

## Lichttechnischer Prüfbefund

**Familie**  
Highbay 11

**Bestell-Nr.:** 51HLA1D24NCA + 59HL91002  
**EAN:** 4058352322932 + 4058352341650

**LP-Nummer**  
58920\_14

**Ausführung** eng strahlend, UGR≤22, Abdeckscheibe, PC  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG-DALI  
**Bemessungswerte** Nettolichtstrom = 29470 lm  
Systemleistung = 189.6 W  
Lichtausbeute = 155.4 lm/W

**Seriendokumentation**  
13.06.2019

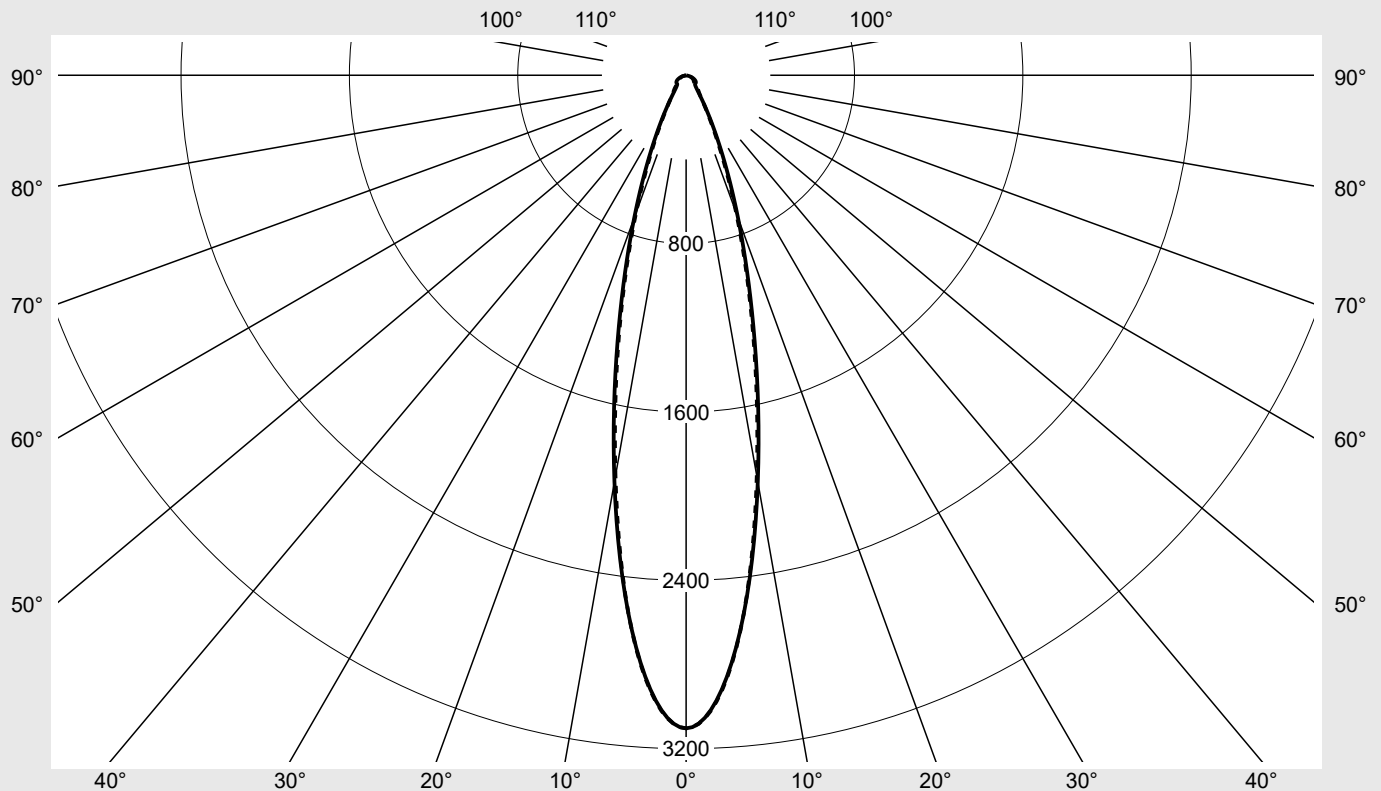
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Lichtstärke in cd/klm

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	
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			Phi-Zone	Phi-Zone
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	18,8	20,0	19,2	20,3	20,6	17,8	18,9	18,1	19,2	19,6
	3H	20,3	21,3	20,7	21,6	22,0	19,1	20,2	19,5	20,5	20,9
	4H	20,6	21,6	21,0	21,9	22,3	19,7	20,6	20,1	21,0	21,4
	6H	20,7	21,6	21,2	22,0	22,3	20,0	20,9	20,4	21,2	21,6
	8H	20,8	21,5	21,2	21,9	22,3	20,2	20,9	20,6	21,3	21,7
	12H	20,8	21,4	21,2	21,8	22,2	20,2	20,8	20,6	21,2	21,6
4H	2H	19,5	20,5	19,9	20,8	21,2	18,8	19,7	19,2	20,1	20,5
	3H	21,1	21,9	21,5	22,3	22,7	20,2	21,0	20,7	21,4	21,8
	4H	21,5	22,2	21,9	22,6	23,1	20,8	21,5	21,3	21,9	22,4
	6H	21,6	22,2	22,1	22,7	23,1	21,1	21,7	21,6	22,2	22,7
	8H	21,6	22,1	22,1	22,6	23,1	21,2	21,8	21,7	22,2	22,7
	12H	21,6	22,0	22,1	22,5	23,0	21,2	21,7	21,7	22,1	22,6
8H	4H	21,7	22,2	22,1	22,6	23,1	21,1	21,6	21,5	22,0	22,5
	6H	21,8	22,2	22,3	22,7	23,2	21,4	21,9	21,9	22,3	22,8
	8H	21,8	22,2	22,3	22,7	23,2	21,5	21,9	22,0	22,4	22,9
	12H	21,7	22,1	22,3	22,6	23,1	21,5	21,8	22,0	22,3	22,9
12H	4H	21,7	22,1	22,1	22,6	23,1	21,0	21,5	21,5	21,9	22,4
	6H	21,8	22,2	22,3	22,6	23,2	21,4	21,8	21,9	22,3	22,8
	8H	21,8	22,1	22,3	22,6	23,1	21,5	21,8	22,0	22,3	22,8

<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°		13538.9	13617.4	14690.6	16094.1	15528.5	14544.1	14233.9
50°		14638.8	14938.7	16029.3	16542.6	14230.4	12315.3	12075.5
55°		15766.9	16065.0	16951.2	16447.4	14305.2	12254.5	12176.6
60°		16121.4	16246.6	16694.5	16704.1	14478.9	12322.7	12163.6
65°		15401.0	15317.3	15698.4	16098.8	14047.5	12116.0	11998.9
70°		13312.2	13209.3	13652.5	14134.2	12848.8	11434.3	11396.4
75°		9322.8	9622.2	10230.3	11135.2	10411.5	10147.4	10411.5
80°		4927.8	5133.4	5707.7	6331.9	6829.7	6889.7	8349.1
85°		845.0	848.6	1039.7	1429.1	2046.3	2468.7	3356.0

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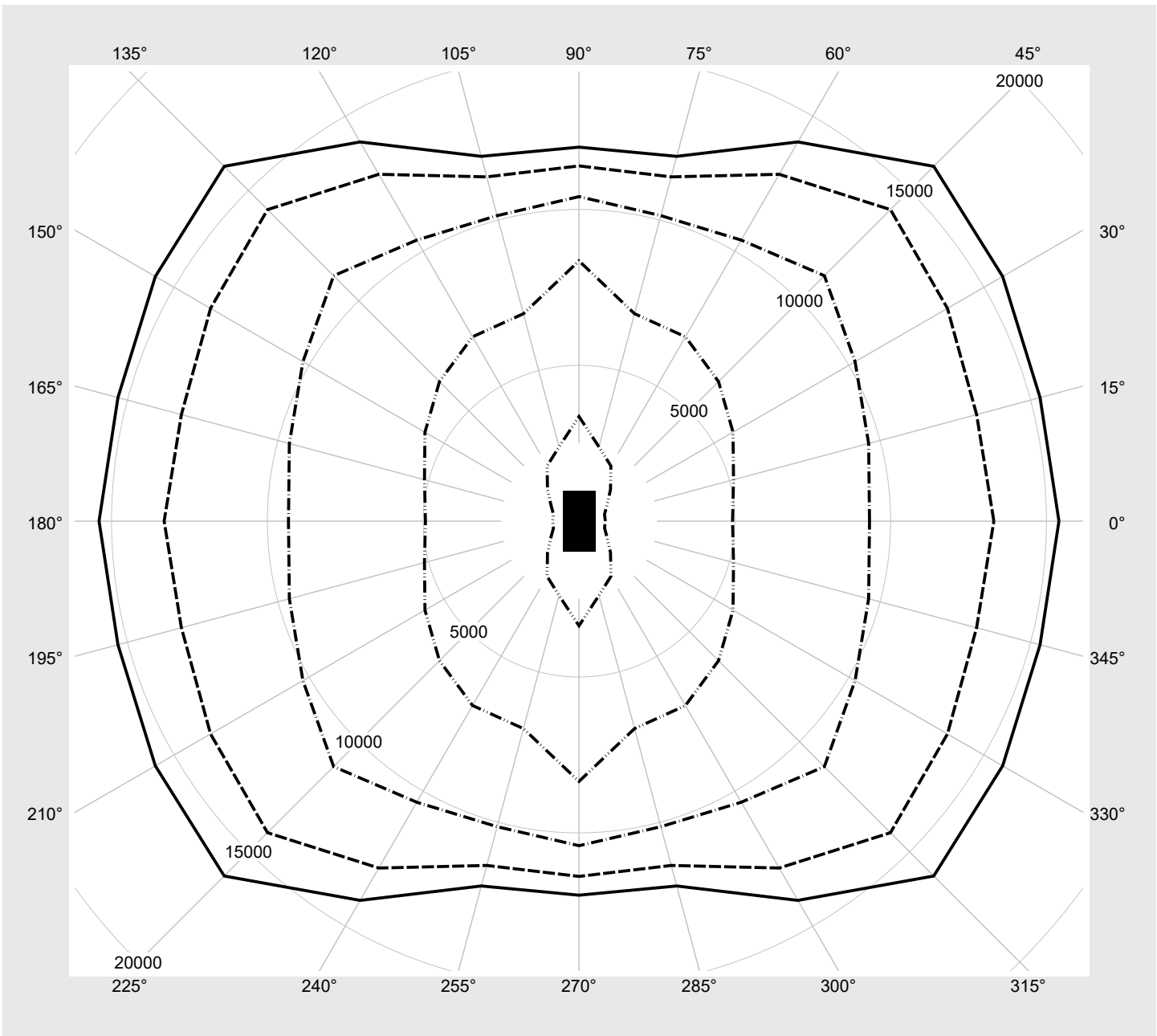
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**Leuchtdichten in cd/m<sup>2</sup>**

γ 65°
γ 70°
γ 75°
γ 80°
γ 85°



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

Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [W]
100	254	254	29470	189.6
95	240	252	27997	179.4
90	227	250	26523	169.2
85	213	248	25050	158.9
80	200	245	23576	148.9
75	187	243	22103	139.4
70	174	240	20629	129.6
65	161	237	19156	120.1
60	148	234	17682	110.8
55	135	231	16209	101.4
50	123	228	14735	92.3
45	110	224	13262	83.2
40	98	220	11788	74.4
35	85	215	10315	65.5
30	73	210	8841	56.9
25	61	204	7368	48.4
20	49	197	5894	39.9
15	37	188	4421	31.4
10	25	177	2946	23.0