

Photometric test report

Family Highbay 11	Order number: 51HN11DA6LLA EAN: 4069025424228	LP number 59711_392
	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 = 26540 lm Power consumption = 146.7 W Luminous efficacy = 180.9 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

sitEco

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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Family Highbay 11			Order number: 51HN11DA6LLA EAN: 4069025424228							LP number 59711_392	
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	20.9	22.1	21.2	22.4	22.7	19.7	20.9	20.0	21.2	21.5
	3H	21.1	22.1	21.5	22.5	22.8	20.0	21.0	20.4	21.3	21.7
	4H	21.2	22.1	21.6	22.5	22.9	20.1	21.1	20.5	21.4	21.8
	6H	21.2	22.1	21.7	22.4	22.8	20.3	21.1	20.7	21.5	21.9
	8H	21.3	22.0	21.7	22.4	22.8	20.4	21.1	20.8	21.5	21.9
	12H	21.3	21.9	21.7	22.3	22.7	20.4	21.1	20.8	21.4	21.9
4H	2H	20.9	21.9	21.3	22.2	22.6	19.9	20.8	20.3	21.2	21.6
	3H	21.3	22.0	21.7	22.4	22.8	20.3	21.1	20.7	21.5	21.9
	4H	21.4	22.1	21.8	22.5	22.9	20.5	21.2	20.9	21.6	22.0
	6H	21.4	22.0	21.9	22.5	22.9	20.7	21.3	21.1	21.7	22.2
	8H	21.4	21.9	21.9	22.4	22.9	20.8	21.3	21.2	21.7	22.2
	12H	21.4	21.8	21.9	22.3	22.8	20.8	21.2	21.3	21.7	22.2
8H	4H	21.4	21.9	21.8	22.3	22.8	20.5	21.0	21.0	21.5	21.9
	6H	21.4	21.9	21.9	22.3	22.9	20.7	21.2	21.2	21.6	22.1
	8H	21.4	21.8	21.9	22.3	22.8	20.8	21.2	21.3	21.7	22.2
	12H	21.4	21.7	21.9	22.2	22.7	20.9	21.2	21.4	21.7	22.3
12H	4H	21.3	21.8	21.8	22.2	22.7	20.5	20.9	21.0	21.4	21.9
	6H	21.4	21.8	21.9	22.3	22.8	20.7	21.1	21.2	21.6	22.1
	8H	21.4	21.7	21.9	22.2	22.8	20.8	21.1	21.3	21.6	22.2

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°	42046.7	40643.0	38812.1	36384.5	34041.7	31814.7	31102.5
50,0°	31521.0	30423.7	29135.1	27405.2	25350.3	23370.8	22709.2
55,0°	22871.8	22252.6	21481.6	20365.8	18797.0	17157.5	16467.9
60,0°	15692.6	15709.6	16001.8	15288.2	14379.1	12973.1	12325.6
65,0°	12048.4	11845.2	12113.8	11917.8	11665.9	10483.8	9909.8
70,0°	9334.7	9222.3	9907.4	9356.1	9709.4	8938.7	8542.6
75,0°	8183.2	7679.9	7697.3	7593.3	7834.0	8168.7	8154.1
80,0°	5970.1	5748.5	5561.0	5661.6	6326.1	7682.4	7838.7
85,0°	2209.4	2182.4	2282.5	2580.4	3961.3	5832.3	6609.4

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LP number
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Luminance values in cd/m²

γ 65°

γ 70°

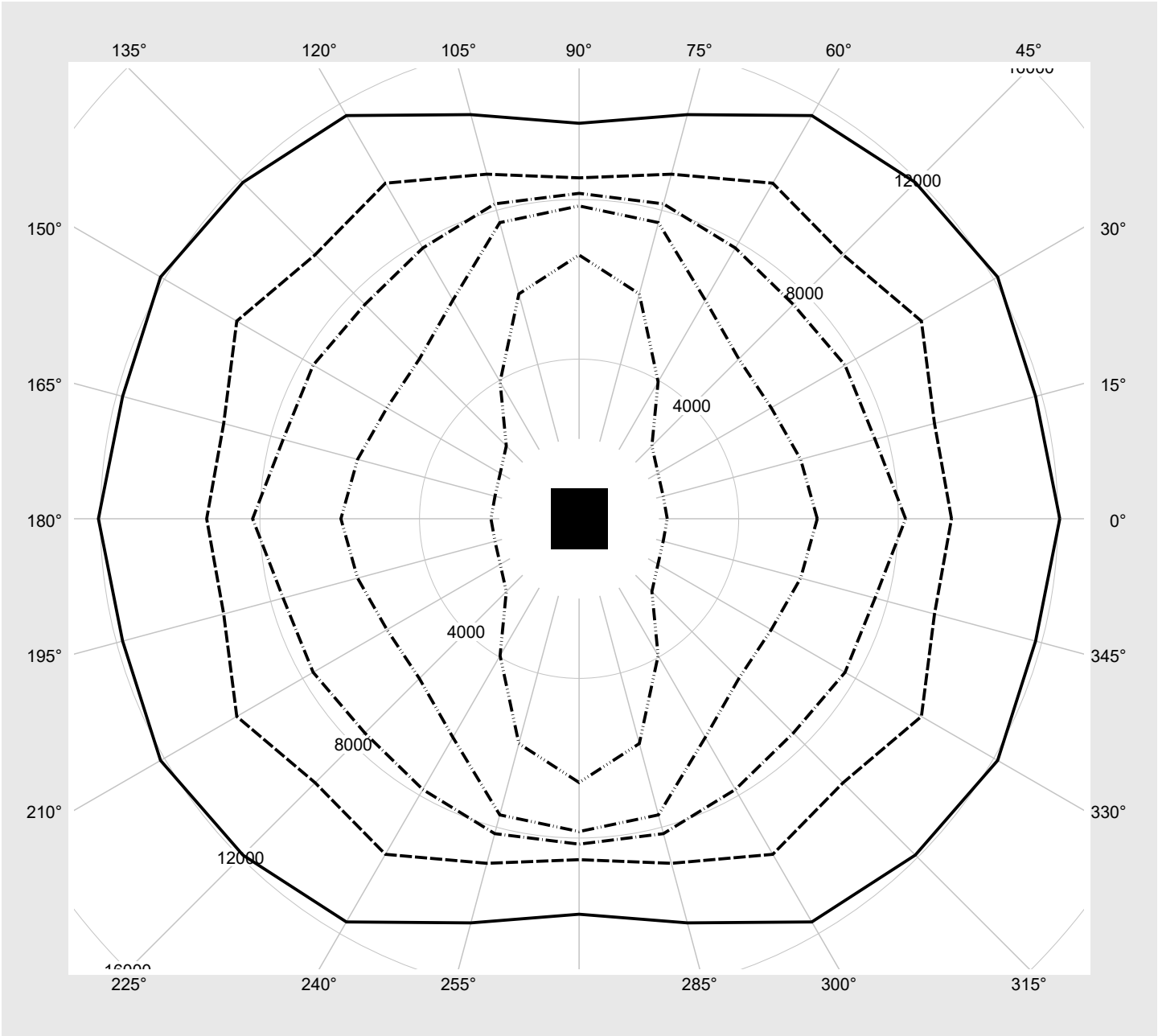
γ 75°

γ 80°

γ 85°

sit

eco



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Family Highbay 11	Order number: 51HN11DA6LLA EAN: 4069025424228	LP number 59711_392
Dimming levels table		environmental temperature: 25°C
		siteco

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	26540	146.7
95	240	252	25204	138.3
90	226	250	23841	129.7
85	213	248	22569	121.9
80	199	245	21187	113.6
75	186	243	19894	105.9
70	173	240	18588	98.3
65	160	237	17272	90.7
60	147	234	15936	83.1
55	134	231	14598	75.6
50	121	227	13240	68.3
45	109	223	11975	61.5
40	96	218	10598	54.0
35	84	213	9309	47.3
30	72	208	8012	40.6
25	59	201	6590	33.5
20	47	192	5267	27.0
15	35	181	3927	20.6
10	24	168	2691	14.6
5	12	142	1328	7.8
2	5	110	525	3.9