

## Lichttechnischer Prüfbefund

**Familie**  
Highbay 11

**Bestell-Nr.:** 51HLA2D14FCA  
**EAN:** 4058352322963

**LP-Nummer**  
58922\_2



**Ausführung** breit strahlend, UGR≤22  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG-DALI  
**Bemessungswerte** Nettolichtstrom = 14400 lm  
Systemleistung = 81.2 W  
Lichtausbeute = 177.3 lm/W

**Seriendokumentation**  
21.05.2019

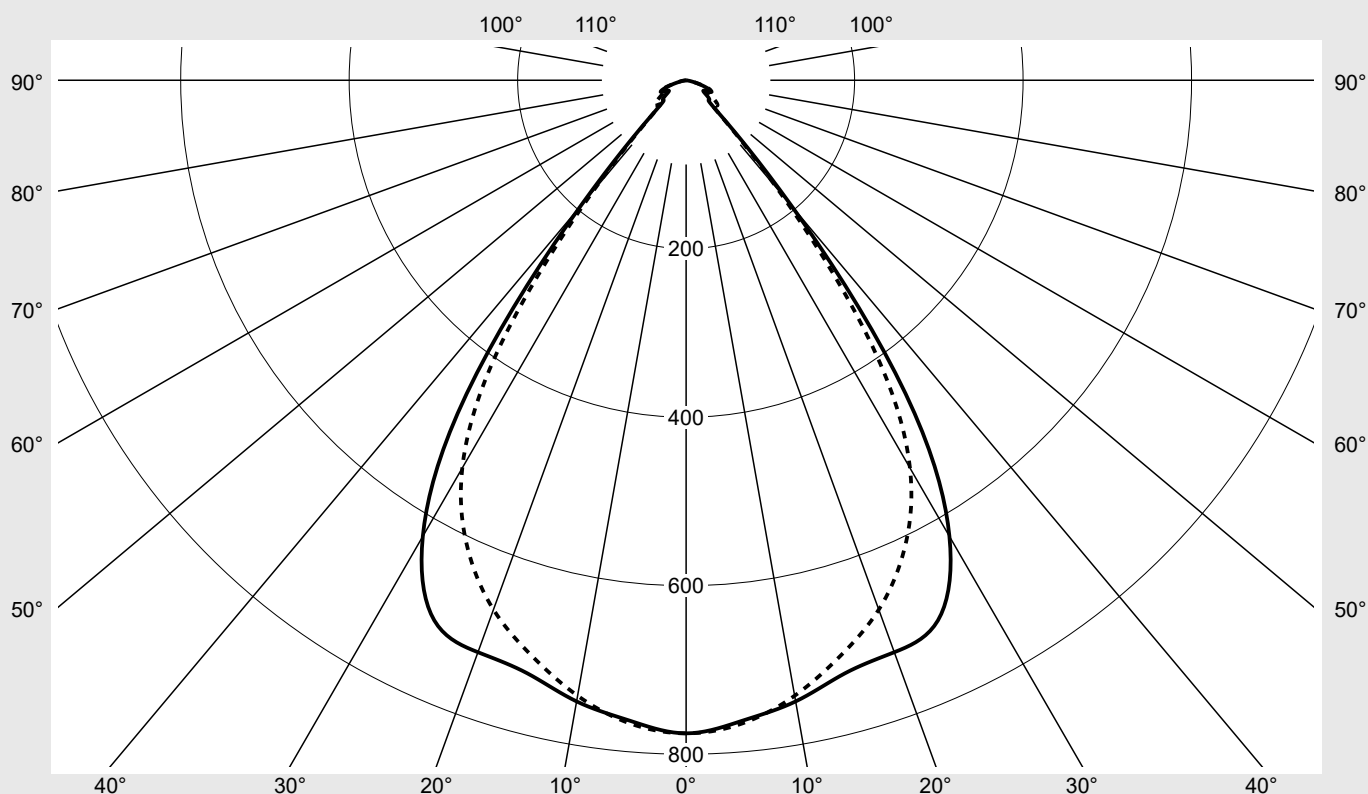
siteco

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	
γ									
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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<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>					
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

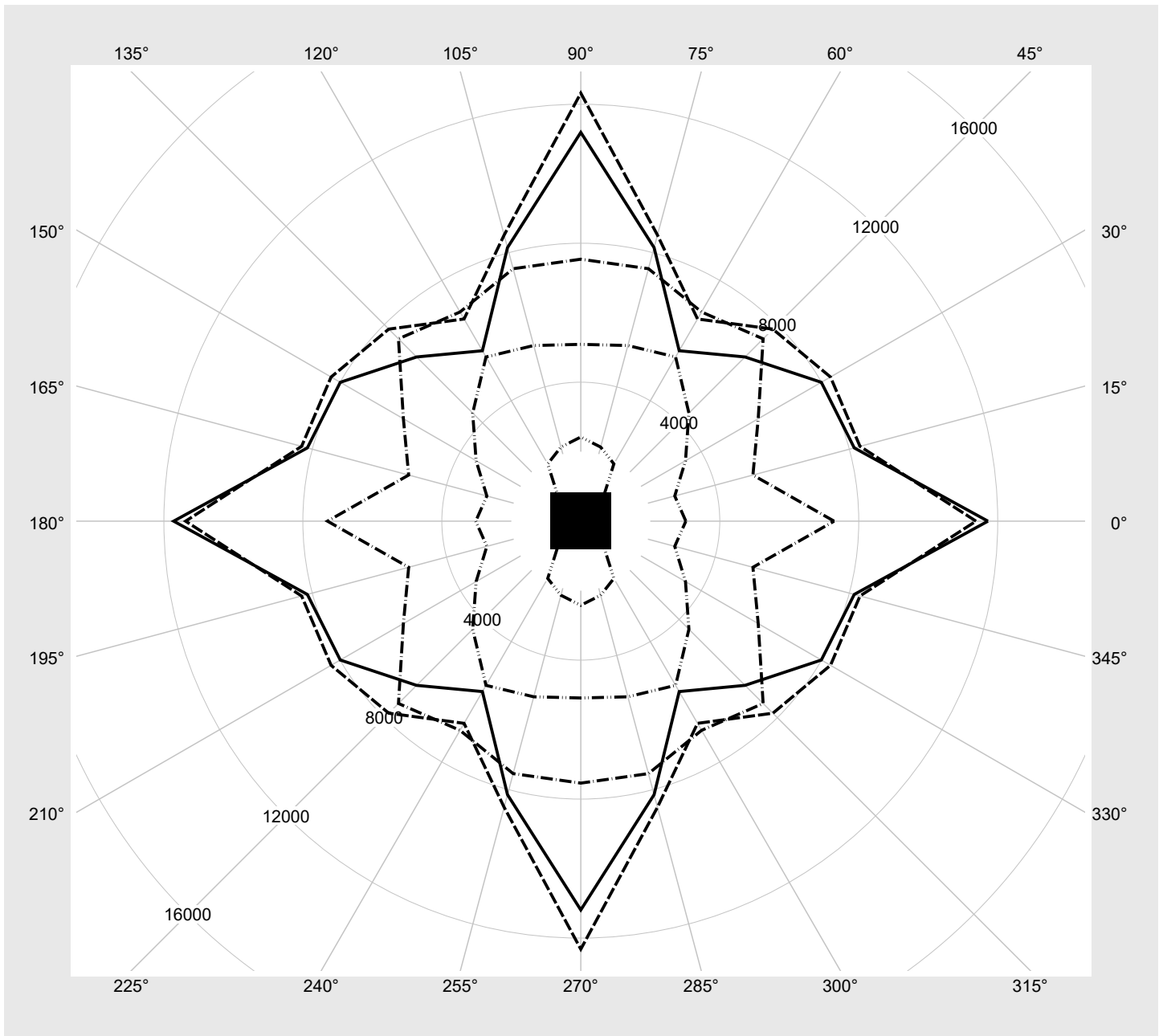
<b>Leuchtdichten-Tabelle</b>	<b>Max. für <math>\gamma \geq 65^\circ</math></b>	<b>Lichttechnische Abmessungen in mm:</b>	<b>L = 300</b>	<b>B = 320</b>
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C-Ebenen	$\gamma$	Leuchtdichte in cd/m <sup>2</sup>						
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
45°		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	81.2
95	241	252	13680	76.8
90	227	250	12960	72.5
85	214	248	12240	68.4
80	201	245	11520	64.2
75	188	243	10800	60.0
70	175	240	10080	56.0
65	162	237	9360	51.9
60	149	234	8640	48.0
55	136	231	7920	44.1
50	124	228	7200	40.2
45	111	224	6480	36.3
40	99	219	5760	32.5
35	86	215	5040	28.8
30	74	209	4320	25.1
25	62	203	3600	21.3
20	50	195	2880	17.6
15	38	185	2160	14.0
10	26	170	1439	10.4