

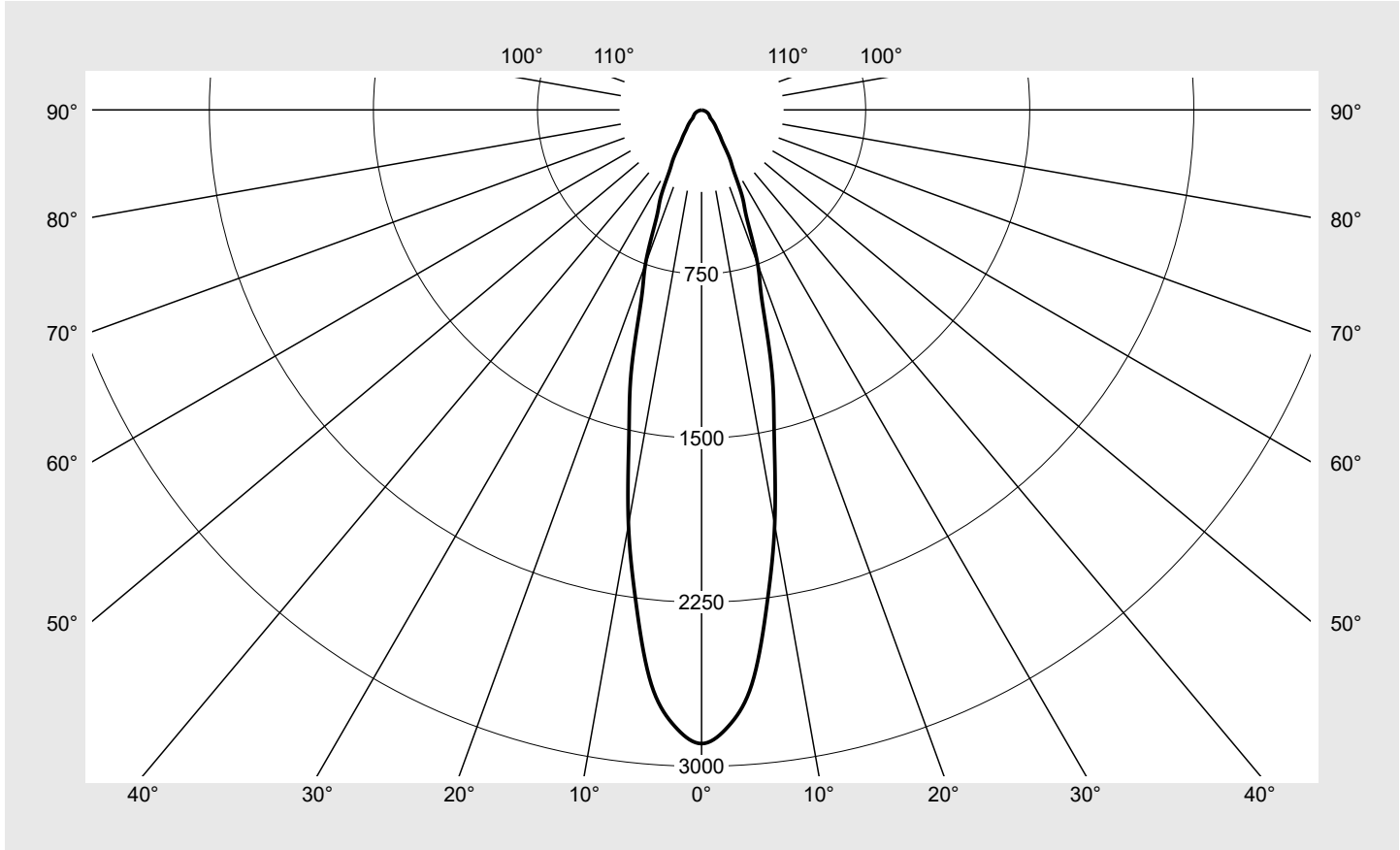


# Photometric test report

<b>Family</b> <b>Highbay 11 Xtreme</b>	<b>Order number: 51HF81DB4VMA</b> <b>EAN: 4058352919941</b>	<b>LP number</b> <b>59307_22</b>
	<b>Version</b> narrow distribution, toughened safety glass, chain suspension <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI <b>Rated values</b> Net luminous flux = 69400 lm Power consumption = 380.2 W Luminous efficacy = 182.5 lm/W	<b>serial documentation</b> <b>13.12.2023</b>
		

**Luminous intensity in cd/klm** C180-0 **I<sub>max</sub>: 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

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**sitEco**

<b>Table of values for luminous intensities</b>	<b>Maximum luminous intensity</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

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Family <b>Highbay 11 Xtreme</b>	Order number: <b>51HF81DB4VMA</b> EAN: <b>4058352919941</b>	LP number <b>59307_22</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	19.4	20.5	19.7	20.8	21.2	19.4	20.5	19.7	20.8	21.2
	3H	20.5	21.5	20.9	21.8	22.1	20.5	21.5	20.9	21.8	22.1
	4H	20.8	21.7	21.2	22.0	22.4	20.8	21.7	21.2	22.0	22.4
	6H	20.9	21.7	21.3	22.1	22.5	20.9	21.7	21.3	22.1	22.5
	8H	21.0	21.7	21.4	22.0	22.5	21.0	21.7	21.4	22.0	22.5
	12H	20.9	21.6	21.4	22.0	22.4	20.9	21.6	21.4	22.0	22.4
4H	2H	19.9	20.8	20.3	21.1	21.5	19.9	20.8	20.3	21.1	21.5
	3H	21.1	21.8	21.5	22.2	22.6	21.1	21.8	21.5	22.2	22.6
	4H	21.4	22.1	21.9	22.5	23.0	21.4	22.1	21.9	22.5	23.0
	6H	21.6	22.2	22.0	22.6	23.1	21.6	22.2	22.0	22.6	23.1
	8H	21.6	22.1	22.1	22.5	23.0	21.6	22.1	22.1	22.5	23.0
	12H	21.6	22.0	22.1	22.5	23.0	21.6	22.0	22.1	22.5	23.0
8H	4H	21.5	22.0	22.0	22.5	23.0	21.5	22.0	22.0	22.5	23.0
	6H	21.7	22.1	22.2	22.6	23.1	21.7	22.1	22.2	22.6	23.1
	8H	21.7	22.1	22.2	22.6	23.1	21.7	22.1	22.2	22.6	23.1
	12H	21.7	22.0	22.2	22.5	23.0	21.7	22.0	22.2	22.5	23.0
12H	4H	21.5	21.9	22.0	22.4	22.9	21.5	21.9	22.0	22.4	22.9
	6H	21.7	22.0	22.2	22.5	23.1	21.7	22.0	22.2	22.5	23.1
	8H	21.7	22.0	22.2	22.5	23.0	21.7	22.0	22.2	22.5	23.0

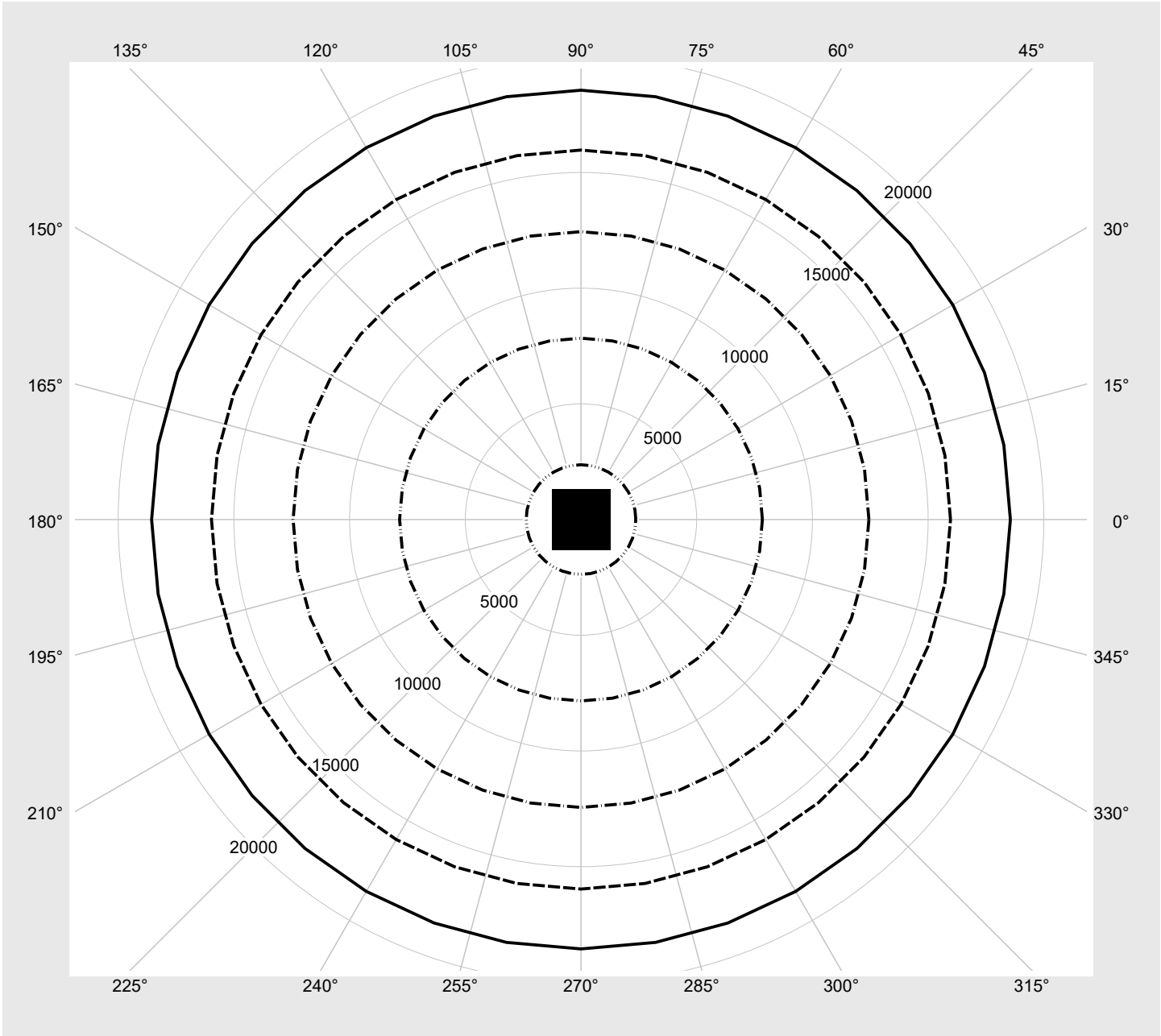
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	Photometric dimensions in mm:	L = 545 B = 470
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C-planes	0°
$\gamma$	Luminance in cd/m <sup>2</sup>
45,0°	26566.0
50,0°	21191.3
55,0°	20082.4
60,0°	19787.5
65,0°	18555.0
70,0°	15968.4
75,0°	12441.4
80,0°	7838.7
85,0°	2368.8

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**Luminance values in cd/m<sup>2</sup>**     γ 65°   γ 70°   γ 75°   γ 80°   γ 85°     **siteco**



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**siteco**

### Dimming levels table environmental temperature: 25°C

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	69400	380.2
95	240	252	65859	358.3
90	227	250	62567	338.2
85	213	248	58983	315.9
80	200	245	55602	296.8
75	186	243	51982	275.3
70	173	240	48558	255.6
65	160	237	45110	235.6
60	147	234	41641	216.2
55	134	231	38147	197.1
50	121	227	34600	178.3
45	109	223	31301	160.1
40	96	218	27813	141.9
35	84	213	24284	124.3
30	72	208	20951	106.9
25	59	201	17241	88.1
20	47	192	13790	70.7
15	35	181	10303	53.7
10	24	168	7075	38.3
5	12	142	3521	21.4
2	4	102	1136	10.4

### Dimming levels table environmental temperature: 45°C

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	67880	376.8
95	240	252	64423	355.1
90	227	250	61215	335.1
85	213	248	57715	313.1
80	200	245	54411	294.1
75	186	243	50876	272.8
70	173	240	47529	253.3
65	160	237	44159	233.4
60	147	234	40769	214.2
55	134	231	37351	195.2
50	121	227	33883	176.7
45	109	223	30655	158.6
40	96	218	27242	140.5
35	84	213	23788	123.1
30	71	207	20246	104.5
25	59	201	16891	87.3
20	47	192	13512	70.0
15	35	181	10096	53.2
10	23	166	6646	36.5
5	12	142	3452	21.2
2	4	102	1113	10.3

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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	69400.0	380.2
45.0	67880.0	376.8