

## Lichttechnischer Prüfbefund

**Familie**  
Highbay 11

**Bestell-Nr.:** 51HLASD14FGA  
**EAN:** 4058352367407

**LP-Nummer**  
58922\_16



**Ausführung** breit strahlend, UGR≤22  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG-DALI  
**Bemessungswerte** Nettolichtstrom = 14400 lm  
Systemleistung = 81.3 W  
Lichtausbeute = 177.1 lm/W

**Seriendokumentation**  
07.01.2020

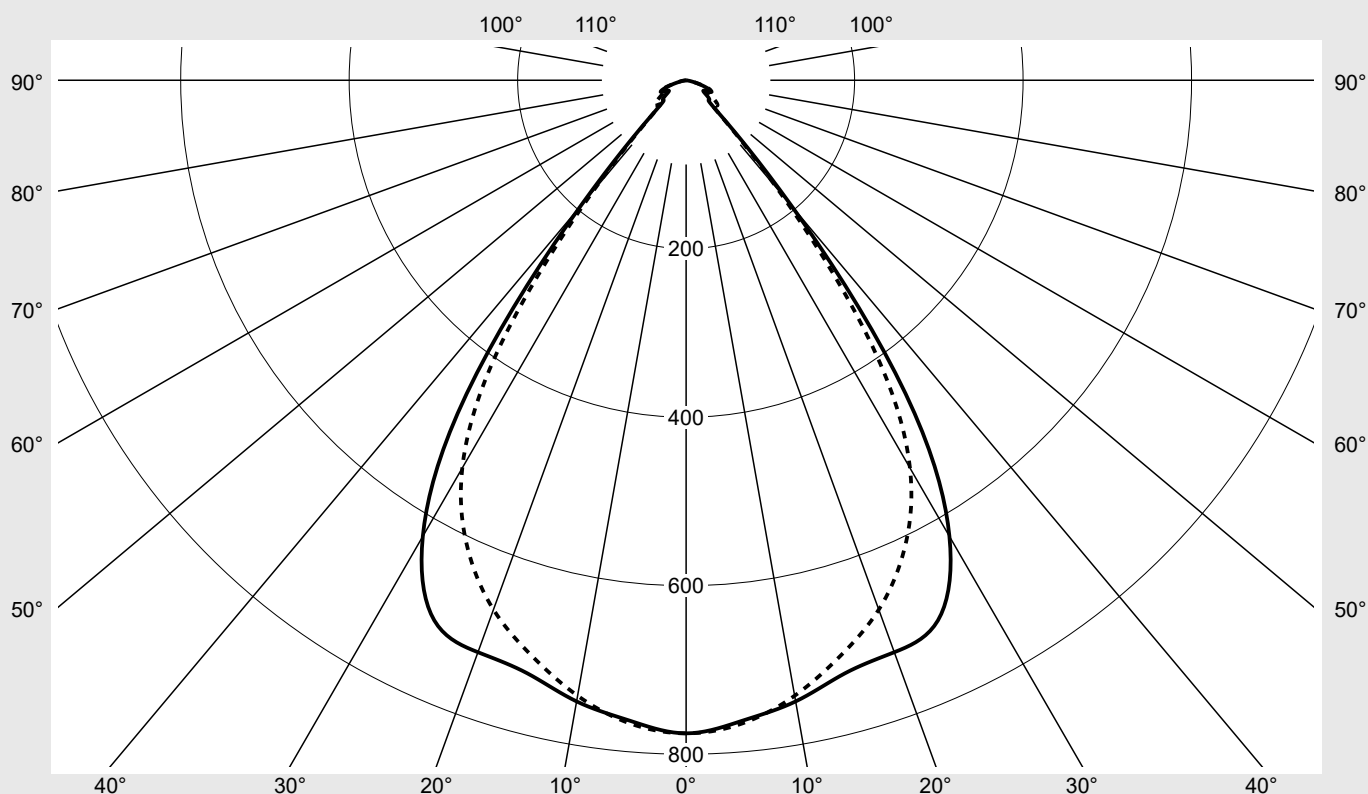
siteco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 775 cd/klm



#### Klassifizierungen

DIN 5040 A 6 0  
CIE N1=89 N2=96 N3=99  
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	
0°	775.3	775.3	775.3	775.3	775.3	775.3	775.3	4.6	4.6
5°	763.3	765.5	767.8	768.1	766.5	768.2	766.4	36.6	41.3
10°	748.7	752.6	756.7	755.9	749.0	745.7	741.9	71.5	112.7
15°	728.8	736.6	748.6	748.7	732.9	716.3	707.4	104.1	216.8
20°	722.5	731.1	745.9	741.9	711.6	682.4	668.7	134.6	351.4
25°	707.4	710.1	723.4	713.1	669.4	627.0	613.5	158.4	509.9
30°	625.1	622.7	643.6	650.9	594.8	541.3	531.4	165.9	675.7
35°	454.3	465.0	515.3	546.7	478.1	404.7	385.8	148.3	824.0
40°	194.7	222.6	276.1	324.0	261.7	198.8	171.4	86.1	910.1
45°	52.4	51.4	56.0	64.9	54.8	51.5	51.3	21.3	931.5
50°	36.0	31.0	27.7	34.1	33.7	39.2	46.8	14.5	946.0
55°	27.7	25.7	21.5	23.0	24.8	33.2	42.0	12.2	958.2
60°	24.8	27.6	25.1	19.0	18.2	24.5	32.6	11.3	969.5
65°	33.0	23.0	22.5	18.8	16.0	23.0	31.5	11.2	980.7
70°	25.9	19.0	18.9	17.8	15.3	19.4	28.1	10.1	990.8
75°	12.6	8.9	10.2	12.8	12.0	13.0	13.0	6.1	996.9
80°	3.5	3.2	4.0	5.1	6.3	6.1	5.9	2.6	999.6
85°	0.3	0.3	0.4	0.5	1.1	1.3	1.4	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									
Raumabmessungen		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
x	y										
2H	2H	20,4	21,7	20,7	22,0	22,3	19,9	21,2	20,2	21,5	21,8
	3H	20,8	21,9	21,2	22,3	22,6	20,4	21,5	20,8	21,9	22,2
	4H	20,9	22,0	21,3	22,3	22,7	20,6	21,7	21,0	22,0	22,4
	6H	20,9	21,9	21,4	22,2	22,6	20,7	21,6	21,1	22,0	22,4
	8H	21,0	21,8	21,4	22,2	22,6	20,8	21,6	21,2	22,0	22,4
	12H	21,0	21,7	21,4	22,1	22,5	20,8	21,5	21,2	21,9	22,3
4H	2H	20,3	21,4	20,7	21,7	22,1	19,8	20,8	20,2	21,2	21,6
	3H	20,9	21,7	21,3	22,1	22,5	20,4	21,3	20,9	21,7	22,1
	4H	21,0	21,8	21,5	22,2	22,6	20,7	21,5	21,2	21,9	22,4
	6H	21,0	21,7	21,5	22,1	22,6	20,9	21,5	21,4	22,0	22,4
	8H	21,0	21,6	21,5	22,0	22,5	20,9	21,5	21,4	21,9	22,4
	12H	21,0	21,5	21,5	21,9	22,4	20,9	21,4	21,4	21,9	22,4
8H	4H	21,0	21,6	21,5	22,1	22,6	20,8	21,4	21,3	21,8	22,3
	6H	21,0	21,5	21,5	22,0	22,5	21,0	21,5	21,5	21,9	22,4
	8H	21,0	21,4	21,5	21,9	22,5	21,0	21,4	21,5	21,9	22,4
	12H	21,0	21,3	21,5	21,8	22,4	21,0	21,3	21,5	21,8	22,4
12H	4H	21,1	21,5	21,5	22,0	22,5	20,8	21,3	21,3	21,7	22,2
	6H	21,1	21,4	21,6	21,9	22,5	21,0	21,4	21,5	21,9	22,4
	8H	21,0	21,4	21,5	21,9	22,4	21,0	21,3	21,5	21,8	22,4

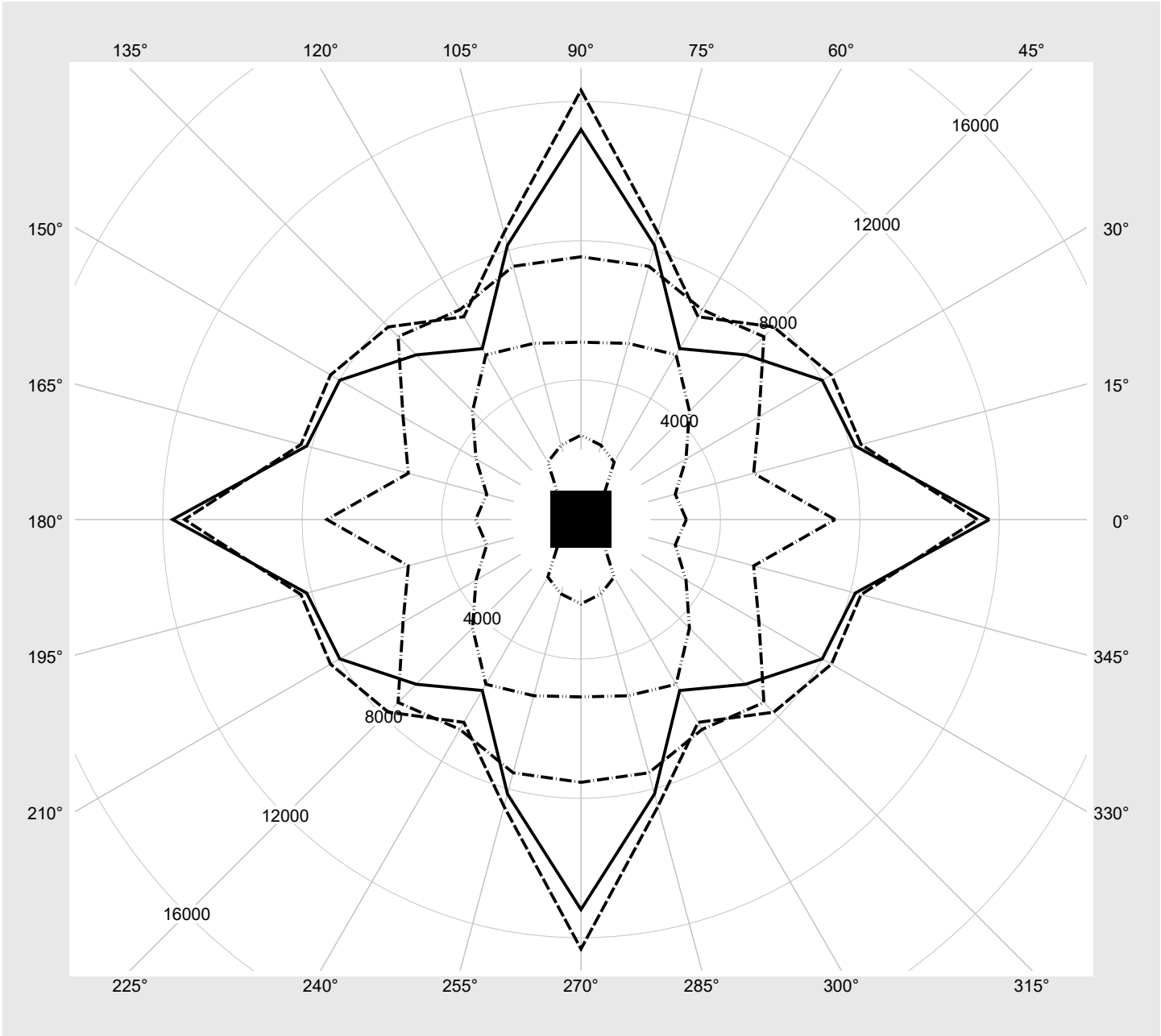
<b>Leuchtdichten-Tabelle</b> Max. für $\gamma \geq 65^\circ$	<b>Lichttechnische Abmessungen in mm:</b> L = 300 B = 320
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C- Ebenen	$\gamma$	Leuchtdichte in cd/m <sup>2</sup>						
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
45°		11110.2	10907.8	11880.5	13759.5	11629.9	10932.0	10874.7
50°		8401.1	7241.6	6475.2	7965.0	7871.0	9143.0	10910.0
55°		7239.3	6717.6	5619.2	6027.7	6475.7	8675.8	10983.5
60°		7439.1	8294.1	7528.2	5711.1	5454.9	7355.4	9772.5
65°		11718.7	8148.5	7993.7	6684.0	5664.3	8151.0	11191.0
70°		11375.2	8319.2	8298.6	7817.5	6719.8	8525.8	12320.3
75°		7290.8	5129.1	5896.4	7421.8	6952.3	7523.2	7540.0
80°		3023.4	2799.6	3479.4	4400.3	5457.6	5233.9	5089.6
85°		530.1	521.5	611.0	889.8	1903.5	2208.1	2421.5

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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	14400	81.3
95	241	252	13703	77.1
90	227	250	12946	72.5
85	214	248	12241	68.4
80	201	245	11528	64.2
75	188	243	10811	60.1
70	175	240	10091	56.0
65	162	238	9358	51.9
60	149	234	8626	47.9
55	137	231	7946	44.2
50	124	228	7202	40.2
45	111	224	6456	36.2
40	99	219	5758	32.5
35	87	215	5058	28.9
30	74	209	4296	24.9
25	62	202	3588	21.3
20	50	194	2874	17.7
15	38	184	2156	14.0
10	26	171	1430	10.4
5	14	148	703	6.8
1	5	110	155	4.1