

## Lichttechnischer Prüfbefund

**Familie**  
Highbay 11

**Bestell-Nr.:** 51HLA1D24NLA + 59HL91001  
**EAN:** 4058352361443 + 4058352323519

**LP-Nummer**  
58920\_21

**Ausführung** eng strahlend, UGR≤22,  
Einscheibensicherheitsglas (ESG)  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG-DALI  
**Bemessungswerte** Nettolichtstrom = 31240 lm  
Systemleistung = 189.6 W  
Lichtausbeute = 164.8 lm/W

**Seriendokumentation**  
31.03.2020

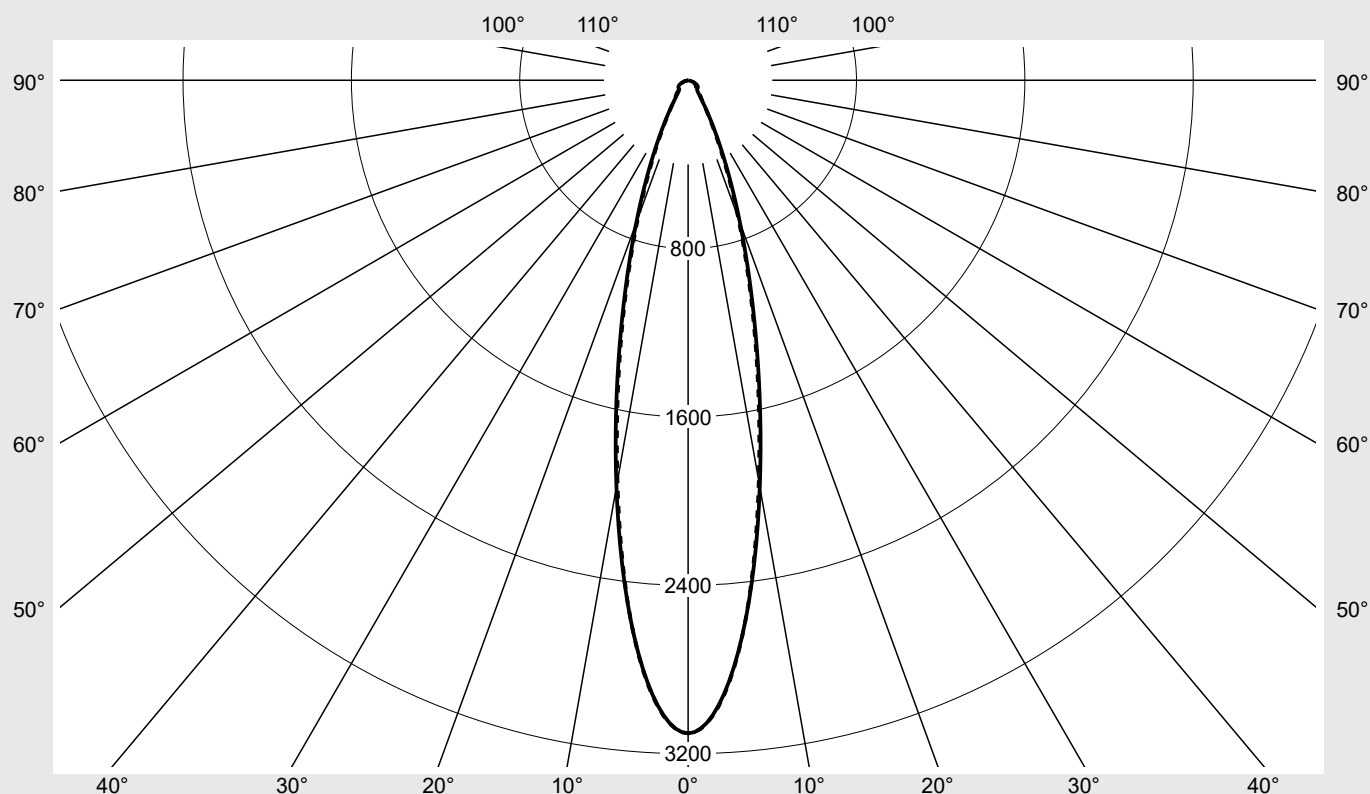
siteco

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>

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	19,0	20,2	19,4	20,5	20,8	18,0	19,1	18,3	19,5	19,8
	3H	20,5	21,5	20,9	21,8	22,2	19,4	20,4	19,7	20,7	21,1
	4H	20,8	21,8	21,2	22,1	22,5	19,9	20,8	20,3	21,2	21,6
	6H	20,9	21,8	21,4	22,2	22,6	20,2	21,1	20,6	21,4	21,8
	8H	21,0	21,7	21,4	22,1	22,5	20,4	21,1	20,8	21,5	21,9
	12H	21,0	21,6	21,4	22,0	22,4	20,4	21,0	20,8	21,4	21,8
4H	2H	19,7	20,7	20,1	21,0	21,4	19,0	19,9	19,4	20,3	20,7
	3H	21,3	22,1	21,7	22,5	22,9	20,5	21,2	20,9	21,6	22,0
	4H	21,7	22,4	22,1	22,8	23,3	21,0	21,7	21,5	22,1	22,6
	6H	21,8	22,4	22,3	22,9	23,3	21,3	21,9	21,8	22,4	22,9
	8H	21,8	22,3	22,3	22,8	23,3	21,4	22,0	21,9	22,4	22,9
	12H	21,8	22,2	22,3	22,7	23,2	21,4	21,9	21,9	22,3	22,8
8H	4H	21,9	22,4	22,3	22,8	23,3	21,3	21,8	21,7	22,2	22,7
	6H	22,0	22,4	22,5	22,9	23,4	21,6	22,1	22,1	22,5	23,1
	8H	22,0	22,4	22,5	22,9	23,4	21,7	22,1	22,2	22,6	23,1
	12H	21,9	22,3	22,5	22,8	23,3	21,7	22,0	22,2	22,5	23,1
12H	4H	21,9	22,3	22,4	22,8	23,3	21,2	21,7	21,7	22,2	22,7
	6H	22,0	22,4	22,5	22,8	23,4	21,6	22,0	22,1	22,5	23,0
	8H	22,0	22,3	22,5	22,8	23,3	21,7	22,0	22,2	22,5	23,0

## Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$

Lichttechnische Abmessungen in mm: L = 590 B = 312

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°		14352.0	14435.3	15572.9	17060.7	16461.2	15417.7	15088.8
50°		15518.0	15835.9	16992.1	17536.2	15085.1	13055.0	12800.7
55°		16713.9	17029.9	17969.3	17435.2	15164.4	12990.5	12908.0
60°		17089.7	17222.4	17697.2	17707.4	15348.5	13062.8	12894.1
65°		16326.0	16237.3	16641.3	17065.7	14891.2	12843.7	12719.6
70°		14111.8	14002.6	14472.5	14983.1	13620.6	12121.1	12080.9
75°		9882.8	10200.1	10844.7	11804.0	11036.8	10756.8	11036.8
80°		5223.7	5441.7	6050.6	6712.2	7239.9	7303.5	8850.6
85°		895.7	899.6	1102.1	1514.9	2169.2	2617.0	3557.5

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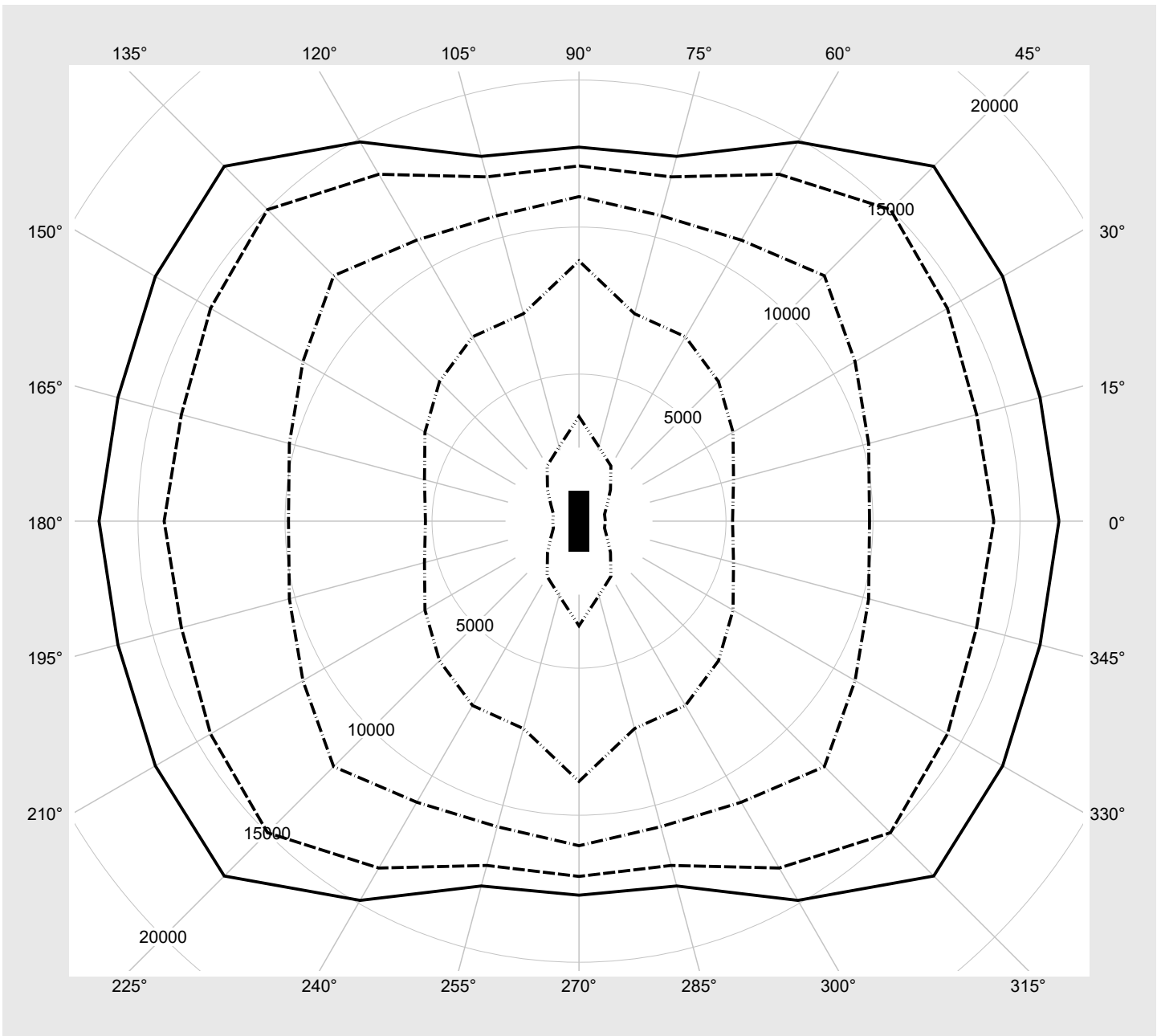
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**Leuchtdichten in cd/m<sup>2</sup>**



γ 65°
γ 70°
γ 75°
γ 80°
γ 85°



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<b>Dimmstufen-Tabelle</b>	Umgebungstemperatur: 25°C	<b>sITeco</b>
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Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [W]
100	254	254	31240	189.6
95	240	252	29638	179.0
90	227	250	28132	169.1
85	213	247	26500	158.4
80	200	245	24968	148.5
75	187	243	23421	139.0
70	174	240	21864	129.4
65	161	237	20292	119.8
60	148	234	18710	110.4
55	136	231	17228	101.5
50	123	228	15619	92.1
45	110	224	13996	82.8
40	98	220	12486	74.2
35	86	215	10964	65.6
30	74	210	9428	57.1
25	61	204	7755	48.1
20	49	197	6199	39.5
15	37	188	4631	31.2
10	26	177	3176	23.3
5	14	161	1586	14.9