

Photometric test report

Family
Highbay 21

Order number: 52HN11DA4FLA
EAN: 4069025284150

LP number
59724_74



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

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG-DALI

Rated values Net luminous flux = 14000 lm
Power consumption = 72.1 W
Luminous efficacy = 194.2 lm/W

serial
documentation
27.02.2025

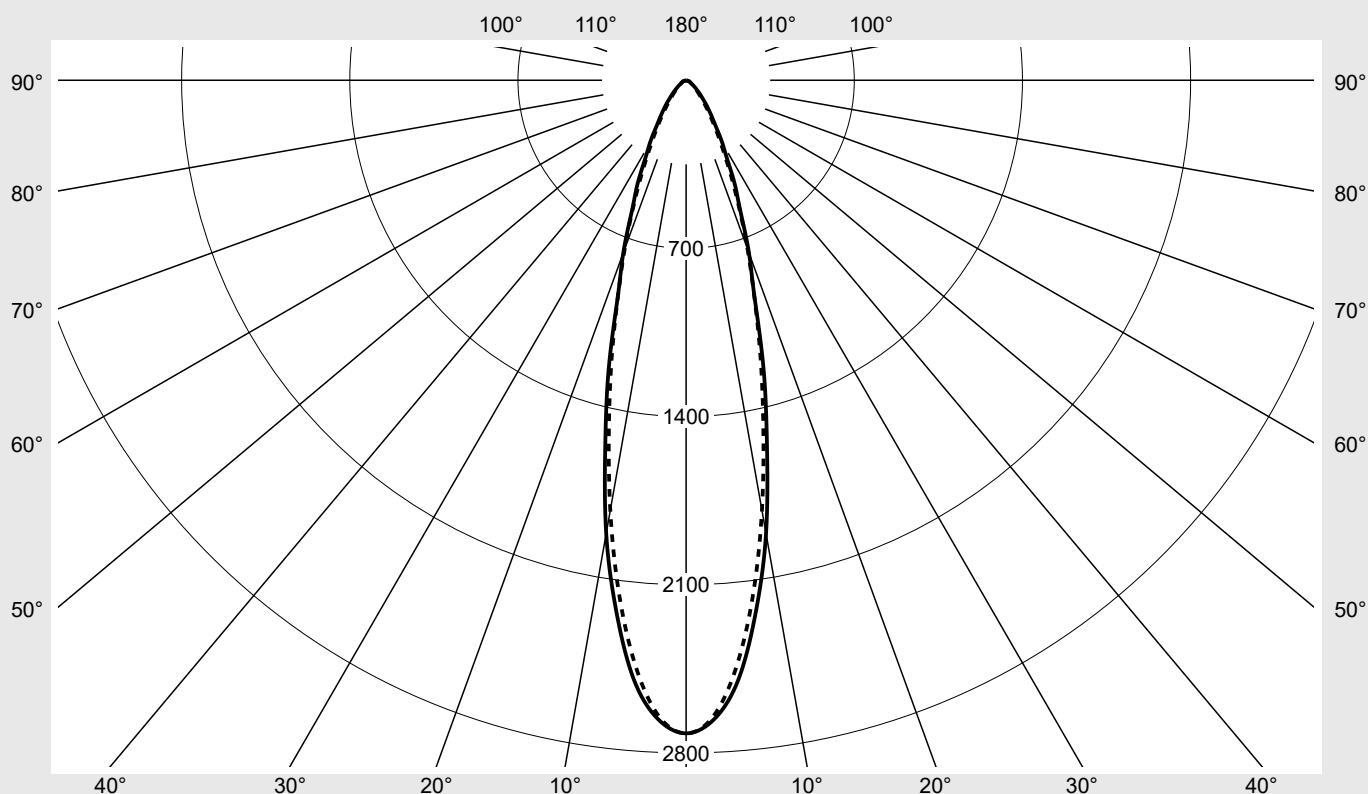
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Luminous intensity in cd/klm

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

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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°
		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
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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	
				sitemco	

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	16.4	17.5	16.7	17.8	18.1	15.8	17.0	16.2	17.3	17.6
	3H	16.8	17.8	17.2	18.1	18.5	16.5	17.5	16.9	17.8	18.2
	4H	17.0	17.9	17.4	18.3	18.7	16.9	17.8	17.3	18.2	18.5
	6H	17.2	18.0	17.6	18.4	18.8	17.3	18.1	17.7	18.5	18.9
	8H	17.3	18.0	17.7	18.3	18.7	17.5	18.2	18.0	18.6	19.0
	12H	17.3	17.9	17.7	18.3	18.7	17.6	18.2	18.0	18.6	19.0
4H	2H	16.5	17.4	16.9	17.8	18.2	16.1	17.0	16.5	17.3	17.7
	3H	17.1	17.9	17.6	18.3	18.7	16.9	17.7	17.3	18.1	18.5
	4H	17.4	18.1	17.9	18.5	19.0	17.5	18.1	17.9	18.5	19.0
	6H	17.7	18.2	18.1	18.7	19.1	18.0	18.5	18.5	19.0	19.5
	8H	17.7	18.2	18.2	18.6	19.1	18.2	18.7	18.7	19.1	19.6
	12H	17.7	18.1	18.2	18.6	19.1	18.3	18.7	18.8	19.2	19.7
8H	4H	17.5	18.0	18.0	18.5	19.0	17.6	18.0	18.0	18.5	19.0
	6H	17.8	18.2	18.3	18.7	19.2	18.2	18.6	18.7	19.0	19.5
	8H	17.8	18.2	18.3	18.7	19.2	18.4	18.7	18.9	19.2	19.8
	12H	17.8	18.1	18.3	18.6	19.2	18.6	18.8	19.1	19.3	19.9
12H	4H	17.6	18.0	18.0	18.4	18.9	17.6	18.0	18.0	18.4	18.9
	6H	17.8	18.1	18.3	18.6	19.2	18.2	18.5	18.7	19.0	19.5
	8H	17.8	18.1	18.4	18.6	19.2	18.4	18.7	18.9	19.2	19.7

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°	14328.8	13988.2	13969.5	13592.8	13007.9	12620.0	12295.0	11968.6	11798.9	11720.9
50,0°	10157.6	9987.9	10031.9	9874.9	9609.1	9421.9	9122.7	8862.2	8753.7	8670.1
55,0°	7358.0	7287.9	7509.5	7606.5	7572.7	7439.7	7254.9	6996.9	6760.7	6672.0
60,0°	5559.2	5594.5	5996.2	6435.1	6394.9	6382.7	6426.9	6084.5	5724.8	5632.7
65,0°	5018.6	4976.9	5259.2	5818.9	5610.5	5709.7	5954.1	5701.8	5318.8	5255.7
70,0°	4654.4	4553.2	4917.1	5193.8	5009.0	5074.6	5462.8	5600.1	5232.0	5304.8
75,0°	4652.4	4402.9	4561.2	4477.8	4370.6	4520.5	4983.3	5812.5	5640.0	5728.4
80,0°	3512.0	3378.8	3474.1	3256.8	3286.2	3530.3	4111.3	5214.3	5388.7	5707.8
85,0°	1154.1	1124.5	1149.8	1166.9	1290.4	1565.4	2393.8	3451.1	4252.0	4737.7

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Luminance values in cd/m²

γ 65°

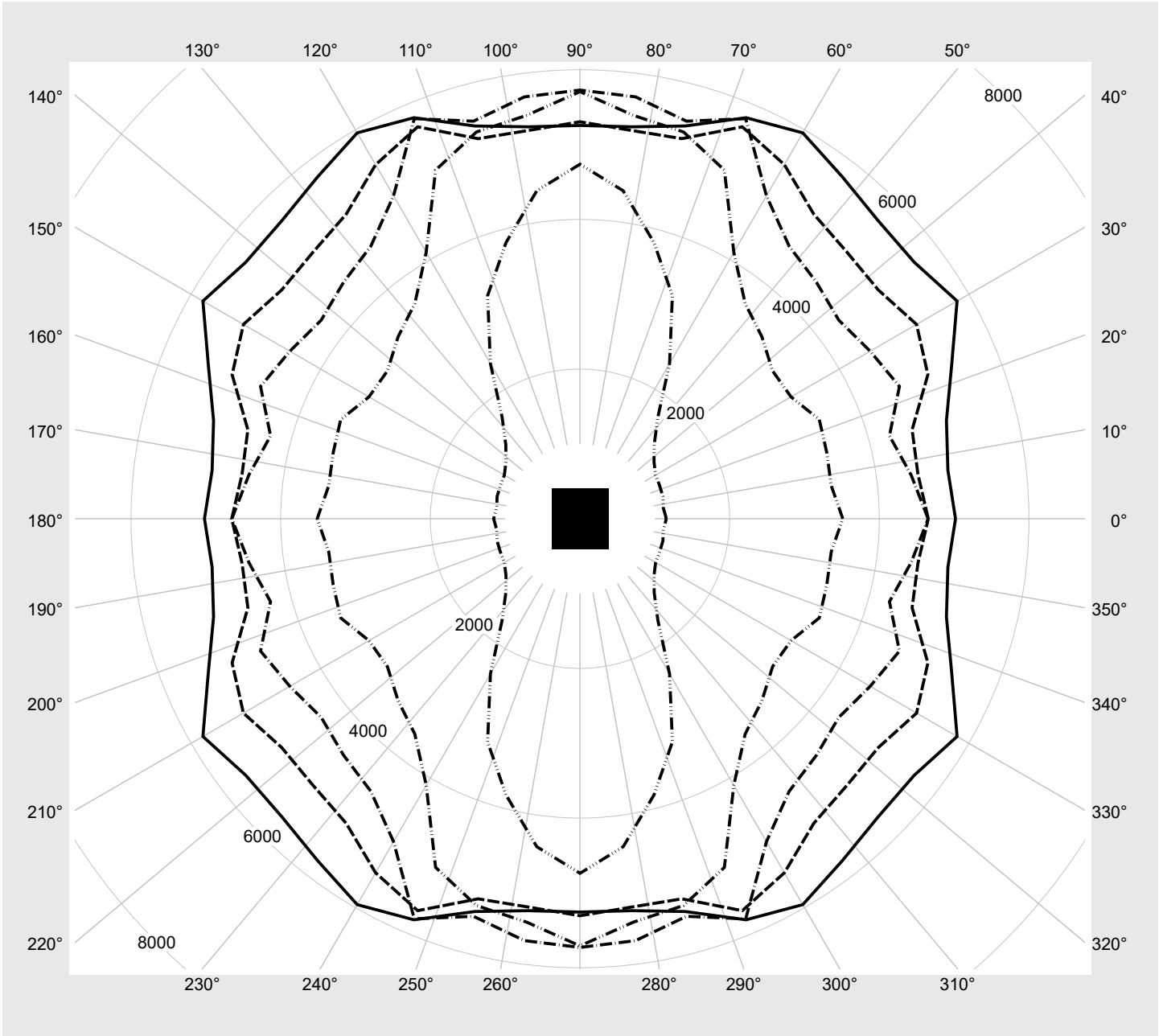
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table		environmental temperature: 25°C

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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	----	----	----	----
100	253	254	13946	71.8
95	241	252	13303	68.3
90	228	250	12606	64.7
85	215	248	11901	61.0
80	202	246	11197	57.4
75	189	243	10494	53.5
70	176	241	9782	49.9
65	164	238	9126	46.6
60	151	235	8413	42.9
55	138	232	7695	39.3
50	125	228	6976	35.7
45	113	224	6313	32.4
40	100	220	5591	28.8
35	88	215	4919	25.5
30	75	209	4192	22.0
25	63	203	3520	18.7
20	50	194	2785	15.1
15	38	184	2109	11.9
10	25	169	1374	8.4
5	13	145	690	4.9
2	5	110	235	2.5