

## Lichttechnischer Prüfbefund

**Familie**  
Highbay 11 Xtreme

**Bestell-Nr.:** 51HF62DA4HMA  
**EAN:** 4058352919835

**LP-Nummer**  
59481\_2



**Ausführung** breit strahlend, Einscheibensicherheitsglas (ESG), Kettenabhängung  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG-DALI  
**Bemessungswerte** Nettolichtstrom = 18500 lm  
Systemleistung = 96.5 W  
Lichtausbeute = 191.7 lm/W

**Seriendokumentation**  
19.10.2023

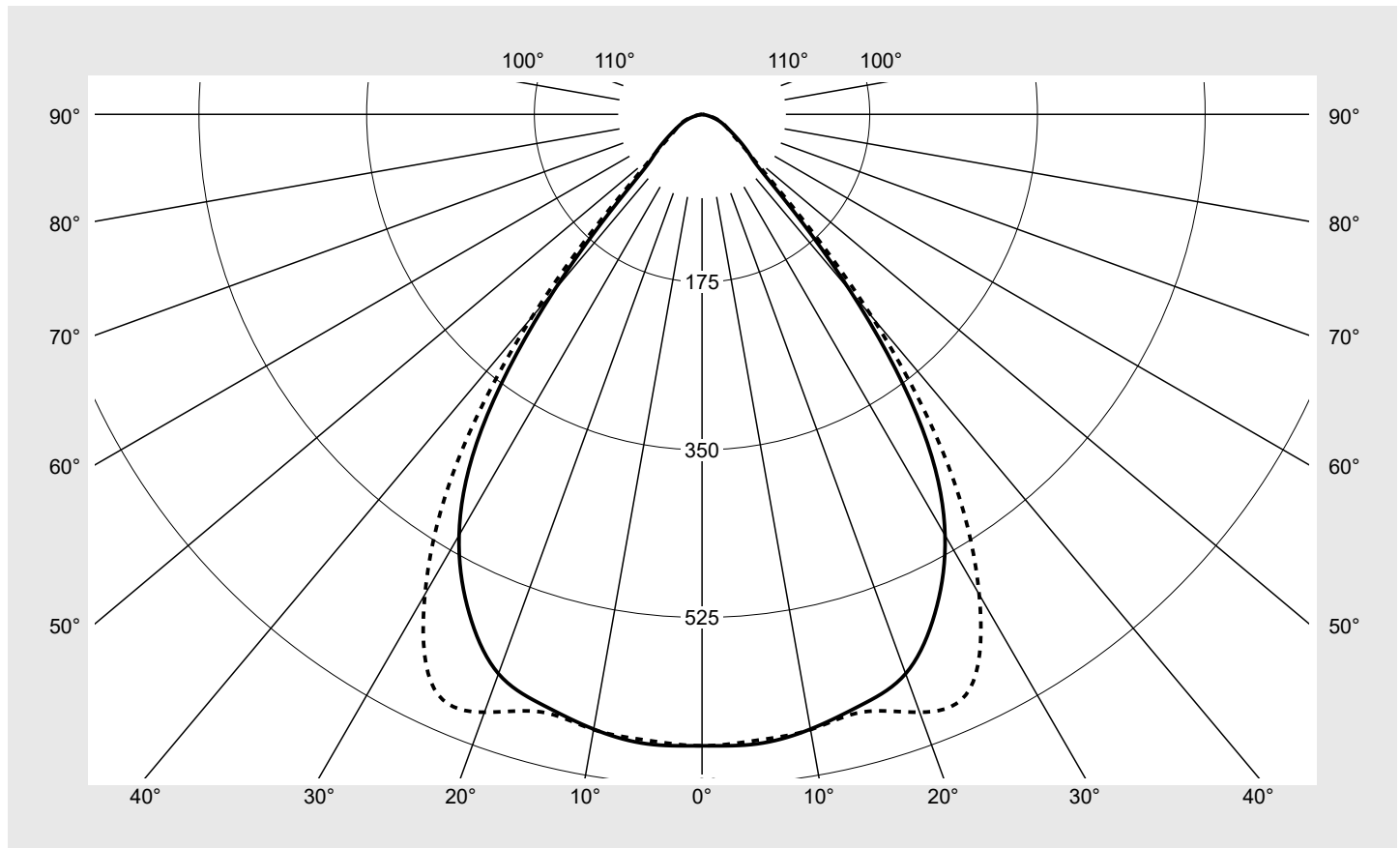
sitEco

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>
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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	18,4	19,7	18,7	20,0	20,3	18,8	20,2	19,2	20,5	20,8
	3H	18,6	19,7	18,9	20,1	20,4	19,0	20,2	19,4	20,5	20,9
	4H	18,6	19,7	19,0	20,1	20,4	19,1	20,2	19,5	20,5	20,9
	6H	18,6	19,6	19,0	20,0	20,3	19,1	20,1	19,5	20,4	20,8
	8H	18,6	19,5	19,1	19,9	20,3	19,2	20,0	19,6	20,4	20,8
	12H	18,6	19,4	19,1	19,8	20,2	19,1	19,9	19,6	20,3	20,7
4H	2H	18,4	19,4	18,7	19,8	20,2	18,8	19,9	19,2	20,2	20,6
	3H	18,6	19,5	19,0	19,9	20,3	19,1	20,0	19,5	20,4	20,8
	4H	18,7	19,5	19,1	19,9	20,4	19,2	20,0	19,6	20,4	20,8
	6H	18,7	19,4	19,2	19,8	20,3	19,2	19,9	19,7	20,3	20,8
	8H	18,7	19,3	19,1	19,7	20,2	19,2	19,8	19,7	20,2	20,7
	12H	18,7	19,2	19,2	19,7	20,1	19,2	19,7	19,7	20,2	20,7
8H	4H	18,7	19,3	19,2	19,8	20,2	19,1	19,8	19,6	20,2	20,7
	6H	18,7	19,2	19,2	19,7	20,2	19,2	19,7	19,7	20,2	20,7
	8H	18,7	19,1	19,2	19,6	20,1	19,2	19,6	19,7	20,1	20,6
	12H	18,6	19,0	19,2	19,5	20,0	19,2	19,5	19,7	20,0	20,6
12H	4H	18,7	19,2	19,2	19,7	20,2	19,1	19,7	19,6	20,1	20,6
	6H	18,7	19,1	19,2	19,6	20,1	19,2	19,6	19,7	20,1	20,6
	8H	18,7	19,0	19,2	19,5	20,0	19,2	19,5	19,7	20,0	20,5

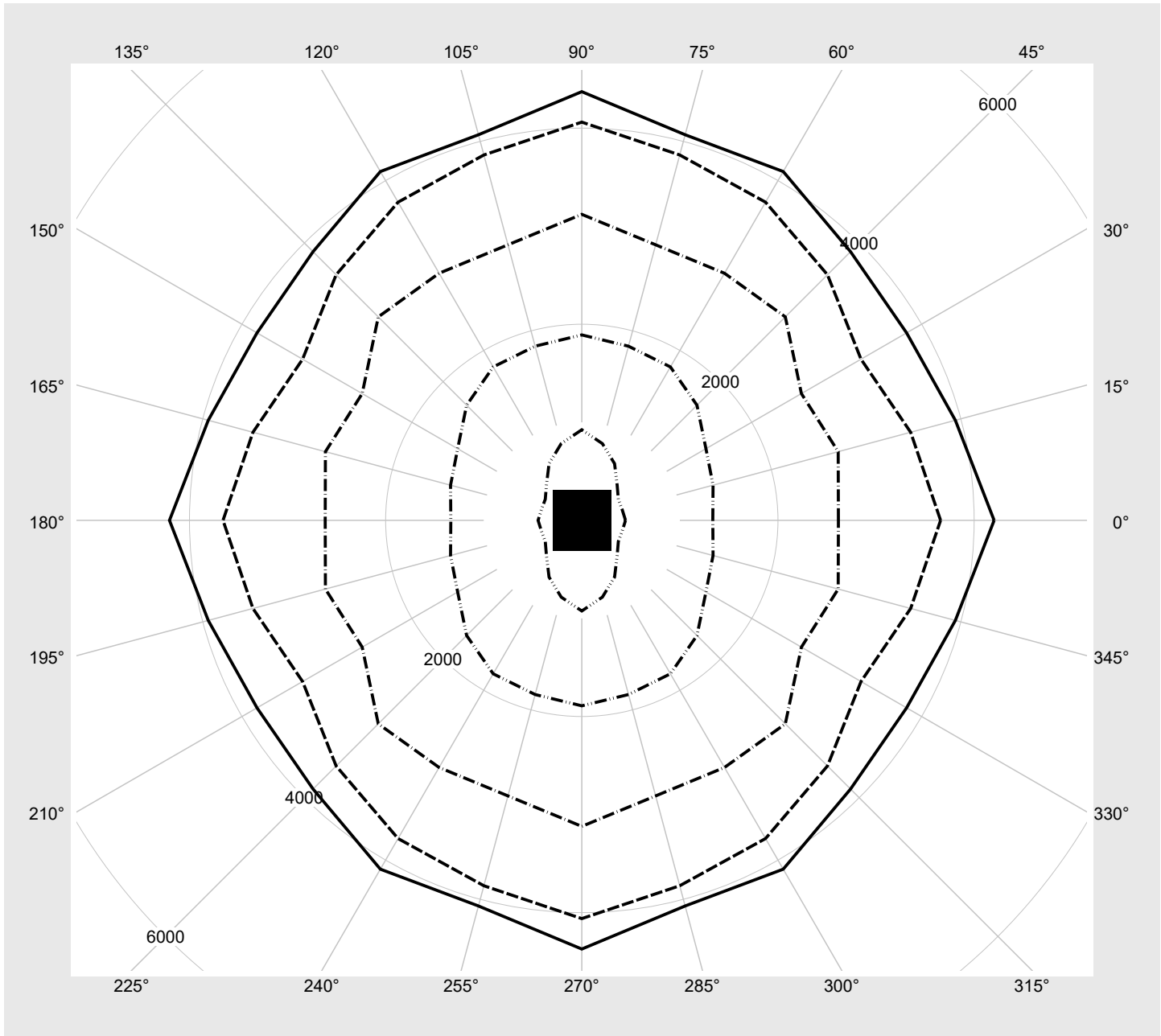
<b>Leuchtdichten-Tabelle</b> Max. für $\gamma \geq 65^\circ$	<b>Lichttechnische Abmessungen in mm:</b> L = 545 B = 470
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C- Ebenen	$\gamma$	Leuchtdichte in cd/m <sup>2</sup>						
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
45°		10658.7	11506.9	14034.9	16222.7	15441.0	13380.7	12496.0
50°		7246.1	7210.3	7387.8	7755.5	7437.8	7129.0	7281.9
55°		5885.5	5792.0	5490.3	5323.0	5141.7	5155.9	5295.5
60°		4822.6	4583.9	4425.7	4366.2	4487.1	4526.4	4630.8
65°		4203.8	3942.9	3823.8	3874.9	4107.5	4071.1	4371.7
70°		3658.0	3471.2	3287.0	3542.1	3746.7	3857.6	4061.2
75°		2616.1	2706.2	2585.4	2934.5	2909.6	2909.1	3120.6
80°		1335.5	1385.4	1461.5	1660.8	1806.7	1838.8	1891.2
85°		445.8	425.9	430.1	509.6	667.9	810.4	924.0

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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	18500	96.5
95	241	252	17600	91.4
90	227	250	16619	86.6
85	214	248	15698	81.5
80	201	245	14779	76.8
75	188	243	13855	72.0
70	175	240	12928	66.9
65	162	238	11996	62.3
60	150	235	11132	57.8
55	137	231	10190	52.8
50	124	228	9244	47.7
45	111	224	8293	43.2
40	99	219	7412	38.7
35	86	214	6451	33.6
30	74	209	5560	29.3
25	61	202	4590	24.5
20	49	194	3691	20.1
15	37	183	2786	15.8
10	25	169	1877	11.5
5	12	142	888	6.7
3	8	127	582	5.4

<b>Dimmstufen-Tabelle</b>	Umgebungstemperatur: 70°C
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Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [W]
100	254	254	17610	94.5
95	241	252	16755	89.5
90	227	250	15825	84.8
85	214	248	14949	79.8
80	201	245	14076	75.2
75	188	243	13198	70.5
70	175	240	12317	65.5
65	162	238	11429	61.0
60	149	234	10539	56.3
55	137	231	9712	51.7
50	124	228	8811	46.7
45	111	224	7906	42.2
40	99	219	7066	37.9
35	86	214	6151	33.0
30	74	209	5303	28.7
25	61	202	4378	24.0
20	49	194	3520	19.6
15	37	183	2658	15.4
10	25	169	1791	11.3
5	12	142	846	6.6
3	8	127	555	5.3

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<b>Lichtstrom-Tabelle</b>	<b>siteco</b>
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Temperatur °C	Lichtstrom lm	Systemleistung W
25.0	18500.0	96.5
70.0	17610.0	94.5