

Photometric test report

Family
Highbay 21

Order number: 52HN11DA4NLA01
EAN: 4069025421364

LP number
59724_164

serial
documentation
20.03.2025



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

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG-DALI

Rated values Net luminous flux = 32000 lm
Power consumption = 176.3 W
Luminous efficacy = 181.5 lm/W

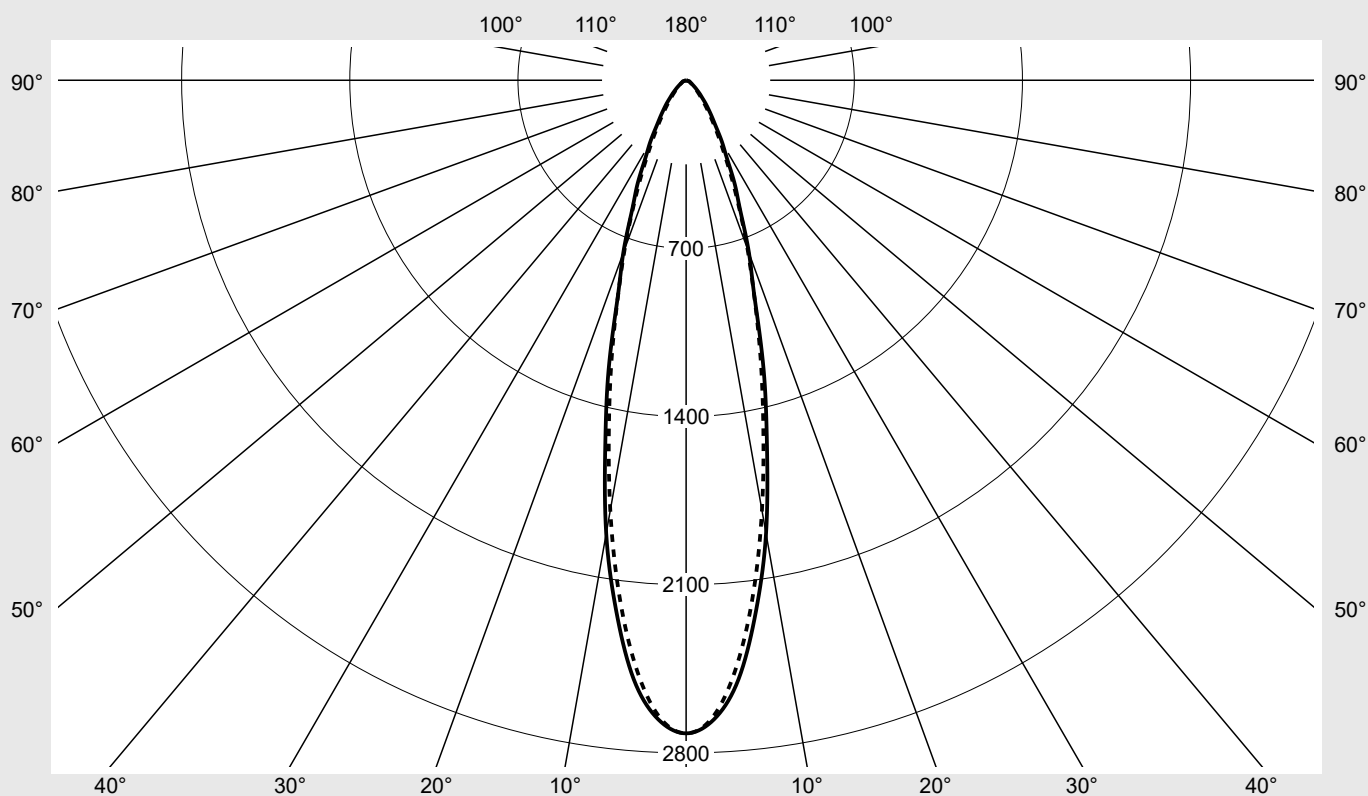
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Luminous intensity in cd/klm

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						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								
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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Order number: 52HN11DA4NLA01
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Luminance values in cd/m²

γ 65°

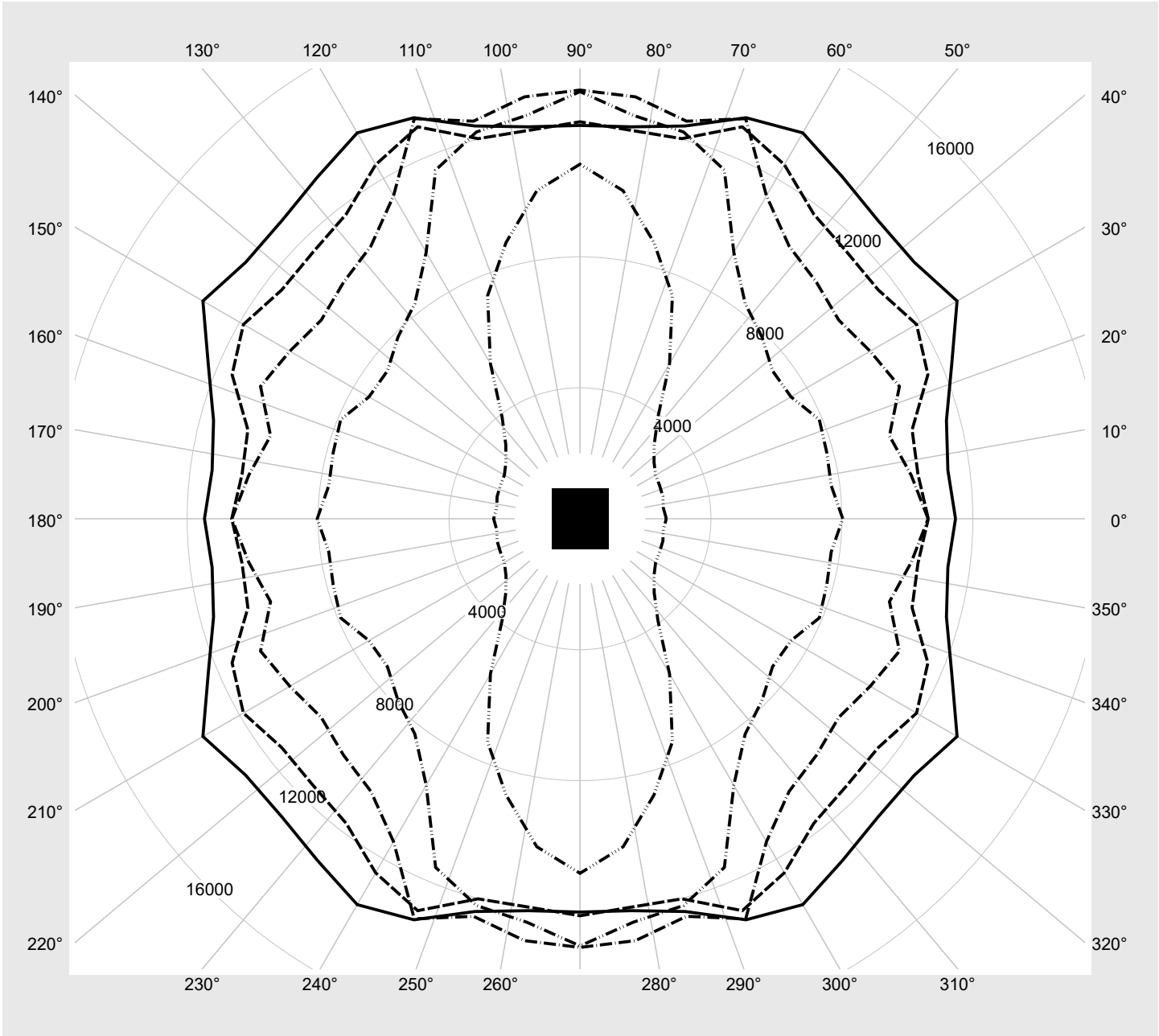
γ 70°

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	254	254	32000	176.3
95	240	252	30383	166.4
90	227	250	28854	157.5
85	213	248	27203	147.3
80	199	245	25552	137.6
75	186	243	23973	128.6
70	173	240	22393	119.6
65	160	237	20809	110.7
60	147	234	19203	101.7
55	134	231	17585	92.9
50	121	227	15942	84.0
45	109	223	14413	75.9
40	96	218	12740	67.2
35	84	213	11182	59.1
30	72	208	9616	51.0
25	60	201	8032	43.0
20	48	193	6440	35.1
15	36	182	4835	27.3
10	24	168	3218	19.4
5	12	142	1592	11.2
2	6	117	771	7.0