

Photometric test report

Family Highbay 11	Order number: 51HN11DBDSDA EAN: 4069025444943	LP number 59711_456
	Version	primary light control with lens, PMMA, housing, white, narrow distribution
	Lamps	LED 4000 K CRI ≥ 90
	Controlgear	ECG-DALI
	Setting	AC-mode
	Rated values	Net luminous flux = 47700 lm Power consumption = 293.9 W Luminous efficacy = 162.3 lm/W
		serial documentation 26.05.2025
		



Classifications		Luminaire light output ratios	
DIN 5040	A 7 0	ηLB	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	20.5	21.7	20.9	22.0	22.3	19.3	20.5	19.7	20.8	21.1
	3H	20.7	21.8	21.1	22.1	22.5	19.6	20.6	20.0	21.0	21.3
	4H	20.8	21.8	21.2	22.1	22.5	19.7	20.7	20.1	21.0	21.4
	6H	20.9	21.7	21.3	22.1	22.5	19.9	20.7	20.3	21.1	21.5
	8H	20.9	21.6	21.4	22.0	22.4	20.0	20.7	20.4	21.1	21.5
	12H	20.9	21.5	21.3	21.9	22.4	20.0	20.7	20.4	21.1	21.5
4H	2H	20.6	21.5	21.0	21.9	22.2	19.5	20.5	19.9	20.8	21.2
	3H	20.9	21.7	21.3	22.1	22.5	19.9	20.7	20.3	21.1	21.5
	4H	21.0	21.7	21.4	22.1	22.5	20.1	20.8	20.5	21.2	21.7
	6H	21.1	21.7	21.5	22.1	22.6	20.3	20.9	20.8	21.3	21.8
	8H	21.1	21.6	21.5	22.0	22.5	20.4	20.9	20.9	21.3	21.8
	12H	21.1	21.5	21.5	21.9	22.4	20.4	20.9	20.9	21.3	21.8
8H	4H	21.0	21.5	21.5	22.0	22.4	20.1	20.6	20.6	21.1	21.6
	6H	21.1	21.5	21.6	22.0	22.5	20.4	20.8	20.9	21.3	21.8
	8H	21.0	21.4	21.6	21.9	22.4	20.5	20.8	21.0	21.3	21.8
	12H	21.0	21.3	21.6	21.8	22.4	20.5	20.8	21.1	21.3	21.9
12H	4H	21.0	21.4	21.5	21.9	22.4	20.1	20.5	20.6	21.0	21.5
	6H	21.0	21.4	21.6	21.9	22.4	20.3	20.7	20.9	21.2	21.7
	8H	21.0	21.3	21.6	21.8	22.4	20.4	20.7	21.0	21.2	21.8

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°	37785.0	36523.5	34878.2	32696.7	30591.3	28590.0	27950.0
50,0°	28326.2	27340.1	26182.0	24627.5	22780.9	21002.0	20407.5
55,0°	20553.6	19997.2	19304.3	18301.6	16891.8	15418.4	14798.8
60,0°	14102.1	14117.4	14379.9	13738.6	12921.7	11658.2	11076.3
65,0°	10827.2	10644.6	10885.9	10709.8	10483.5	9421.2	8905.4
70,0°	8388.6	8287.5	8903.2	8407.8	8725.3	8032.7	7676.8
75,0°	7353.8	6901.5	6917.1	6823.7	7040.0	7340.7	7327.6
80,0°	5365.0	5165.9	4997.4	5087.7	5684.9	6903.7	7044.2
85,0°	1985.5	1961.2	2051.2	2318.8	3559.8	5241.1	5939.5

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LP number
59711_456

Luminance values in cd/m²

γ 65°

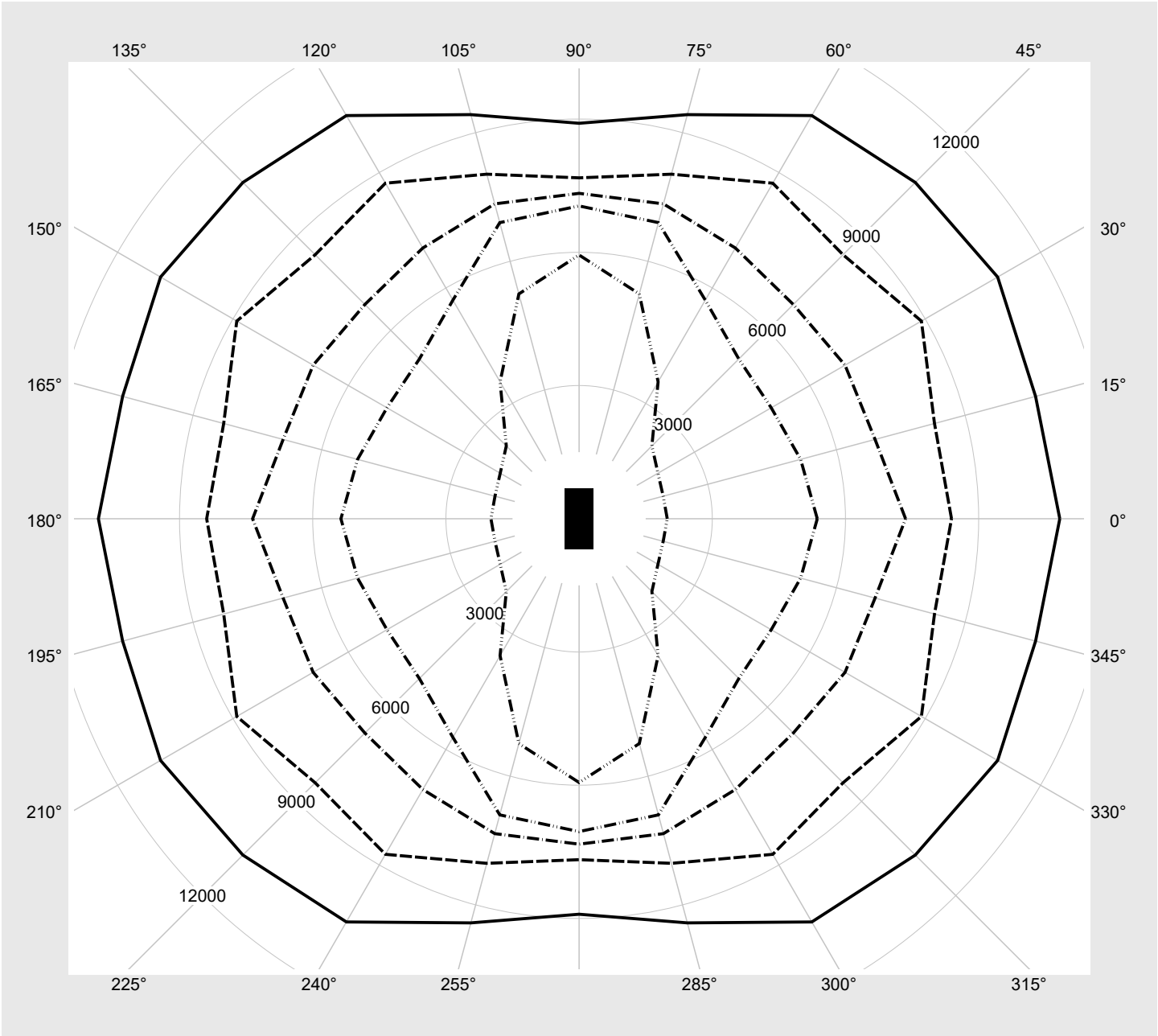
γ 70°

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	47700	293.9
95	240	252	45381	276.4
90	225	250	42885	257.8
85	211	247	40523	240.4
80	197	245	38117	223.4
75	184	242	35866	207.8
70	170	239	33354	191.1
65	157	236	31010	175.7
60	144	233	28643	160.6
55	131	230	26242	145.6
50	118	226	23796	130.7
45	106	222	21532	117.1
40	93	217	19032	102.4
35	81	212	16695	89.0
30	69	206	14326	76.0
25	57	199	11912	63.1
20	45	191	9469	50.3
15	34	180	7194	38.7
10	22	164	4683	25.9
5	11	139	2344	14.0
2	5	110	1058	7.6