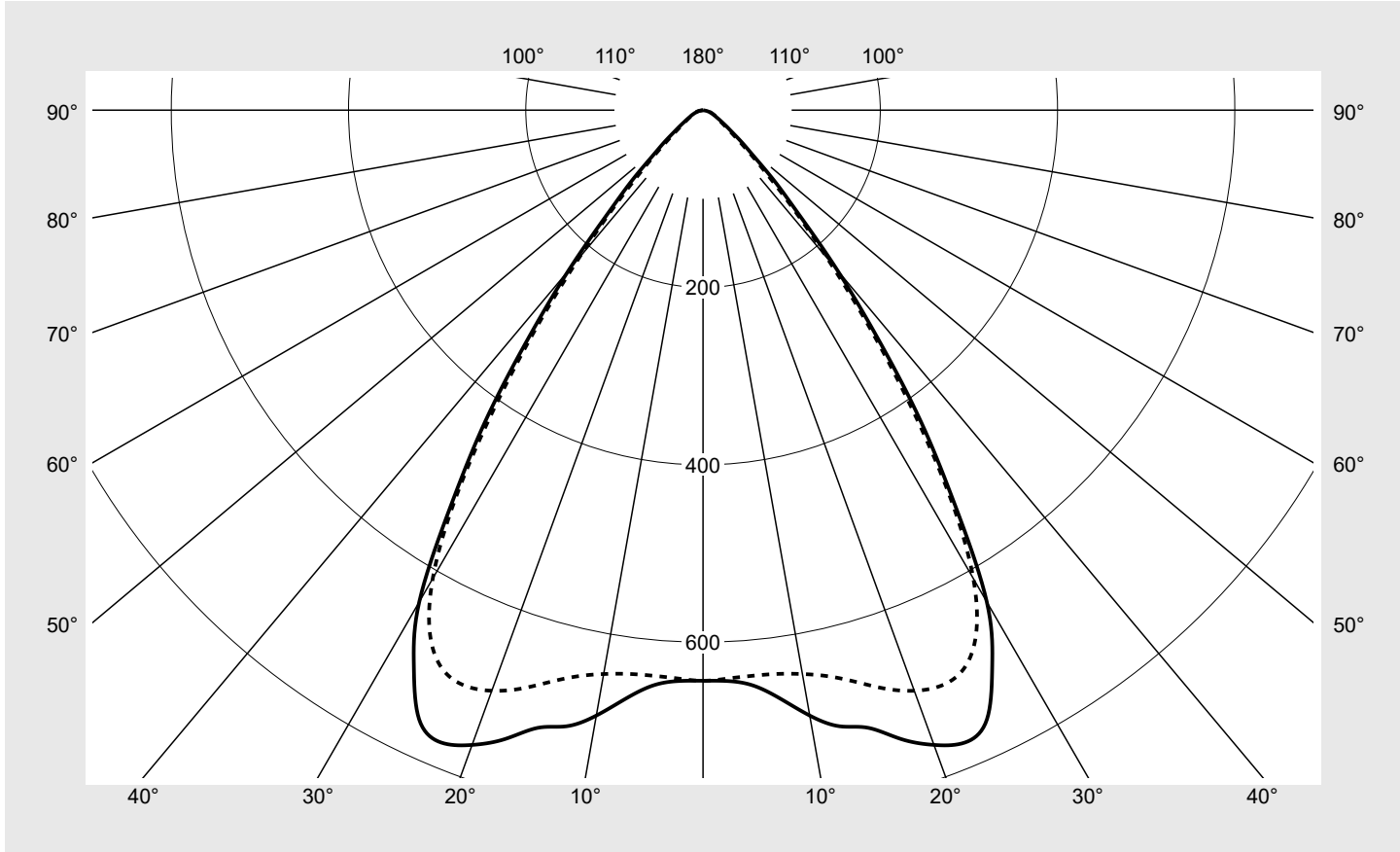


# Photometric test report

<b>Family</b> <b>Highbay 11</b>	<b>Order number: 51HN12DA3JDA</b> <b>EAN: 4069025424570</b>	<b>LP number</b> <b>59710_491</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 = 21850 lm Power consumption = 117.2 W Luminous efficacy = 186.4 lm/W	<b>serial documentation</b> <b>26.05.2025</b>



**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

## Photometric test report

Family Highbay 11	Order number: 51HN12DA3JDA EAN: 4069025424570	LP number 59710_491
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°	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

## Photometric test report

Family Highbay 11	Order number: 51HN12DA3JDA EAN: 4069025424570	LP number 59710_491
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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	23.1	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	22.7
	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	22.4	22.9	21.1	21.9	21.5	22.3	22.7
	12H	21.2	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	20.8	21.9	21.2	22.2	22.6
	3H	21.2	22.0	21.6	22.4	22.8	20.9	21.8	21.3	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	21.1	21.8	21.6	22.2	22.7	21.0	21.6	21.5	22.1	22.5
	8H	21.1	21.7	21.6	22.1	22.6	21.0	21.6	21.5	22.0	22.5
	12H	21.1	21.6	21.6	22.1	22.6	21.1	21.5	21.5	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	21.5	21.6	22.0	22.5	20.9	21.4	21.4	21.9	22.4
	8H	21.0	21.5	21.5	21.9	22.5	21.0	21.4	21.5	21.9	22.4
	12H	21.0	21.3	21.6	21.9	22.4	21.0	21.3	21.5	21.8	22.4
12H	4H	21.1	21.6	21.6	22.0	22.5	20.9	21.4	21.4	21.8	22.3
	6H	21.1	21.4	21.6	21.9	22.5	21.0	21.3	21.5	21.8	22.3
	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	$\gamma$	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°		32236.2	31564.9	32811.2	33652.3	30022.4	28188.1	28105.2
50,0°		17960.8	17536.1	17517.7	17830.5	16000.1	15255.6	14993.9
55,0°		11287.3	10985.5	11142.3	11398.1	10339.6	9719.4	9602.5
60,0°		8118.4	7837.0	8234.5	8481.7	7941.2	7354.1	7447.7
65,0°		6850.2	6231.5	6642.0	6928.4	6784.5	6274.2	6628.6
70,0°		5887.8	5372.0	5942.4	5749.2	6307.1	5741.3	6270.1
75,0°		4852.2	4494.2	4482.2	4793.7	4980.6	5331.2	5943.0
80,0°		3276.0	3056.7	3234.6	3494.1	3943.9	4638.7	5287.6
85,0°		1308.5	1301.8	1344.2	1573.8	2327.2	3100.8	4017.0

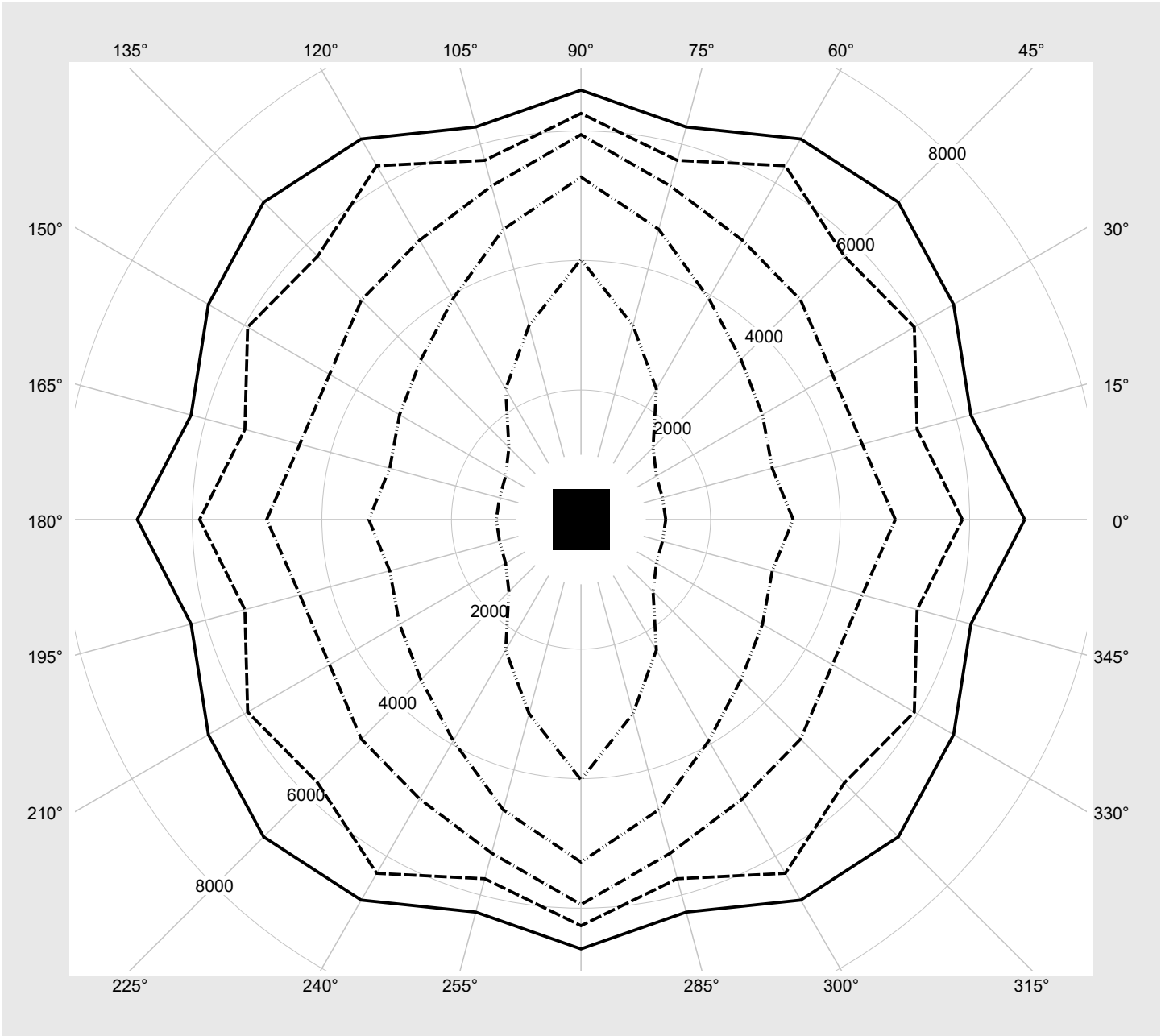
**Photometric test report**

<b>Family</b> Highbay 11	<b>Order number: 51HN12DA3JDA</b> <b>EAN: 4069025424570</b>	<b>LP number</b> 59710_491
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**Luminance values in cd/m<sup>2</sup>**

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

**siteco**



## Photometric test report

Family Highbay 11	Order number: 51HN12DA3JDA EAN: 4069025424570	LP number 59710_491
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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	21850	117.2
95	240	252	20731	110.5
90	227	250	19685	104.4
85	213	248	18545	97.8
80	200	245	17481	91.6
75	187	243	16405	85.6
70	174	240	15326	79.4
65	161	237	14235	73.5
60	148	234	13136	67.6
55	135	231	12028	61.6
50	122	227	10913	55.5
45	109	223	9789	49.6
40	97	219	8739	44.2
35	85	214	7685	38.9
30	72	208	6529	33.1
25	60	201	5457	27.8
20	48	193	4376	22.6
15	36	182	3281	17.4
10	24	168	2182	12.0
5	12	142	1069	6.5
2	6	117	511	3.8