



# Photometric test report

<b>Family</b> <b>Highbay 11</b>	<b>Order number: 51HN31DA4FDA</b> <b>EAN: 4069025431035</b>	<b>LP number</b> <b>59711_114</b>
	<b>Version</b>	primary light control with lens, PMMA, housing, black, narrow distribution
	<b>Lamps</b>	LED 4000 K   CRI ≥ 80
	<b>Controlgear</b>	ECG-DALI
	<b>Setting</b>	AC-mode
	<b>Rated values</b>	Net luminous flux = 15000 lm Power consumption = 73.2 W Luminous efficacy = 204.9 lm/W
		<b>serial documentation</b> 14.02.2025
		

Luminous intensity in cd/klm C180-0 C270-90 Imax: 2679 cd/klm



Classifications	
DIN 5040	A 7 0
CIE	N1=85 N2=97 N3=100 N4=100 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	100.0%
$\phi_o$	0.0%

**Measurement conditions**  
 DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		Maximum luminous intensity
		<b>siteco</b>

C-planes $\gamma$	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°	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	
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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	18.9	20.1	19.3	20.4	20.7	17.7	18.9	18.1	19.2	19.5
	3H	19.1	20.2	19.5	20.5	20.9	18.0	19.0	18.4	19.4	19.7
	4H	19.2	20.1	19.6	20.5	20.9	18.1	19.1	18.5	19.4	19.8
	6H	19.3	20.1	19.7	20.5	20.9	18.3	19.1	18.7	19.5	19.9
	8H	19.3	20.0	19.7	20.4	20.8	18.4	19.1	18.8	19.5	19.9
	12H	19.3	19.9	19.7	20.3	20.7	18.4	19.1	18.8	19.5	19.9
4H	2H	19.0	19.9	19.4	20.3	20.6	17.9	18.8	18.3	19.2	19.6
	3H	19.3	20.1	19.7	20.4	20.9	18.3	19.1	18.7	19.5	19.9
	4H	19.4	20.1	19.8	20.5	20.9	18.5	19.2	18.9	19.6	20.0
	6H	19.5	20.0	19.9	20.5	20.9	18.7	19.3	19.2	19.7	20.2
	8H	19.5	20.0	19.9	20.4	20.9	18.8	19.3	19.2	19.7	20.2
	12H	19.4	19.9	19.9	20.3	20.8	18.8	19.3	19.3	19.7	20.2
8H	4H	19.4	19.9	19.9	20.3	20.8	18.5	19.0	19.0	19.5	20.0
	6H	19.5	19.9	20.0	20.4	20.9	18.8	19.2	19.3	19.6	20.2
	8H	19.4	19.8	19.9	20.3	20.8	18.8	19.2	19.4	19.7	20.2
	12H	19.4	19.7	19.9	20.2	20.8	18.9	19.2	19.4	19.7	20.3
12H	4H	19.4	19.8	19.9	20.3	20.8	18.5	18.9	19.0	19.4	19.9
	6H	19.4	19.8	20.0	20.3	20.8	18.7	19.1	19.3	19.6	20.1
	8H	19.4	19.7	19.9	20.2	20.8	18.8	19.1	19.4	19.6	20.2

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 426 B = 264
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C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>							
		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°		23764.1	22970.8	21936.0	20564.0	19239.8	17981.2	17578.6	
50,0°		17815.2	17195.0	16466.7	15489.0	14327.6	13208.8	12834.9	
55,0°		12926.8	12576.8	12141.1	11510.4	10623.8	9697.1	9307.4	
60,0°		8869.2	8878.8	9044.0	8640.6	8126.9	7332.2	6966.2	
65,0°		6809.6	6694.7	6846.5	6735.7	6593.4	5925.3	5600.9	
70,0°		5275.8	5212.3	5599.5	5287.9	5487.6	5052.0	4828.2	
75,0°		4625.0	4340.6	4350.4	4291.6	4427.7	4616.8	4608.6	
80,0°		3374.2	3249.0	3143.0	3199.8	3575.4	4342.0	4430.3	
85,0°		1248.7	1233.4	1290.1	1458.4	2238.9	3296.3	3735.5	

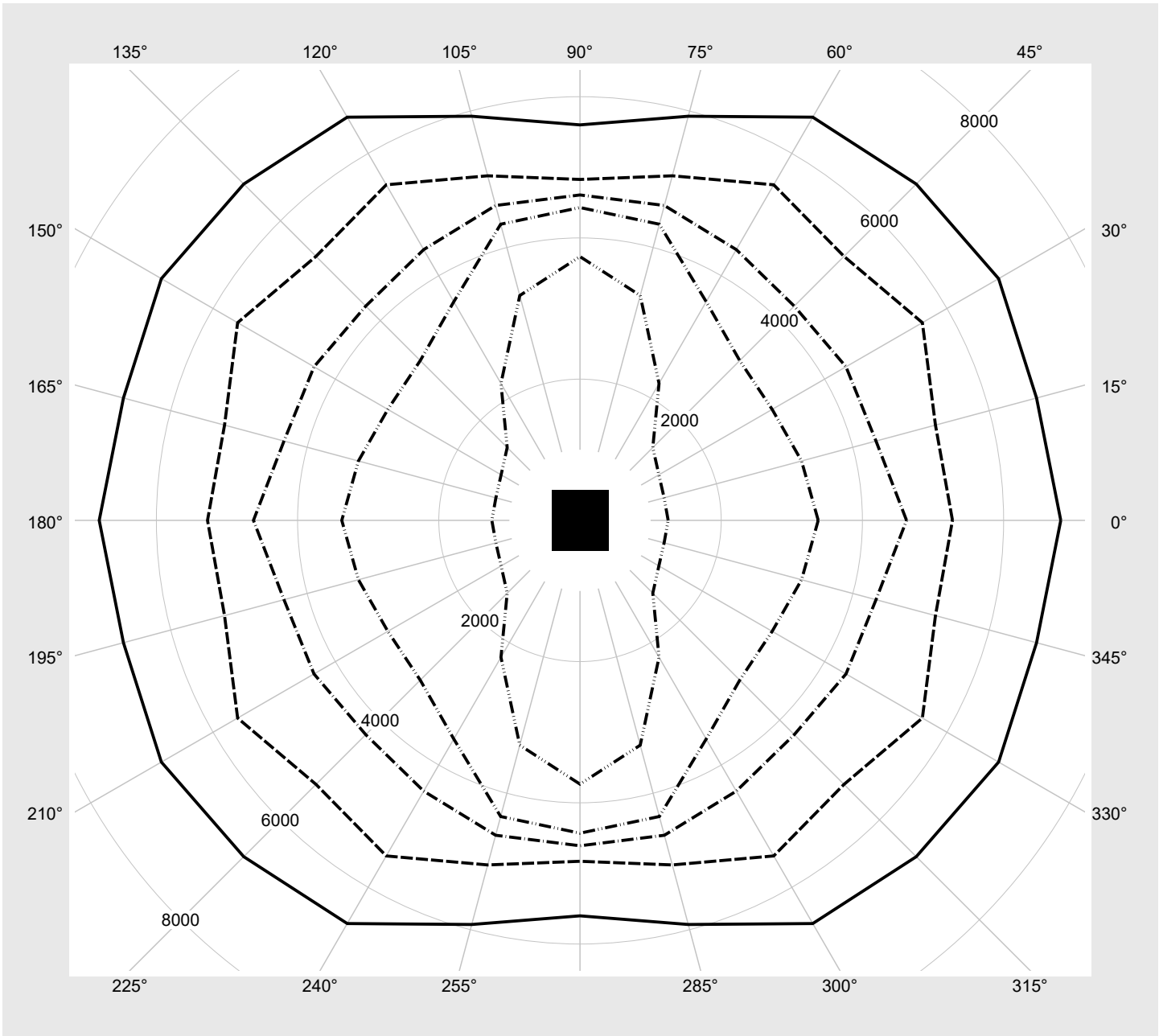
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**Luminance values in cd/m<sup>2</sup>**

$\gamma$  65°    
   $\gamma$  70°    
   $\gamma$  75°    
   $\gamma$  80°    
   $\gamma$  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	15000	73.2
95	241	252	14266	69.4
90	227	250	13473	65.3
85	214	248	12736	61.5
80	201	245	11990	57.8
75	188	243	11246	53.9
70	175	240	10495	50.2
65	162	238	9737	46.4
60	149	234	8979	42.7
55	137	231	8274	39.3
50	124	228	7504	35.6
45	111	224	6733	31.9
40	99	219	6018	28.6
35	86	214	5233	24.9
30	74	209	4509	21.7
25	62	202	3779	18.3
20	49	194	2979	14.8
15	37	183	2239	11.6
10	25	169	1496	8.2
5	13	145	743	4.7
2	5	110	241	2.5