

## Lichttechnischer Prüfbefund

**Familie**  
Highbay 11

**Bestell-Nr.:** 51HLA2D14GLA  
**EAN:** 4058352361467

**LP-Nummer**  
58922\_18

**Ausführung** breit strahlend, UGR≤22

**Bestückung** LED 4000 K | CRI ≥ 80

**Betriebsgerät** EVG-DALI

**Bemessungswerte**  
Nettolichtstrom = 16580 lm  
Systemleistung = 94.8 W  
Lichtausbeute = 174.9 lm/W

**Seriendokumentation**  
31.03.2020

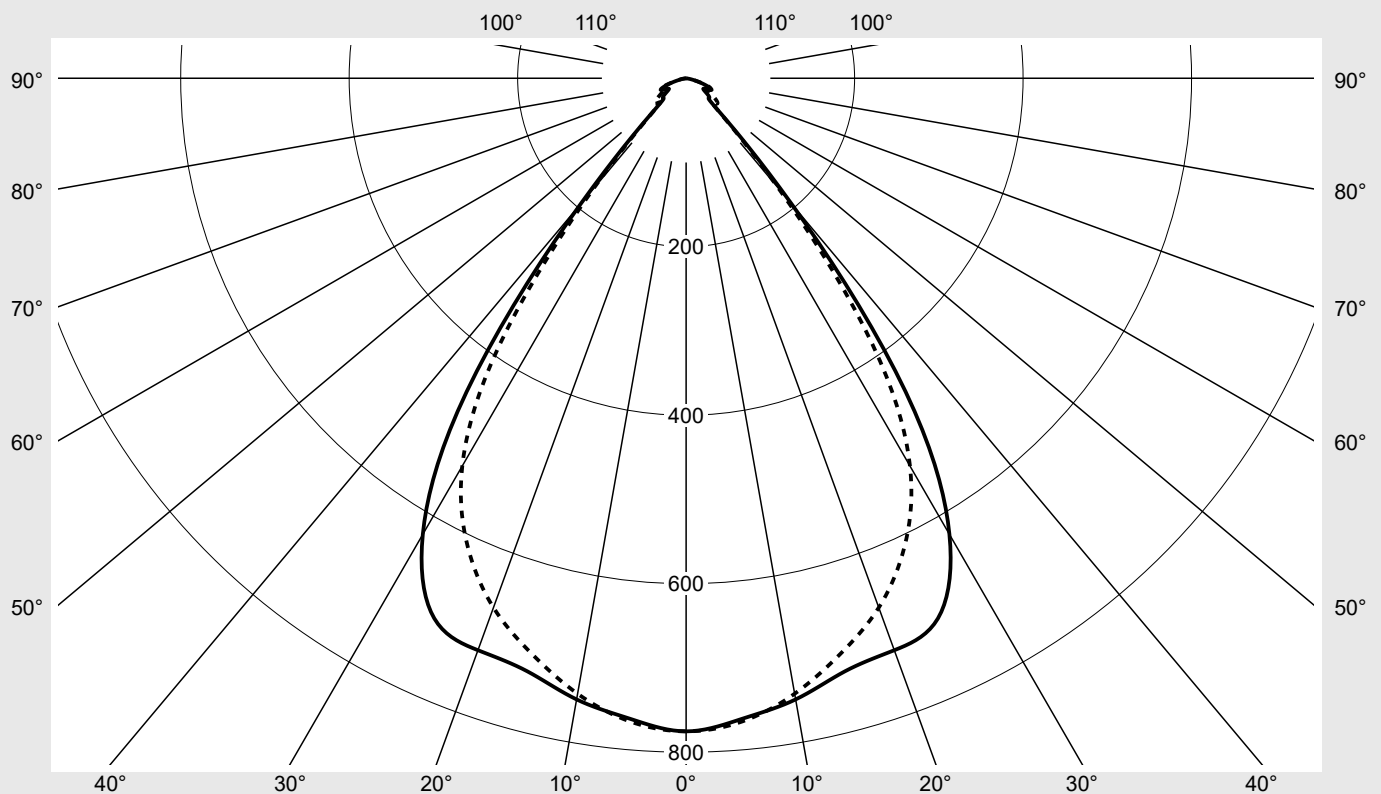
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Lichtstärke in cd/klm

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>

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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UGR-Tabelle		Standardraum									
		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
Raumabmessungen											
x	y										
2H	2H	20,9	22,2	21,2	22,5	22,8	20,4	21,7	20,7	22,0	22,3
	3H	21,3	22,4	21,7	22,8	23,1	20,9	22,0	21,3	22,4	22,7
	4H	21,4	22,5	21,8	22,8	23,2	21,1	22,2	21,5	22,5	22,9
	6H	21,4	22,4	21,8	22,7	23,1	21,2	22,1	21,6	22,5	22,9
	8H	21,5	22,3	21,9	22,7	23,1	21,3	22,1	21,7	22,5	22,9
	12H	21,5	22,2	21,9	22,6	23,0	21,3	22,0	21,7	22,4	22,8
4H	2H	20,8	21,8	21,2	22,2	22,6	20,3	21,3	20,7	21,7	22,1
	3H	21,4	22,2	21,8	22,6	23,0	20,9	21,8	21,3	22,2	22,6
	4H	21,5	22,3	22,0	22,7	23,1	21,2	22,0	21,7	22,4	22,9
	6H	21,5	22,2	22,0	22,6	23,1	21,4	22,0	21,8	22,5	22,9
	8H	21,5	22,1	22,0	22,5	23,0	21,4	22,0	21,9	22,4	22,9
	12H	21,5	22,0	22,0	22,4	22,9	21,4	21,9	21,9	22,4	22,9
8H	4H	21,5	22,1	22,0	22,6	23,0	21,3	21,9	21,7	22,3	22,8
	6H	21,5	22,0	22,0	22,5	23,0	21,5	21,9	22,0	22,4	22,9
	8H	21,5	21,9	22,0	22,4	22,9	21,5	21,9	22,0	22,4	22,9
	12H	21,5	21,8	22,0	22,3	22,9	21,5	21,8	22,0	22,3	22,9
12H	4H	21,5	22,0	22,0	22,5	23,0	21,3	21,8	21,8	22,2	22,7
	6H	21,6	21,9	22,1	22,4	23,0	21,5	21,8	22,0	22,3	22,9
	8H	21,5	21,8	22,0	22,3	22,9	21,5	21,8	22,0	22,3	22,9

<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°		12792.2	12559.2	13679.0	15842.6	13390.6	12587.0	12521.1
50°		9673.0	8337.9	7455.5	9170.8	9062.5	10527.1	12561.6
55°		8335.3	7734.6	6469.9	6940.2	7456.0	9989.3	12646.2
60°		8565.3	9549.7	8667.9	6575.7	6280.7	8468.9	11251.9
65°		13492.8	9382.1	9203.9	7695.9	6521.8	9384.9	12885.1
70°		13097.3	9578.7	9555.0	9001.0	7737.1	9816.5	14185.5
75°		8394.6	5905.5	6789.0	8545.4	8004.9	8662.1	8681.5
80°		3481.1	3223.5	4006.2	5066.4	6283.8	6026.2	5860.1
85°		610.3	600.4	703.5	1024.5	2191.7	2542.4	2788.1

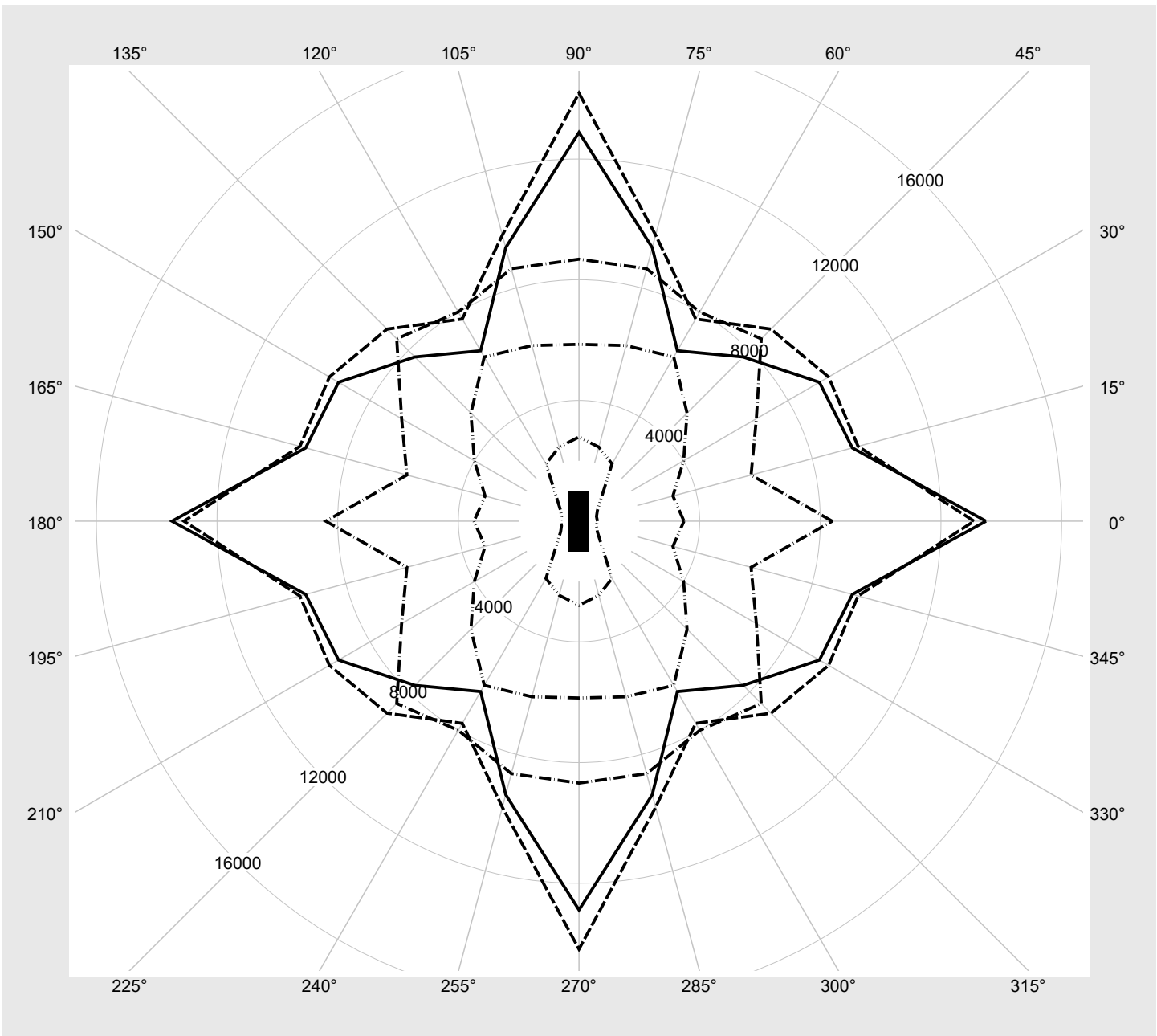
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**Leuchtdichten in cd/m<sup>2</sup>**

$\gamma$ 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	16580	94.8
95	240	252	15730	89.5
90	227	250	14930	84.6
85	213	247	14064	79.3
80	200	245	13251	74.3
75	187	243	12430	69.5
70	174	240	11604	64.7
65	161	237	10769	59.9
60	148	234	9930	55.2
55	136	231	9144	50.7
50	123	228	8290	46.0
45	110	224	7428	41.4
40	98	220	6626	37.1
35	86	215	5819	32.8
30	74	210	5003	28.6
25	61	204	4116	24.1
20	49	197	3290	19.8
15	37	188	2458	15.6
10	26	177	1686	11.7
5	14	161	842	7.4