

## Lichttechnischer Prüfbefund

**Familie**  
Highbay 11

**Bestell-Nr.:** 51HL61D14DCA + 59HL91001  
**EAN:** 4058352348871 + 4058352323519

**LP-Nummer**  
58920\_6

**Ausführung** eng strahlend, UGR≤22,  
Einscheibensicherheitsglas (ESG)  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG-DALI  
**Bemessungswerte** Nettolichtstrom = 9450 lm  
Systemleistung = 55.6 W  
Lichtausbeute = 170 lm/W

**Seriendokumentation**  
13.06.2019

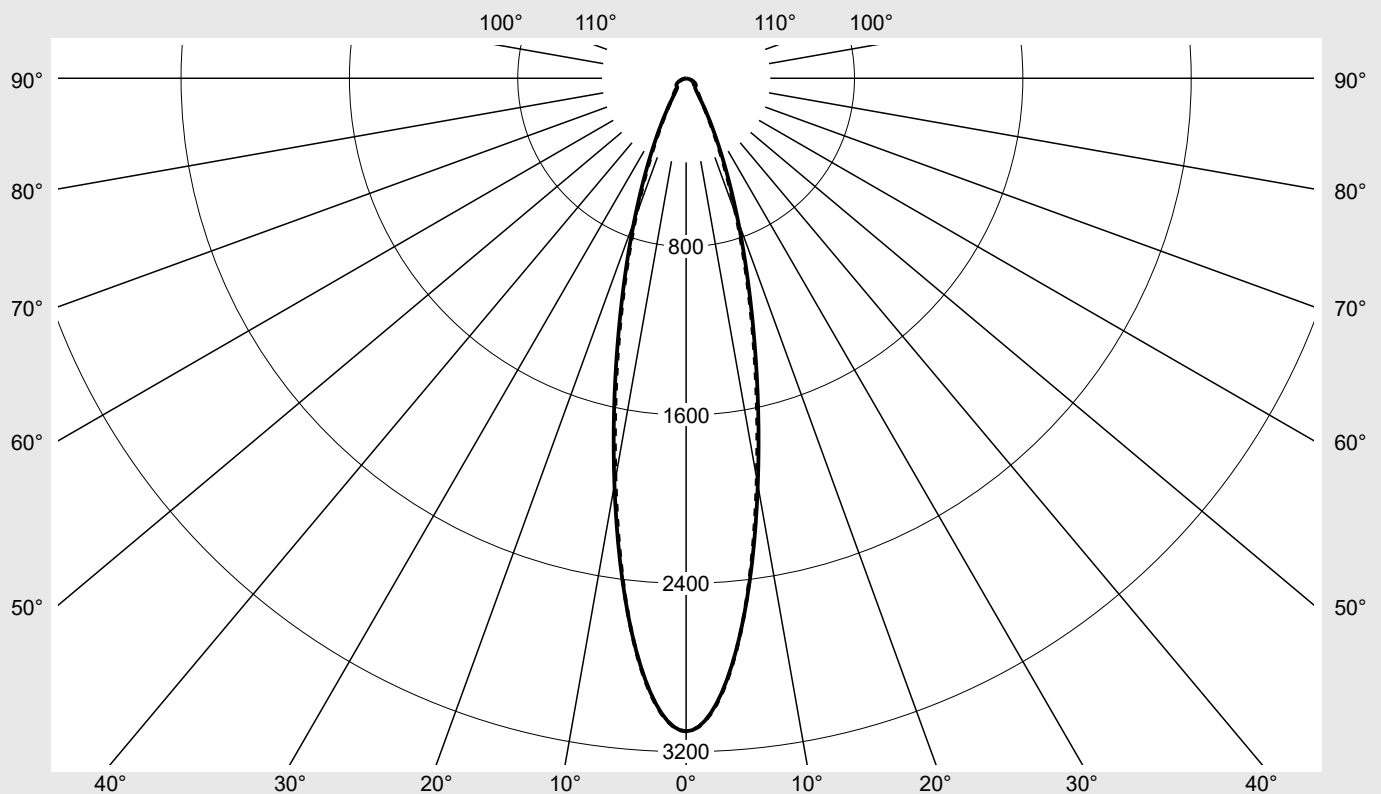
siteco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 3103 cd/klm



### Klassifizierungen

DIN 5040 A 7 0  
CIE N1=85 N2=94 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°			
γ		Lichtstärke in cd/klm						Lichtstrom in lm/klm	
0°	3103.3	3103.3	3103.3	3103.3	3103.3	3103.3	3103.3	18.6	18.6
5°	2728.1	2725.7	2734.5	2735.8	2731.2	2739.6	2732.7	130.6	149.1
10°	1961.3	1955.1	1962.7	1959.8	1944.6	1940.4	1933.3	185.8	334.9
15°	1234.5	1231.5	1237.4	1233.6	1223.5	1217.2	1209.8	174.2	509.0
20°	720.2	721.2	730.7	731.8	720.5	706.3	696.1	134.9	644.0
25°	391.5	395.5	407.7	412.0	396.6	377.5	368.6	91.5	735.4
30°	203.6	206.8	216.0	219.0	212.4	200.7	194.3	57.3	792.7
35°	109.3	109.5	113.4	118.8	120.5	117.6	115.6	36.3	829.0
40°	71.8	72.6	76.4	83.5	87.0	87.1	87.3	28.5	857.5
45°	59.8	60.1	64.9	71.1	68.6	64.2	62.9	25.2	882.8
50°	58.8	60.0	64.4	66.4	57.1	49.4	48.5	24.6	907.3
55°	56.5	57.6	60.7	58.9	51.3	43.9	43.6	24.1	931.5
60°	50.4	50.7	52.1	52.2	45.2	38.5	38.0	22.4	953.8
65°	40.7	40.4	41.4	42.5	37.1	32.0	31.7	19.0	972.8
70°	28.4	28.2	29.2	30.2	27.5	24.4	24.3	14.2	987.1
75°	15.1	15.6	16.5	18.0	16.8	16.4	16.8	8.8	995.8
80°	5.3	5.6	6.2	6.9	7.4	7.5	9.1	3.7	999.5
85°	0.5	0.5	0.6	0.8	1.1	1.3	1.8	0.5	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	17,3	18,4	17,6	18,8	19,1	16,2	17,4	16,6	17,7	18,0
	3H	18,7	19,8	19,1	20,1	20,4	17,6	18,6	18,0	19,0	19,3
	4H	19,1	20,0	19,5	20,4	20,8	18,1	19,1	18,5	19,4	19,8
	6H	19,2	20,0	19,6	20,4	20,8	18,5	19,3	18,9	19,7	20,1
	8H	19,3	20,0	19,7	20,4	20,8	18,6	19,3	19,0	19,7	20,1
	12H	19,2	19,9	19,7	20,3	20,7	18,6	19,3	19,0	19,7	20,1
4H	2H	18,0	18,9	18,4	19,3	19,7	17,2	18,2	17,6	18,5	18,9
	3H	19,5	20,3	20,0	20,7	21,1	18,7	19,5	19,1	19,9	20,3
	4H	19,9	20,7	20,4	21,1	21,5	19,3	20,0	19,7	20,4	20,8
	6H	20,1	20,7	20,5	21,1	21,6	19,6	20,2	20,1	20,6	21,1
	8H	20,1	20,6	20,6	21,1	21,5	19,7	20,2	20,2	20,7	21,1
	12H	20,1	20,5	20,5	21,0	21,5	19,7	20,1	20,2	20,6	21,1
8H	4H	20,1	20,6	20,6	21,1	21,6	19,5	20,0	20,0	20,5	21,0
	6H	20,3	20,7	20,8	21,2	21,7	19,9	20,3	20,4	20,8	21,3
	8H	20,2	20,6	20,8	21,1	21,6	19,9	20,3	20,5	20,8	21,3
	12H	20,2	20,5	20,7	21,0	21,6	19,9	20,3	20,5	20,8	21,3
12H	4H	20,1	20,6	20,6	21,0	21,5	19,5	19,9	20,0	20,4	20,9
	6H	20,3	20,6	20,8	21,1	21,6	19,9	20,2	20,4	20,7	21,2
	8H	20,2	20,5	20,8	21,0	21,6	19,9	20,2	20,5	20,8	21,3

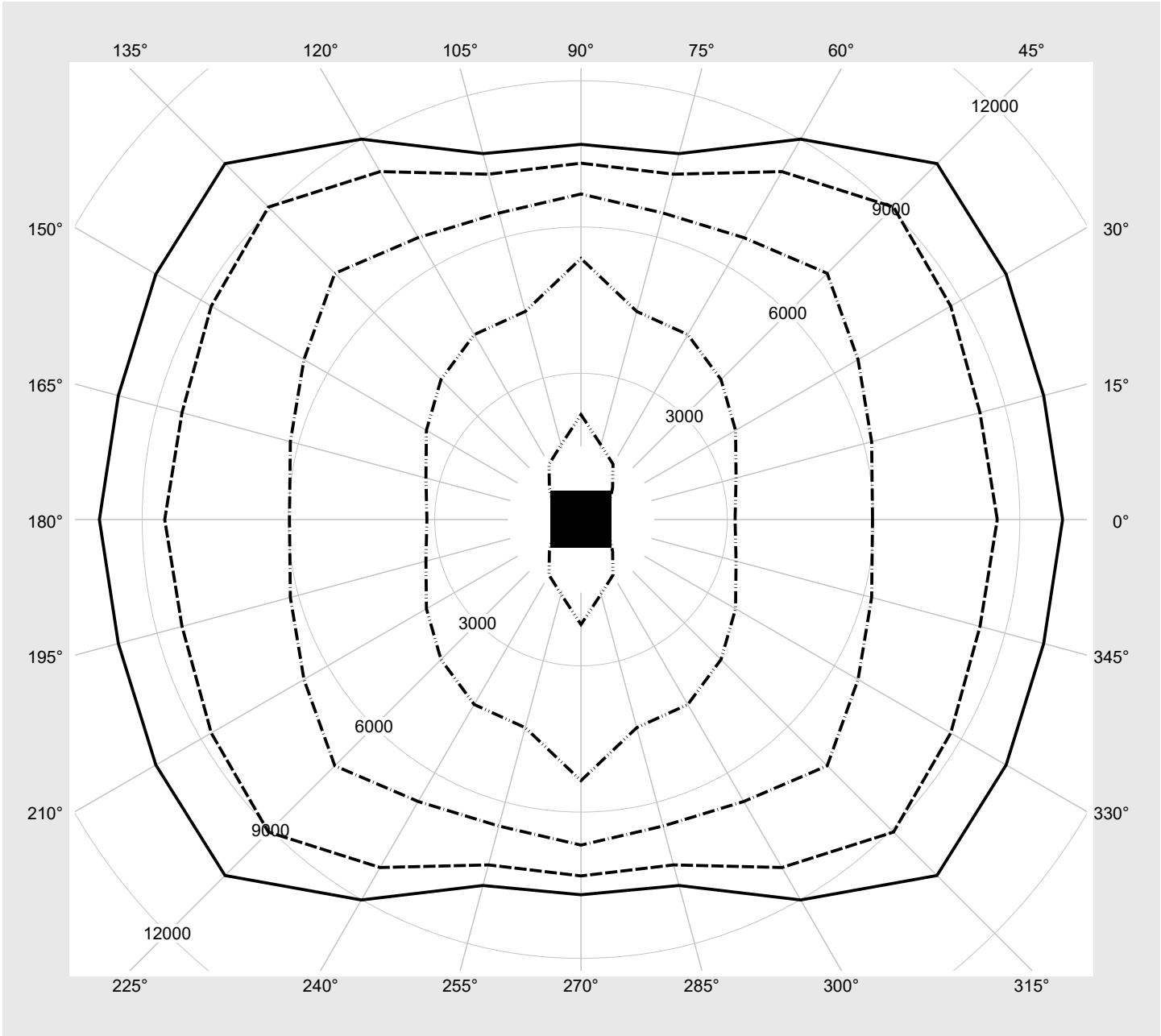
<b>Leuchtdichten-Tabelle</b> Max. für $\gamma \geq 65^\circ$	<b>Lichttechnische Abmessungen in mm:</b> L = 295 B = 312
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C-Ebenen	$\gamma$	Leuchtdichte in $\text{cd/m}^2$						
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
45°		8682.9	8733.3	9421.5	10321.6	9958.9	9327.6	9128.7
50°		9388.3	9580.6	10280.1	10609.3	9126.4	7898.2	7744.4
55°		10111.8	10303.0	10871.3	10548.2	9174.3	7859.2	7809.2
60°		10339.1	10419.4	10706.7	10712.9	9285.7	7902.9	7800.9
65°		9877.1	9823.5	10067.9	10324.7	9009.1	7770.3	7695.3
70°		8537.5	8471.5	8755.8	9064.7	8240.4	7333.2	7308.8
75°		5979.0	6171.0	6561.0	7141.3	6677.2	6507.8	6677.2
80°		3160.3	3292.2	3660.5	4060.8	4380.1	4418.6	5354.5
85°		541.9	544.3	666.8	916.5	1312.3	1583.3	2152.3

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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	9450	55.6
95	241	252	8978	52.7
90	228	250	8505	49.9
85	215	248	8033	47.1
80	202	246	7560	44.6
75	189	244	7088	41.8
70	176	241	6615	39.1
65	163	238	6143	36.4
60	151	236	5670	33.8
55	138	233	5198	31.1
50	125	230	4725	28.5
45	113	226	4253	26.0
40	100	222	3780	23.4
35	88	218	3308	20.8
30	76	213	2835	18.3
25	63	208	2363	15.8
20	51	201	1890	13.2
15	39	194	1418	10.7
10	27	184	944	8.2