

Photometric test report

Family
Highbay 21

Order number: 52HN11DA4NLA03
EAN: 4069025421388

LP number
59724_180



Version primary light control with lens, PMMA, housing, white, for Licross® rail, narrow distribution, with DALI multisensor

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG-DALI

Rated values Net luminous flux = 32000 lm
Power consumption = 175.8 W
Luminous efficacy = 182 lm/W

serial
documentation
20.03.2025

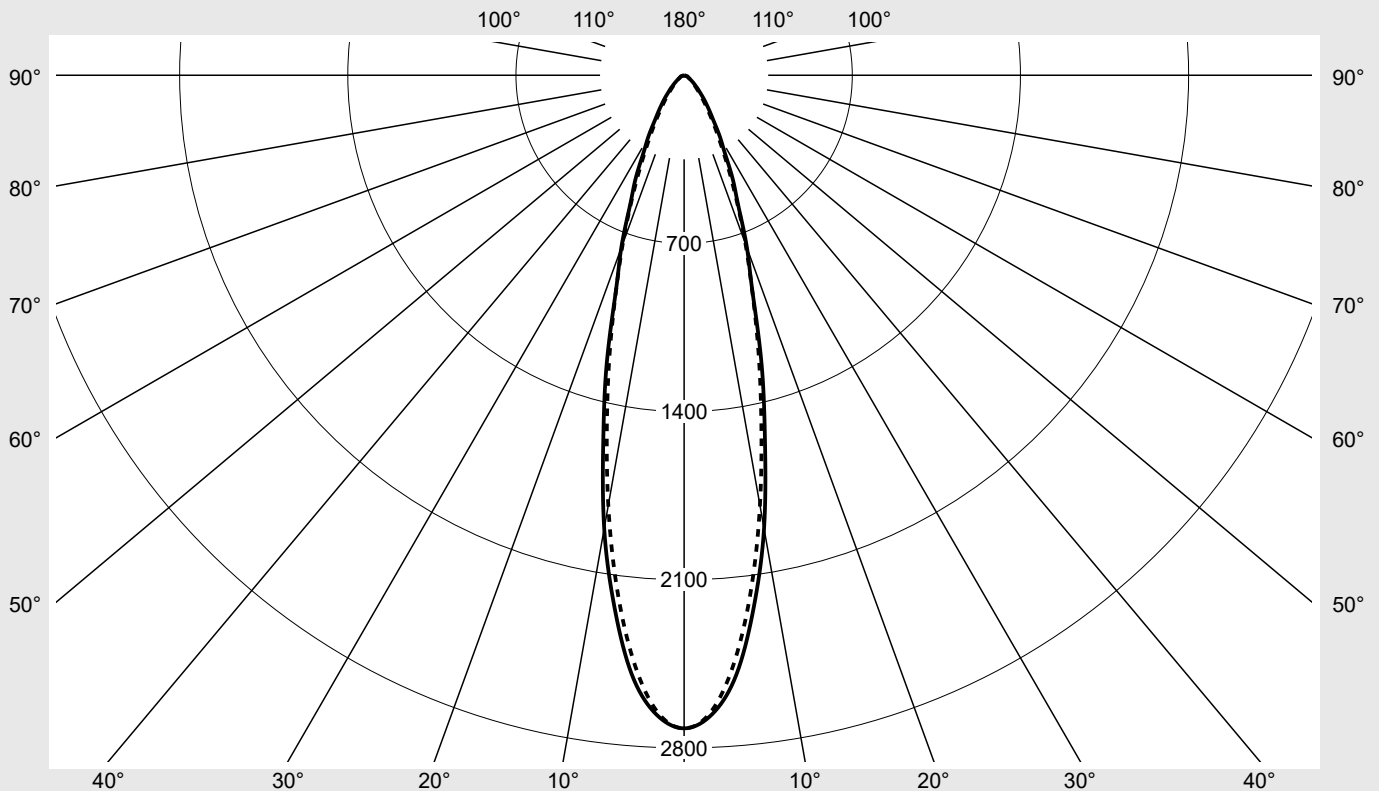
siteco

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°
		Luminous intensity in cd/klm					
γ							
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

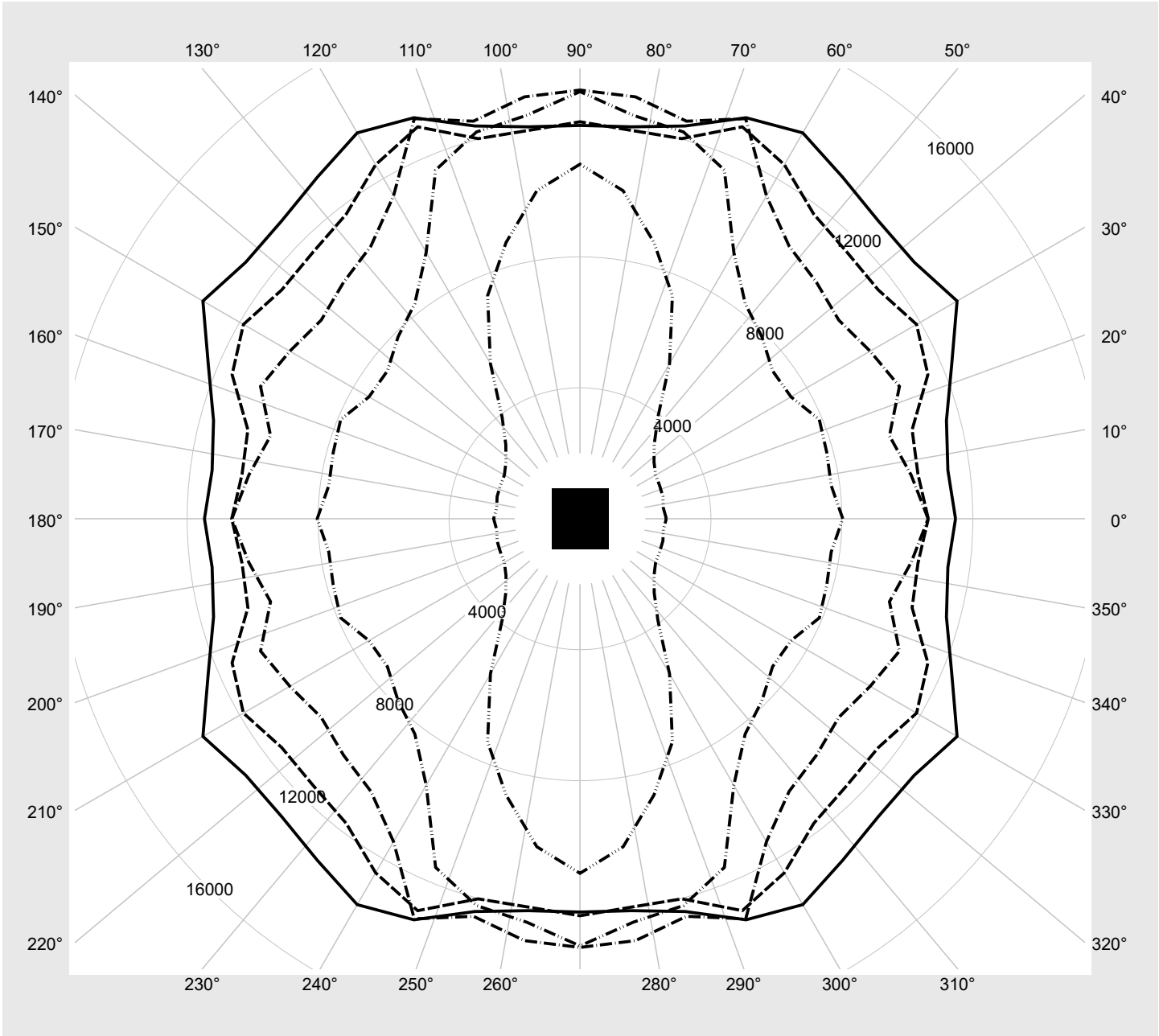
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Family Highbay 21			Order number: 52HN11DA4NLA03 EAN: 4069025421388							LP number 59724_180	
UGR-Table			Standard room							siteco	
Reflection factor of ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
Reflection factor of walls	0.5	0.3	0.5	0.3	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	19.3	20.4	19.6	20.7	21.0	18.7	19.8	19.1	20.1	20.5
	3H	19.7	20.7	20.1	21.0	21.4	19.4	20.3	19.7	20.7	21.0
	4H	19.9	20.8	20.3	21.2	21.5	19.8	20.7	20.2	21.0	21.4
	6H	20.1	20.9	20.5	21.2	21.6	20.2	21.0	20.6	21.4	21.7
	8H	20.2	20.8	20.6	21.2	21.6	20.4	21.1	20.8	21.5	21.9
	12H	20.1	20.7	20.6	21.1	21.6	20.5	21.1	20.9	21.5	21.9
4H	2H	19.4	20.3	19.8	20.7	21.0	18.9	19.8	19.3	20.2	20.6
	3H	20.0	20.7	20.4	21.1	21.6	19.8	20.5	20.2	20.9	21.3
	4H	20.3	21.0	20.8	21.4	21.8	20.3	21.0	20.8	21.4	21.8
	6H	20.5	21.1	21.0	21.5	22.0	20.9	21.4	21.3	21.9	22.3
	8H	20.6	21.1	21.1	21.5	22.0	21.1	21.5	21.5	22.0	22.5
	12H	20.6	21.0	21.1	21.4	21.9	21.2	21.6	21.7	22.1	22.6
8H	4H	20.4	20.9	20.9	21.4	21.8	20.4	20.9	20.9	21.4	21.9
	6H	20.7	21.1	21.2	21.6	22.1	21.0	21.4	21.5	21.9	22.4
	8H	20.7	21.1	21.2	21.5	22.1	21.3	21.6	21.8	22.1	22.6
	12H	20.7	21.0	21.2	21.5	22.0	21.4	21.7	22.0	22.2	22.8
12H	4H	20.4	20.8	20.9	21.3	21.8	20.4	20.8	20.9	21.3	21.8
	6H	20.7	21.0	21.2	21.5	22.0	21.0	21.3	21.5	21.8	22.4
	8H	20.7	21.0	21.2	21.5	22.1	21.3	21.5	21.8	22.0	22.6

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°	32751.6	31973.0	31930.3	31069.2	29732.3	28845.8	28102.8	27356.8	26968.9	26790.6
50,0°	23217.4	22829.6	22930.1	22571.2	21963.6	21535.7	20851.9	20256.4	20008.5	19817.4
55,0°	16818.3	16658.1	17164.7	17386.3	17309.0	17004.9	16582.7	15992.8	15453.0	15250.3
60,0°	12706.8	12787.5	13705.7	14708.8	14616.8	14589.1	14690.0	13907.3	13085.2	12874.7
65,0°	11471.1	11375.7	12021.1	13300.4	12824.0	13050.6	13609.4	13032.7	12157.4	12013.1
70,0°	10638.7	10407.4	11239.1	11871.6	11449.2	11599.0	12486.4	12800.3	11958.9	12125.3
75,0°	10634.1	10063.7	10425.6	10235.0	9990.0	10332.6	11390.5	13285.8	12891.3	13093.4
80,0°	8027.4	7723.0	7940.7	7444.0	7511.4	8069.3	9397.2	11918.4	12317.0	13046.3
85,0°	2637.9	2570.4	2628.1	2667.2	2949.5	3578.1	5471.6	7888.2	9718.9	10828.9

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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



Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	32000	175.8
95	240	252	30383	165.9
90	227	250	28854	157.0
85	213	248	27203	146.8
80	199	245	25552	137.1
75	186	243	23973	128.1
70	173	240	22393	119.1
65	160	237	20809	110.2
60	147	234	19203	101.2
55	134	231	17585	92.4
50	121	227	15942	83.5
45	109	223	14413	75.4
40	96	218	12740	66.7
35	84	213	11182	58.6
30	72	208	9616	50.5
25	60	201	8032	42.5
20	48	193	6440	34.6
15	36	182	4835	26.8
10	24	168	3218	18.9
5	12	142	1592	10.7
2	6	117	771	6.5