

Photometric test report

Family Highbay 11	Order number: 51HN11DB4WLA EAN: 4069025358226	LP number 59711_231
	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 = 63000 lm Power consumption = 329.9 W Luminous efficacy = 191 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

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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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	21.5	22.6	21.8	23.0	23.3	20.3	21.5	20.6	21.8	22.1
	3H	21.7	22.7	22.1	23.1	23.4	20.6	21.6	21.0	21.9	22.3
	4H	21.8	22.7	22.2	23.1	23.5	20.7	21.7	21.1	22.0	22.4
	6H	21.8	22.7	22.3	23.0	23.4	20.9	21.7	21.3	22.1	22.5
	8H	21.9	22.6	22.3	23.0	23.4	21.0	21.7	21.4	22.1	22.5
	12H	21.9	22.5	22.3	22.9	23.3	21.0	21.6	21.4	22.0	22.5
4H	2H	21.5	22.5	21.9	22.8	23.2	20.5	21.4	20.9	21.8	22.1
	3H	21.9	22.6	22.3	23.0	23.4	20.9	21.7	21.3	22.0	22.5
	4H	22.0	22.7	22.4	23.1	23.5	21.1	21.8	21.5	22.2	22.6
	6H	22.0	22.6	22.5	23.1	23.5	21.3	21.9	21.7	22.3	22.8
	8H	22.0	22.5	22.5	23.0	23.5	21.3	21.9	21.8	22.3	22.8
	12H	22.0	22.4	22.5	22.9	23.4	21.4	21.8	21.9	22.3	22.8
8H	4H	22.0	22.5	22.4	22.9	23.4	21.1	21.6	21.6	22.1	22.5
	6H	22.0	22.5	22.5	22.9	23.4	21.3	21.7	21.8	22.2	22.7
	8H	22.0	22.4	22.5	22.9	23.4	21.4	21.8	21.9	22.3	22.8
	12H	22.0	22.3	22.5	22.8	23.3	21.5	21.8	22.0	22.3	22.9
12H	4H	21.9	22.4	22.4	22.8	23.3	21.1	21.5	21.6	22.0	22.5
	6H	22.0	22.4	22.5	22.9	23.4	21.3	21.7	21.8	22.1	22.7
	8H	22.0	22.3	22.5	22.8	23.4	21.4	21.7	21.9	22.2	22.8

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°	49904.7	48238.6	46065.6	43184.3	40403.7	37760.4	36915.2	
50,0°	37411.9	36109.5	34580.1	32526.8	30088.0	27738.5	26953.3	
55,0°	27146.3	26411.3	25496.2	24171.9	22309.9	20364.0	19545.6	
60,0°	18625.4	18645.6	18992.3	18145.3	17066.4	15397.6	14629.1	
65,0°	14300.1	14058.9	14377.7	14145.0	13846.1	12443.1	11761.8	
70,0°	11079.3	10945.8	11759.0	11104.7	11523.9	10609.2	10139.1	
75,0°	9712.6	9115.2	9135.8	9012.4	9298.1	9695.3	9678.0	
80,0°	7085.8	6822.9	6600.3	6719.6	7508.4	9118.1	9303.6	
85,0°	2622.4	2590.2	2709.1	3062.6	4701.6	6922.2	7844.6	

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LP number
59711_231

Luminance values in cd/m²

γ 65°

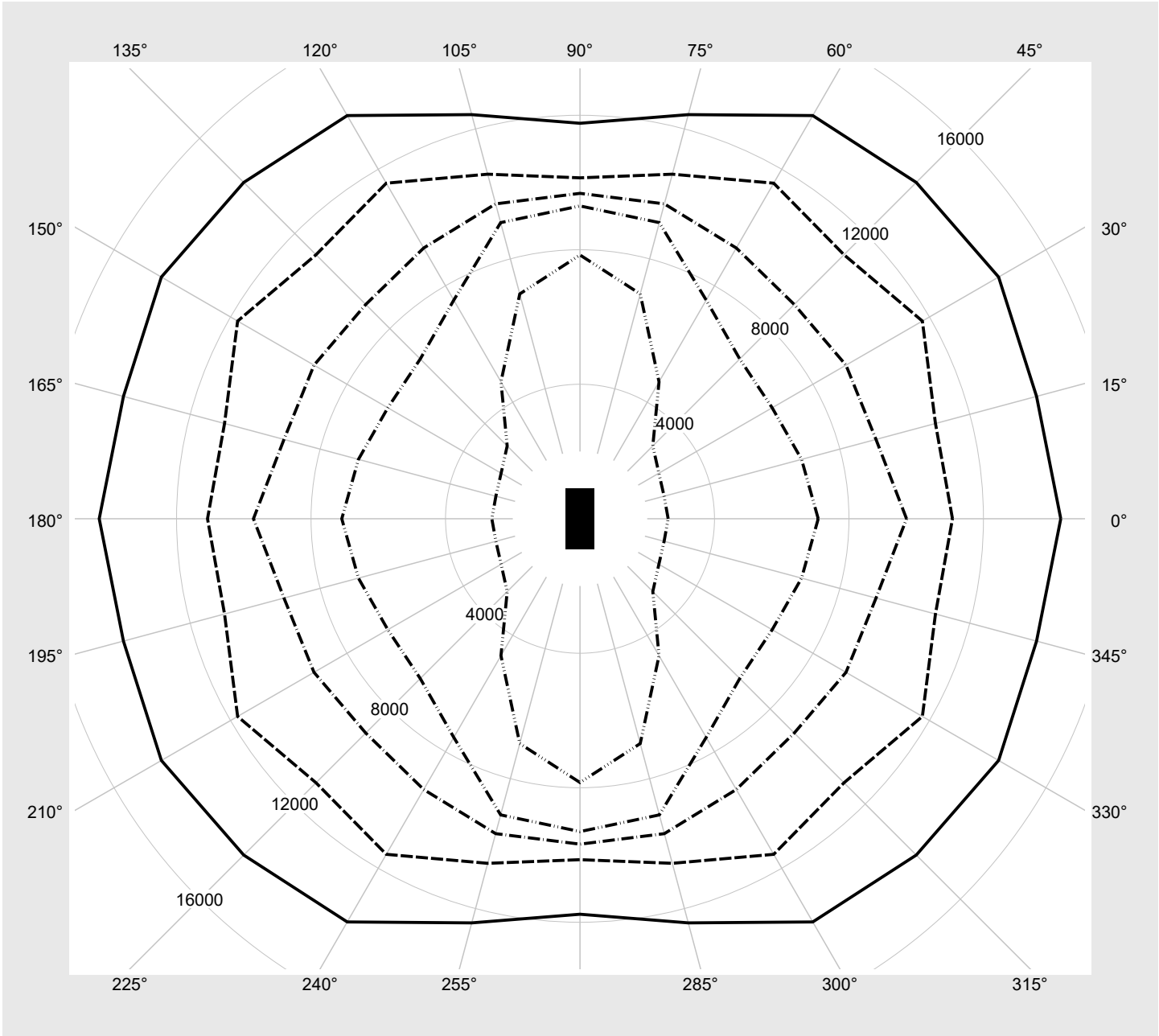
γ 70°

γ 75°

γ 80°

γ 85°

siteco



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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	63000	329.9
95	240	252	59842	310.6
90	226	250	56597	291.9
85	213	248	53578	274.3
80	199	245	50295	255.6
75	186	243	47218	238.5
70	173	240	44117	221.4
65	160	237	40978	204.4
60	147	234	37842	187.6
55	134	231	34659	170.8
50	121	227	31475	154.3
45	108	223	28230	137.7
40	96	218	25216	122.6
35	84	213	22170	107.5
30	71	207	18840	91.4
25	59	201	15720	76.8
20	47	192	12573	62.2
15	35	181	9389	47.8
10	24	168	6424	34.5
5	12	142	3162	19.5
2	5	110	1243	10.6