
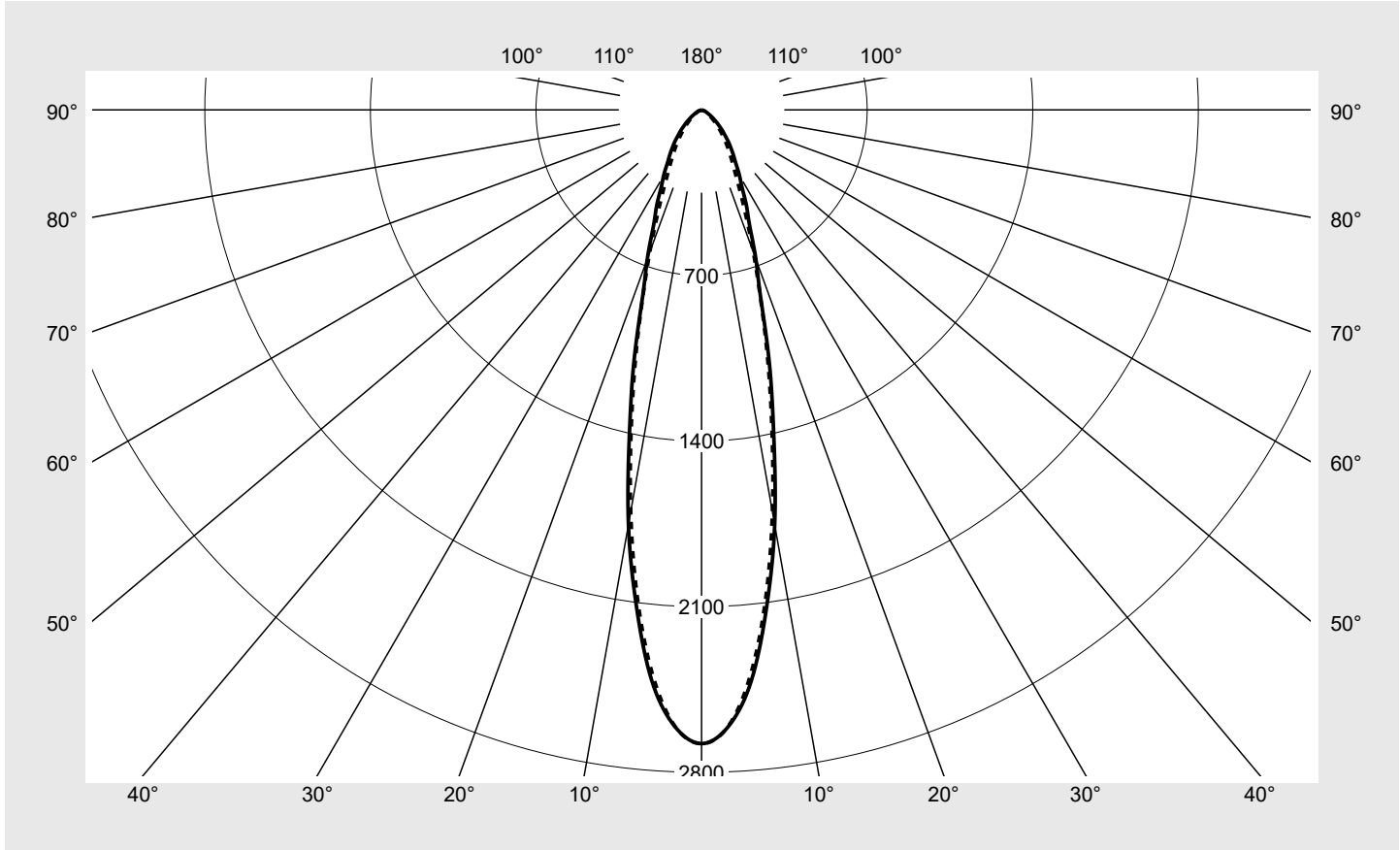


# Photometric test report

<b>Family</b> <b>Highbay 11</b>	<b>Order number: 51HN11DB4MDA3C</b> <b>EAN: 4069025363336</b>	<b>LP number</b> <b>59711_283</b>
	<b>Version</b> primary light control with lens, PMMA, housing, white, narrow distribution	<b>serial documentation</b> <b>24.02.2025</b>
	<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 = 30000 lm Power consumption = 150.3 W Luminous efficacy = 199.6 lm/W	



**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 = 852 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	

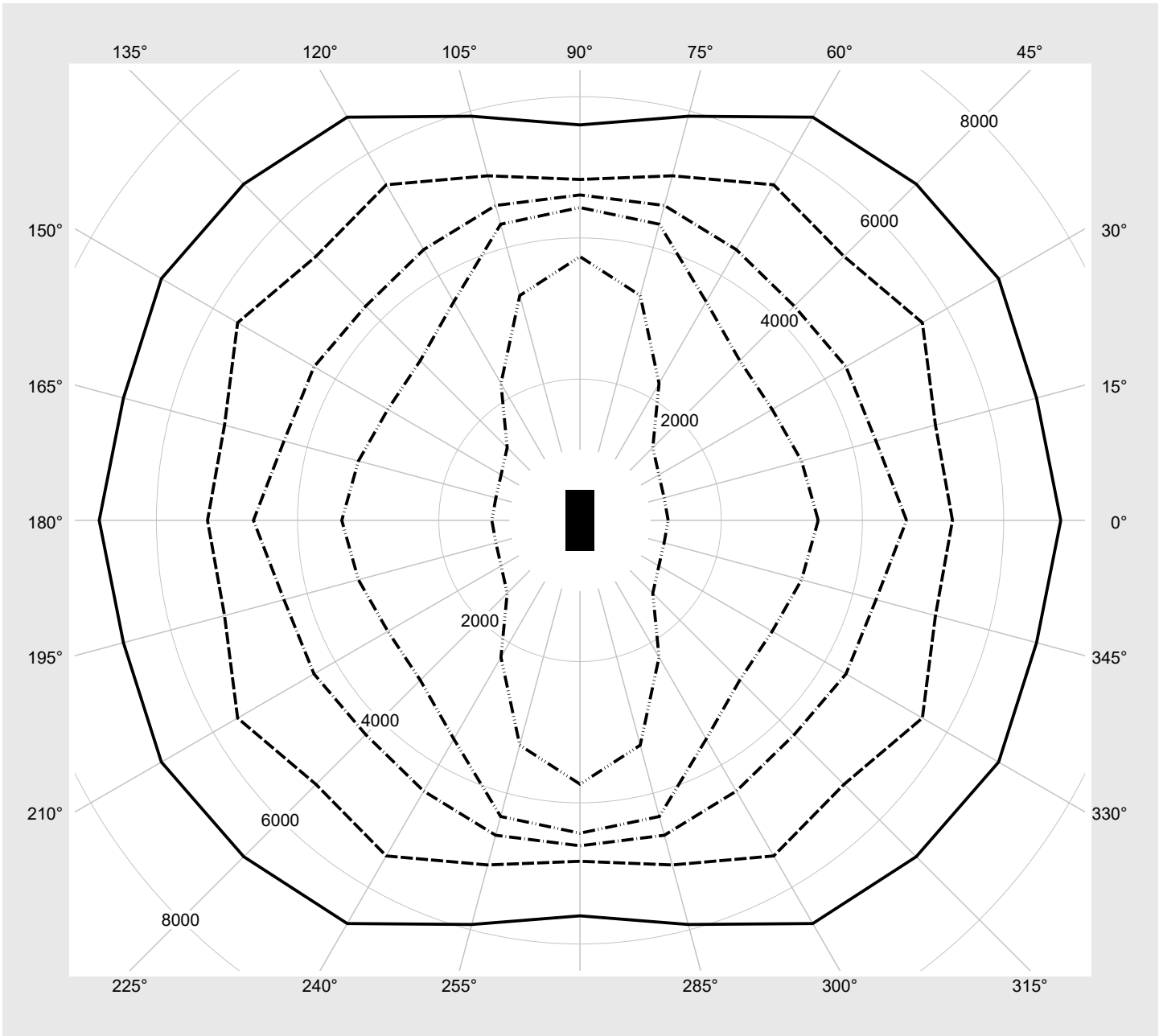
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**Luminance values in cd/m<sup>2</sup>**

$\gamma$  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	30000	150.3
95	241	252	28538	142.5
90	227	250	26952	134.2
85	214	248	25476	126.5
80	201	245	23987	118.8
75	188	243	22496	111.3
70	175	240	20989	103.7
65	162	238	19482	96.1
60	149	234	17966	88.6
55	137	231	16558	81.7
50	124	228	15025	74.3
45	111	224	13477	66.8
40	99	219	12044	60.1
35	86	214	10478	52.7
30	74	209	9026	46.0
25	62	202	7560	39.3
20	49	194	5966	32.3
15	37	183	4482	25.6
10	25	169	2992	19.1
5	13	145	1488	12.2
2	5	110	482	7.7