

## Lichttechnischer Prüfbefund

**Familie**  
Highbay 11

**Bestell-Nr.:** 51HLA2D24NCA + 59HL91002  
**EAN:** 4058352322987 + 4058352341650

**LP-Nummer**  
58924\_14

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

**Bestückung** LED 4000 K | CRI ≥ 80

**Betriebsgerät** EVG-DALI

**Bemessungswerte**  
Nettolichtstrom = 29910 lm  
Systemleistung = 189.6 W  
Lichtausbeute = 157.8 lm/W

**Seriendokumentation**  
13.06.2019

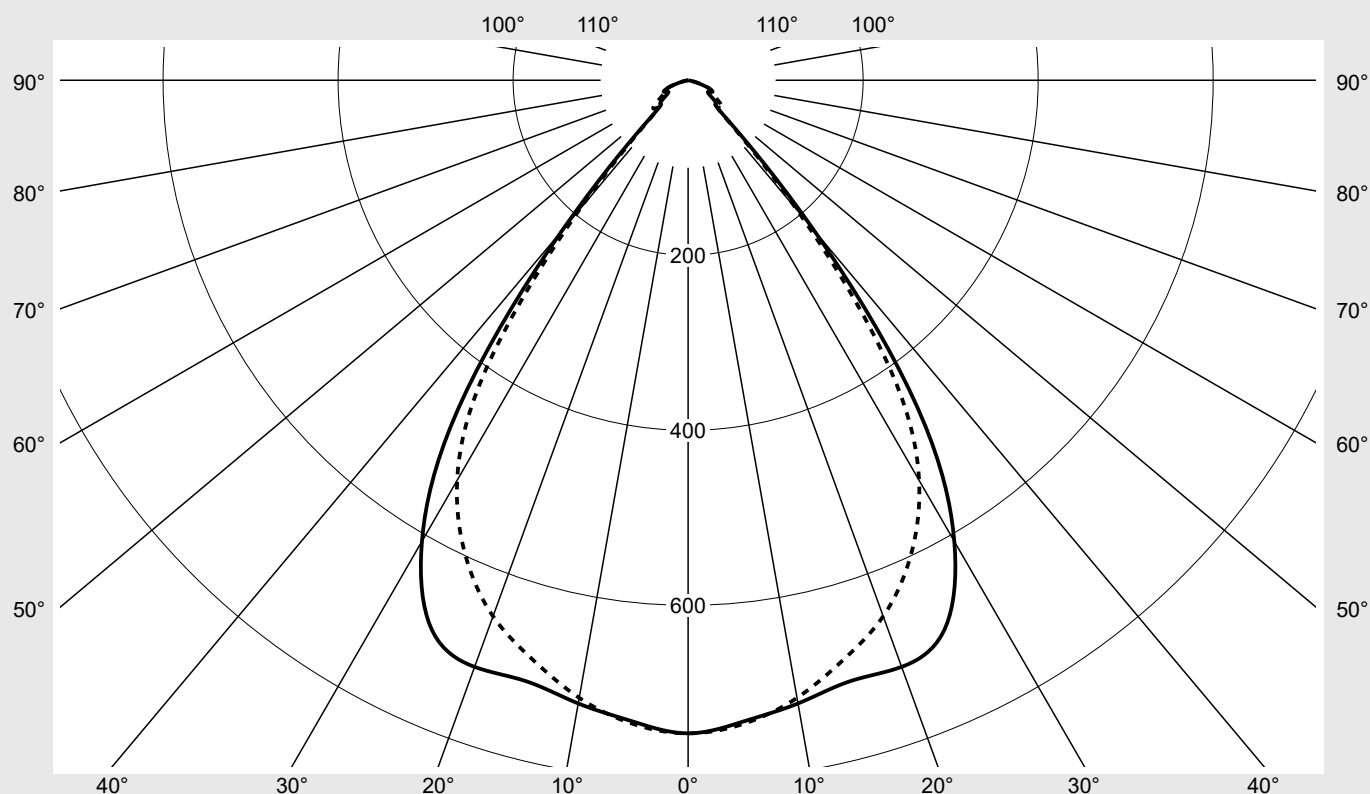
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Lichtstärke in cd/klm

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	20,9	22,2	21,3	22,5	22,9	20,5	21,8	20,8	22,1	22,4
	3H	21,2	22,4	21,6	22,7	23,1	20,8	22,0	21,2	22,3	22,7
	4H	21,3	22,4	21,7	22,7	23,1	21,0	22,0	21,3	22,4	22,7
	6H	21,3	22,2	21,7	22,6	23,0	21,0	21,9	21,4	22,3	22,7
	8H	21,3	22,1	21,8	22,5	22,9	21,0	21,8	21,4	22,2	22,6
	12H	21,3	22,1	21,7	22,4	22,9	21,0	21,7	21,4	22,1	22,6
4H	2H	20,9	21,9	21,3	22,3	22,6	20,4	21,5	20,8	21,8	22,2
	3H	21,3	22,1	21,7	22,5	22,9	20,9	21,7	21,3	22,1	22,5
	4H	21,3	22,1	21,8	22,5	23,0	21,0	21,8	21,5	22,2	22,6
	6H	21,3	22,0	21,8	22,4	22,9	21,0	21,7	21,5	22,1	22,6
	8H	21,3	21,9	21,7	22,3	22,8	21,0	21,6	21,5	22,1	22,5
	12H	21,3	21,7	21,8	22,2	22,7	21,0	21,5	21,5	22,0	22,5
8H	4H	21,3	21,9	21,8	22,3	22,8	21,0	21,6	21,5	22,0	22,5
	6H	21,2	21,7	21,7	22,2	22,7	21,0	21,5	21,5	22,0	22,5
	8H	21,2	21,6	21,7	22,1	22,6	21,0	21,4	21,5	21,9	22,4
	12H	21,2	21,5	21,7	22,0	22,6	21,0	21,3	21,5	21,8	22,4
12H	4H	21,3	21,8	21,8	22,2	22,7	21,0	21,5	21,5	21,9	22,4
	6H	21,3	21,6	21,8	22,1	22,7	21,0	21,4	21,5	21,9	22,4
	8H	21,2	21,5	21,7	22,0	22,6	21,0	21,3	21,5	21,8	22,4

<b>Leuchtdichten-Tabelle</b> Max. für $\gamma \geq 65^\circ$	<b>Lichttechnische Abmessungen in mm:</b> L = 590 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°		14550.3	15549.9	18415.8	20737.6	15760.6	13853.4	13503.2
50°		10523.7	9357.7	8784.3	9912.0	9944.4	11183.0	12782.6
55°		8890.8	8433.3	7504.4	7864.2	8295.3	10202.4	12349.4
60°		8605.8	9641.1	8543.1	7132.7	6924.1	8404.0	10721.3
65°		11825.5	8988.5	8603.7	7465.2	6587.5	8683.6	11302.2
70°		10718.5	8112.3	7851.0	7483.8	6719.9	8231.1	11347.1
75°		6080.1	4600.4	5066.3	5926.3	5962.7	6345.7	6195.0
80°		2336.5	2121.2	2468.4	3026.1	3473.3	3474.3	3488.3
85°		413.9	419.5	479.1	632.0	1031.0	1126.0	1236.0

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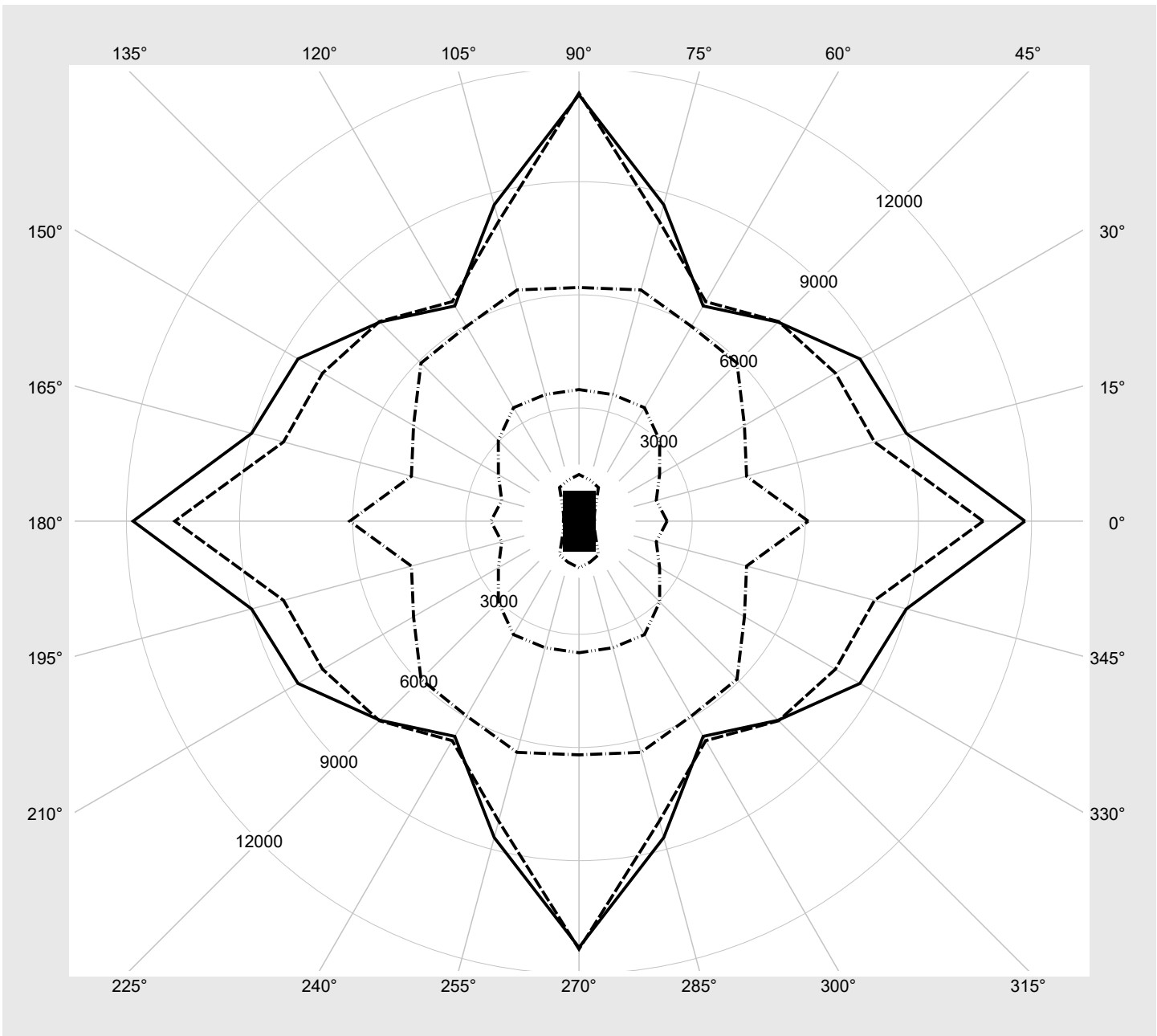
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**Leuchtdichten in cd/m<sup>2</sup>**

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



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<b>Dimmstufen-Tabelle</b>		<b>sITeco</b>
Umgebungstemperatur: 25°C		

Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [W]
100	254	254	29910	189.6
95	240	252	28415	179.4
90	227	250	26919	169.2
85	213	248	25424	158.9
80	200	245	23928	148.9
75	187	243	22433	139.4
70	174	240	20937	129.5
65	161	237	19442	120.1
60	148	234	17946	110.8
55	135	231	16451	101.4
50	123	228	14955	92.3
45	110	224	13460	83.2
40	98	220	11964	74.4
35	85	215	10469	65.5
30	73	210	8973	56.9
25	61	204	7478	48.4
20	49	197	5982	39.9
15	37	188	4487	31.4
10	25	177	2990	23.0