

## Lichttechnischer Prüfbefund

**Familie**  
Highbay 11

**Bestell-Nr.:** 51HLA2D14FCA + 59HL91001  
**EAN:** 4058352322963 + 4058352323519

**LP-Nummer**  
58924\_2

**Ausführung** breit strahlend, UGR≤22,  
Einscheibensicherheitsglas (ESG)  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG-DALI  
**Bemessungswerte** Nettolichtstrom = 13730 lm  
Systemleistung = 81.2 W  
Lichtausbeute = 169.1 lm/W

**Seriendokumentation**  
13.06.2019

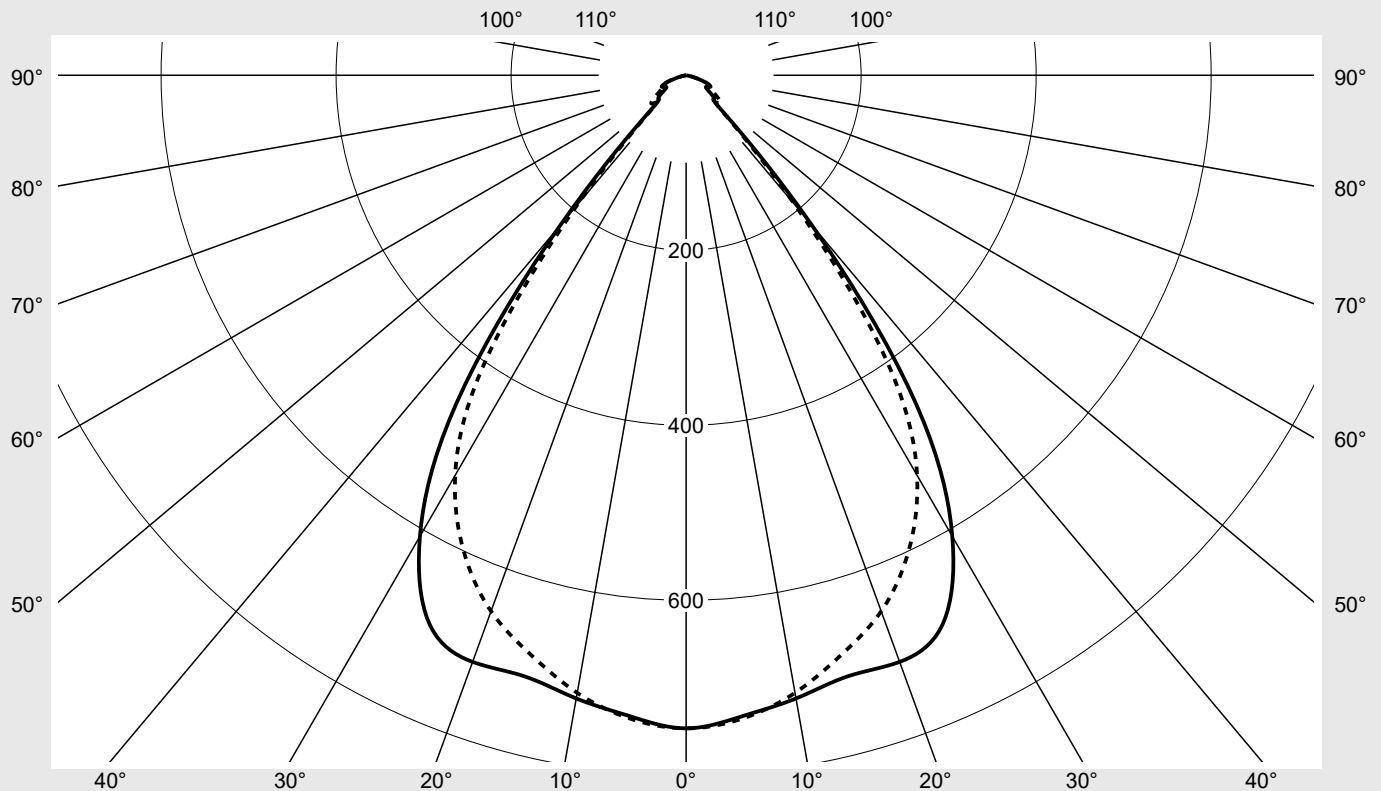
sitEco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 746 cd/klm



#### Klassifizierungen

DIN 5040 A 6 0  
CIE N1=88 N2=97 N3=100  
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°	746.3	746.3	746.3	746.3	746.3	746.3	746.3	4.5	4.5
5°	735.3	737.5	739.7	739.9	738.3	739.6	738.0	35.3	39.7
10°	723.2	726.6	729.4	728.5	722.4	719.9	716.7	69.0	108.7
15°	711.3	717.1	725.5	723.9	708.1	693.6	685.6	100.9	209.6
20°	713.4	718.0	728.3	720.4	690.5	663.2	651.9	131.3	340.9
25°	693.0	694.9	704.2	693.3	653.0	614.7	601.0	154.7	495.6
30°	608.4	605.8	624.6	634.7	585.4	537.6	527.9	162.4	658.1
35°	457.7	465.3	511.3	544.0	482.6	417.8	402.1	149.4	807.5
40°	223.2	249.0	306.2	349.8	284.7	219.8	194.6	95.0	902.5
45°	63.3	67.7	80.1	90.2	68.6	60.3	58.8	27.6	930.1
50°	41.6	37.0	34.8	39.2	39.3	44.2	50.6	16.8	947.0
55°	31.4	29.8	26.5	27.8	29.3	36.0	43.6	14.0	961.0
60°	26.5	29.7	26.3	21.9	21.3	25.9	33.0	12.2	973.2
65°	30.8	23.4	22.4	19.4	17.1	22.6	29.4	11.2	984.4
70°	22.6	17.1	16.5	15.8	14.1	17.3	23.9	8.9	993.3
75°	9.7	7.3	8.1	9.4	9.5	10.1	9.9	4.8	998.1
80°	2.5	2.3	2.6	3.2	3.7	3.7	3.7	1.7	999.8
85°	0.2	0.2	0.3	0.3	0.6	0.6	0.7	0.2	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	20,6	21,9	21,0	22,2	22,6	20,2	21,5	20,5	21,8	22,1
	3H	21,0	22,1	21,3	22,4	22,8	20,5	21,7	20,9	22,0	22,4
	4H	21,0	22,1	21,4	22,4	22,8	20,7	21,7	21,1	22,1	22,4
	6H	21,0	21,9	21,4	22,3	22,7	20,7	21,6	21,1	22,0	22,4
	8H	21,0	21,8	21,5	22,2	22,6	20,7	21,5	21,1	21,9	22,3
	12H	21,0	21,8	21,4	22,1	22,6	20,7	21,4	21,1	21,8	22,3
4H	2H	20,6	21,6	21,0	22,0	22,3	20,1	21,2	20,5	21,5	21,9
	3H	21,0	21,8	21,4	22,2	22,6	20,6	21,4	21,0	21,8	22,2
	4H	21,0	21,8	21,5	22,2	22,7	20,7	21,5	21,2	21,9	22,3
	6H	21,0	21,7	21,5	22,1	22,6	20,7	21,4	21,2	21,8	22,3
	8H	21,0	21,6	21,4	22,0	22,5	20,7	21,3	21,2	21,8	22,2
	12H	21,0	21,5	21,5	21,9	22,4	20,7	21,2	21,2	21,7	22,2
8H	4H	21,0	21,6	21,5	22,0	22,5	20,7	21,3	21,2	21,7	22,2
	6H	21,0	21,4	21,4	21,9	22,4	20,7	21,2	21,2	21,7	22,2
	8H	20,9	21,3	21,4	21,8	22,3	20,7	21,1	21,2	21,6	22,1
	12H	20,9	21,2	21,4	21,7	22,3	20,7	21,0	21,2	21,5	22,1
12H	4H	21,0	21,5	21,5	21,9	22,4	20,7	21,2	21,2	21,6	22,1
	6H	21,0	21,3	21,5	21,8	22,4	20,7	21,1	21,2	21,6	22,1
	8H	20,9	21,2	21,4	21,7	22,3	20,7	21,0	21,2	21,5	22,1

<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 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°	45°	13358.5	14276.2	16907.3	19038.9	14469.6	12718.6	12397.1
50°	50°	9661.7	8591.1	8064.8	9100.1	9129.8	10267.0	11735.5
55°	55°	8162.5	7742.5	6889.7	7220.0	7615.8	9366.7	11337.8
60°	60°	7900.9	8851.4	7843.3	6548.5	6356.9	7715.6	9843.1
65°	65°	10856.8	8252.2	7898.9	6853.7	6047.9	7972.3	10376.4
70°	70°	9840.6	7447.8	7207.9	6870.8	6169.4	7556.8	10417.6
75°	75°	5582.1	4223.6	4651.3	5440.9	5474.3	5825.9	5687.6
80°	80°	2145.1	1947.5	2266.2	2778.2	3188.8	3189.7	3202.6
85°	85°	380.0	385.1	439.9	580.2	946.5	1033.8	1134.8

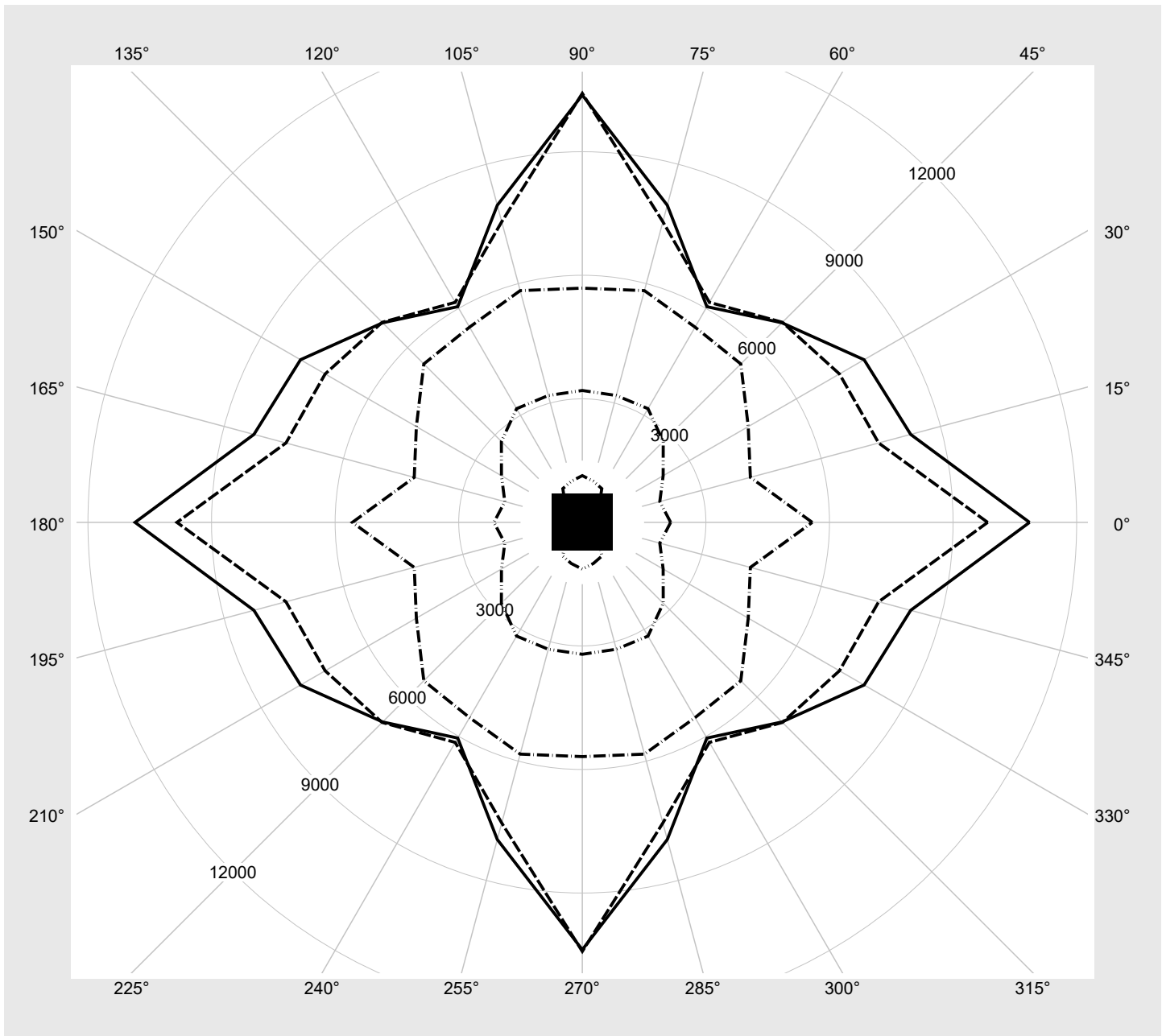
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**Leuchtdichten in cd/m<sup>2</sup>**

$\gamma$ 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	13730	81.2
95	241	252	13044	76.8
90	227	250	12357	72.5
85	214	248	11671	68.4
80	201	245	10984	64.2
75	188	243	10298	60.0
70	175	240	9611	56.0
65	162	238	8925	51.9
60	149	235	8238	48.0
55	136	232	7552	44.1
50	124	228	6865	40.2
45	111	225	6179	36.3
40	99	220	5492	32.5
35	86	216	4806	28.8
30	74	211	4119	25.1
25	62	205	3433	21.3
20	50	198	2746	17.6
15	38	190	2060	14.0
10	26	179	1372	10.4