	4620.8	4445.5	4570.9	4285.0	4323.8	4644.9	5409.3	6860.6	7090.0	7509.8
85,0°	1518.4	1479.6	1512.8	1535.3	1697.8	2059.6	3149.6	4540.6	5594.5	6233.4

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Luminance values in cd/m²

γ 65°

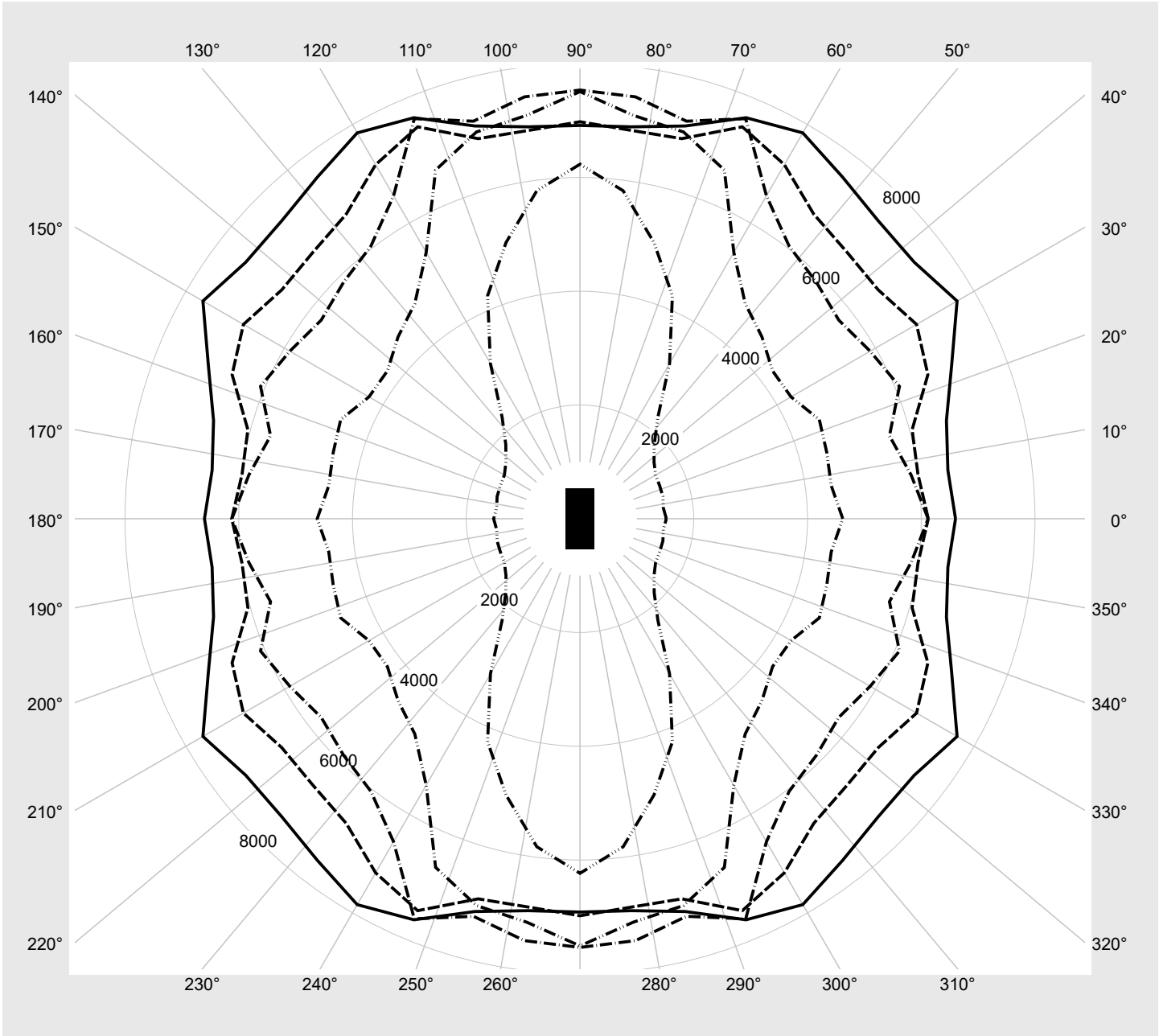
γ 70°

γ 75°

γ 80°

γ 85°

siteco



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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	36840	197.7
95	241	252	35037	187.3
90	228	250	33222	177.1
85	214	248	31256	166.1
80	201	245	29416	155.8
75	188	243	27573	145.8
70	176	241	25857	136.3
65	163	238	23994	126.2
60	150	235	22122	116.2
55	137	231	20243	106.1
50	124	228	18362	96.3
45	112	224	16611	87.1
40	99	219	14701	77.2
35	87	215	12932	68.0
30	74	209	11012	58.3
25	62	202	9229	49.1
20	50	194	7437	40.2
15	37	183	5491	30.6
10	25	169	3687	21.8
5	13	145	1873	12.5
1	4	102	512	5.4