

Photometric test report

Family Highbay 11	Order number: 51HN32DA3JDA EAN: 4069025645777	LP number 59710_531
	Version primary light control with lens, PMMA, housing, black, wide distribution Lamps LED 3000 K CRI ≥ 80 Controlgear ECG-DALI Setting AC-mode Rated values Net luminous flux = 21930 lm Power consumption = 117.2 W Luminous efficacy = 187.1 lm/W	serial documentation 15.12.2025
		

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 772 cd/klm**



Classifications	
DIN 5040	A 6 0
CIE	N1=88 N2=98 N3=100 N4=100 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	100.0%
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



C-planes γ	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-zone	Total Phi-zone
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			
Luminous intensity in cd/klm							Luminous flux in lm/klm		
0,0°	643.6	643.6	643.6	643.6	643.6	643.6	643.6	1.0	1.0
2,5°	644.5	645.1	645.0	644.3	644.2	643.7	641.7	7.7	8.7
5,0°	651.5	652.3	650.7	647.5	645.3	643.2	640.4	15.5	24.1
7,5°	669.6	669.1	664.2	657.2	651.2	645.8	641.3	23.5	47.6
10,0°	693.4	691.0	681.5	670.0	659.9	651.2	645.8	31.9	79.6
12,5°	711.8	709.4	700.3	685.9	671.9	660.7	654.0	40.7	120.2
15,0°	721.3	721.7	717.1	704.9	689.4	675.9	667.7	49.7	169.9
17,5°	743.8	740.8	737.9	726.5	708.9	693.0	684.2	59.4	229.3
20,0°	761.9	761.9	759.6	745.2	724.0	705.6	696.8	69.2	298.5
22,5°	772.0	771.2	770.0	754.7	731.1	710.8	702.6	78.2	376.7
25,0°	758.1	756.6	756.3	743.6	722.7	703.3	695.6	85.1	461.8
27,5°	706.7	709.5	709.5	700.0	685.7	672.3	667.0	87.8	549.7
30,0°	640.4	635.6	633.7	626.6	621.7	614.1	609.9	85.8	635.5
32,5°	530.6	537.6	535.6	526.2	530.2	524.1	520.8	78.1	713.6
35,0°	428.2	426.4	425.9	411.9	420.8	414.2	411.4	66.0	779.6
37,5°	322.5	323.4	327.0	311.0	319.4	310.8	308.2	53.0	832.6
40,0°	236.1	234.0	241.6	230.8	230.9	219.8	218.4	40.7	873.3
42,5°	162.3	165.3	172.9	171.1	161.7	151.3	150.8	30.2	903.5
45,0°	117.3	114.9	119.4	122.5	109.3	102.6	102.3	21.9	925.4
47,5°	80.5	81.4	82.8	85.5	75.2	71.4	70.8	15.9	941.3
50,0°	59.4	58.0	58.0	59.0	52.9	50.5	49.6	11.7	953.0
52,5°	43.3	42.8	42.8	43.0	39.3	37.2	36.6	8.9	961.8
55,0°	33.3	32.4	32.9	33.7	30.5	28.7	28.3	7.1	968.9
57,5°	25.9	25.4	25.9	26.8	24.5	22.9	22.9	5.8	974.7
60,0°	20.9	20.2	21.2	21.8	20.4	18.9	19.2	4.9	979.5
62,5°	16.9	16.2	17.4	18.0	17.2	15.9	16.4	4.1	983.6
65,0°	14.9	13.6	14.4	15.1	14.8	13.6	14.4	3.6	987.2
67,5°	12.3	11.4	12.5	12.4	13.0	11.7	12.6	3.1	990.3
70,0°	10.4	9.5	10.5	10.1	11.1	10.1	11.0	2.7	993.0
72,5°	8.2	7.7	7.9	8.2	8.7	8.6	9.5	2.2	995.2
75,0°	6.5	6.0	6.0	6.4	6.6	7.1	7.9	1.7	996.9
77,5°	4.5	4.3	4.4	4.7	5.1	5.6	6.3	1.3	998.2
80,0°	2.9	2.7	2.9	3.1	3.5	4.1	4.7	0.9	999.1
82,5°	1.3	1.4	1.6	1.8	2.2	2.7	3.3	0.5	999.7
85,0°	0.6	0.6	0.6	0.7	1.0	1.4	1.8	0.3	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	
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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	21.2	22.5	21.6	22.8	23.2	20.9	22.2	21.3	22.5	22.9
	3H	21.2	22.4	21.6	22.7	23.1	21.0	22.1	21.3	22.4	22.8
	4H	21.2	22.3	21.6	22.6	23.0	21.0	22.0	21.4	22.4	22.8
	6H	21.2	22.1	21.6	22.5	22.9	21.0	21.9	21.4	22.3	22.7
	8H	21.3	22.1	21.7	22.5	22.9	21.1	21.9	21.5	22.3	22.7
	12H	21.3	22.0	21.7	22.4	22.8	21.1	21.8	21.5	22.2	22.6
4H	2H	21.1	22.2	21.5	22.5	22.9	20.9	21.9	21.3	22.2	22.6
	3H	21.2	22.0	21.6	22.4	22.8	20.9	21.8	21.4	22.2	22.6
	4H	21.2	21.9	21.6	22.3	22.8	21.0	21.7	21.4	22.1	22.6
	6H	21.2	21.8	21.6	22.2	22.7	21.0	21.7	21.5	22.1	22.6
	8H	21.1	21.7	21.6	22.2	22.6	21.0	21.6	21.5	22.1	22.5
	12H	21.1	21.6	21.6	22.1	22.6	21.1	21.5	21.6	22.0	22.5
8H	4H	21.1	21.7	21.6	22.1	22.6	20.9	21.5	21.4	21.9	22.4
	6H	21.1	21.6	21.6	22.0	22.5	21.0	21.4	21.5	21.9	22.4
	8H	21.0	21.5	21.6	22.0	22.5	21.0	21.4	21.5	21.9	22.4
	12H	21.0	21.4	21.6	21.9	22.4	21.0	21.3	21.5	21.8	22.4
12H	4H	21.1	21.6	21.6	22.1	22.6	20.9	21.4	21.4	21.8	22.3
	6H	21.1	21.5	21.6	21.9	22.5	21.0	21.3	21.5	21.8	22.4
	8H	21.0	21.4	21.6	21.9	22.4	21.0	21.3	21.5	21.8	22.3

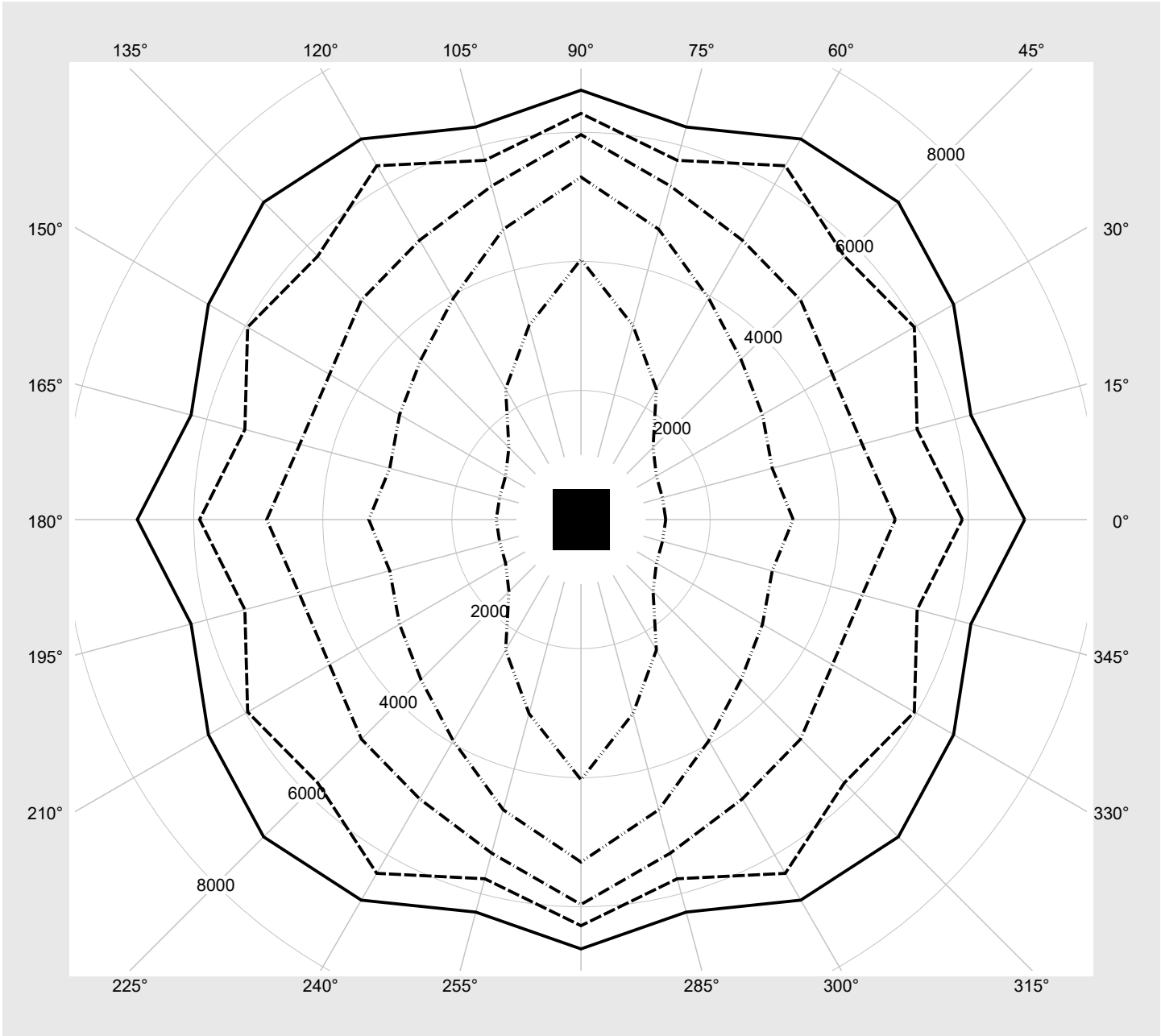
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 426 B = 264
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C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45,0°		32354.2	31680.5	32931.4	33775.5	30132.4	28291.3	28208.1	
50,0°		18026.5	17600.3	17581.8	17895.8	16058.6	15311.5	15048.8	
55,0°		11328.6	11025.7	11183.1	11439.8	10377.4	9754.9	9637.7	
60,0°		8148.1	7865.7	8264.7	8512.7	7970.3	7381.0	7475.0	
65,0°		6875.3	6254.3	6666.3	6953.7	6809.3	6297.2	6652.9	
70,0°		5909.4	5391.7	5964.1	5770.3	6330.1	5762.3	6293.1	
75,0°		4870.0	4510.6	4498.6	4811.2	4998.8	5350.7	5964.7	
80,0°		3288.0	3067.9	3246.4	3506.9	3958.3	4655.7	5307.0	
85,0°		1313.3	1306.6	1349.1	1579.6	2335.8	3112.1	4031.7	

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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**



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Dimming levels table	environmental temperature: 25°C	sITeco
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	21930	117.2
95	240	252	20806	110.5
90	227	250	19757	104.4
85	213	248	18612	97.8
80	200	245	17545	91.6
75	187	243	16465	85.6
70	174	240	15382	79.4
65	161	237	14287	73.5
60	148	234	13184	67.6
55	135	231	12072	61.6
50	122	227	10952	55.5
45	109	223	9825	49.6
40	97	219	8771	44.2
35	85	214	7713	38.9
30	72	208	6553	33.1
25	60	201	5477	27.8
20	48	193	4392	22.6
15	36	182	3293	17.4
10	24	168	2190	12.0
5	12	142	1073	6.5
2	6	117	513	3.8