

## Lichttechnischer Prüfbefund

**Familie**  
Highbay 11

**Bestell-Nr.:** 51HLA2D14FCAD + 59HL91002  
**EAN:** 4058352341629 + 4058352341650

**LP-Nummer**  
58924\_15

**Ausführung** breit strahlend, UGR≤22, Abdeckscheibe, PC

**Bestückung** LED 4000 K | CRI ≥ 80

**Betriebsgerät** EVG-DALI

**Bemessungswerte**  
Nettolichtstrom = 12990 lm  
Systemleistung = 81.2 W  
Lichtausbeute = 160 lm/W

**Seriendokumentation**  
13.06.2019

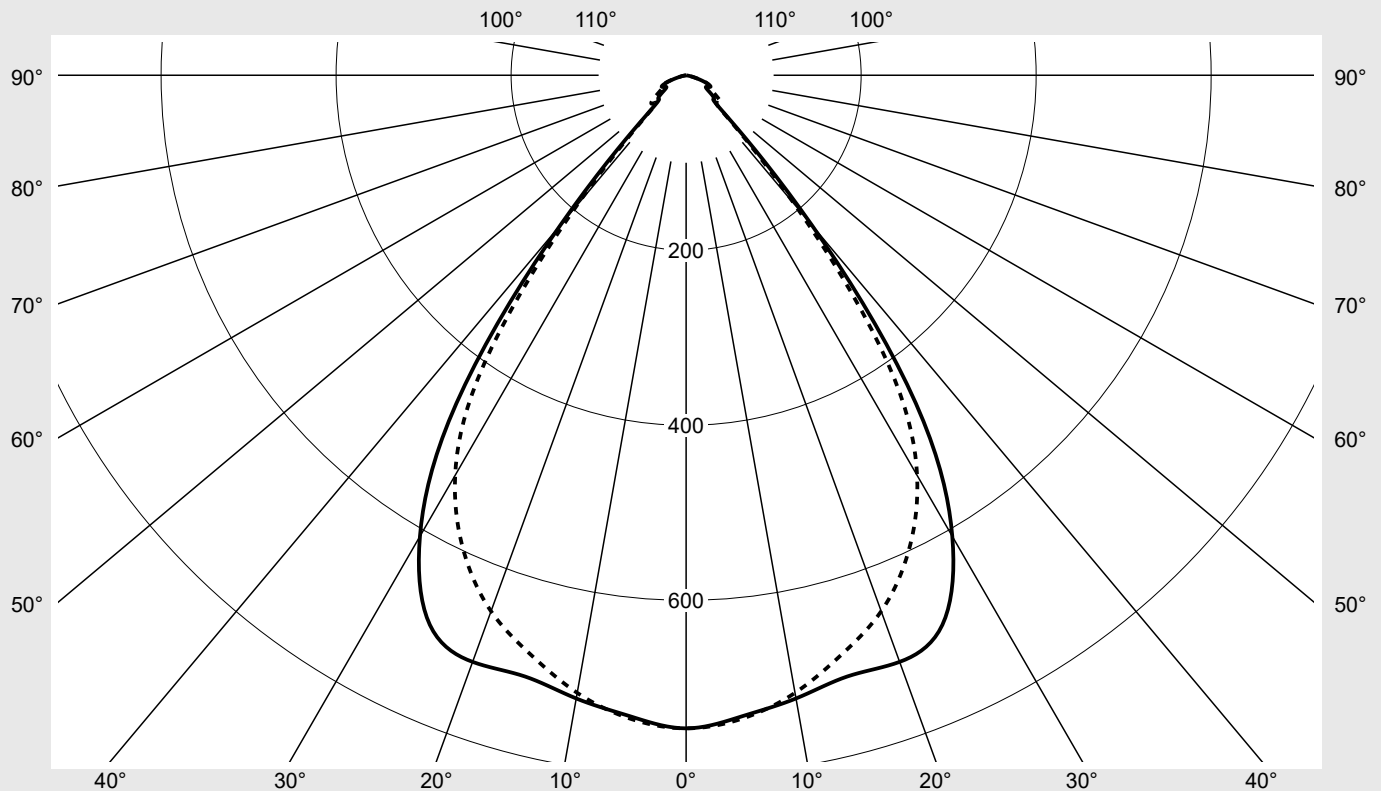
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Lichtstärke in cd/klm

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>

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	20,5	21,7	20,8	22,1	22,4	20,0	21,3	20,4	21,6	21,9
	3H	20,8	21,9	21,1	22,2	22,6	20,4	21,5	20,7	21,8	22,2
	4H	20,8	21,9	21,2	22,2	22,6	20,5	21,5	20,9	21,9	22,2
	6H	20,8	21,7	21,2	22,1	22,5	20,5	21,4	20,9	21,8	22,2
	8H	20,8	21,7	21,3	22,0	22,4	20,5	21,3	21,0	21,7	22,1
	12H	20,8	21,6	21,3	22,0	22,4	20,5	21,3	20,9	21,7	22,1
4H	2H	20,4	21,4	20,8	21,8	22,2	19,9	21,0	20,3	21,3	21,7
	3H	20,8	21,6	21,2	22,0	22,4	20,4	21,2	20,8	21,6	22,0
	4H	20,8	21,6	21,3	22,0	22,5	20,5	21,3	21,0	21,7	22,1
	6H	20,8	21,5	21,3	21,9	22,4	20,5	21,2	21,0	21,6	22,1
	8H	20,8	21,4	21,3	21,8	22,3	20,5	21,1	21,0	21,6	22,0
	12H	20,8	21,3	21,3	21,7	22,2	20,5	21,0	21,0	21,5	22,0
8H	4H	20,8	21,4	21,3	21,8	22,3	20,5	21,1	21,0	21,5	22,0
	6H	20,8	21,2	21,3	21,7	22,2	20,5	21,0	21,0	21,5	22,0
	8H	20,7	21,1	21,2	21,6	22,2	20,5	20,9	21,0	21,4	21,9
	12H	20,7	21,0	21,2	21,5	22,1	20,5	20,8	21,0	21,3	21,9
12H	4H	20,8	21,3	21,3	21,8	22,3	20,5	21,0	21,0	21,4	21,9
	6H	20,8	21,1	21,3	21,6	22,2	20,5	20,9	21,0	21,4	21,9
	8H	20,7	21,0	21,2	21,5	22,1	20,5	20,8	21,0	21,3	21,9

<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°		12638.5	13506.7	15996.1	18012.8	13689.8	12033.1	11728.9	
50°		9141.0	8128.1	7630.1	8609.6	8637.7	9713.6	11103.0	
55°		7722.6	7325.2	6518.4	6830.9	7205.4	8861.9	10726.7	
60°		7475.0	8374.3	7420.6	6195.5	6014.3	7299.7	9312.6	
65°		10271.7	7807.5	7473.2	6484.3	5721.9	7542.6	9817.2	
70°		9310.2	7046.4	6819.4	6500.5	5836.9	7149.6	9856.1	
75°		5281.2	3996.0	4400.6	5147.6	5179.3	5511.9	5381.0	
80°		2029.5	1842.5	2144.1	2628.5	3017.0	3017.8	3030.0	
85°		359.5	364.4	416.2	549.0	895.5	978.1	1073.6	

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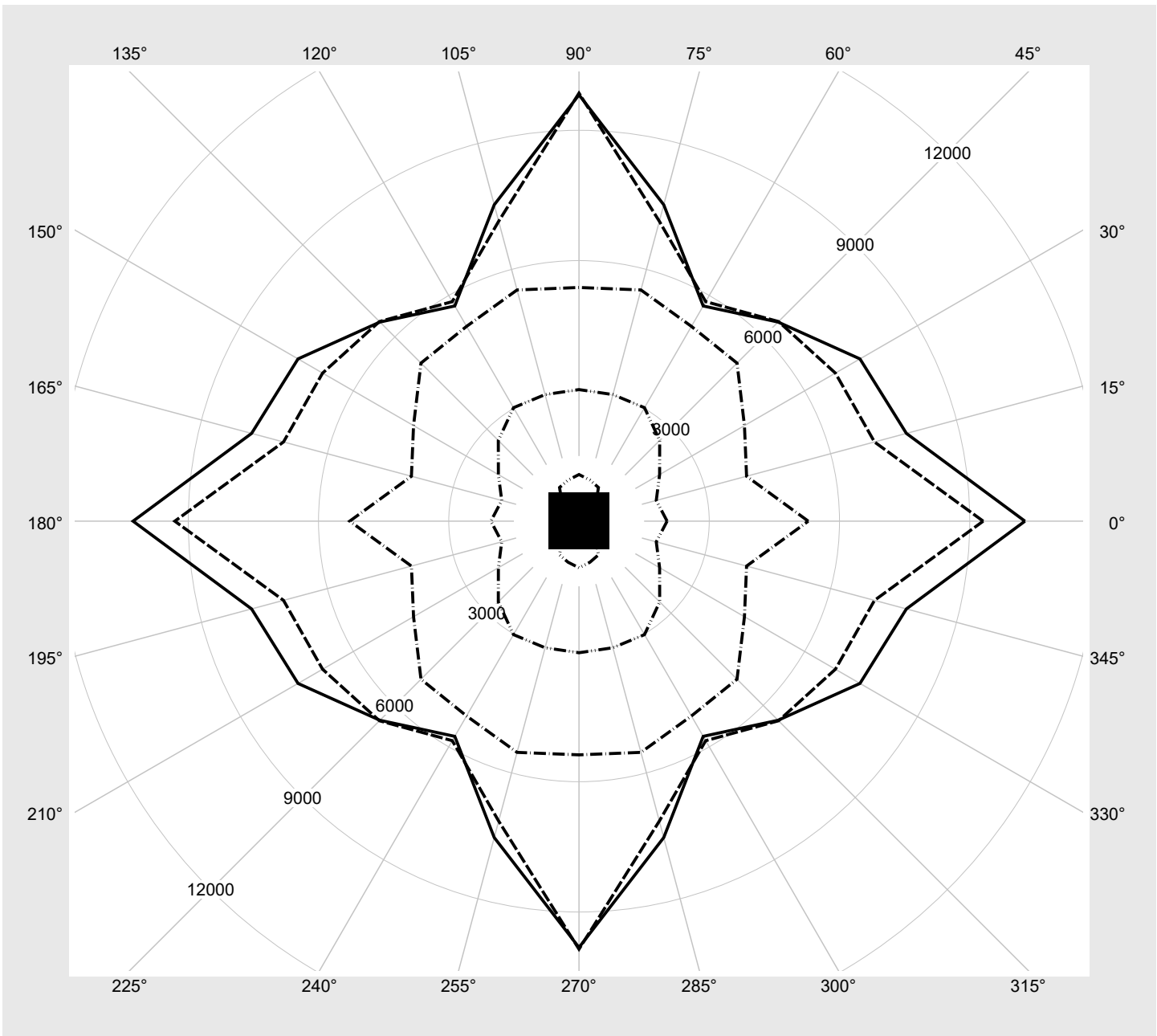
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**Leuchtdichten in cd/m<sup>2</sup>**

$\gamma$  65°   
   $\gamma$  70°   
   $\gamma$  75°   
   $\gamma$  80°   
   $\gamma$  85°



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<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	12990	81.2
95	241	252	12341	76.8
90	227	250	11691	72.5
85	214	248	11042	68.4
80	201	245	10392	64.2
75	188	243	9743	60.0
70	175	240	9093	56.0
65	162	238	8444	51.9
60	149	235	7794	48.0
55	136	232	7145	44.1
50	124	228	6495	40.2
45	111	225	5846	36.3
40	99	220	5196	32.5
35	86	216	4547	28.8
30	74	211	3897	25.1
25	62	205	3248	21.3
20	50	198	2598	17.6
15	38	190	1949	14.0
10	26	179	1298	10.4