

## Lichttechnischer Prüfbefund

**Familie**  
Highbay 11 Xtreme

**Bestell-Nr.:** 51HF82DB4WMA  
**EAN:** 4058352920039

**LP-Nummer**  
59481\_11



**Ausführung** breit strahlend, Einscheibensicherheitsglas (ESG), Kettenabhängung  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG-DALI  
**Bemessungswerte** Nettolichtstrom = 75000 lm  
Systemleistung = 422.2 W  
Lichtausbeute = 177.6 lm/W

**Seriendokumentation**  
19.10.2023

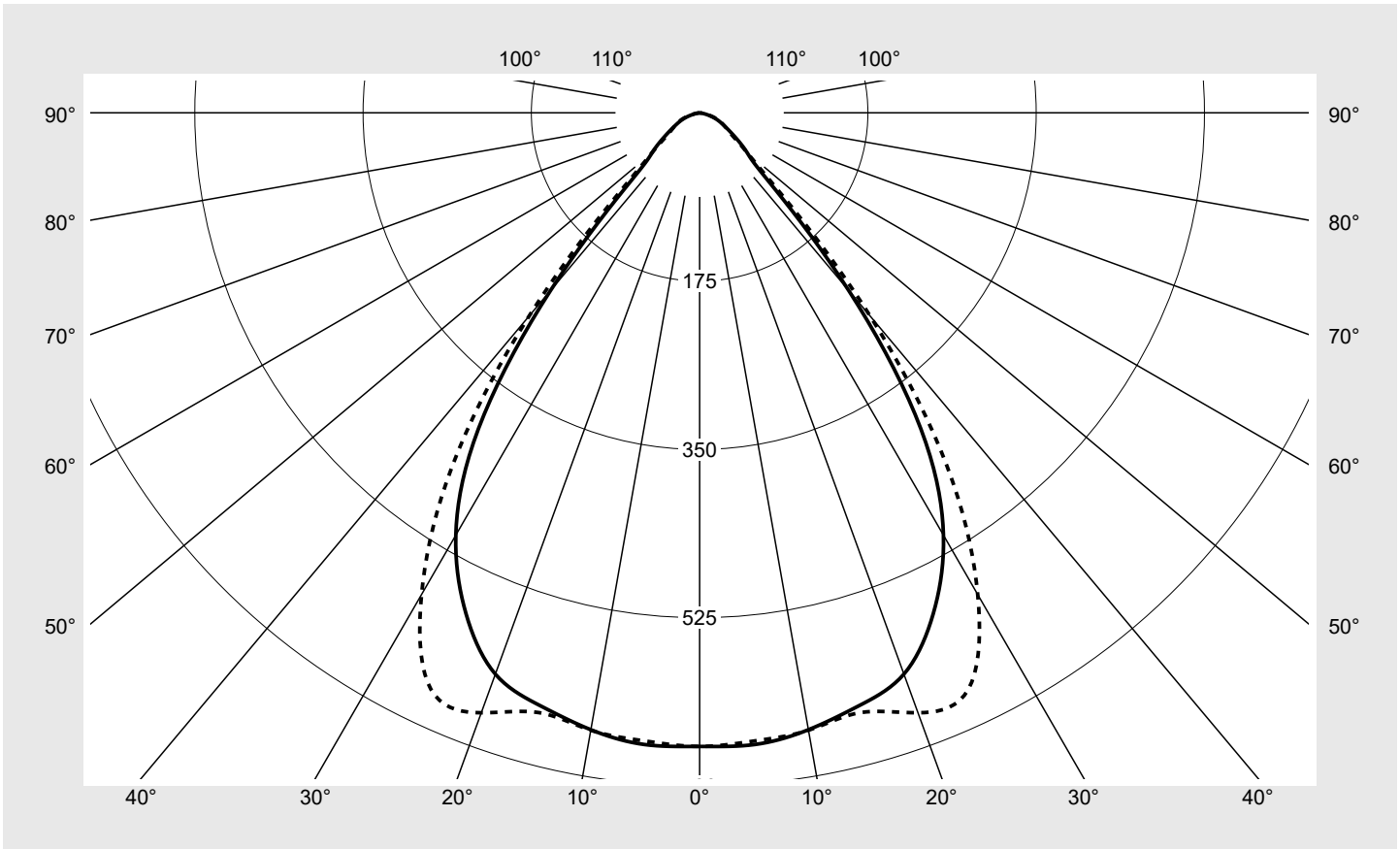
siteco

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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<b>UGR-Tabelle</b>	<b>Standardraum</b>	<b>siteco</b>
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Reflexionsgrad Decke	0,7	0,7	0,5	0,5	0,3	0,7	0,7	0,5	0,5	0,3	
Reflexionsgrad Wände	0,5	0,3	0,5	0,3	0,3	0,5	0,3	0,5	0,3	0,3	
Reflexionsgrad Boden	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2	
<b>Raumabmessungen</b>	<b>Blickrichtung quer zur Leuchte (C0)</b>					<b>Blickrichtung längs zur Leuchte (C90)</b>					
<b>x</b>	<b>y</b>										
2H	2H	23,2	24,6	23,6	24,9	25,2	23,7	25,0	24,0	25,3	25,6
	3H	23,4	24,6	23,8	24,9	25,3	23,9	25,1	24,3	25,4	25,7
	4H	23,5	24,6	23,9	24,9	25,3	24,0	25,0	24,3	25,4	25,8
	6H	23,5	24,4	23,9	24,8	25,2	24,0	24,9	24,4	25,3	25,7
	8H	23,5	24,4	23,9	24,8	25,2	24,0	24,9	24,4	25,3	25,7
	12H	23,5	24,3	23,9	24,7	25,1	24,0	24,8	24,4	25,2	25,6
4H	2H	23,2	24,3	23,6	24,6	25,0	23,6	24,7	24,0	25,1	25,5
	3H	23,5	24,4	23,9	24,8	25,2	23,9	24,8	24,4	25,2	25,6
	4H	23,6	24,4	24,0	24,8	25,2	24,0	24,8	24,5	25,2	25,7
	6H	23,6	24,2	24,0	24,7	25,1	24,1	24,7	24,5	25,2	25,6
	8H	23,5	24,2	24,0	24,6	25,1	24,1	24,7	24,5	25,1	25,6
	12H	23,5	24,1	24,0	24,5	25,0	24,1	24,6	24,6	25,0	25,5
8H	4H	23,6	24,2	24,0	24,6	25,1	24,0	24,6	24,5	25,1	25,5
	6H	23,6	24,1	24,0	24,5	25,0	24,0	24,5	24,5	25,0	25,5
	8H	23,5	24,0	24,0	24,4	25,0	24,0	24,5	24,5	25,0	25,5
	12H	23,5	23,9	24,0	24,4	24,9	24,0	24,4	24,5	24,9	25,4
12H	4H	23,6	24,1	24,1	24,5	25,0	24,0	24,5	24,5	25,0	25,5
	6H	23,6	24,0	24,1	24,4	25,0	24,0	24,4	24,5	24,9	25,5
	8H	23,5	23,9	24,0	24,4	24,9	24,0	24,4	24,5	24,9	25,4

<b>Leuchtdichten-Tabelle</b>	<b>Max. für <math>\gamma \geq 65^\circ</math></b>	<b>Lichttechnische Abmessungen in mm:</b>	<b>L = 545</b>	<b>B = 470</b>
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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°		43211.1	46649.6	56898.4	65767.6	62598.6	54246.3	50659.5	
50°		29375.9	29231.1	29950.3	31441.2	30153.0	28901.3	29521.2	
55°		23860.2	23480.9	22257.8	21579.9	20844.8	20902.5	21468.1	
60°		19551.2	18583.3	17942.0	17700.8	18190.9	18350.2	18773.6	
65°		17042.6	15984.7	15501.8	15708.9	16651.9	16504.3	17723.0	
70°		14829.9	14072.3	13325.8	14359.9	15189.5	15638.9	16464.2	
75°		10605.8	10971.2	10481.3	11896.6	11795.9	11793.6	12651.1	
80°		5414.2	5616.6	5925.1	6732.8	7324.6	7454.5	7666.9	
85°		1807.4	1726.8	1743.6	2066.1	2707.7	3285.6	3745.8	

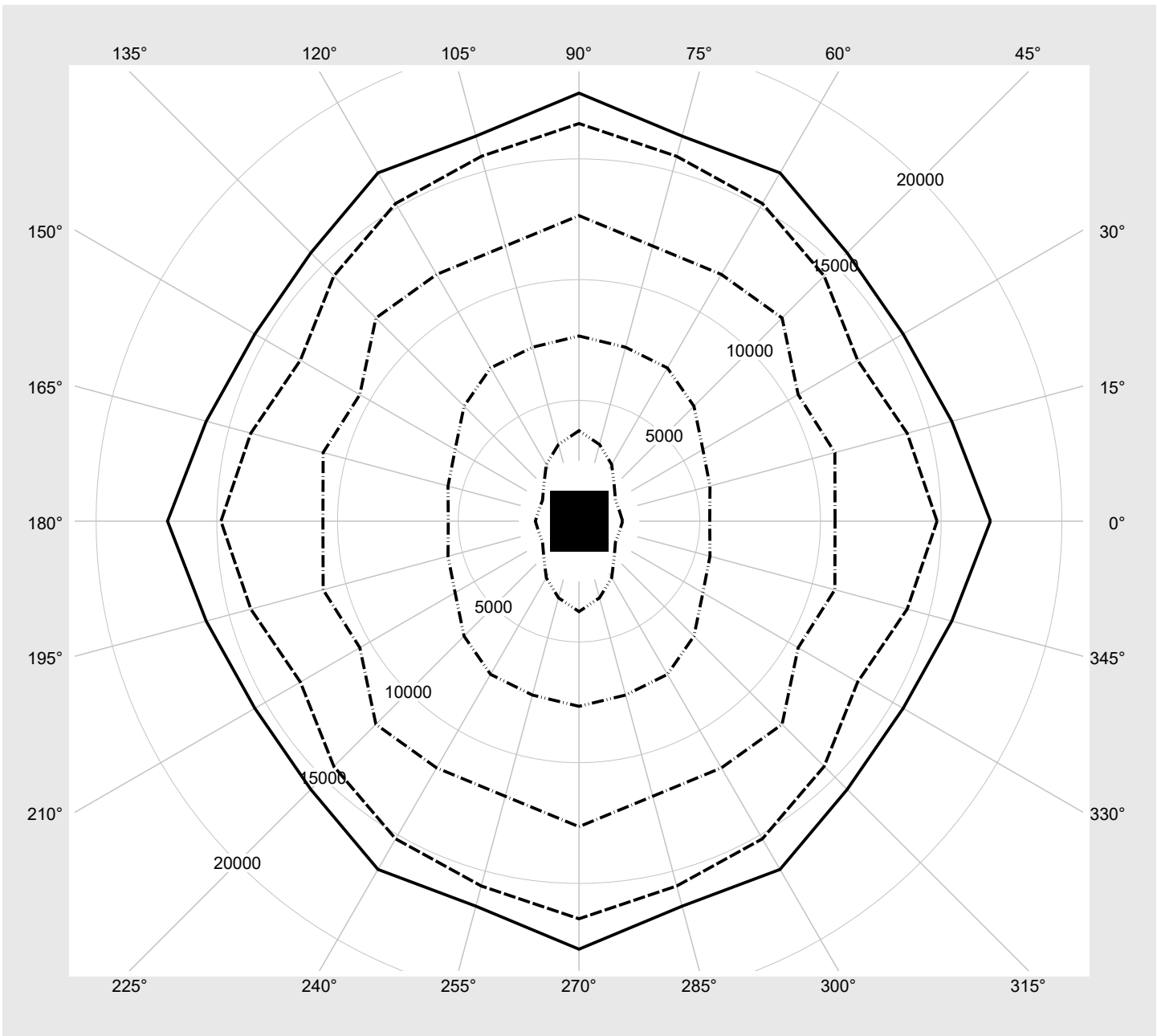
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**Leuchtdichten in cd/m<sup>2</sup>**

$\gamma$ 65°	$\gamma$ 70°	$\gamma$ 75°	$\gamma$ 80°	$\gamma$ 85°
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**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	75000	422.2
95	240	252	71234	397.9
90	226	250	67402	372.7
85	213	248	63819	350.5
80	199	245	59920	326.8
75	186	243	56299	304.2
70	173	240	52613	282.8
65	159	237	48610	259.5
60	146	234	44859	237.4
55	134	231	41371	217.8
50	121	227	37561	196.5
45	108	223	33688	175.9
40	96	218	30094	156.6
35	84	213	26420	137.6
30	71	207	22474	116.6
25	59	201	18762	97.0
20	47	192	15013	77.7
15	35	181	11223	58.9
10	23	166	7392	40.3
5	12	142	3844	23.2
2	4	102	1246	11.0

<b>Dimmstufen-Tabelle</b>	Umgebungstemperatur: 45°C
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Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [W]
100	254	254	73340	418.5
95	240	252	69669	394.3
90	226	250	65933	369.4
85	213	248	62435	347.3
80	199	245	58628	323.9
75	186	243	55094	301.5
70	172	240	51219	278.8
65	159	237	47581	257.1
60	146	234	43915	235.2
55	133	230	40219	214.2
50	121	227	36779	194.7
45	108	223	32991	174.3
40	96	218	29474	155.2
35	83	213	25532	135.3
30	71	207	22016	115.5
25	59	201	18381	96.1
20	47	192	14710	77.0
15	35	181	10998	58.3
10	23	166	7245	39.9
5	12	142	3767	23.0
2	4	102	1221	10.9

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<b>Lichtstrom-Tabelle</b>	<b>siteco</b>
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Temperatur °C	Lichtstrom lm	Systemleistung W
25.0	75000.0	422.2
45.0	73340.0	418.5