

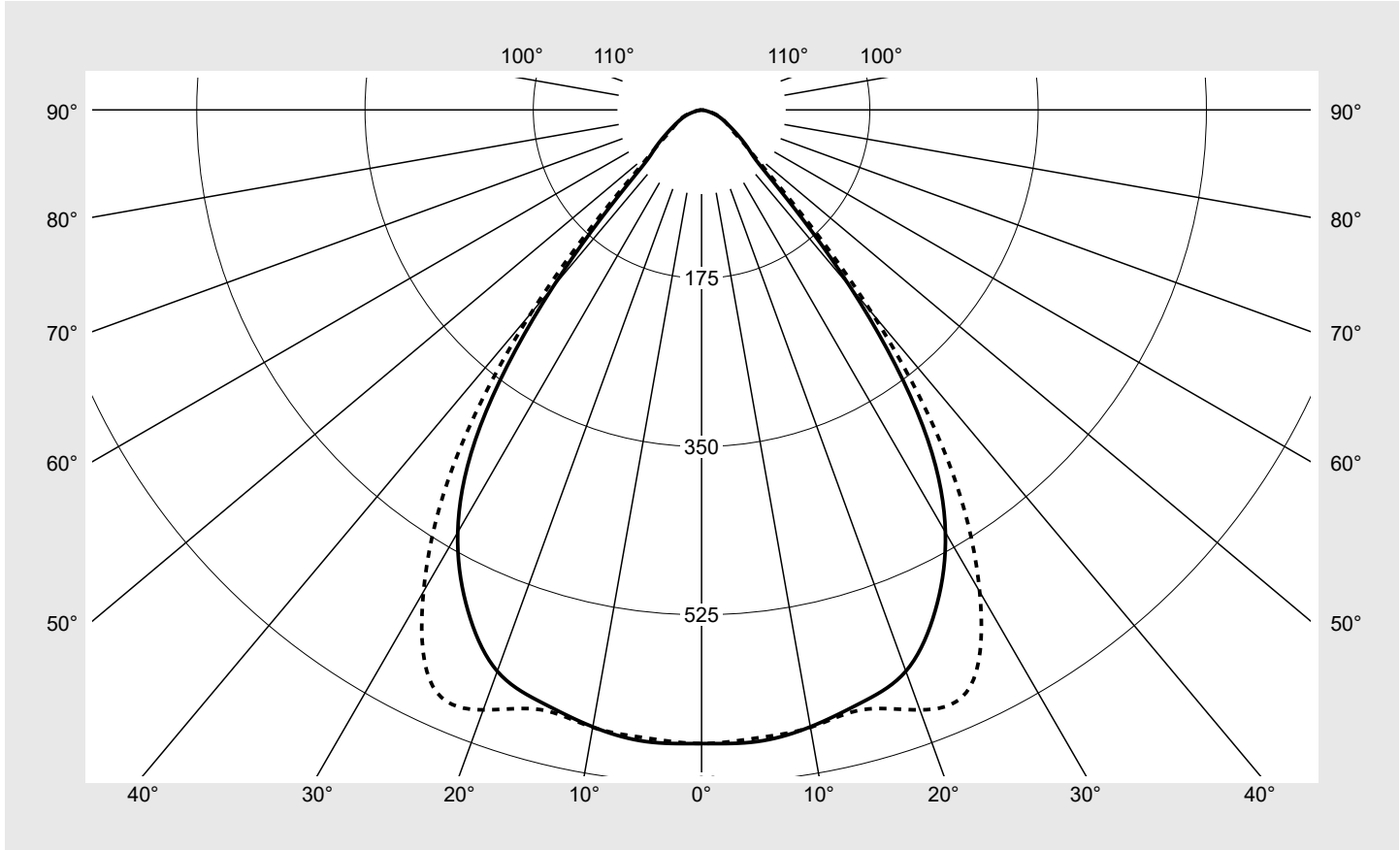


# Photometric test report

<b>Family</b> <b>Highbay 11 Xtreme</b>	<b>Order number: 51HF82DB4VMA</b> <b>EAN: 4058352920015</b>	<b>LP number</b> <b>59481_13</b>
	<b>Version</b> wide 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 = 68500 lm Power consumption = 380.3 W Luminous efficacy = 180.1 lm/W		

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 665 cd/klm**



Classifications	
DIN 5040	A 6 0
CIE	N1=83 N2=96 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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<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<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°	658.9	658.9	658.9	658.9	658.9	658.9	658.9	3.9	3.9
5°	659.4	658.0	657.6	657.5	656.3	656.4	655.7	31.4	35.3
10°	651.4	650.9	652.2	654.2	654.0	653.1	651.9	62.1	97.5
15°	638.5	638.9	644.0	649.4	650.3	647.7	645.7	91.6	189.0
20°	621.1	623.4	633.8	648.8	662.5	665.0	663.9	121.1	310.1
25°	574.8	581.6	605.3	632.9	653.3	661.4	661.4	144.9	455.0
30°	507.1	516.1	549.5	579.4	585.2	579.5	578.4	153.1	608.1
35°	401.0	412.8	459.3	493.1	482.7	458.1	448.6	143.1	751.2
40°	241.2	257.9	312.8	355.4	335.4	297.6	275.9	106.7	858.0
45°	104.4	112.7	137.4	158.8	151.2	131.0	122.3	52.0	909.9
50°	64.5	64.2	65.8	69.0	66.2	63.4	64.8	27.5	937.5
55°	46.7	46.0	43.6	42.3	40.8	40.9	42.1	19.3	956.8
60°	33.4	31.7	30.6	30.2	31.1	31.3	32.1	14.9	971.6
65°	24.6	23.1	22.4	22.7	24.0	23.8	25.6	11.7	983.3
70°	17.3	16.4	15.6	16.8	17.7	18.3	19.2	8.8	992.2
75°	9.4	9.7	9.3	10.5	10.4	10.4	11.2	5.3	997.5
80°	3.2	3.3	3.5	4.0	4.3	4.4	4.5	2.1	999.6
85°	0.5	0.5	0.5	0.6	0.8	1.0	1.1	0.4	1000.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0

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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	22.9	24.3	23.3	24.6	24.9	23.4	24.7	23.7	25.0	25.3
	3H	23.1	24.3	23.5	24.6	25.0	23.6	24.7	23.9	25.1	25.4
	4H	23.2	24.2	23.6	24.6	25.0	23.6	24.7	24.0	25.1	25.4
	6H	23.1	24.1	23.6	24.5	24.9	23.6	24.6	24.1	25.0	25.4
	8H	23.2	24.1	23.6	24.4	24.8	23.7	24.6	24.1	24.9	25.3
	12H	23.2	24.0	23.6	24.4	24.8	23.7	24.5	24.1	24.9	25.3
4H	2H	22.9	24.0	23.3	24.3	24.7	23.3	24.4	23.7	24.8	25.1
	3H	23.2	24.1	23.6	24.4	24.9	23.6	24.5	24.0	24.9	25.3
	4H	23.3	24.0	23.7	24.5	24.9	23.7	24.5	24.2	24.9	25.4
	6H	23.3	23.9	23.7	24.4	24.8	23.8	24.4	24.2	24.9	25.3
	8H	23.2	23.8	23.7	24.3	24.8	23.7	24.3	24.2	24.8	25.3
	12H	23.2	23.7	23.7	24.2	24.7	23.8	24.3	24.2	24.7	25.2
8H	4H	23.2	23.8	23.7	24.3	24.8	23.7	24.3	24.2	24.8	25.2
	6H	23.2	23.7	23.7	24.2	24.7	23.7	24.2	24.2	24.7	25.2
	8H	23.2	23.6	23.7	24.1	24.7	23.7	24.1	24.2	24.6	25.2
	12H	23.2	23.5	23.7	24.0	24.6	23.7	24.1	24.2	24.6	25.1
12H	4H	23.3	23.8	23.7	24.2	24.7	23.7	24.2	24.2	24.7	25.2
	6H	23.2	23.6	23.8	24.1	24.7	23.7	24.1	24.2	24.6	25.1
	8H	23.2	23.5	23.7	24.1	24.6	23.7	24.0	24.2	24.6	25.1

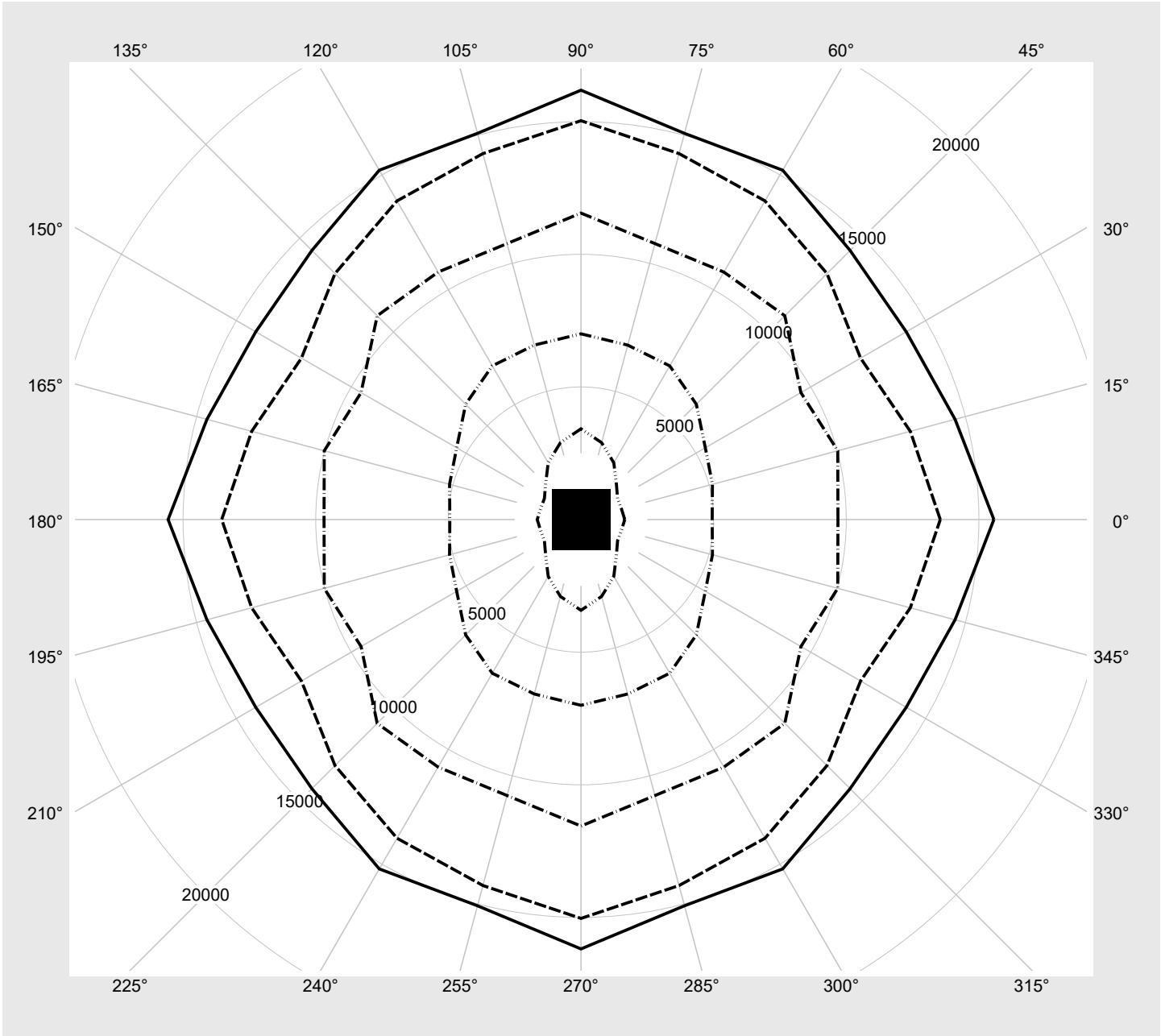
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 545</b> <b>B = 470</b>
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C-planes	$\gamma$	0° 180°	15°	30°	45°	60°	75°	90° 270°
			165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°	
Luminance in cd/m²								
45°		39466.1	42606.6	51967.2	60067.7	57173.4	49544.9	46269.0
50°		26830.0	26697.7	27354.6	28716.3	27539.8	26396.5	26962.7
55°		21792.3	21445.9	20328.8	19709.6	19038.2	19090.9	19607.5
60°		17856.8	16972.7	16387.1	16166.7	16614.4	16759.8	17146.5
65°		15565.6	14599.3	14158.3	14347.5	15208.7	15073.9	16187.0
70°		13544.6	12852.7	12170.9	13115.4	13873.0	14283.5	15037.3
75°		9686.6	10020.3	9572.9	10865.5	10773.6	10771.5	11554.7
80°		4945.0	5129.8	5411.6	6149.3	6689.8	6808.4	7002.5
85°		1650.8	1577.1	1592.5	1887.0	2473.1	3000.8	3421.2

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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	68500	380.3
95	240	252	65005	358.4
90	227	250	61757	338.3
85	213	248	58219	316.0
80	200	245	54881	296.9
75	186	243	51308	275.4
70	173	240	47928	255.6
65	160	237	44525	235.6
60	147	234	41102	216.3
55	134	231	37653	197.2
50	121	227	34152	178.4
45	109	223	30896	160.1
40	96	218	27455	141.9
35	84	213	23968	124.4
30	72	208	20679	107.0
25	59	201	17018	88.1
20	47	192	13611	70.7
15	35	181	10169	53.7
10	24	168	6984	38.3
5	12	142	3476	21.4
2	4	102	1121	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	67000	376.9
95	240	252	63589	355.2
90	227	250	60423	335.2
85	213	248	56967	313.2
80	200	245	53705	294.2
75	186	243	50217	272.8
70	173	240	46913	253.3
65	160	237	43587	233.4
60	147	234	40240	214.3
55	134	231	36867	195.3
50	121	227	33444	176.8
45	109	223	30258	158.6
40	96	218	26891	140.6
35	84	213	23479	123.2
30	71	207	19984	104.5
25	59	201	16672	87.3
20	47	192	13337	70.0
15	35	181	9965	53.2
10	23	166	6560	36.5
5	12	142	3407	21.2
2	4	102	1099	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	68500.0	380.3
45.0	67000.0	376.9