

Photometric test report

Family Highbay 11	Order number: 51HN11DB5QLA EAN: 4069025424396	LP number 59711_397
	Version	primary light control with lens, PMMA, housing, white, for Licross® rail, narrow distribution
	Lamps	LED 5000 K CRI ≥ 80
	Controlgear	ECG-DALI
	Rated values	Net luminous flux = 35850 lm Power consumption = 177.7 W Luminous efficacy = 201.7 lm/W
		serial documentation 09.04.2025
		



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	19.5	20.7	19.9	21.0	21.3	18.3	19.5	18.7	19.8	20.1
	3H	19.8	20.8	20.1	21.1	21.5	18.6	19.6	19.0	20.0	20.3
	4H	19.8	20.8	20.2	21.1	21.5	18.8	19.7	19.1	20.1	20.4
	6H	19.9	20.7	20.3	21.1	21.5	18.9	19.7	19.3	20.1	20.5
	8H	19.9	20.6	20.4	21.0	21.4	19.0	19.7	19.4	20.1	20.5
	12H	19.9	20.6	20.3	20.9	21.4	19.0	19.7	19.4	20.1	20.5
4H	2H	19.6	20.5	20.0	20.9	21.2	18.5	19.5	18.9	19.8	20.2
	3H	19.9	20.7	20.3	21.1	21.5	18.9	19.7	19.4	20.1	20.5
	4H	20.0	20.7	20.5	21.1	21.6	19.1	19.8	19.6	20.2	20.7
	6H	20.1	20.7	20.5	21.1	21.6	19.3	19.9	19.8	20.3	20.8
	8H	20.1	20.6	20.6	21.0	21.5	19.4	19.9	19.9	20.4	20.8
	12H	20.1	20.5	20.6	21.0	21.5	19.4	19.9	19.9	20.3	20.8
8H	4H	20.0	20.5	20.5	21.0	21.4	19.1	19.6	19.6	20.1	20.6
	6H	20.1	20.5	20.6	21.0	21.5	19.4	19.8	19.9	20.3	20.8
	8H	20.1	20.4	20.6	20.9	21.5	19.5	19.8	20.0	20.3	20.9
	12H	20.0	20.3	20.6	20.8	21.4	19.5	19.8	20.1	20.3	20.9
12H	4H	20.0	20.4	20.5	20.9	21.4	19.1	19.5	19.6	20.0	20.5
	6H	20.1	20.4	20.6	20.9	21.4	19.4	19.7	19.9	20.2	20.7
	8H	20.0	20.3	20.6	20.8	21.4	19.5	19.8	20.0	20.3	20.8

Luminance table		Max. for $\gamma \geq 65^\circ$					Photometric dimensions in mm:		L = 852 B = 264	
C-planes	γ	0°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°		
		180°							Luminance in cd/m²	
45,0°		28398.1	27450.1	26213.5	24573.9	22991.6	21487.5	21006.5		
50,0°		21289.2	20548.0	19677.7	18509.3	17121.5	15784.5	15337.7		
55,0°		15447.5	15029.3	14508.6	13755.0	12695.4	11588.1	11122.3		
60,0°		10598.7	10610.2	10807.5	10325.6	9711.6	8762.0	8324.6		
65,0°		8137.5	8000.2	8181.6	8049.2	7879.1	7080.7	6693.0		
70,0°		6304.6	6228.7	6691.4	6319.1	6557.7	6037.1	5769.7		
75,0°		5526.9	5187.0	5198.7	5128.5	5291.1	5517.1	5507.2		
80,0°		4032.1	3882.5	3755.9	3823.8	4272.6	5188.7	5294.2		
85,0°		1492.2	1474.0	1541.6	1742.8	2675.4	3939.1	4463.9		

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Luminance values in cd/m²

γ 65°

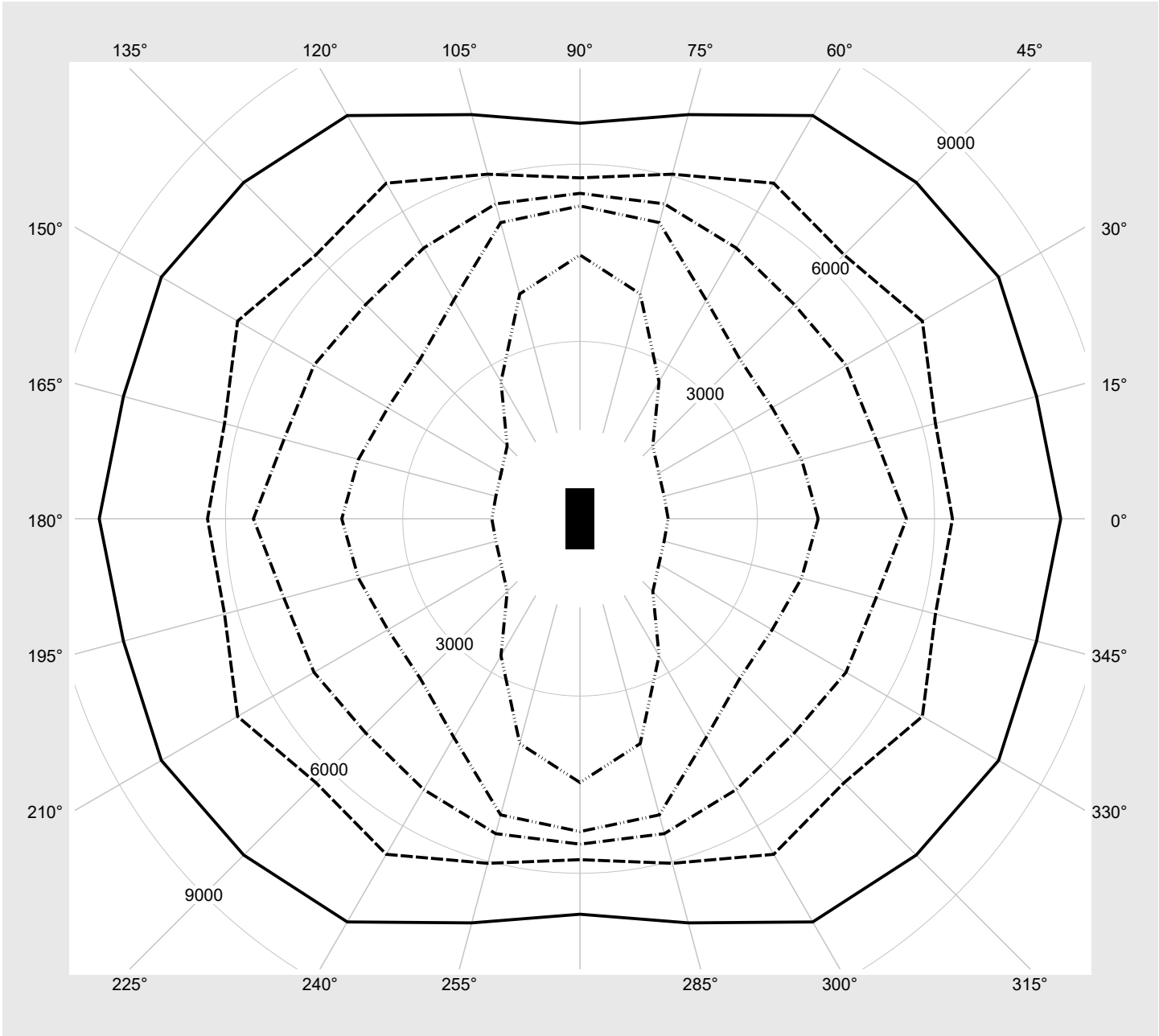
γ 70°

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	35850	177.7
95	241	252	34114	168.3
90	227	250	32233	158.2
85	214	248	30480	149.0
80	201	245	28708	139.6
75	188	243	26932	130.5
70	175	240	25145	121.2
65	162	238	23352	112.2
60	149	234	21544	103.1
55	136	231	19731	94.1
50	123	227	17899	85.1
45	111	224	16192	76.9
40	98	219	14334	68.0
35	86	214	12609	59.9
30	73	208	10728	51.0
25	61	202	8970	43.0
20	49	194	7205	35.1
15	37	183	5426	27.2
10	25	169	3634	19.3
5	13	145	1824	11.1
1	4	102	461	4.8