

Photometric test report

Family Highbay 11	Order number: 51HN11DB3PLA EAN: 4069025424297	LP number 59711_394
	Version	primary light control with lens, PMMA, housing, white, for Licross® rail, narrow distribution
	Lamps	LED 3000 K CRI ≥ 80
	Controlgear	ECG-DALI
	Rated values	Net luminous flux = 34200 lm Power consumption = 177.6 W Luminous efficacy = 192.6 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	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	19.4	20.5	19.7	20.8	21.2	18.2	19.3	18.5	19.6	20.0
	3H	19.6	20.6	20.0	21.0	21.3	18.5	19.5	18.8	19.8	20.2
	4H	19.7	20.6	20.1	21.0	21.3	18.6	19.5	19.0	19.9	20.3
	6H	19.7	20.5	20.1	20.9	21.3	18.7	19.6	19.1	19.9	20.3
	8H	19.8	20.5	20.2	20.9	21.3	18.8	19.6	19.3	20.0	20.4
	12H	19.7	20.4	20.2	20.8	21.2	18.8	19.5	19.3	19.9	20.3
4H	2H	19.4	20.4	19.8	20.7	21.1	18.4	19.3	18.8	19.6	20.0
	3H	19.7	20.5	20.2	20.9	21.3	18.8	19.5	19.2	19.9	20.3
	4H	19.8	20.5	20.3	21.0	21.4	18.9	19.6	19.4	20.1	20.5
	6H	19.9	20.5	20.4	20.9	21.4	19.1	19.7	19.6	20.2	20.6
	8H	19.9	20.4	20.4	20.9	21.4	19.2	19.7	19.7	20.2	20.7
	12H	19.9	20.3	20.4	20.8	21.3	19.3	19.7	19.8	20.2	20.7
8H	4H	19.8	20.3	20.3	20.8	21.3	19.0	19.5	19.5	19.9	20.4
	6H	19.9	20.3	20.4	20.8	21.3	19.2	19.6	19.7	20.1	20.6
	8H	19.9	20.3	20.4	20.8	21.3	19.3	19.7	19.8	20.2	20.7
	12H	19.9	20.2	20.4	20.7	21.2	19.4	19.7	19.9	20.2	20.7
12H	4H	19.8	20.2	20.3	20.7	21.2	19.0	19.4	19.5	19.9	20.4
	6H	19.9	20.2	20.4	20.7	21.3	19.2	19.5	19.7	20.0	20.6
	8H	19.9	20.2	20.4	20.7	21.2	19.3	19.6	19.8	20.1	20.6

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 852 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°	27091.1	26186.7	25007.0	23442.9	21933.4	20498.5	20039.7
50,0°	20309.3	19602.3	18772.0	17657.4	16333.5	15058.0	14631.8
55,0°	14736.5	14337.6	13840.8	13121.9	12111.1	11054.7	10610.4
60,0°	10110.9	10121.9	10310.1	9850.3	9264.6	8358.7	7941.5
65,0°	7762.9	7632.0	7805.0	7678.7	7516.5	6754.8	6385.0
70,0°	6014.5	5942.0	6383.4	6028.2	6255.9	5759.3	5504.1
75,0°	5272.6	4948.3	4959.4	4892.5	5047.5	5263.2	5253.8
80,0°	3846.6	3703.8	3583.0	3647.8	4076.0	4949.8	5050.5
85,0°	1423.6	1406.1	1470.7	1662.6	2552.3	3757.8	4258.5

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LP number
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Luminance values in cd/m²

γ 65°

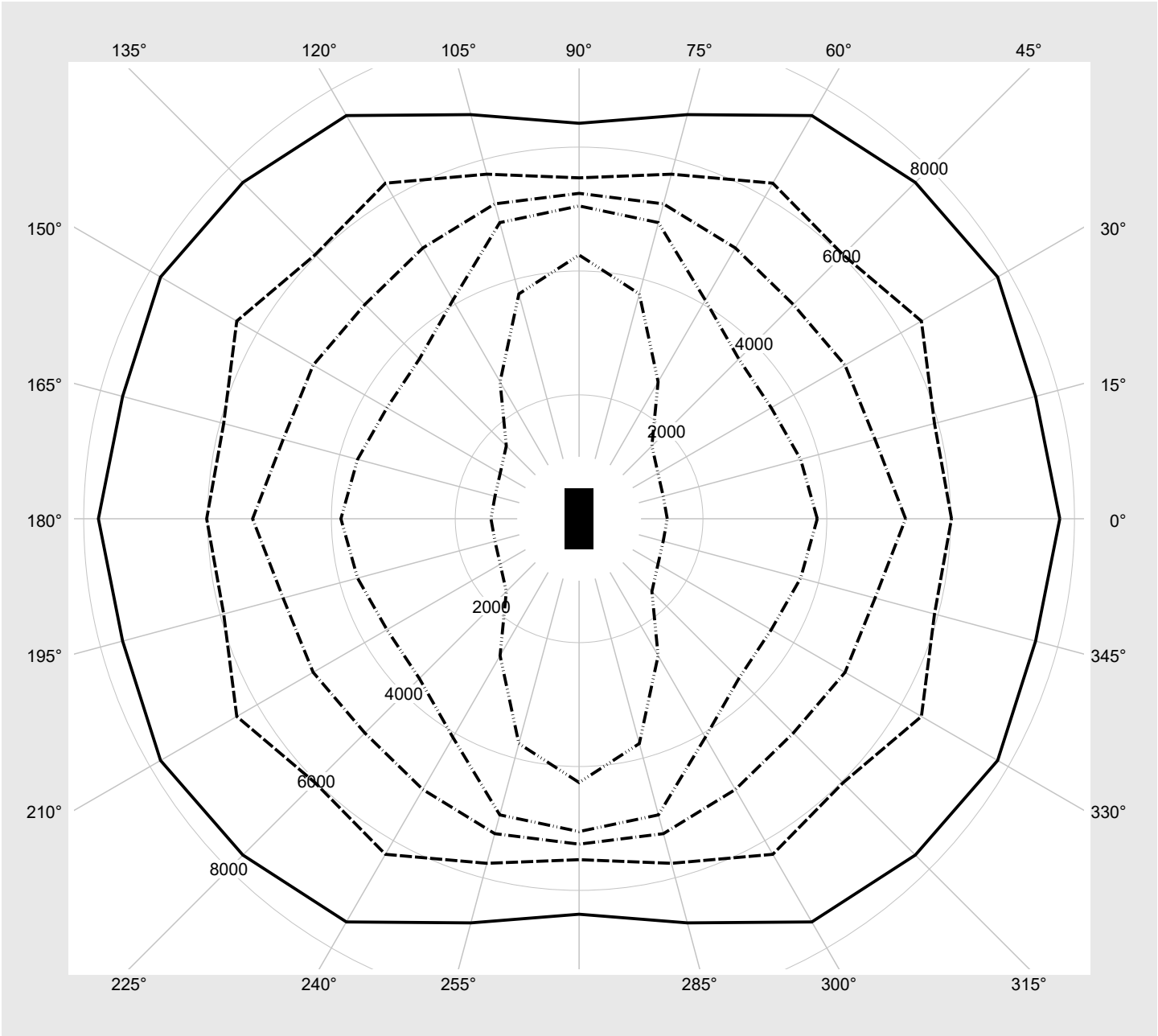
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table		environmental temperature: 25°C
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	34200	177.6
95	241	252	32547	168.2
90	227	250	30753	158.1
85	214	248	29081	148.9
80	201	245	27390	139.5
75	188	243	25694	130.3
70	175	240	23987	121.1
65	162	238	22275	112.1
60	149	234	20548	103.0
55	136	231	18818	94.0
50	123	227	17069	85.0
45	111	224	15441	76.8
40	98	219	13668	67.9
35	86	214	12024	59.8
30	73	208	10230	50.9
25	61	202	8557	42.9
20	49	194	6878	35.0
15	37	183	5188	27.2
10	25	169	3486	19.3
5	13	145	1769	11.1
1	4	102	477	4.8