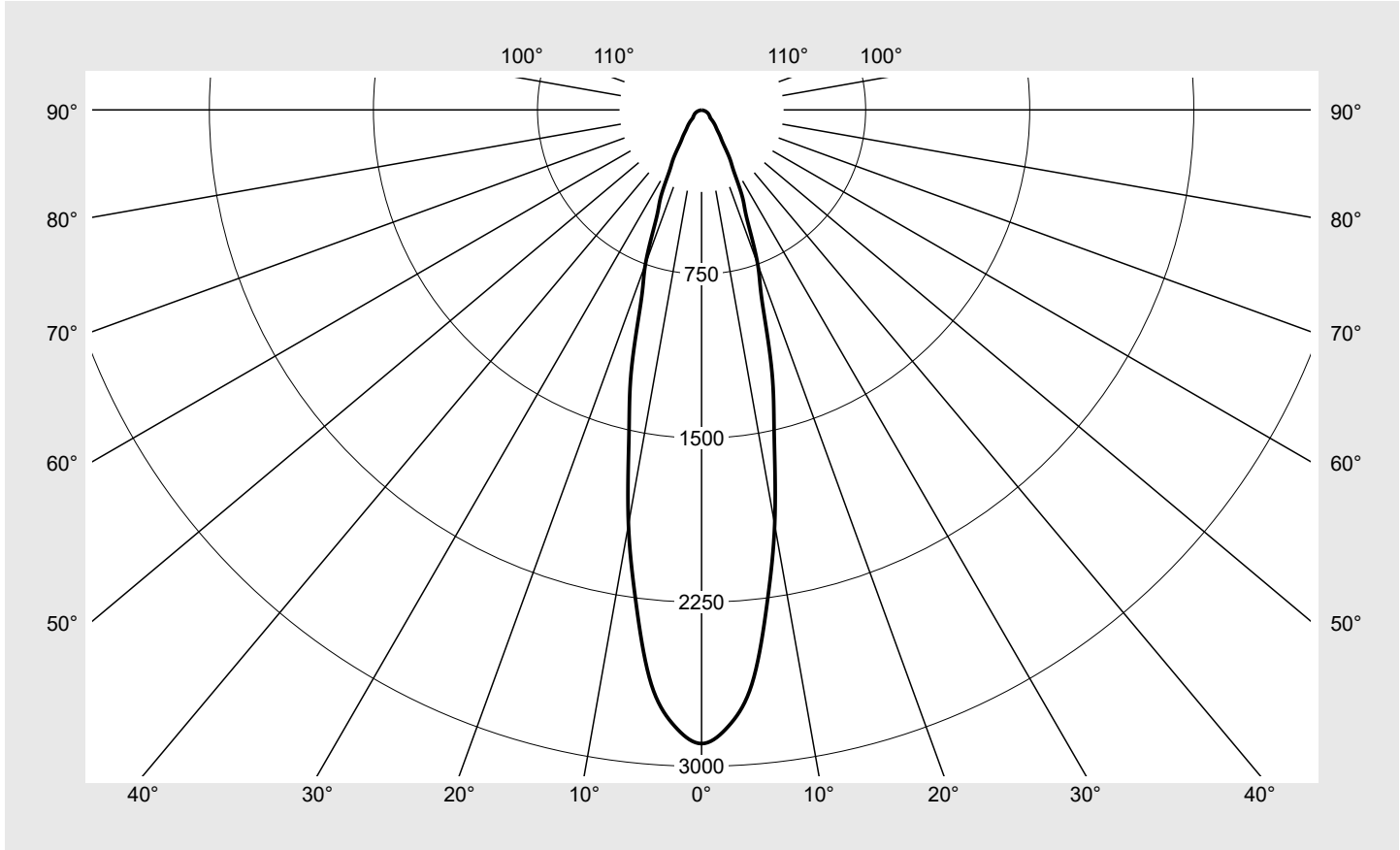


# Photometric test report

<b>Family</b> <b>Highbay 11 Xtreme</b>	<b>Order number: 51HF61DB4QMA</b> <b>EAN: 4058352919774</b>	<b>LP number</b> <b>59307_18</b>
	<b>Version</b> narrow distribution, toughened safety glass, chain suspension	<b>serial documentation</b> <b>19.10.2023</b>
	<b>Lamps</b> LED 4000 K   CRI ≥ 80	
<b>Controlgear</b> ECG-DALI		
<b>Rated values</b>		
Net luminous flux = 37300 lm		
Power consumption = 193.8 W		
Luminous efficacy = 192.5 lm/W		

**Luminous intensity in cd/klm** C180-0 **Imax: 2896 cd/klm**



Classifications	
DIN 5040	A 7 0
CIE	N1=88 N2=96 N3=99 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

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<b>Table of values for luminous intensities</b>	<b>Maximum luminous intensity</b>	<b>sITeco</b>
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C-planes	0°	Phi-zone	Total Phi-zone
$\gamma$	Luminous intensity in cd/klm	Luminous flux in lm/klm	
0,0°	2896.3	4.3	4.3
2,5°	2819.4	33.7	38.0
5,0°	2635.7	63.0	101.0
7,5°	2284.5	81.7	182.8
10,0°	1924.6	91.6	274.4
12,5°	1534.7	91.1	365.4
15,0°	1244.7	88.3	453.7
17,5°	921.9	76.0	529.7
20,0°	750.6	70.4	600.1
22,5°	545.9	57.3	657.4
25,0°	444.2	51.5	708.8
27,5°	324.2	41.0	749.9
30,0°	259.7	35.6	785.5
32,5°	186.5	27.5	812.9
35,0°	150.0	23.6	836.5
37,5°	119.7	20.0	856.5
40,0°	101.4	17.9	874.3
42,5°	86.4	16.0	890.3
45,0°	69.3	13.4	903.8
47,5°	53.2	10.7	914.5
50,0°	50.3	10.6	925.1
52,5°	46.2	10.0	935.1
55,0°	42.5	9.5	944.7
57,5°	39.0	9.0	953.7
60,0°	36.5	8.7	962.4
62,5°	32.1	7.8	970.2
65,0°	28.9	7.2	977.4
67,5°	23.8	6.0	983.4
70,0°	20.2	5.2	988.6
72,5°	15.0	3.9	992.5
75,0°	11.9	3.1	995.6
77,5°	7.9	2.1	997.8
80,0°	5.0	1.4	999.1
82,5°	2.2	0.6	999.7
85,0°	0.8	0.2	999.9
87,5°	0.3	0.1	1000.0
90,0°	0.0	0.0	1000.0

## Photometric test report

Family <b>Highbay 11 Xtreme</b>	Order number: <b>51HF61DB4QMA</b> EAN: <b>4058352919774</b>	LP number <b>59307_18</b>
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<b>UGR-Table</b>	<b>Standard room</b>	<b>siteco</b>
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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	19.6	20.8	20.0	21.1	21.4	19.6	20.8	20.0	21.1	21.4
	3H	20.7	21.7	21.1	22.0	22.4	20.7	21.7	21.1	22.0	22.4
	4H	21.0	21.9	21.4	22.3	22.7	21.0	21.9	21.4	22.3	22.7
	6H	21.1	22.0	21.6	22.3	22.7	21.1	22.0	21.6	22.3	22.7
	8H	21.2	21.9	21.7	22.3	22.7	21.2	21.9	21.7	22.3	22.7
	12H	21.2	21.8	21.6	22.2	22.6	21.2	21.8	21.6	22.2	22.6
4H	2H	20.1	21.0	20.5	21.4	21.8	20.1	21.0	20.5	21.4	21.8
	3H	21.3	22.1	21.7	22.5	22.9	21.3	22.1	21.7	22.5	22.9
	4H	21.7	22.3	22.1	22.8	23.2	21.7	22.3	22.1	22.8	23.2
	6H	21.8	22.4	22.3	22.8	23.3	21.8	22.4	22.3	22.8	23.3
	8H	21.8	22.3	22.3	22.8	23.3	21.8	22.3	22.3	22.8	23.3
	12H	21.8	22.2	22.3	22.7	23.2	21.8	22.2	22.3	22.7	23.2
8H	4H	21.8	22.3	22.3	22.7	23.2	21.8	22.3	22.3	22.7	23.2
	6H	22.0	22.4	22.5	22.9	23.4	22.0	22.4	22.5	22.9	23.4
	8H	22.0	22.3	22.5	22.8	23.4	22.0	22.3	22.5	22.8	23.4
	12H	21.9	22.2	22.5	22.7	23.3	21.9	22.2	22.5	22.7	23.3
12H	4H	21.8	22.2	22.3	22.7	23.2	21.8	22.2	22.3	22.7	23.2
	6H	22.0	22.3	22.5	22.8	23.3	22.0	22.3	22.5	22.8	23.3
	8H	21.9	22.2	22.5	22.8	23.3	21.9	22.2	22.5	22.8	23.3

<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	Photometric dimensions in mm:	L = 545 B = 235
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C-planes	0°
$\gamma$	Luminance in cd/m <sup>2</sup>
45,0°	28556.5
50,0°	22779.2
55,0°	21587.2
60,0°	21270.1
65,0°	19945.3
70,0°	17164.9
75,0°	13373.6
80,0°	8426.0
85,0°	2546.3

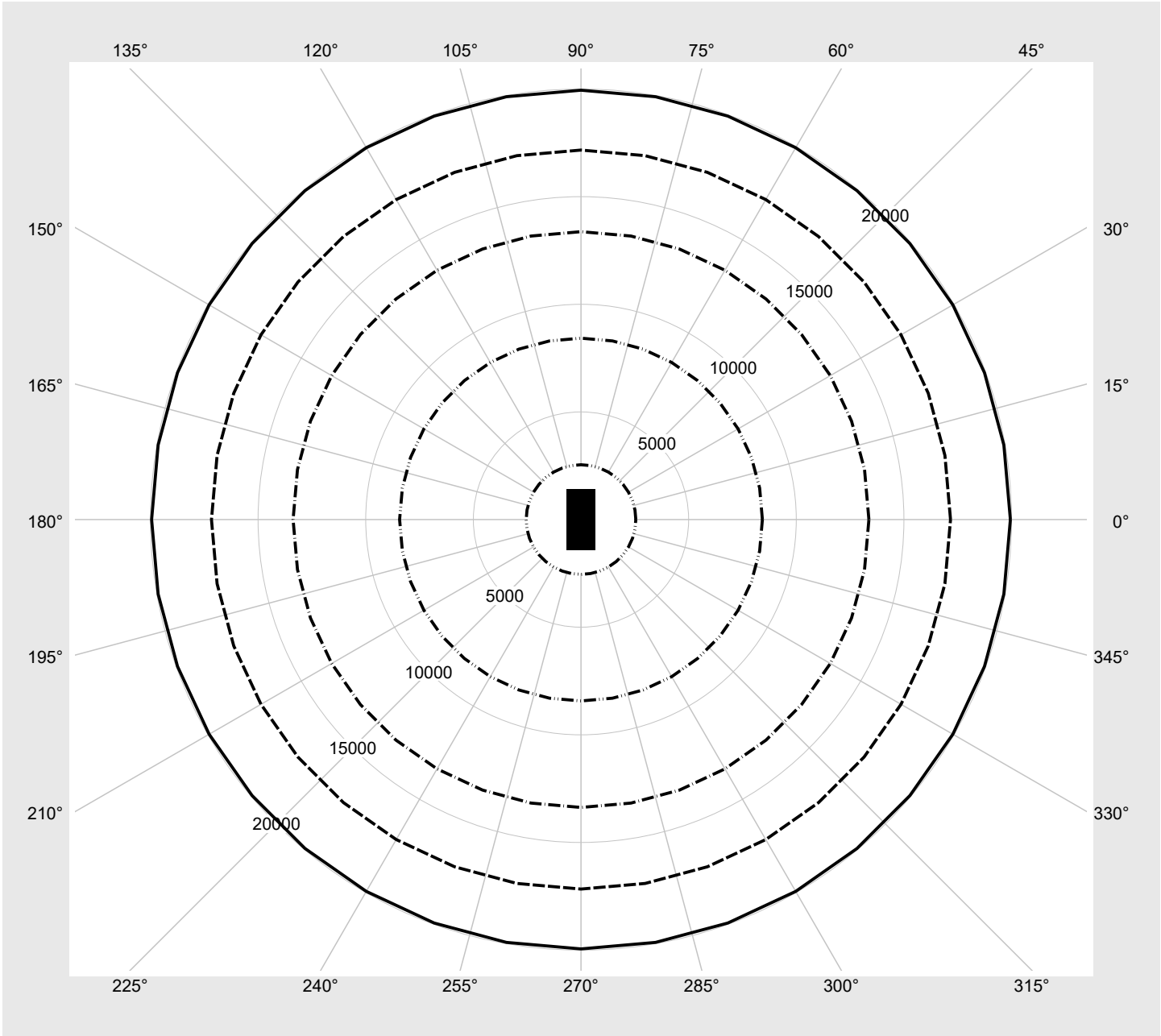
**Photometric test report**

<b>Family</b> Highbay 11 Xtreme	<b>Order number: 51HF61DB4QMA</b> <b>EAN: 4058352919774</b>	<b>LP number</b> 59307_18
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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

<b>Family</b> Highbay 11 Xtreme	<b>Order number: 51HF61DB4QMA</b> <b>EAN: 4058352919774</b>	<b>LP number</b> 59307_18
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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	37300	193.8
95	241	252	35499	183.9
90	227	250	33542	173.4
85	214	248	31712	163.8
80	201	245	29879	154.1
75	188	243	28027	144.5
70	175	240	26167	134.7
65	162	238	24296	125.2
60	149	234	22408	115.6
55	136	231	20518	106.2
50	123	227	18619	96.7
45	111	224	16841	87.9
40	98	219	14921	78.4
35	85	214	12987	69.1
30	73	208	11188	60.1
25	61	202	9373	50.9
20	48	193	7404	41.7
15	36	182	5572	32.9
10	24	168	3730	23.9
5	12	142	1878	15.7
3	7	122	1104	11.4

<b>Dimming levels table</b>	environmental temperature: 70°C
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	34900	191.9
95	240	252	33093	181.4
90	227	250	31400	171.7
85	214	248	29695	162.1
80	201	245	27986	152.5
75	187	243	26125	142.3
70	174	240	24390	132.5
65	161	237	22642	123.2
60	148	234	20879	113.7
55	136	231	19247	105.1
50	123	227	17472	95.7
45	110	223	15671	86.3
40	98	219	14013	77.6
35	85	214	12200	68.4
30	73	208	10515	59.5
25	60	201	8671	49.5
20	48	193	6965	41.2
15	36	182	5243	32.6
10	24	168	3513	23.6
5	12	142	1770	15.5
3	7	122	1040	11.3

**Photometric test report**

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<b>Luminousfluxs table</b>	<b>siteco</b>
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Temperature °C	Luminous flux lm	Power consumption W
25.0	37300.0	193.8
70.0	34900.0	191.9