

Photometric test report

Family Highbay 11	Order number: 51HN11DA6FLA EAN: 4069025424181	LP number 59711_391
	Version	primary light control with lens, PMMA, housing, white, for Licross® rail, narrow distribution
	Lamps	LED 6500 K CRI ≥ 80
	Controlgear	ECG-DALI
	Rated values	Net luminous flux = 14220 lm Power consumption = 73.2 W Luminous efficacy = 194.3 lm/W
		serial documentation 09.04.2025
		



Classifications		Luminaire light output ratios	
DIN 5040	A 7 0	η_{LB}	100.0%
CIE	N1=85 N2=97 N3=100	ϕ_u	100.0%
	N4=100 N5=100	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° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm							Luminous flux in lm/klm	
0,0°	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	4.0	4.0
2,5°	2608.0	2619.4	2619.4	2616.5	2617.6	2616.2	2606.1	31.3	35.3
5,0°	2420.1	2415.7	2414.1	2408.4	2406.6	2402.3	2391.7	57.6	92.8
7,5°	2113.4	2116.1	2112.3	2103.0	2097.6	2090.5	2079.6	75.2	168.1
10,0°	1780.1	1768.7	1762.7	1751.6	1743.6	1735.2	1724.7	83.4	251.5
12,5°	1410.1	1409.3	1404.7	1395.9	1388.1	1380.5	1373.1	82.8	334.3
15,0°	1106.5	1097.8	1095.0	1089.4	1083.1	1078.4	1073.9	77.3	411.5
17,5°	830.1	840.2	835.5	831.1	826.6	824.9	824.1	68.5	480.0
20,0°	671.1	661.9	651.8	643.2	639.9	639.4	641.0	60.8	540.8
22,5°	531.9	530.5	514.2	498.9	497.0	496.6	496.8	53.4	594.2
25,0°	450.6	441.3	420.6	401.3	399.0	395.8	392.4	47.9	642.1
27,5°	370.8	368.7	351.4	331.7	326.8	321.1	316.0	43.1	685.2
30,0°	320.4	312.1	300.8	284.1	278.0	270.2	264.7	39.7	724.9
32,5°	271.0	266.8	259.0	245.6	238.0	229.0	224.7	36.5	761.4
35,0°	235.8	228.9	222.7	210.5	201.6	193.0	191.7	33.3	794.7
37,5°	204.4	197.8	191.5	181.1	172.0	164.3	162.4	30.3	825.0
40,0°	176.7	170.7	163.1	154.3	146.1	138.3	135.6	27.3	852.2
42,5°	147.6	145.5	138.6	130.6	123.2	115.8	113.3	24.2	876.4
45,0°	126.0	121.8	116.3	109.0	102.0	95.3	93.2	21.1	897.6
47,5°	103.2	101.5	97.1	90.9	84.6	78.4	76.7	18.3	915.9
50,0°	85.9	82.9	79.4	74.6	69.1	63.7	61.9	15.5	931.4
52,5°	69.0	67.2	64.5	61.0	56.2	51.6	49.7	13.0	944.4
55,0°	55.6	54.1	52.2	49.5	45.7	41.7	40.0	10.9	955.3
57,5°	43.6	43.1	41.8	39.8	37.0	33.6	32.2	9.0	964.3
60,0°	33.2	33.3	33.9	32.4	30.5	27.5	26.1	7.4	971.7
62,5°	25.9	26.0	27.0	26.2	25.1	22.4	21.3	6.1	977.8
65,0°	21.6	21.2	21.7	21.3	20.9	18.8	17.7	5.1	982.9
67,5°	17.0	17.1	17.8	17.0	17.3	15.6	14.8	4.3	987.2
70,0°	13.5	13.4	14.4	13.6	14.1	13.0	12.4	3.5	990.7
72,5°	11.0	10.8	10.9	10.9	11.0	10.7	10.6	2.8	993.5
75,0°	9.0	8.4	8.4	8.3	8.6	9.0	8.9	2.3	995.8
77,5°	6.6	6.4	6.2	6.2	6.6	7.3	7.4	1.8	997.5
80,0°	4.4	4.2	4.1	4.2	4.7	5.7	5.8	1.3	998.8
82,5°	2.0	2.1	2.2	2.4	3.0	3.9	4.1	0.8	999.6
85,0°	0.8	0.8	0.8	1.0	1.5	2.2	2.4	0.4	999.9
87,5°	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.1	1000.0
90,0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0

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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
Reflection factor of walls		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3
Reflection factor of floor		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	18.7	19.9	19.1	20.2	20.5	17.5	18.7	17.9	19.0
	3H	18.9	20.0	19.3	20.3	20.7	17.8	18.8	18.2	19.2
	4H	19.0	20.0	19.4	20.3	20.7	17.9	18.9	18.3	19.2
	6H	19.1	19.9	19.5	20.3	20.7	18.1	18.9	18.5	19.3
	8H	19.1	19.8	19.6	20.2	20.6	18.2	18.9	18.6	19.3
	12H	19.1	19.7	19.5	20.1	20.6	18.2	18.9	18.6	19.3
4H	2H	18.8	19.7	19.2	20.1	20.4	17.7	18.7	18.1	19.0
	3H	19.1	19.9	19.5	20.3	20.7	18.1	18.9	18.5	19.3
	4H	19.2	19.9	19.6	20.3	20.8	18.3	19.0	18.8	19.4
	6H	19.3	19.9	19.7	20.3	20.8	18.5	19.1	19.0	19.5
	8H	19.3	19.8	19.8	20.2	20.7	18.6	19.1	19.1	19.6
	12H	19.3	19.7	19.7	20.1	20.6	18.6	19.1	19.1	19.5
8H	4H	19.2	19.7	19.7	20.2	20.6	18.3	18.8	18.8	19.3
	6H	19.3	19.7	19.8	20.2	20.7	18.6	19.0	19.1	19.5
	8H	19.3	19.6	19.8	20.1	20.6	18.7	19.0	19.2	19.5
	12H	19.2	19.5	19.8	20.0	20.6	18.7	19.0	19.3	19.5
12H	4H	19.2	19.6	19.7	20.1	20.6	18.3	18.7	18.8	19.2
	6H	19.3	19.6	19.8	20.1	20.6	18.6	18.9	19.1	19.4
	8H	19.2	19.5	19.8	20.0	20.6	18.7	18.9	19.2	19.5

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 426 B = 264	
C-planes	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
γ	Luminance in cd/m²						
45,0°	22528.4	21776.3	20795.3	19494.6	18239.4	17046.1	16664.6
50,0°	16888.8	16300.9	15610.4	14683.5	13582.6	12521.9	12167.5
55,0°	12254.6	11922.8	11509.7	10911.9	10071.3	9192.9	8823.4
60,0°	8408.0	8417.1	8573.7	8191.3	7704.3	6950.9	6604.0
65,0°	6455.5	6346.6	6490.5	6385.5	6250.5	5617.2	5309.6
70,0°	5001.5	4941.2	5308.3	5013.0	5202.2	4789.3	4577.1
75,0°	4384.5	4114.9	4124.2	4068.5	4197.4	4376.7	4368.9
80,0°	3198.7	3080.0	2979.6	3033.4	3389.5	4116.2	4199.9
85,0°	1183.8	1169.3	1223.0	1382.6	2122.4	3124.9	3541.3

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LP number
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Luminance values in cd/m²

γ 65°

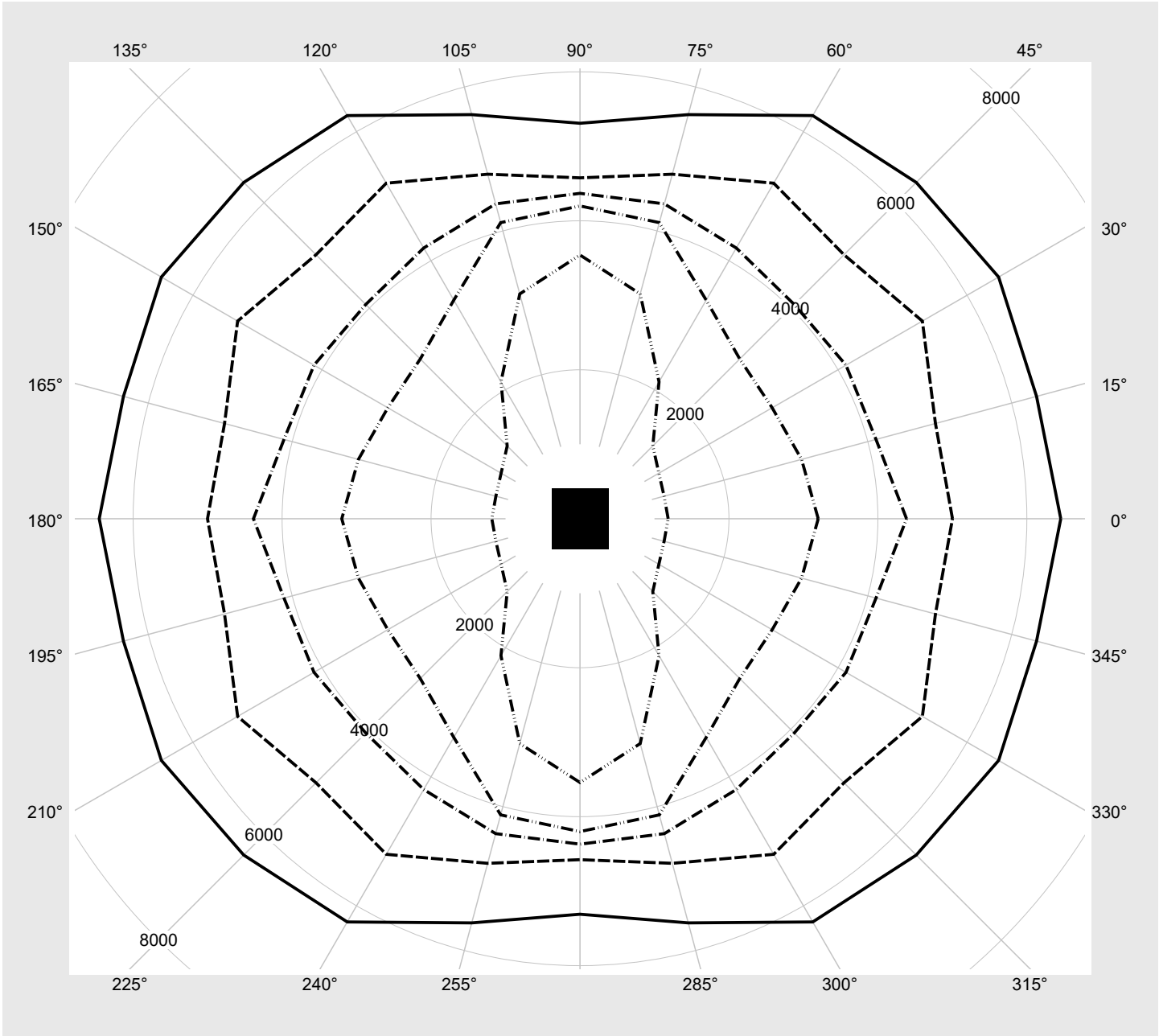
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table		environmental temperature: 25°C



Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	14220	73.2
95	241	252	13521	69.3
90	228	250	12822	65.5
85	214	248	12066	61.5
80	201	245	11356	57.7
75	188	243	10649	53.8
70	175	240	9936	50.1
65	162	238	9216	46.4
60	150	235	8552	43.0
55	137	231	7828	39.2
50	124	228	7097	35.6
45	112	224	6424	32.2
40	99	219	5690	28.6
35	87	215	5004	25.2
30	74	209	4263	21.7
25	62	202	3574	18.3
20	49	194	2819	14.8
15	37	183	2123	11.5
10	25	169	1424	8.2
5	13	145	716	4.7
2	5	110	245	2.5