

Photometric test report

Family Highbay 11	Order number 51HN11DB4RLA01	LP number 59711_359
	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 = 42500 lm Power consumption = 214.2 W Luminous efficacy = 198.4 lm/W
		serial documentation 20.03.2025
		



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

Photometric test report

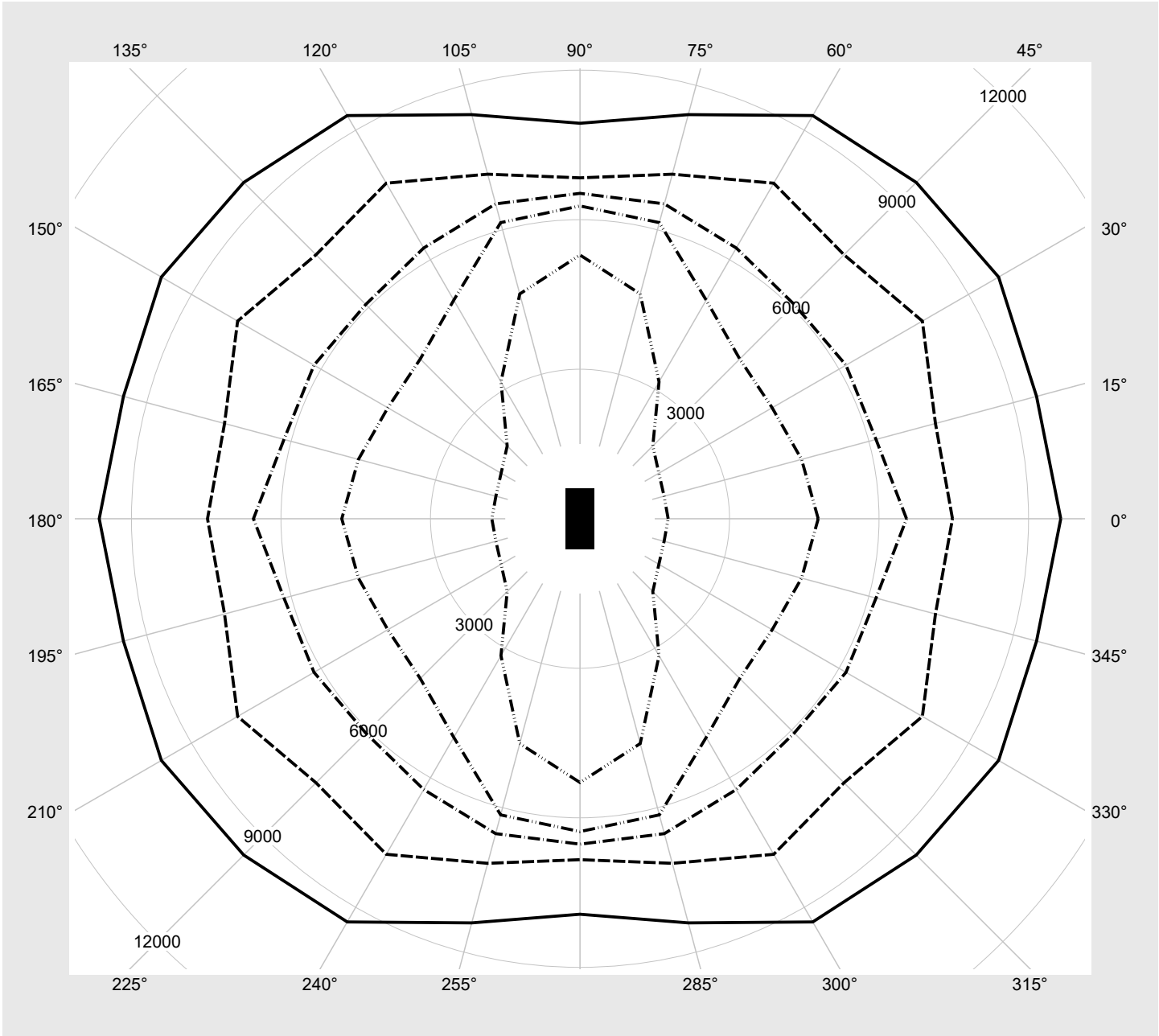
Family Highbay 11			Order number 51HN11DB4RLA01							LP number 59711_359	
UGR-Table			Standard room							siteco	
Reflection factor of ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
Reflection factor of walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
Reflection factor of floor	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions		View crosswise (C0)					View endwise (C90)				
x	y										
2H	2H	20.1	21.3	20.5	21.6	21.9	18.9	20.1	19.3	20.4	20.7
	3H	20.3	21.4	20.7	21.7	22.1	19.2	20.2	19.6	20.6	20.9
	4H	20.4	21.4	20.8	21.7	22.1	19.3	20.3	19.7	20.6	21.0
	6H	20.5	21.3	20.9	21.7	22.1	19.5	20.3	19.9	20.7	21.1
	8H	20.5	21.2	21.0	21.6	22.0	19.6	20.3	20.0	20.7	21.1
	12H	20.5	21.1	20.9	21.5	22.0	19.6	20.3	20.0	20.7	21.1
4H	2H	20.2	21.1	20.6	21.5	21.8	19.1	20.0	19.5	20.4	20.8
	3H	20.5	21.3	20.9	21.7	22.1	19.5	20.3	19.9	20.7	21.1
	4H	20.6	21.3	21.0	21.7	22.1	19.7	20.4	20.1	20.8	21.2
	6H	20.7	21.3	21.1	21.7	22.2	19.9	20.5	20.4	20.9	21.4
	8H	20.7	21.2	21.1	21.6	22.1	20.0	20.5	20.5	20.9	21.4
	12H	20.7	21.1	21.1	21.5	22.0	20.0	20.5	20.5	20.9	21.4
8H	4H	20.6	21.1	21.1	21.6	22.0	19.7	20.2	20.2	20.7	21.2
	6H	20.7	21.1	21.2	21.6	22.1	20.0	20.4	20.5	20.9	21.4
	8H	20.6	21.0	21.2	21.5	22.0	20.1	20.4	20.6	20.9	21.4
	12H	20.6	20.9	21.1	21.4	22.0	20.1	20.4	20.7	20.9	21.5
12H	4H	20.6	21.0	21.1	21.5	22.0	19.7	20.1	20.2	20.6	21.1
	6H	20.6	21.0	21.2	21.5	22.0	19.9	20.3	20.5	20.8	21.3
	8H	20.6	20.9	21.2	21.4	22.0	20.0	20.3	20.6	20.8	21.4

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°	33665.9	32541.9	31076.0	29132.3	27256.4	25473.3	24903.1
50,0°	25238.2	24359.6	23327.8	21942.7	20297.5	18712.5	18182.8
55,0°	18313.0	17817.2	17199.8	16306.4	15050.4	13737.6	13185.5
60,0°	12564.8	12578.4	12812.3	12240.9	11513.1	10387.3	9868.8
65,0°	9646.9	9484.2	9699.2	9542.3	9340.7	8394.2	7934.5
70,0°	7474.1	7384.1	7932.6	7491.2	7774.1	7157.0	6839.9
75,0°	6552.1	6149.2	6163.0	6079.8	6272.5	6540.5	6528.8
80,0°	4780.1	4602.7	4452.6	4533.1	5065.2	6151.1	6276.3
85,0°	1769.0	1747.4	1827.6	2066.1	3171.7	4669.8	5292.0

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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	42500	214.2
95	240	252	40311	202.0
90	227	250	38258	190.5
85	214	248	36193	179.3
80	200	245	33955	167.2
75	187	243	31858	156.0
70	174	240	29749	144.9
65	161	237	27625	133.8
60	148	234	25488	123.0
55	135	231	23337	112.1
50	122	227	21171	101.3
45	110	223	19157	91.3
40	97	219	16955	80.6
35	85	214	14901	70.8
30	73	208	12834	61.2
25	60	201	10579	50.6
20	48	193	8469	41.0
15	36	182	6345	31.6
10	24	168	4202	22.2
5	12	142	2034	12.5
1	4	102	581	5.9