

Photometric test report

Family Highbay 11	Order number: 51HN11DB4XLA EAN: 4069025358240	LP number 59711_232
	Version	primary light control with lens, PMMA, housing, white, for Licross® rail, narrow distribution
	Lamps	LED 4000 K CRI ≥ 80
	Controlgear	ECG-DALI
	Rated values	Net luminous flux = 70000 lm Power consumption = 372.9 W Luminous efficacy = 187.7 lm/W
		serial documentation 14.02.2025
		



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	21.8	23.0	22.2	23.3	23.6	20.6	21.8	21.0	22.1	22.5
	3H	22.1	23.1	22.5	23.4	23.8	20.9	22.0	21.3	22.3	22.7
	4H	22.2	23.1	22.6	23.4	23.8	21.1	22.0	21.5	22.4	22.8
	6H	22.2	23.0	22.6	23.4	23.8	21.2	22.1	21.6	22.4	22.8
	8H	22.3	23.0	22.7	23.4	23.8	21.3	22.1	21.8	22.4	22.8
	12H	22.2	22.9	22.7	23.3	23.7	21.3	22.0	21.8	22.4	22.8
4H	2H	21.9	22.8	22.3	23.2	23.6	20.8	21.8	21.2	22.1	22.5
	3H	22.2	23.0	22.6	23.4	23.8	21.2	22.0	21.7	22.4	22.8
	4H	22.3	23.0	22.8	23.4	23.9	21.4	22.1	21.9	22.5	23.0
	6H	22.4	23.0	22.9	23.4	23.9	21.6	22.2	22.1	22.7	23.1
	8H	22.4	22.9	22.9	23.4	23.8	21.7	22.2	22.2	22.7	23.2
	12H	22.4	22.8	22.9	23.3	23.8	21.8	22.2	22.3	22.7	23.2
8H	4H	22.3	22.8	22.8	23.3	23.8	21.5	22.0	21.9	22.4	22.9
	6H	22.4	22.8	22.9	23.3	23.8	21.7	22.1	22.2	22.6	23.1
	8H	22.4	22.8	22.9	23.2	23.8	21.8	22.2	22.3	22.6	23.2
	12H	22.4	22.7	22.9	23.2	23.7	21.9	22.2	22.4	22.7	23.2
12H	4H	22.3	22.7	22.8	23.2	23.7	21.5	21.9	21.9	22.3	22.8
	6H	22.4	22.7	22.9	23.2	23.8	21.7	22.0	22.2	22.5	23.0
	8H	22.4	22.7	22.9	23.2	23.7	21.8	22.1	22.3	22.6	23.1

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°	55449.6	53598.5	51184.0	47982.6	44893.0	41956.0	41016.8
50,0°	41568.8	40121.7	38422.3	36140.9	33431.1	30820.5	29948.1
55,0°	30162.5	29345.9	28329.2	26857.7	24788.8	22626.6	21717.3
60,0°	20694.9	20717.3	21102.6	20161.5	18962.7	17108.5	16254.5
65,0°	15889.0	15621.0	15975.2	15716.7	15384.6	13825.7	13068.7
70,0°	12310.3	12162.0	13065.5	12338.5	12804.4	11788.0	11265.7
75,0°	10791.8	10128.0	10150.9	10013.8	10331.2	10772.5	10753.3
80,0°	7873.1	7581.0	7333.6	7466.3	8342.6	10131.3	10337.4
85,0°	2913.7	2878.0	3010.1	3402.9	5224.0	7691.4	8716.2

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LP number
59711_232

Luminance values in cd/m²

γ 65°

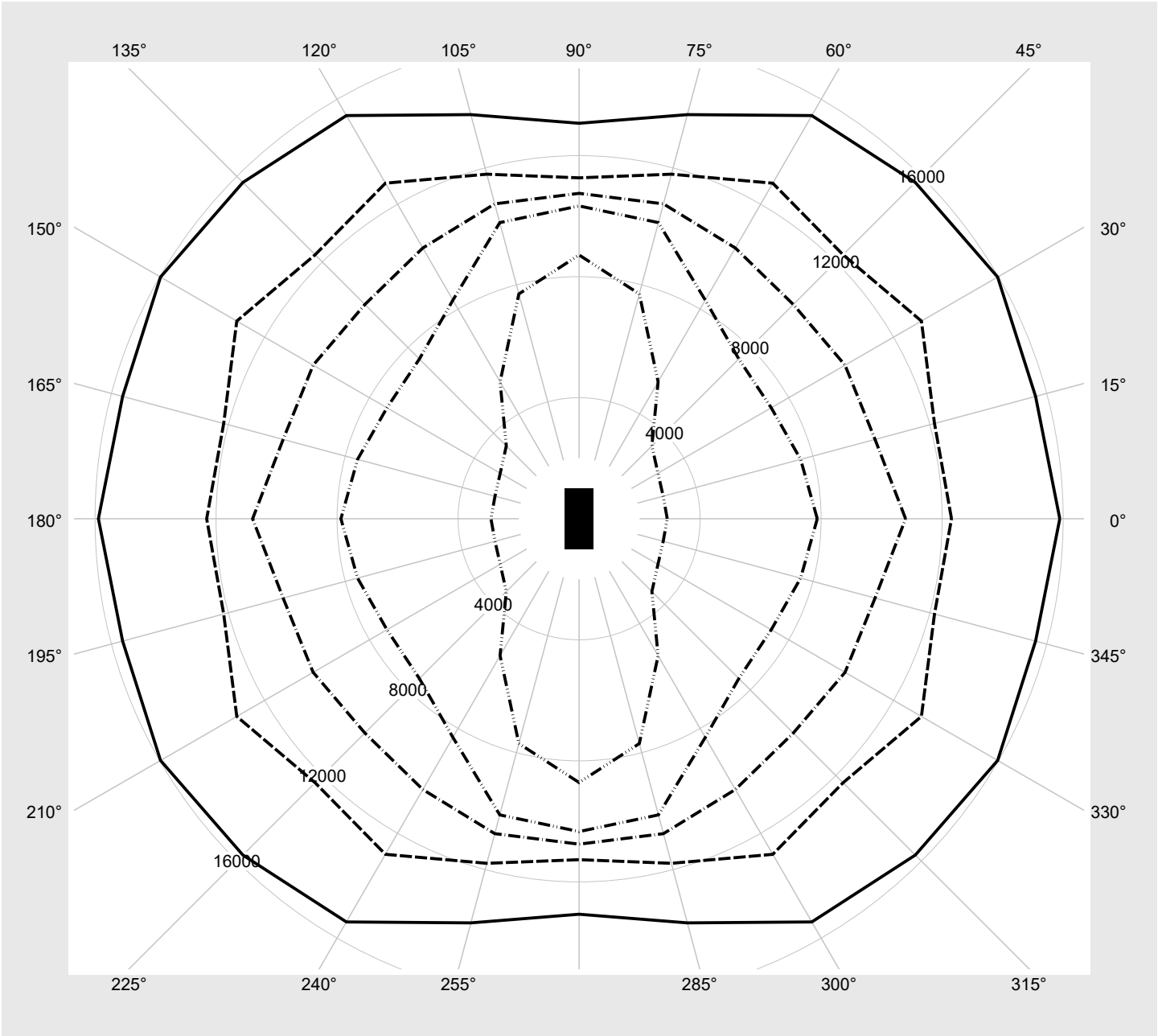
γ 70°

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	----	----	----	----
100	253	254	69758	371.3
95	240	252	66566	351.4
90	226	250	63015	330.0
85	212	247	59449	308.4
80	199	245	56081	288.9
75	185	242	52405	267.7
70	172	240	48969	248.2
65	159	237	45495	228.9
60	146	234	41989	209.6
55	133	230	38453	190.8
50	120	227	34878	172.0
45	108	223	31574	154.8
40	95	218	27928	136.2
35	83	213	24535	119.3
30	71	207	21097	102.2
25	59	201	17633	85.6
20	47	192	14117	69.3
15	35	181	10546	52.9
10	23	166	6925	36.8
5	12	142	3575	21.4
2	5	110	1412	11.4