

Photometric test report

Family Highbay 11	Order number: 51HN11DB4MLA EAN: 4069025358172	LP number 59711_230
	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 = 30000 lm Power consumption = 146.5 W Luminous efficacy = 204.8 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	18.9	20.1	19.3	20.4	20.7	17.7	18.9	18.1	19.2	19.5
	3H	19.1	20.2	19.5	20.5	20.9	18.0	19.0	18.4	19.4	19.7
	4H	19.2	20.1	19.6	20.5	20.9	18.1	19.1	18.5	19.4	19.8
	6H	19.3	20.1	19.7	20.5	20.9	18.3	19.1	18.7	19.5	19.9
	8H	19.3	20.0	19.7	20.4	20.8	18.4	19.1	18.8	19.5	19.9
	12H	19.3	19.9	19.7	20.3	20.7	18.4	19.1	18.8	19.5	19.9
4H	2H	19.0	19.9	19.4	20.3	20.6	17.9	18.8	18.3	19.2	19.6
	3H	19.3	20.1	19.7	20.4	20.9	18.3	19.1	18.7	19.5	19.9
	4H	19.4	20.1	19.8	20.5	20.9	18.5	19.2	18.9	19.6	20.0
	6H	19.5	20.0	19.9	20.5	20.9	18.7	19.3	19.2	19.7	20.2
	8H	19.5	20.0	19.9	20.4	20.9	18.8	19.3	19.2	19.7	20.2
	12H	19.4	19.9	19.9	20.3	20.8	18.8	19.3	19.3	19.7	20.2
8H	4H	19.4	19.9	19.9	20.3	20.8	18.5	19.0	19.0	19.5	20.0
	6H	19.5	19.9	20.0	20.4	20.9	18.8	19.2	19.3	19.6	20.2
	8H	19.4	19.8	19.9	20.3	20.8	18.8	19.2	19.4	19.7	20.2
	12H	19.4	19.7	19.9	20.2	20.8	18.9	19.2	19.4	19.7	20.3
12H	4H	19.4	19.8	19.9	20.3	20.8	18.5	18.9	19.0	19.4	19.9
	6H	19.4	19.8	20.0	20.3	20.8	18.7	19.1	19.3	19.6	20.1
	8H	19.4	19.7	19.9	20.2	20.8	18.8	19.1	19.4	19.6	20.2

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°	23764.1	22970.8	21936.0	20564.0	19239.8	17981.2	17578.6
50,0°	17815.2	17195.0	16466.7	15489.0	14327.6	13208.8	12834.9
55,0°	12926.8	12576.8	12141.1	11510.4	10623.8	9697.1	9307.4
60,0°	8869.2	8878.8	9044.0	8640.6	8126.9	7332.2	6966.2
65,0°	6809.6	6694.7	6846.5	6735.7	6593.4	5925.3	5600.9
70,0°	5275.8	5212.3	5599.5	5287.9	5487.6	5052.0	4828.2
75,0°	4625.0	4340.6	4350.4	4291.6	4427.7	4616.8	4608.6
80,0°	3374.2	3249.0	3143.0	3199.8	3575.4	4342.0	4430.3
85,0°	1248.7	1233.4	1290.1	1458.4	2238.9	3296.3	3735.5

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LP number
59711_230

Luminance values in cd/m²

γ 65°

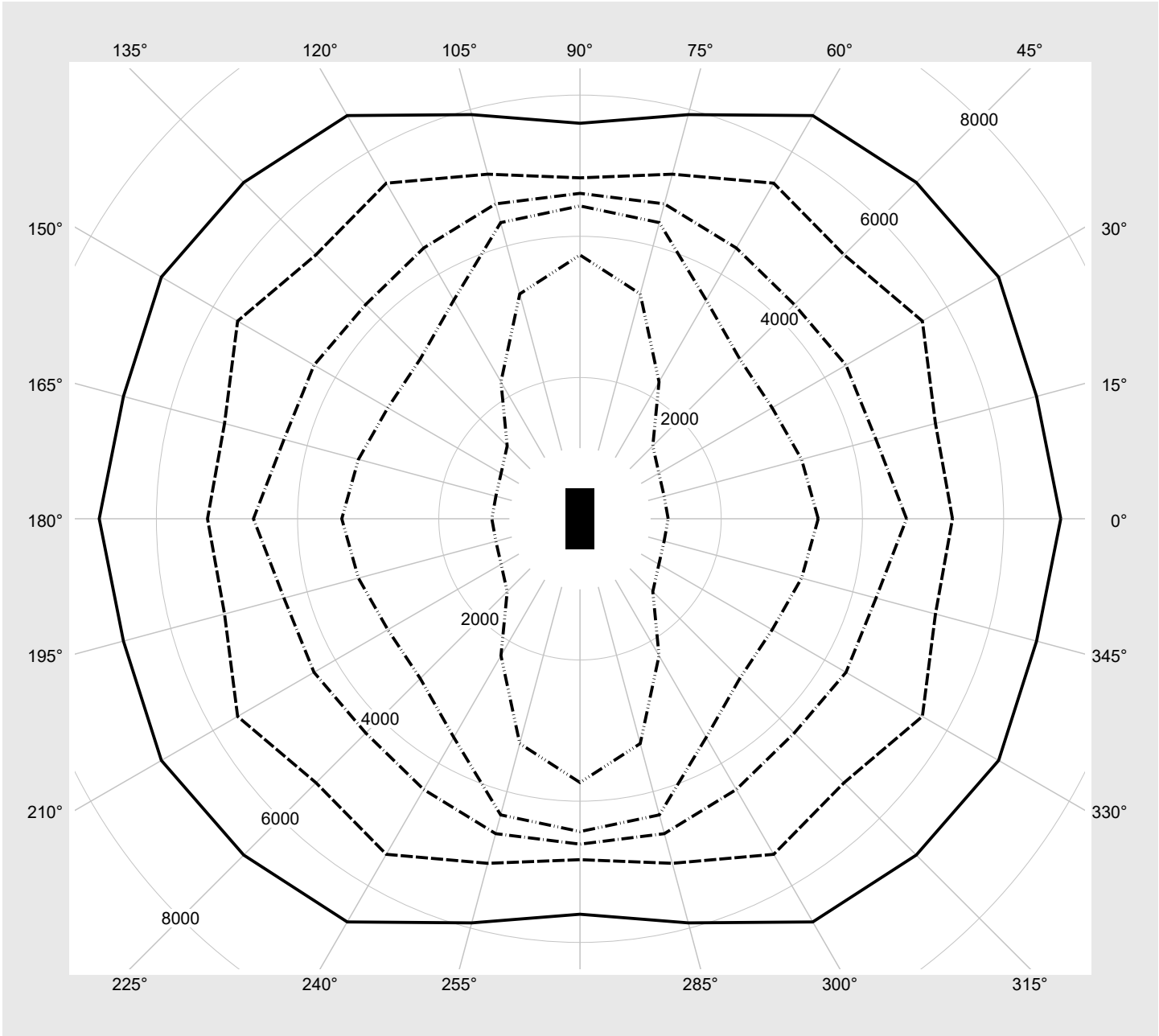
γ 70°

γ 75°

γ 80°

γ 85°

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Family Highbay 11	Order number: 51HN11DB4MLA EAN: 4069025358172	LP number 59711_230
Dimming levels table		environmental temperature: 25°C



Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	30000	146.5
95	241	252	28538	138.7
90	227	250	26952	130.4
85	214	248	25476	122.7
80	201	245	23987	115.0
75	188	243	22496	107.5
70	175	240	20989	99.9
65	162	238	19482	92.3
60	149	234	17966	84.8
55	137	231	16558	77.9
50	124	228	15025	70.5
45	111	224	13477	63.0
40	99	219	12044	56.3
35	86	214	10478	48.9
30	74	209	9026	42.2
25	62	202	7560	35.5
20	49	194	5966	28.5
15	37	183	4482	21.8
10	25	169	2992	15.3
5	13	145	1488	8.4
2	5	110	482	3.9