

## Lichttechnischer Prüfbefund

**Familie**  
Highbay 11 Xtreme

**Bestell-Nr.:** 51HF82DB4VMA  
**EAN:** 4058352920015

**LP-Nummer**  
59481\_13



**Ausführung** breit strahlend, Einscheibensicherheitsglas (ESG), Kettenabhängung  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG-DALI  
**Bemessungswerte** Nettolichtstrom = 68500 lm  
Systemleistung = 380.3 W  
Lichtausbeute = 180.1 lm/W

**Seriendokumentation**  
19.10.2023

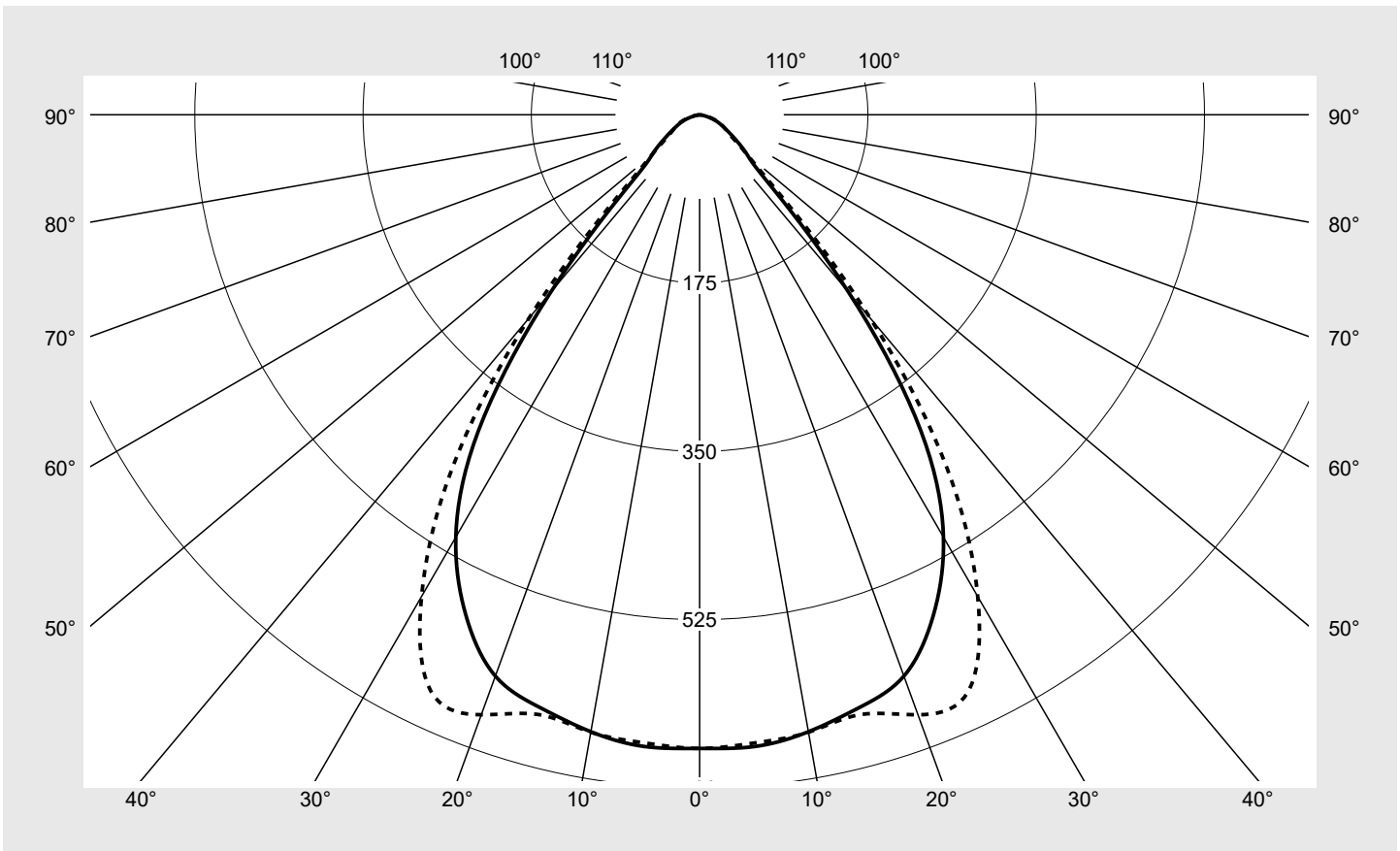
siteco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 665 cd/klm



#### Klassifizierungen

DIN 5040 A 6 0  
CIE N1=83 N2=96 N3=100  
N4=100 N5=100

#### Leuchtenbetriebswirkungsgrade

$\eta_{LB}$  100,0%  
 $\phi_u$  100,0%  
 $\phi_o$  0,0%

#### Messbedingungen

DIN EN 13032 und DIN 5032

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<b>Wertetabelle Lichtstärkemessung</b>		<b>Maximale Lichtstärke</b>
		<b>sITeco</b>

C- Ebenen	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-Zone	Summe Phi-Zone
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			
Lichtstärke in cd/klm								Lichtstrom in lm/klm	
γ									
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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UGR-Tabelle		Standardraum									
		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
Raumabmessungen											
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

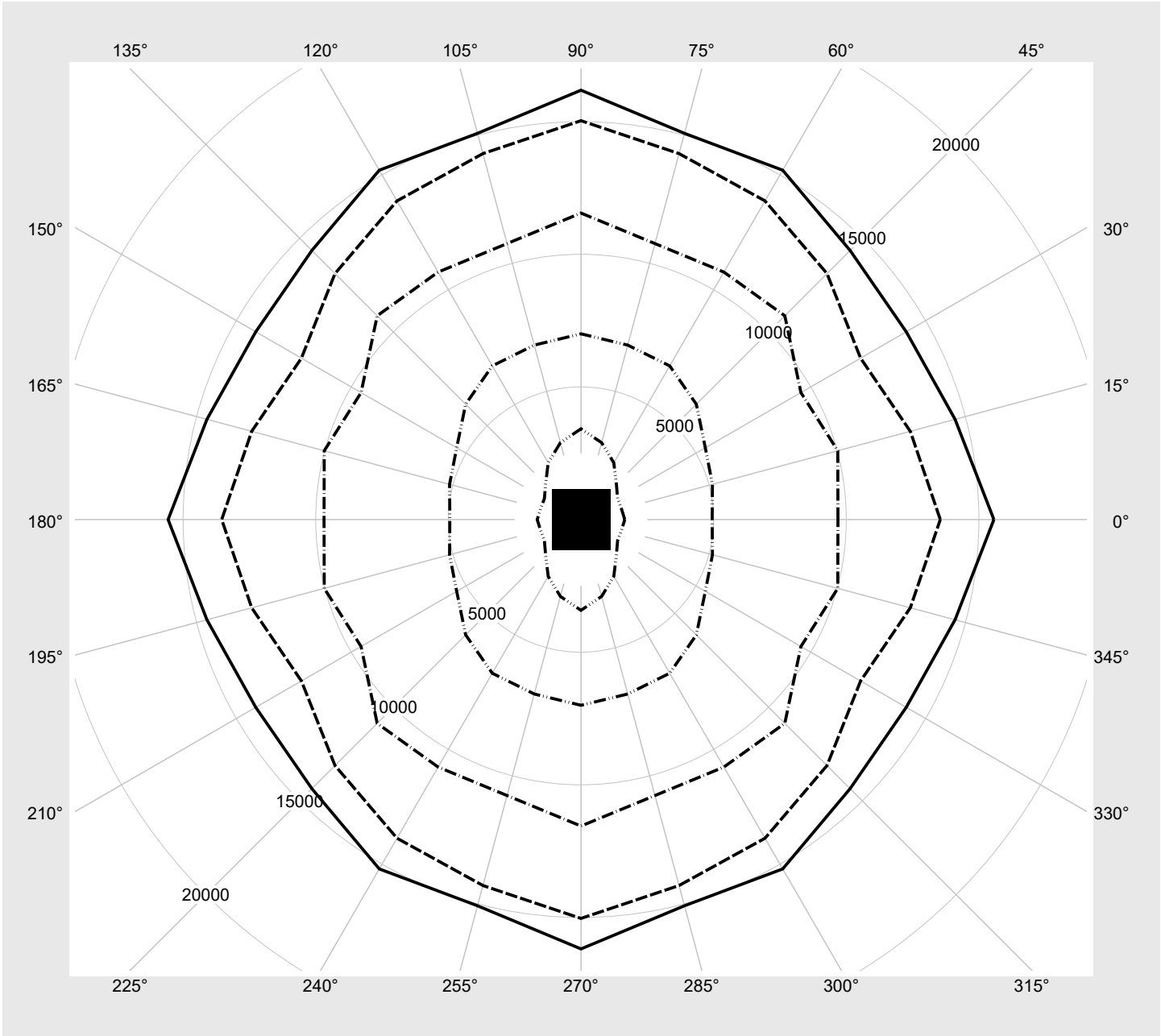
<b>Leuchtdichten-Tabelle</b> Max. für $\gamma \geq 65^\circ$	<b>Lichttechnische Abmessungen in mm:</b> L = 545 B = 470
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C-Ebenen	$\gamma$	Leuchtdichte in cd/m <sup>2</sup>						
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
45°		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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Leuchtdichten in cd/m<sup>2</sup>      γ 65°    γ 70°    γ 75°    γ 80°    γ 85°      **siteco**



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<b>Dimmstufen-Tabelle</b>	Umgebungstemperatur: 25°C	<b>siteco</b>
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Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [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

<b>Dimmstufen-Tabelle</b>	Umgebungstemperatur: 45°C
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Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [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>Lichtstrom-Tabelle</b>	<b>siteco</b>
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Temperatur °C	Lichtstrom lm	Systemleistung W
25.0	68500.0	380.3
45.0	67000.0	376.9