

## Lichttechnischer Prüfbefund

**Familie**  
Highbay 11

**Bestell-Nr.:** 51HLA2D14GLA + 59HL91001  
**EAN:** 4058352361467 + 4058352323519

**LP-Nummer**  
58924\_20

**Ausführung** breit strahlend, UGR≤22,  
Einscheibensicherheitsglas (ESG)

**Bestückung** LED 4000 K | CRI ≥ 80

**Betriebsgerät** EVG-DALI

**Bemessungswerte** Nettolichtstrom = 15810 lm  
Systemleistung = 94.8 W  
Lichtausbeute = 166.8 lm/W

**Seriendokumentation**  
31.03.2020

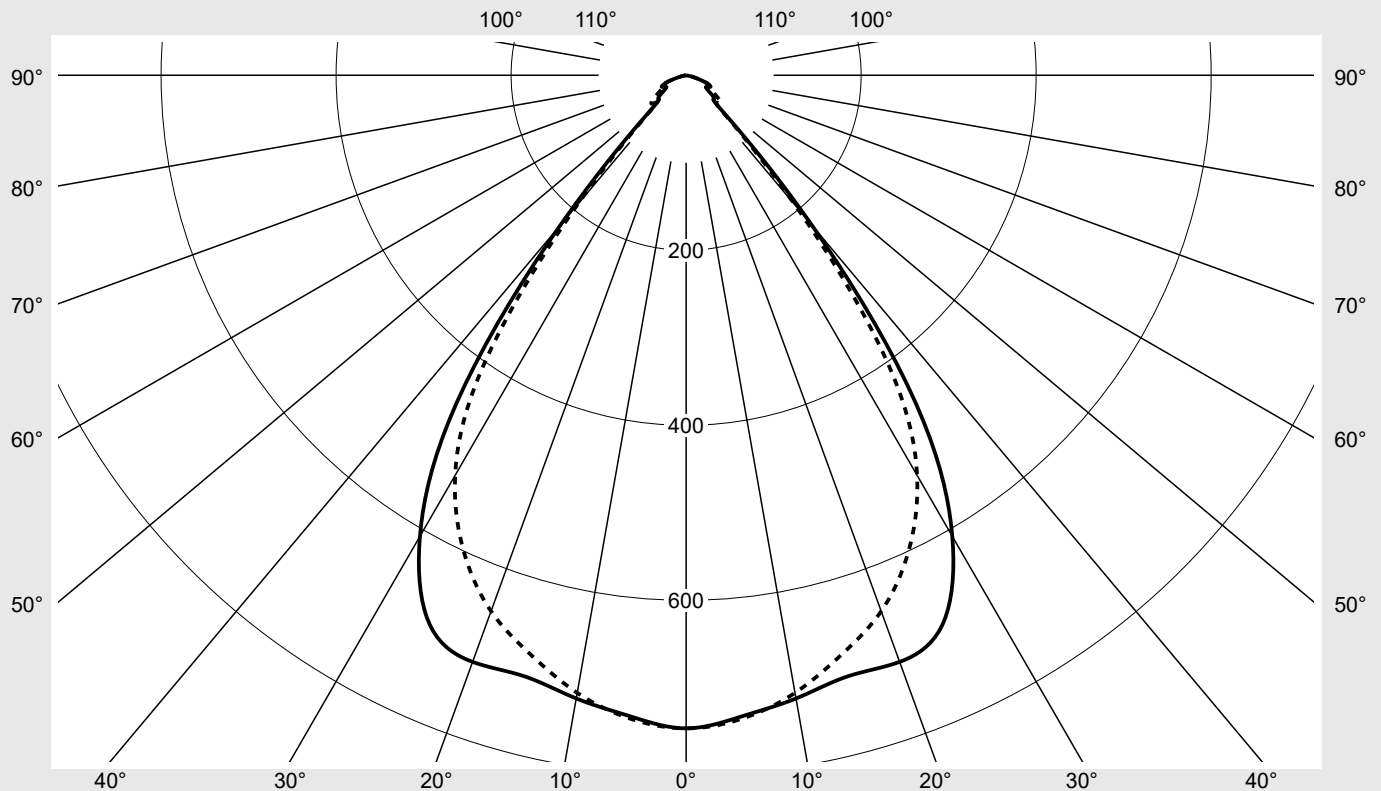
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Lichtstärke in cd/klm

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

<b>Leuchtdichten-Tabelle</b> Max. für $\gamma \geq 65^\circ$	<b>Lichttechnische Abmessungen in mm:</b> L = 295 B = 312
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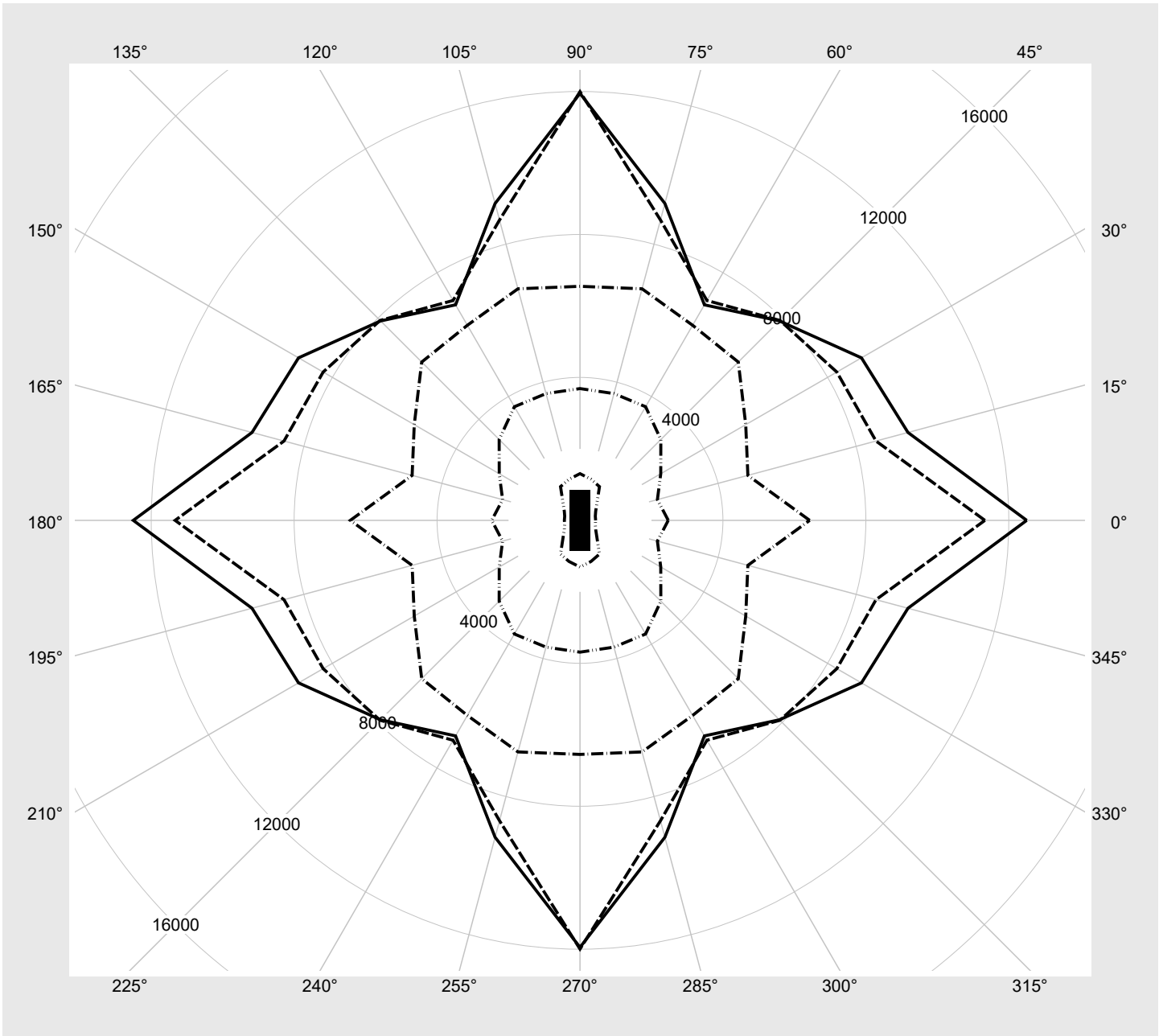
C-Ebenen	$\gamma$	Leuchtdichte in cd/m <sup>2</sup>						
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
45°		15382.2	16438.9	19468.7	21923.2	16661.7	14645.4	14275.2
50°		11125.4	9892.6	9286.6	10478.7	10512.9	11822.3	13513.4
55°		9399.1	8915.4	7933.5	8313.8	8769.6	10785.7	13055.4
60°		9097.8	10192.3	9031.5	7540.5	7319.9	8884.5	11334.3
65°		12501.6	9502.4	9095.5	7892.0	6964.1	9180.1	11948.4
70°		11331.3	8576.1	8299.9	7911.6	7104.1	8701.7	11995.8
75°		6427.7	4863.5	5355.9	6265.1	6303.6	6708.5	6549.2
80°		2470.0	2242.5	2609.5	3199.1	3671.9	3672.9	3687.7
85°		437.5	443.4	506.5	668.1	1089.9	1190.4	1306.7

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

γ 65°
γ 70°
γ 75°
γ 80°
γ 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	15810	94.8
95	240	252	14999	89.5
90	227	250	14237	84.6
85	213	247	13411	79.3
80	200	245	12636	74.3
75	187	243	11853	69.5
70	174	240	11065	64.7
65	161	237	10269	59.9
60	148	234	9469	55.2
55	136	231	8719	50.7
50	123	228	7905	46.0
45	110	224	7083	41.4
40	98	220	6318	37.1
35	86	215	5548	32.8
30	74	210	4771	28.6
25	61	204	3925	24.1
20	49	197	3137	19.8
15	37	188	2344	15.6
10	26	177	1608	11.7
5	14	161	802	7.4