

Photometric test report

Family Highbay 11	Order number: 51HN31DB4LDA EAN: 4069025438256	LP number 59711_154
	Version	primary light control with lens, PMMA, housing, black, narrow distribution
	Lamps	LED 4000 K CRI ≥ 80
	Controlgear	ECG-DALI
	Setting	AC-mode
	Rated values	Net luminous flux = 26000 lm Power consumption = 125.4 W Luminous efficacy = 207.3 lm/W
		serial documentation 14.02.2025
		siteco



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	18.4	19.6	18.8	19.9	20.2	17.2	18.4	17.6	18.7	19.0
	3H	18.6	19.7	19.0	20.0	20.4	17.5	18.5	17.9	18.9	19.2
	4H	18.7	19.7	19.1	20.0	20.4	17.6	18.6	18.0	18.9	19.3
	6H	18.8	19.6	19.2	20.0	20.4	17.8	18.6	18.2	19.0	19.4
	8H	18.8	19.5	19.2	19.9	20.3	17.9	18.6	18.3	19.0	19.4
	12H	18.8	19.4	19.2	19.8	20.3	17.9	18.6	18.3	19.0	19.4
4H	2H	18.5	19.4	18.9	19.8	20.1	17.4	18.3	17.8	18.7	19.1
	3H	18.8	19.6	19.2	20.0	20.4	17.8	18.6	18.2	19.0	19.4
	4H	18.9	19.6	19.3	20.0	20.4	18.0	18.7	18.4	19.1	19.5
	6H	19.0	19.5	19.4	20.0	20.5	18.2	18.8	18.7	19.2	19.7
	8H	19.0	19.5	19.4	19.9	20.4	18.3	18.8	18.8	19.2	19.7
	12H	18.9	19.4	19.4	19.8	20.3	18.3	18.8	18.8	19.2	19.7
8H	4H	18.9	19.4	19.4	19.8	20.3	18.0	18.5	18.5	19.0	19.5
	6H	19.0	19.4	19.5	19.9	20.4	18.3	18.7	18.8	19.1	19.7
	8H	18.9	19.3	19.5	19.8	20.3	18.3	18.7	18.9	19.2	19.7
	12H	18.9	19.2	19.4	19.7	20.3	18.4	18.7	18.9	19.2	19.8
12H	4H	18.9	19.3	19.4	19.8	20.3	18.0	18.4	18.5	18.9	19.4
	6H	18.9	19.3	19.5	19.8	20.3	18.2	18.6	18.8	19.1	19.6
	8H	18.9	19.2	19.5	19.7	20.3	18.3	18.6	18.9	19.1	19.7

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°	20595.6	19908.0	19011.2	17822.1	16674.5	15583.7	15234.8
50,0°	15439.9	14902.3	14271.1	13423.8	12417.3	11447.6	11123.6
55,0°	11203.2	10899.9	10522.3	9975.7	9207.3	8404.2	8066.4
60,0°	7686.7	7695.0	7838.1	7488.5	7043.3	6354.6	6037.4
65,0°	5901.6	5802.1	5933.6	5837.6	5714.3	5135.2	4854.1
70,0°	4572.4	4517.3	4852.9	4582.9	4755.9	4378.4	4184.4
75,0°	4008.4	3761.8	3770.3	3719.4	3837.3	4001.2	3994.1
80,0°	2924.3	2815.8	2723.9	2773.2	3098.7	3763.0	3839.6
85,0°	1082.2	1069.0	1118.1	1263.9	1940.3	2856.8	3237.4

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Luminance values in cd/m²

γ 65°

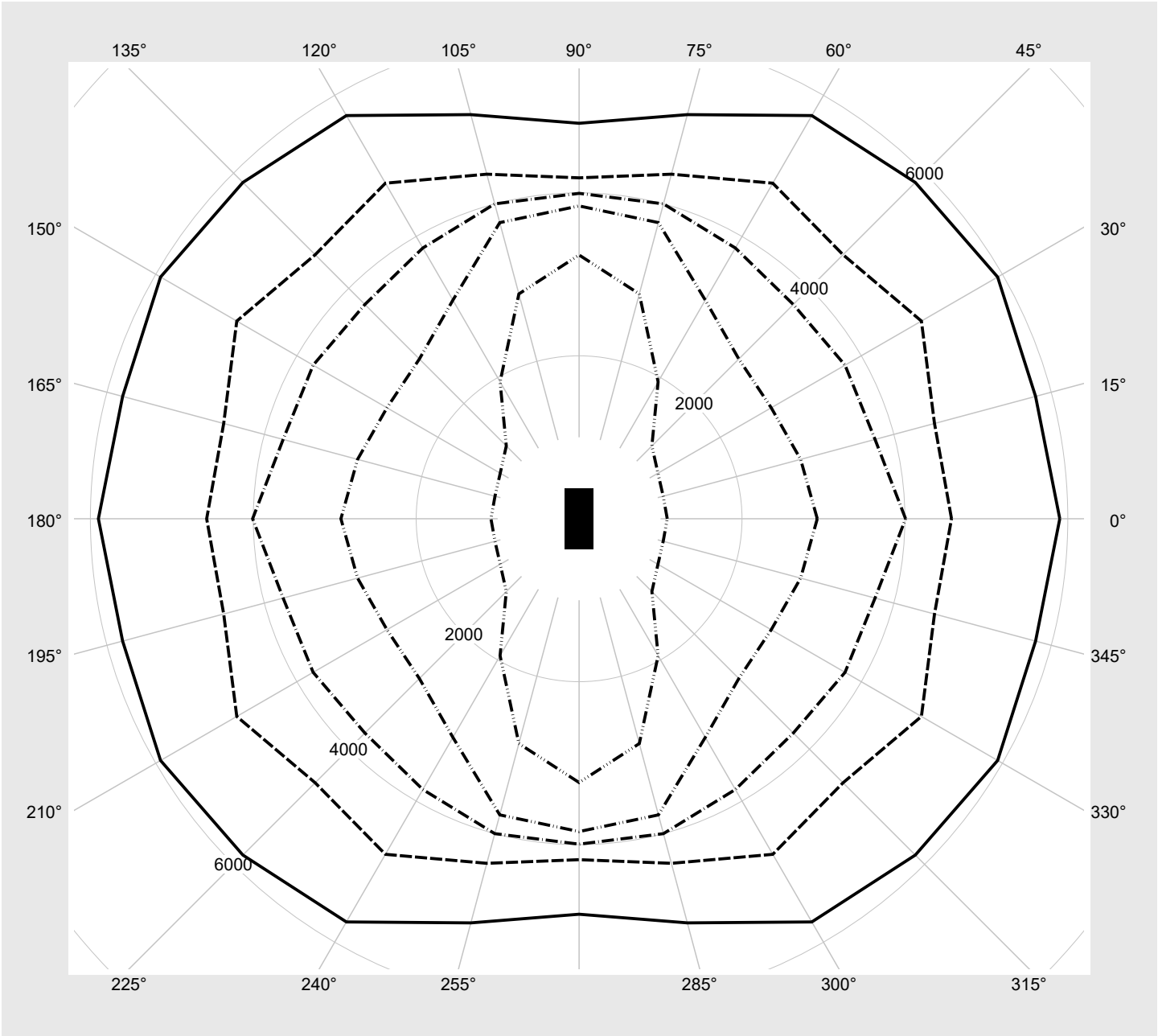
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table environmental temperature: 25°C		sit eco

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	26000	125.4
95	241	252	24724	118.7
90	228	250	23439	112.2
85	214	248	22054	105.2
80	201	245	20755	98.6
75	188	243	19459	92.2
70	175	240	18155	85.7
65	163	238	16943	79.9
60	150	235	15629	73.4
55	137	231	14297	66.9
50	124	228	12968	60.7
45	112	224	11732	54.7
40	99	219	10381	48.4
35	87	215	9132	42.7
30	74	209	7766	36.5
25	62	202	6501	30.8
20	50	194	5232	25.1
15	38	184	3949	19.5
10	25	169	2558	13.3
5	13	145	1260	7.4
2	6	117	502	4.0