

## Photometric test report

Family  
Highbay 11

Order number: 51HN12DB4LDA01  
EAN: 4069025242716

LP number  
59710\_51



**Version** primary light control with lens, PMMA, housing, white, wide distribution, with multisensor node BT

**Lamps** LED 4000 K | CRI ≥ 80

**Controlgear** ECG-DALI

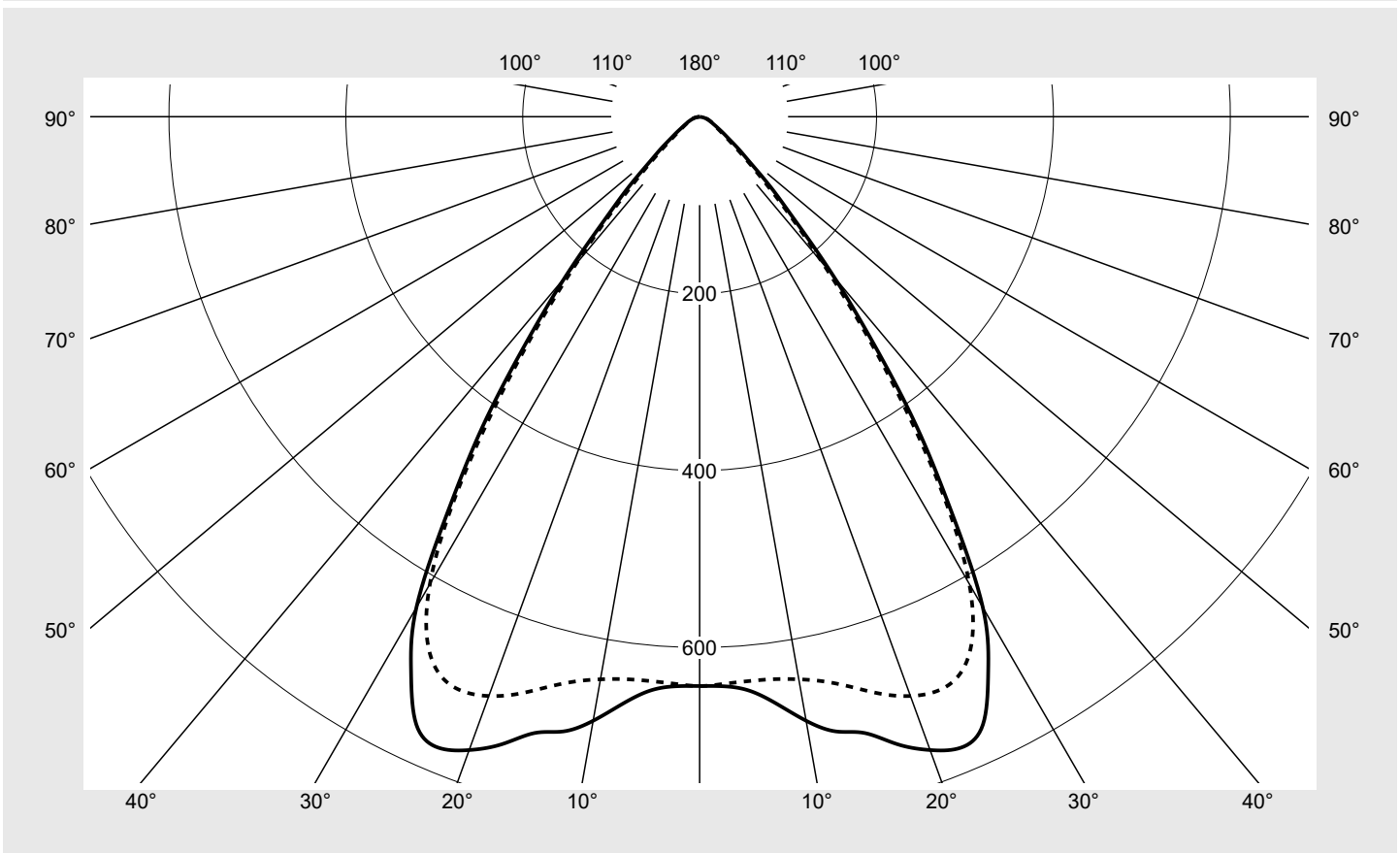
**Rated values** Net luminous flux = 26000 lm  
Power consumption = 125.9 W  
Luminous efficacy = 206.5 lm/W

serial  
documentation  
30.01.2025

siteco

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

$\eta_{LB}$  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° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Luminous flux in lm/klm	
								Phi-zone	Total Phi-zone
Luminous intensity in cd/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	19.4	20.7	19.8	21.0	21.3	19.1	20.4	19.5	20.7	21.0
	3H	19.4	20.6	19.8	20.9	21.2	19.1	20.3	19.5	20.6	21.0
	4H	19.4	20.5	19.8	20.8	21.2	19.2	20.2	19.6	20.6	20.9
	6H	19.4	20.3	19.8	20.7	21.1	19.2	20.1	19.6	20.5	20.9
	8H	19.5	20.3	19.9	20.6	21.1	19.3	20.1	19.7	20.5	20.9
	12H	19.4	20.2	19.9	20.6	21.0	19.3	20.0	19.7	20.4	20.8
4H	2H	19.3	20.4	19.7	20.7	21.1	19.0	20.1	19.4	20.4	20.8
	3H	19.4	20.2	19.8	20.6	21.0	19.1	20.0	19.5	20.4	20.8
	4H	19.4	20.1	19.8	20.5	21.0	19.2	19.9	19.6	20.3	20.8
	6H	19.3	20.0	19.8	20.4	20.9	19.2	19.8	19.7	20.3	20.7
	8H	19.3	19.9	19.8	20.3	20.8	19.2	19.8	19.7	20.2	20.7
	12H	19.3	19.8	19.8	20.3	20.8	19.3	19.7	19.7	20.2	20.7
8H	4H	19.3	19.9	19.8	20.3	20.8	19.1	19.7	19.6	20.1	20.6
	6H	19.3	19.7	19.8	20.2	20.7	19.1	19.6	19.6	20.1	20.6
	8H	19.2	19.6	19.7	20.1	20.7	19.2	19.6	19.7	20.1	20.6
	12H	19.2	19.5	19.7	20.0	20.6	19.2	19.5	19.7	20.0	20.6
12H	4H	19.3	19.8	19.8	20.2	20.7	19.1	19.6	19.6	20.0	20.5
	6H	19.3	19.6	19.8	20.1	20.7	19.1	19.5	19.7	20.0	20.5
	8H	19.2	19.5	19.8	20.1	20.6	19.2	19.5	19.7	20.0	20.5

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 852 B = 264
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C-planes	$\gamma$	0° 180°	15°	30°	45°	60°	75°	90° 270°
			165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°	
Luminance in cd/m²								
45,0°		19179.4	18780.1	19521.6	20022.0	17862.3	16771.0	16721.6
50,0°		10686.0	10433.4	10422.4	10608.5	9519.5	9076.6	8920.8
55,0°		6715.6	6536.0	6629.3	6781.5	6151.7	5782.7	5713.2
60,0°		4830.2	4662.8	4899.3	5046.3	4724.7	4375.4	4431.1
65,0°		4075.7	3707.5	3951.7	4122.1	4036.5	3732.9	3943.8
70,0°		3503.1	3196.2	3535.5	3420.6	3752.5	3415.9	3730.5
75,0°		2886.9	2673.9	2666.7	2852.1	2963.3	3171.9	3535.9
80,0°		1949.1	1818.6	1924.5	2078.9	2346.5	2759.9	3146.0
85,0°		778.5	774.5	799.7	936.4	1384.6	1844.8	2389.9

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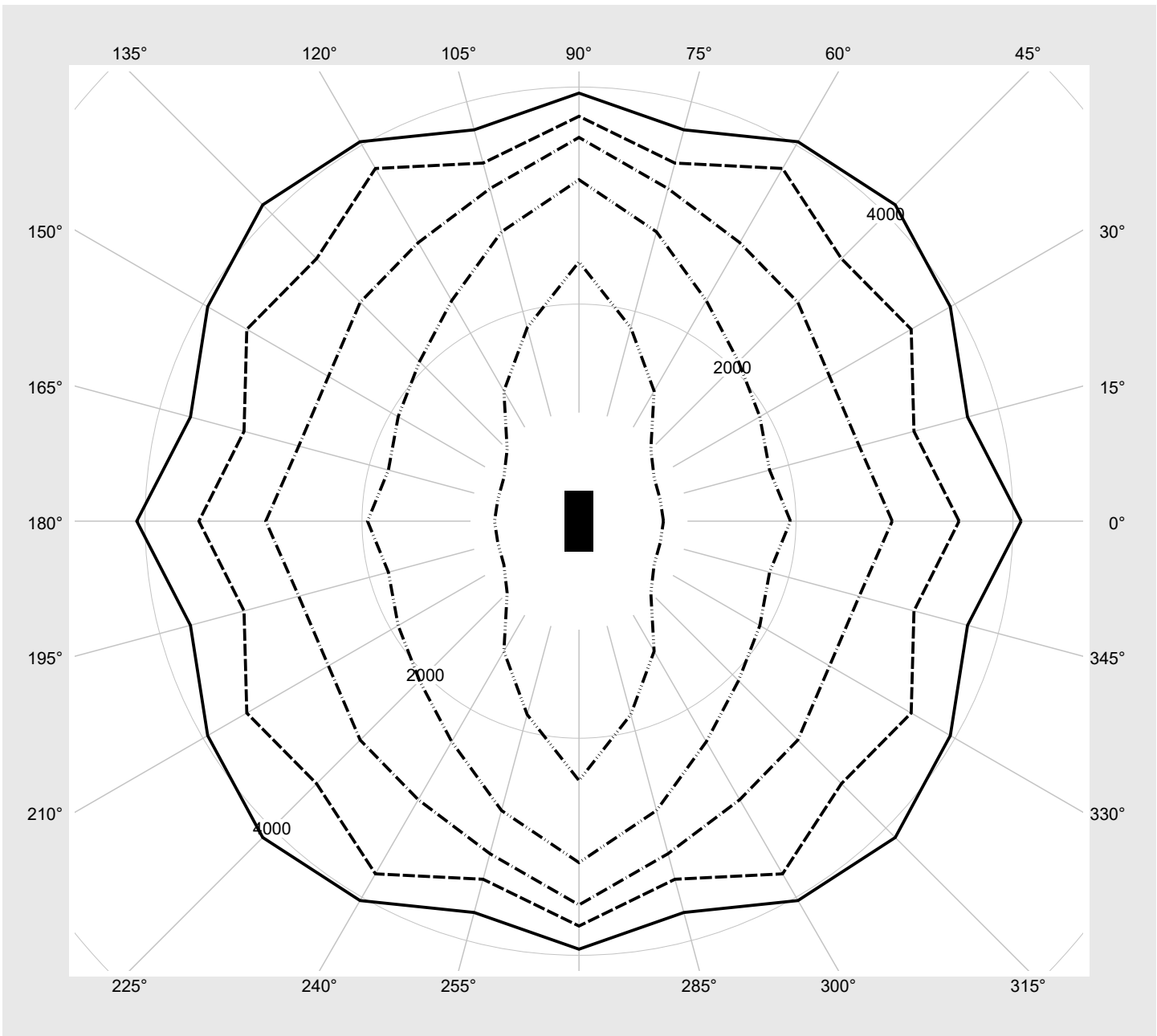
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**Luminance values in cd/m<sup>2</sup>**

$\gamma$  65°   
   $\gamma$  70°   
   $\gamma$  75°   
   $\gamma$  80°   
   $\gamma$  85°



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<b>Dimming levels table</b>	environmental temperature: 25°C	<b>sITeco</b>
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	26000	125.9
95	241	252	24724	119.2
90	228	250	23439	112.7
85	214	248	22054	105.7
80	201	245	20755	99.1
75	188	243	19459	92.7
70	175	240	18155	86.2
65	163	238	16943	80.4
60	150	235	15629	73.9
55	137	231	14297	67.4
50	124	228	12968	61.2
45	112	224	11732	55.2
40	99	219	10381	48.9
35	87	215	9132	43.2
30	74	209	7766	37.0
25	62	202	6501	31.3
20	50	194	5232	25.6
15	38	184	3949	20.0
10	25	169	2558	13.8
5	13	145	1260	7.9
2	6	117	502	4.5