


# Photometric test report

<b>Family</b> <b>Highbay 11</b>	<b>Order number: 51HN12DA3FDA</b> <b>EAN: 4069025424549</b>	<b>LP number</b> <b>59710_489</b>
	<b>Version</b>	primary light control with lens, PMMA, housing, white, wide distribution
	<b>Lamps</b>	LED 3000 K   CRI ≥ 80
	<b>Controlgear</b>	ECG-DALI
	<b>Setting</b>	AC-mode
	<b>Rated values</b>	Net luminous flux = 14260 lm Power consumption = 73.2 W Luminous efficacy = 194.8 lm/W
		<b>serial documentation</b> 26.05.2025
		

**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	
$\eta_{LB}$	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

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°	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	19.8	21.0	20.1	21.3	21.7	19.5	20.7	19.8	21.0	21.4
	3H	19.7	20.9	20.1	21.2	21.6	19.5	20.6	19.9	20.9	21.3
	4H	19.7	20.8	20.1	21.1	21.5	19.5	20.5	19.9	20.9	21.3
	6H	19.7	20.6	20.1	21.0	21.4	19.5	20.5	19.9	20.8	21.2
	8H	19.8	20.6	20.2	21.0	21.4	19.6	20.4	20.0	20.8	21.2
	12H	19.8	20.5	20.2	20.9	21.3	19.6	20.3	20.0	20.7	21.1
4H	2H	19.6	20.7	20.0	21.0	21.4	19.4	20.4	19.8	20.7	21.1
	3H	19.7	20.5	20.1	20.9	21.3	19.4	20.3	19.9	20.7	21.1
	4H	19.7	20.4	20.1	20.9	21.3	19.5	20.2	19.9	20.6	21.1
	6H	19.7	20.3	20.1	20.7	21.2	19.5	20.2	20.0	20.6	21.1
	8H	19.6	20.2	20.1	20.7	21.1	19.5	20.1	20.0	20.6	21.0
	12H	19.6	20.1	20.1	20.6	21.1	19.6	20.0	20.1	20.5	21.0
8H	4H	19.6	20.2	20.1	20.6	21.1	19.4	20.0	19.9	20.4	20.9
	6H	19.6	20.1	20.1	20.5	21.0	19.5	19.9	20.0	20.4	20.9
	8H	19.5	20.0	20.1	20.5	21.0	19.5	19.9	20.0	20.4	20.9
	12H	19.5	19.9	20.1	20.4	20.9	19.5	19.8	20.0	20.3	20.9
12H	4H	19.6	20.1	20.1	20.6	21.1	19.4	19.9	19.9	20.4	20.9
	6H	19.6	20.0	20.1	20.5	21.0	19.5	19.8	20.0	20.3	20.9
	8H	19.6	19.9	20.1	20.4	20.9	19.5	19.8	20.0	20.3	20.8

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°		21038.3	20600.3	21413.7	21962.5	19593.6	18396.5	18342.3	
50,0°		11721.8	11444.6	11432.6	11636.7	10442.1	9956.3	9785.5	
55,0°		7366.5	7169.5	7271.8	7438.7	6747.9	6343.2	6266.9	
60,0°		5298.3	5114.7	5374.1	5535.4	5182.7	4799.5	4860.6	
65,0°		4470.7	4066.8	4334.8	4521.7	4427.8	4094.7	4326.1	
70,0°		3842.6	3506.0	3878.2	3752.1	4116.2	3746.9	4092.1	
75,0°		3166.7	2933.0	2925.2	3128.5	3250.5	3479.3	3878.6	
80,0°		2138.0	1994.9	2111.0	2280.4	2573.9	3027.4	3450.9	
85,0°		854.0	849.6	877.3	1027.1	1518.8	2023.7	2621.6	

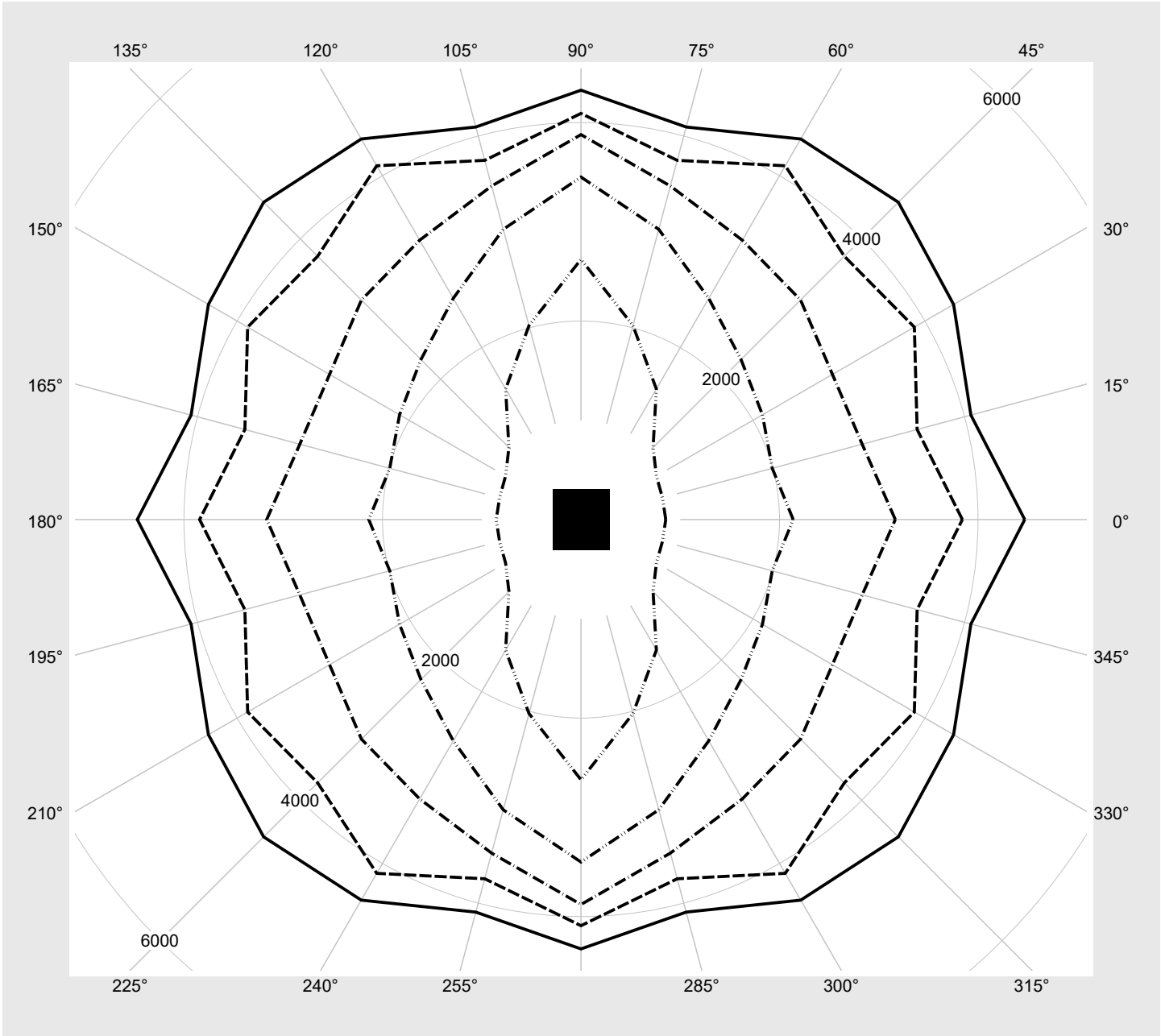
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**Luminance values in cd/m<sup>2</sup>**

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

**siteco**



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<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	14260	73.2
95	241	252	13561	69.3
90	228	250	12861	65.5
85	214	248	12105	61.5
80	201	245	11394	57.7
75	188	243	10686	53.8
70	175	240	9972	50.1
65	162	238	9250	46.4
60	149	234	8529	42.7
55	137	231	7858	39.2
50	124	228	7126	35.6
45	111	224	6394	31.9
40	99	219	5715	28.6
35	86	214	4969	24.9
30	74	209	4282	21.7
25	62	202	3590	18.3
20	49	194	2833	14.8
15	37	183	2134	11.5
10	25	169	1431	8.2
5	13	145	720	4.7
2	5	110	247	2.5