

## Lichttechnischer Prüfbefund

**Familie**  
Highbay 11

**Bestell-Nr.:** 51HLA1D14GLA  
**EAN:** 4058352361429

**LP-Nummer**  
58918\_12

**Ausführung** eng strahlend, UGR≤22  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG-DALI  
**Bemessungswerte** Nettolichtstrom = 16190 lm  
Systemleistung = 94.9 W  
Lichtausbeute = 170.6 lm/W

**Seriendokumentation**  
31.03.2020

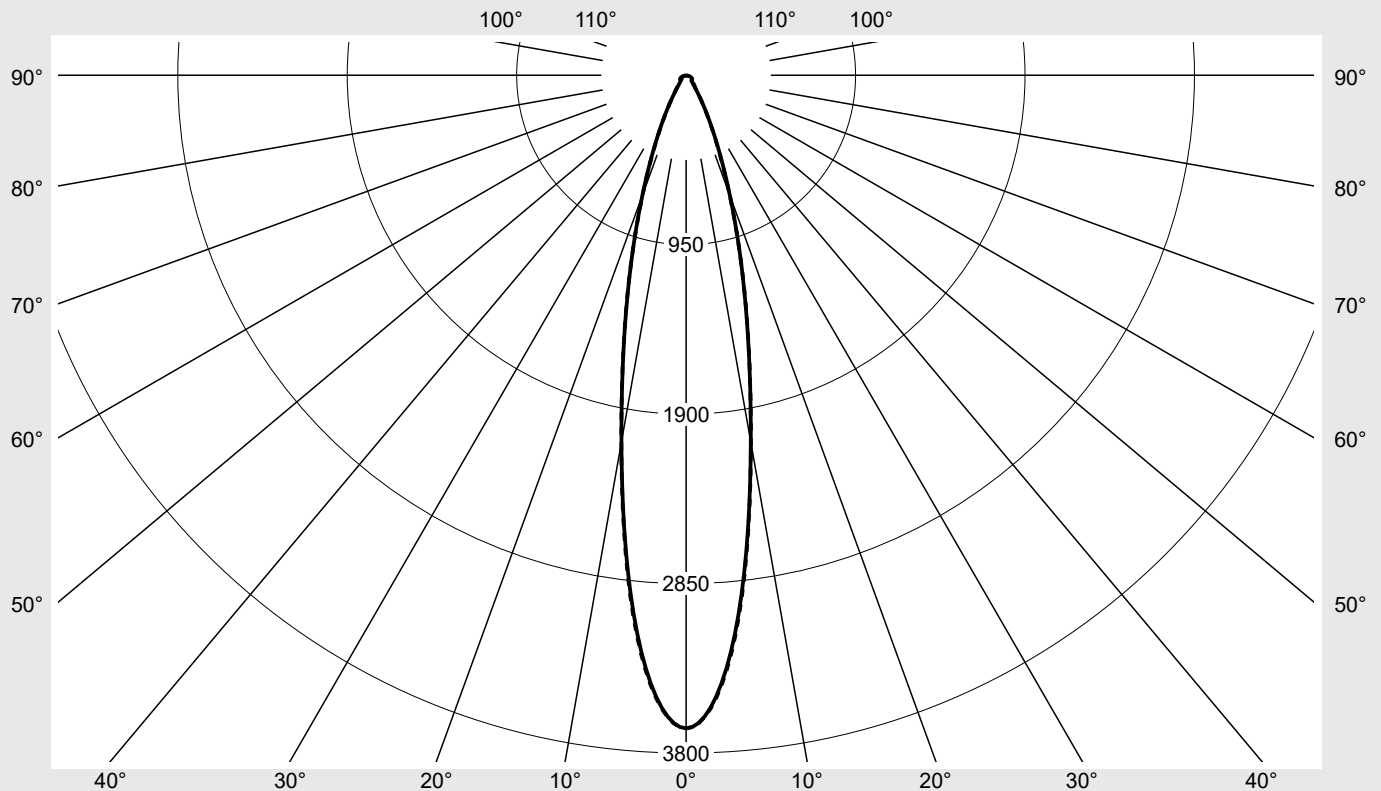
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Lichtstärke in cd/klm

C180-0

C270-90

Imax: 3662 cd/klm



### Klassifizierungen

DIN 5040 A 7 0  
CIE N1=88 N2=95 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°			
γ									
Lichtstärke in cd/klm									
Lichtstrom in lm/klm									
0°	3661.5	3661.5	3661.5	3661.5	3661.5	3661.5	3661.5	21.9	21.9
5°	3142.6	3138.8	3148.7	3152.8	3150.8	3162.1	3157.3	150.5	172.4
10°	2088.2	2082.4	2095.8	2102.6	2097.1	2098.1	2092.4	199.3	371.8
15°	1265.5	1263.0	1272.3	1276.0	1271.9	1272.7	1269.2	180.2	552.0
20°	717.4	718.4	730.4	738.2	732.8	722.5	712.3	136.1	688.1
25°	380.2	383.6	397.1	405.5	395.8	382.2	373.9	90.4	778.5
30°	189.9	192.8	203.8	209.2	205.7	196.2	189.8	54.7	833.2
35°	93.4	93.2	98.1	106.1	108.6	103.6	99.4	31.8	865.0
40°	56.8	57.1	60.0	67.1	71.1	71.1	70.3	22.9	887.9
45°	41.2	40.8	44.9	50.9	50.2	47.6	46.5	18.0	905.9
50°	41.3	41.9	46.2	48.9	40.8	33.1	32.5	17.3	923.2
55°	41.3	42.1	45.2	43.2	36.0	29.8	29.9	17.4	940.6
60°	39.0	39.2	40.5	39.6	33.4	27.4	27.5	16.9	957.4
65°	33.8	33.6	34.5	34.8	29.3	24.3	24.5	15.4	972.8
70°	26.5	26.3	27.0	27.6	23.9	20.0	20.0	12.7	985.5
75°	15.9	16.7	18.0	19.3	17.3	15.5	15.6	9.0	994.6
80°	6.4	6.9	7.9	9.2	9.9	9.6	10.9	4.7	999.3
85°	0.5	0.5	0.6	1.0	1.8	2.4	3.4	0.7	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	17,2	18,3	17,6	18,7	19,0	16,0	17,1	16,3	17,4	17,7
	3H	19,1	20,1	19,5	20,4	20,8	17,6	18,5	17,9	18,9	19,2
	4H	19,7	20,6	20,1	20,9	21,3	18,3	19,2	18,7	19,5	19,9
	6H	19,9	20,7	20,3	21,1	21,5	18,9	19,8	19,4	20,1	20,5
	8H	20,0	20,7	20,4	21,1	21,5	19,3	19,9	19,7	20,3	20,7
	12H	20,0	20,6	20,4	21,0	21,4	19,3	20,0	19,8	20,4	20,8
4H	2H	18,0	18,9	18,4	19,3	19,7	17,1	18,0	17,5	18,4	18,8
	3H	20,0	20,8	20,4	21,2	21,6	18,8	19,6	19,3	20,0	20,4
	4H	20,7	21,4	21,1	21,8	22,2	19,6	20,3	20,1	20,7	21,2
	6H	21,0	21,5	21,4	22,0	22,4	20,3	20,9	20,8	21,3	21,8
	8H	21,0	21,5	21,5	22,0	22,4	20,6	21,1	21,0	21,5	22,0
	12H	21,0	21,4	21,5	21,9	22,4	20,6	21,1	21,1	21,5	22,0
8H	4H	21,0	21,5	21,5	21,9	22,4	20,1	20,6	20,6	21,1	21,5
	6H	21,4	21,7	21,9	22,2	22,7	20,9	21,3	21,4	21,8	22,3
	8H	21,3	21,7	21,8	22,2	22,7	21,1	21,5	21,6	22,0	22,5
	12H	21,3	21,6	21,8	22,1	22,7	21,2	21,5	21,7	22,0	22,5
12H	4H	21,0	21,4	21,5	21,9	22,4	20,1	20,5	20,6	21,0	21,5
	6H	21,3	21,7	21,8	22,2	22,7	20,9	21,2	21,4	21,7	22,2
	8H	21,3	21,7	21,9	22,2	22,7	21,1	21,4	21,6	21,9	22,5

## Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$

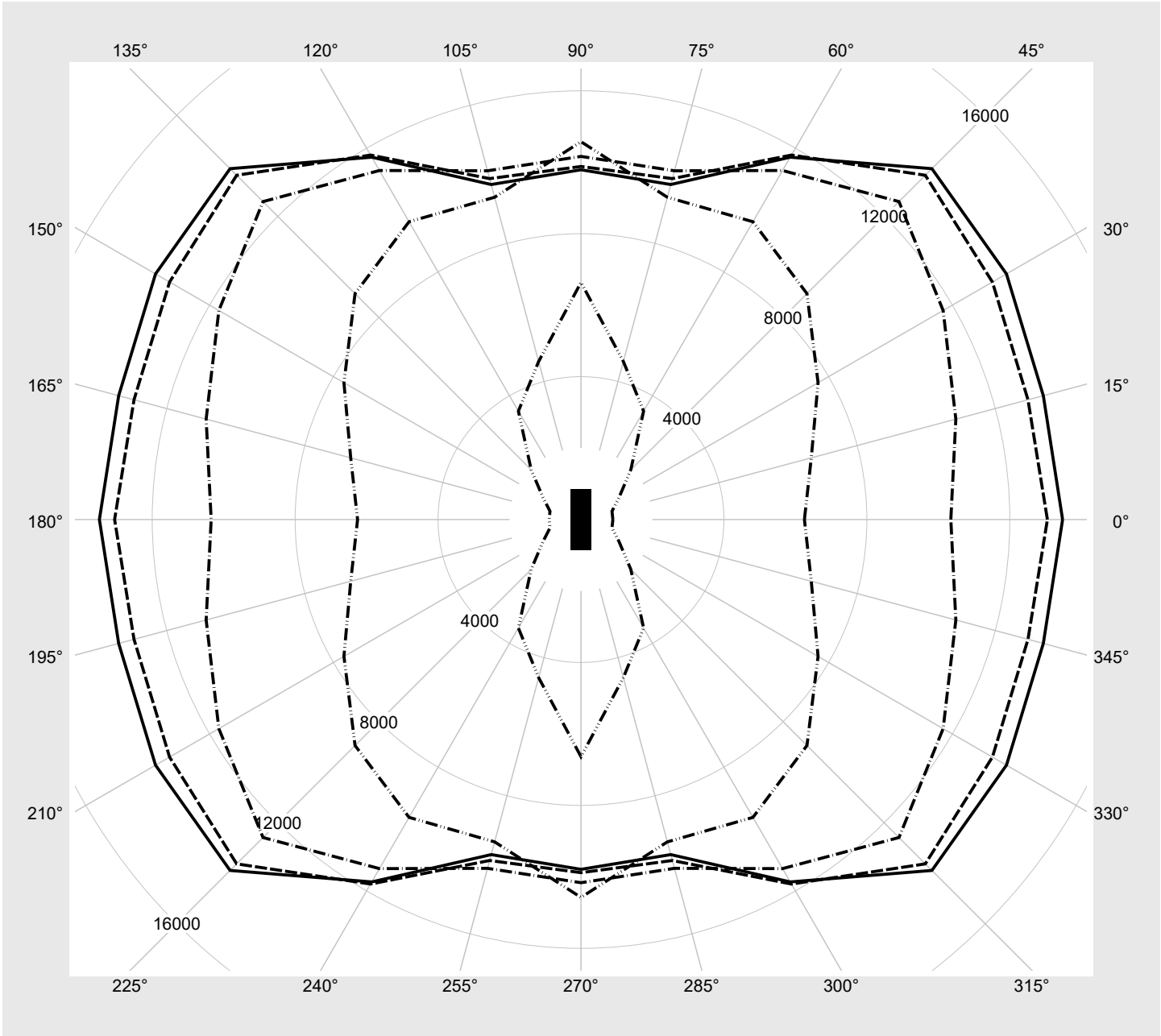
Lichttechnische Abmessungen in mm: L = 300, B = 320

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°		9818.1	9722.7	10716.6	12138.5	11976.6	11355.8	11089.1
50°		10846.7	11002.9	12111.4	12833.4	10696.9	8691.9	8525.1
55°		12152.9	12376.7	13299.0	12689.5	10574.6	8756.7	8804.0
60°		13158.8	13220.8	13646.8	13363.5	11274.0	9242.5	9283.3
65°		13477.9	13394.9	13748.9	13888.1	11710.5	9707.7	9789.5
70°		13052.5	12950.4	13295.1	13627.5	11778.9	9878.5	9882.0
75°		10350.0	10860.2	11702.7	12585.0	11280.5	10105.6	10163.6
80°		6252.5	6672.1	7660.8	8942.7	9624.5	9339.0	10575.3
85°		892.0	897.8	1226.8	1971.8	3504.3	4580.1	6637.0

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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>		<b>sITeco</b>
Umgebungstemperatur: 25°C		

Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [W]
100	254	254	16190	94.9
95	240	252	15360	89.5
90	227	250	14579	84.6
85	213	247	13733	79.3
80	200	245	12940	74.3
75	187	243	12138	69.5
70	174	240	11331	64.7
65	161	237	10516	59.9
60	148	234	9696	55.2
55	136	231	8929	50.7
50	123	227	8095	46.0
45	110	224	7253	41.4
40	98	220	6470	37.1
35	86	215	5682	32.8
30	74	210	4886	28.6
25	61	204	4019	24.1
20	49	197	3212	19.8
15	37	188	2400	15.6
10	26	177	1647	11.7
5	14	161	822	7.4