

Photometric test report

Family Highbay 11	Order number: 51HN11DA4MLA EAN: 4069025231376	LP number 59711_43
	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 = 28000 lm Power consumption = 146.6 W Luminous efficacy = 191 lm/W
		serial documentation 29.01.2025
		



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	21.1	22.2	21.4	22.5	22.9	19.9	21.1	20.2	21.4	21.7
	3H	21.3	22.3	21.7	22.7	23.0	20.2	21.2	20.5	21.5	21.9
	4H	21.4	22.3	21.8	22.7	23.0	20.3	21.2	20.7	21.6	22.0
	6H	21.4	22.3	21.8	22.6	23.0	20.4	21.3	20.9	21.7	22.1
	8H	21.5	22.2	21.9	22.6	23.0	20.6	21.3	21.0	21.7	22.1
	12H	21.4	22.1	21.9	22.5	22.9	20.6	21.2	21.0	21.6	22.1
4H	2H	21.1	22.1	21.5	22.4	22.8	20.1	21.0	20.5	21.4	21.7
	3H	21.4	22.2	21.9	22.6	23.0	20.5	21.2	20.9	21.6	22.1
	4H	21.6	22.2	22.0	22.7	23.1	20.7	21.4	21.1	21.8	22.2
	6H	21.6	22.2	22.1	22.6	23.1	20.9	21.4	21.3	21.9	22.4
	8H	21.6	22.1	22.1	22.6	23.1	20.9	21.5	21.4	21.9	22.4
	12H	21.6	22.0	22.1	22.5	23.0	21.0	21.4	21.5	21.9	22.4
8H	4H	21.5	22.1	22.0	22.5	23.0	20.7	21.2	21.2	21.6	22.1
	6H	21.6	22.0	22.1	22.5	23.0	20.9	21.3	21.4	21.8	22.3
	8H	21.6	22.0	22.1	22.5	23.0	21.0	21.4	21.5	21.9	22.4
	12H	21.6	21.9	22.1	22.4	22.9	21.1	21.4	21.6	21.9	22.4
12H	4H	21.5	22.0	22.0	22.4	22.9	20.7	21.1	21.2	21.6	22.1
	6H	21.6	22.0	22.1	22.4	23.0	20.9	21.2	21.4	21.7	22.3
	8H	21.6	21.9	22.1	22.4	22.9	21.0	21.3	21.5	21.8	22.4

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°	44359.7	42878.8	40947.2	38386.1	35914.4	33564.8	32813.5	
50,0°	33255.1	32097.3	30737.8	28912.7	26744.9	24656.4	23958.5	
55,0°	24130.0	23476.8	22663.3	21486.1	19831.1	18101.3	17373.8	
60,0°	16555.9	16573.8	16882.1	16129.2	15170.2	13686.8	13003.6	
65,0°	12711.2	12496.8	12780.1	12573.4	12307.7	11060.5	10454.9	
70,0°	9848.2	9729.6	10452.4	9870.8	10243.5	9430.4	9012.6	
75,0°	8633.4	8102.4	8120.7	8011.0	8265.0	8618.0	8602.6	
80,0°	6298.5	6064.8	5866.9	5973.0	6674.1	8105.0	8269.9	
85,0°	2331.0	2302.4	2408.1	2722.3	4179.2	6153.1	6972.9	

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LP number
59711_43

Luminance values in cd/m²

γ 65°

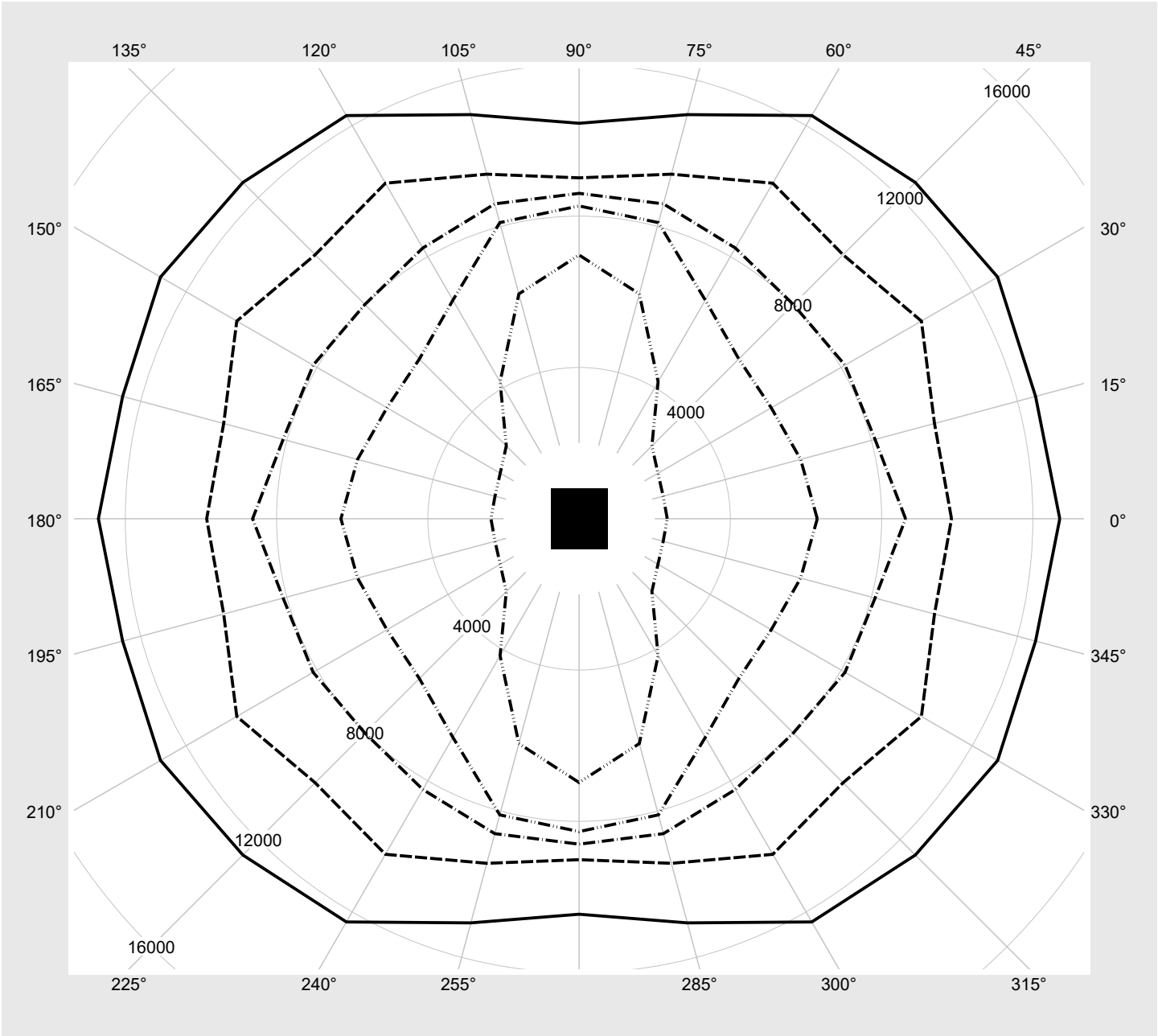
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table		environmental temperature: 25°C

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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	----	----	----	----
95	240	252	26584	138.2
90	227	250	25246	130.3
85	213	248	23796	121.9
80	200	245	22443	114.2
75	186	243	20975	105.9
70	173	240	19598	98.3
65	160	237	18213	90.7
60	147	234	16807	83.1
55	134	231	15399	75.7
50	121	227	13971	68.3
45	109	223	12641	61.5
40	96	218	11192	54.1
35	84	213	9836	47.3
30	71	207	8355	40.2
25	59	201	6969	33.5
20	47	192	5572	27.0
15	35	181	4154	20.6
10	24	168	2843	14.6
5	12	142	1395	7.8
2	5	110	539	3.9