

## Lichttechnischer Prüfbefund

**Familie**  
Highbay 11

**Bestell-Nr.:** 51HLA1D24NCA  
**EAN:** 4058352322932

**LP-Nummer**  
58918\_4



**Ausführung** eng strahlend, UGR≤22  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG-DALI  
**Bemessungswerte** Nettolichtstrom = 32370 lm  
Systemleistung = 189.6 W  
Lichtausbeute = 170.7 lm/W

**Seriendokumentation**  
21.05.2019

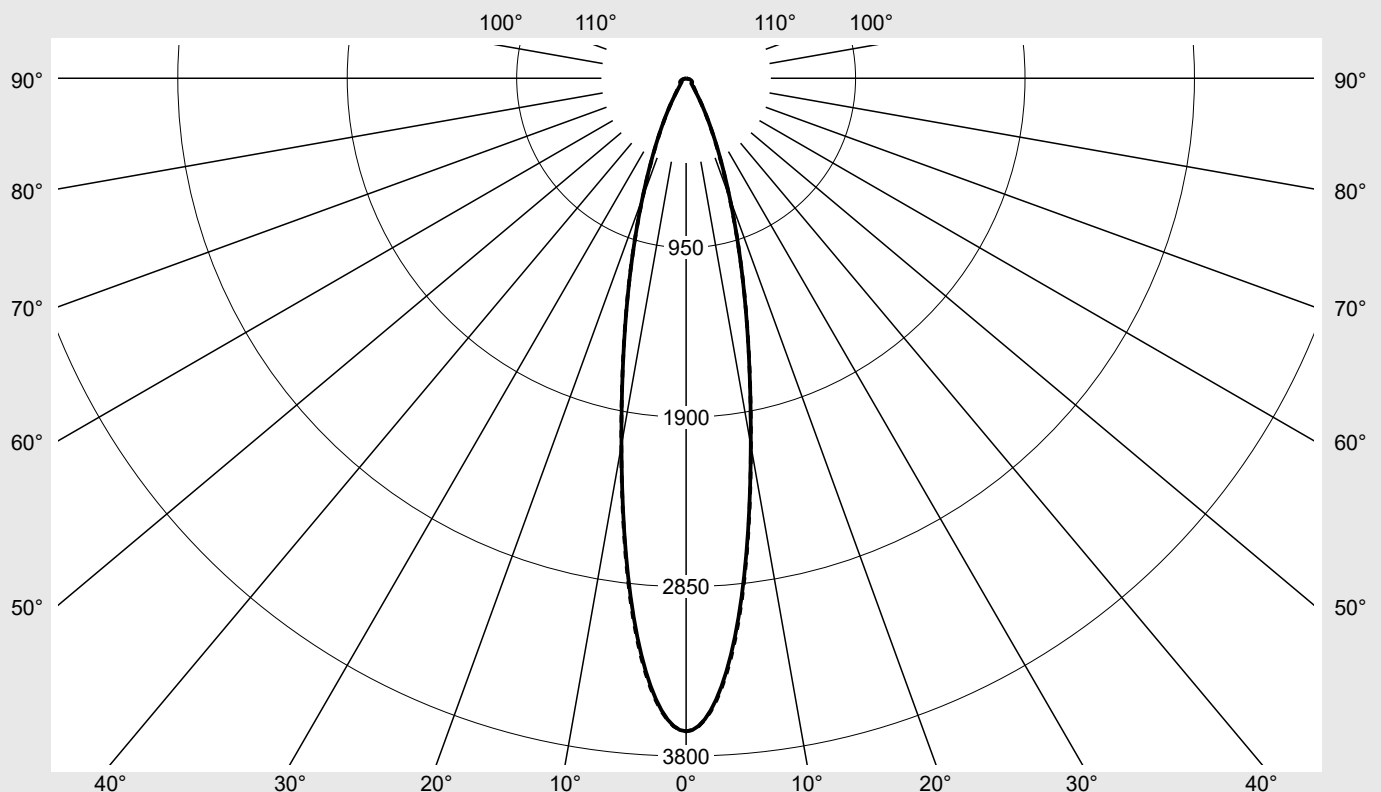
siteco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 3662 cd/klm



#### Klassifizierungen

DIN 5040 A 7 0  
CIE N1=88 N2=95 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 Phi-Zone
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			
γ									
Lichtstärke in cd/klm									
Lichtstrom in lm/klm									
0°	3661.5	3661.5	3661.5	3661.5	3661.5	3661.5	3661.5	21.9	21.9
5°	3142.6	3138.8	3148.7	3152.8	3150.8	3162.1	3157.3	150.5	172.4
10°	2088.2	2082.4	2095.8	2102.6	2097.1	2098.1	2092.4	199.3	371.8
15°	1265.5	1263.0	1272.3	1276.0	1271.9	1272.7	1269.2	180.2	552.0
20°	717.4	718.4	730.4	738.2	732.8	722.5	712.3	136.1	688.1
25°	380.2	383.6	397.1	405.5	395.8	382.2	373.9	90.4	778.5
30°	189.9	192.8	203.8	209.2	205.7	196.2	189.8	54.7	833.2
35°	93.4	93.2	98.1	106.1	108.6	103.6	99.4	31.8	865.0
40°	56.8	57.1	60.0	67.1	71.1	71.1	70.3	22.9	887.9
45°	41.2	40.8	44.9	50.9	50.2	47.6	46.5	18.0	905.9
50°	41.3	41.9	46.2	48.9	40.8	33.1	32.5	17.3	923.2
55°	41.3	42.1	45.2	43.2	36.0	29.8	29.9	17.4	940.6
60°	39.0	39.2	40.5	39.6	33.4	27.4	27.5	16.9	957.4
65°	33.8	33.6	34.5	34.8	29.3	24.3	24.5	15.4	972.8
70°	26.5	26.3	27.0	27.6	23.9	20.0	20.0	12.7	985.5
75°	15.9	16.7	18.0	19.3	17.3	15.5	15.6	9.0	994.6
80°	6.4	6.9	7.9	9.2	9.9	9.6	10.9	4.7	999.3
85°	0.5	0.5	0.6	1.0	1.8	2.4	3.4	0.7	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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<b>UGR-Tabelle</b>	<b>Standardraum</b>	<b>siteco</b>
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Reflexionsgrad Decke	0,7	0,7	0,5	0,5	0,3	0,7	0,7	0,5	0,5	0,3	
Reflexionsgrad Wände	0,5	0,3	0,5	0,3	0,3	0,5	0,3	0,5	0,3	0,3	
Reflexionsgrad Boden	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2	
<b>Raumabmessungen</b>	<b>Blickrichtung quer zur Leuchte (C0)</b>					<b>Blickrichtung längs zur Leuchte (C90)</b>					
x	y										
2H	2H	17,2	18,3	17,6	18,7	19,0	16,0	17,1	16,3	17,4	17,7
	3H	19,1	20,1	19,5	20,4	20,8	17,6	18,5	17,9	18,9	19,2
	4H	19,7	20,6	20,1	20,9	21,3	18,3	19,2	18,7	19,5	19,9
	6H	19,9	20,7	20,3	21,1	21,5	18,9	19,8	19,3	20,1	20,5
	8H	20,0	20,7	20,4	21,1	21,5	19,3	19,9	19,7	20,3	20,7
	12H	20,0	20,6	20,4	21,0	21,4	19,3	20,0	19,7	20,4	20,8
4H	2H	18,0	18,9	18,4	19,3	19,7	17,1	18,0	17,5	18,4	18,8
	3H	20,0	20,8	20,4	21,2	21,6	18,8	19,6	19,3	20,0	20,4
	4H	20,7	21,4	21,1	21,8	22,2	19,6	20,3	20,1	20,7	21,2
	6H	21,0	21,5	21,4	22,0	22,4	20,3	20,9	20,8	21,3	21,8
	8H	21,0	21,5	21,5	22,0	22,4	20,6	21,1	21,0	21,5	22,0
	12H	21,0	21,4	21,4	21,9	22,4	20,6	21,1	21,1	21,5	22,0
8H	4H	21,0	21,5	21,5	21,9	22,4	20,1	20,6	20,6	21,1	21,5
	6H	21,4	21,7	21,9	22,2	22,7	20,9	21,3	21,4	21,8	22,3
	8H	21,3	21,7	21,8	22,2	22,7	21,1	21,5	21,6	22,0	22,5
	12H	21,3	21,6	21,8	22,1	22,7	21,2	21,5	21,7	22,0	22,5
12H	4H	21,0	21,4	21,5	21,9	22,4	20,1	20,5	20,6	21,0	21,5
	6H	21,3	21,7	21,8	22,2	22,7	20,9	21,2	21,4	21,7	22,2
	8H	21,3	21,7	21,9	22,2	22,7	21,1	21,4	21,6	21,9	22,5

<b>Leuchtdichten-Tabelle</b>	<b>Max. für <math>\gamma \geq 65^\circ</math></b>	<b>Lichttechnische Abmessungen in mm:</b>	<b>L = 600</b>	<b>B = 320</b>
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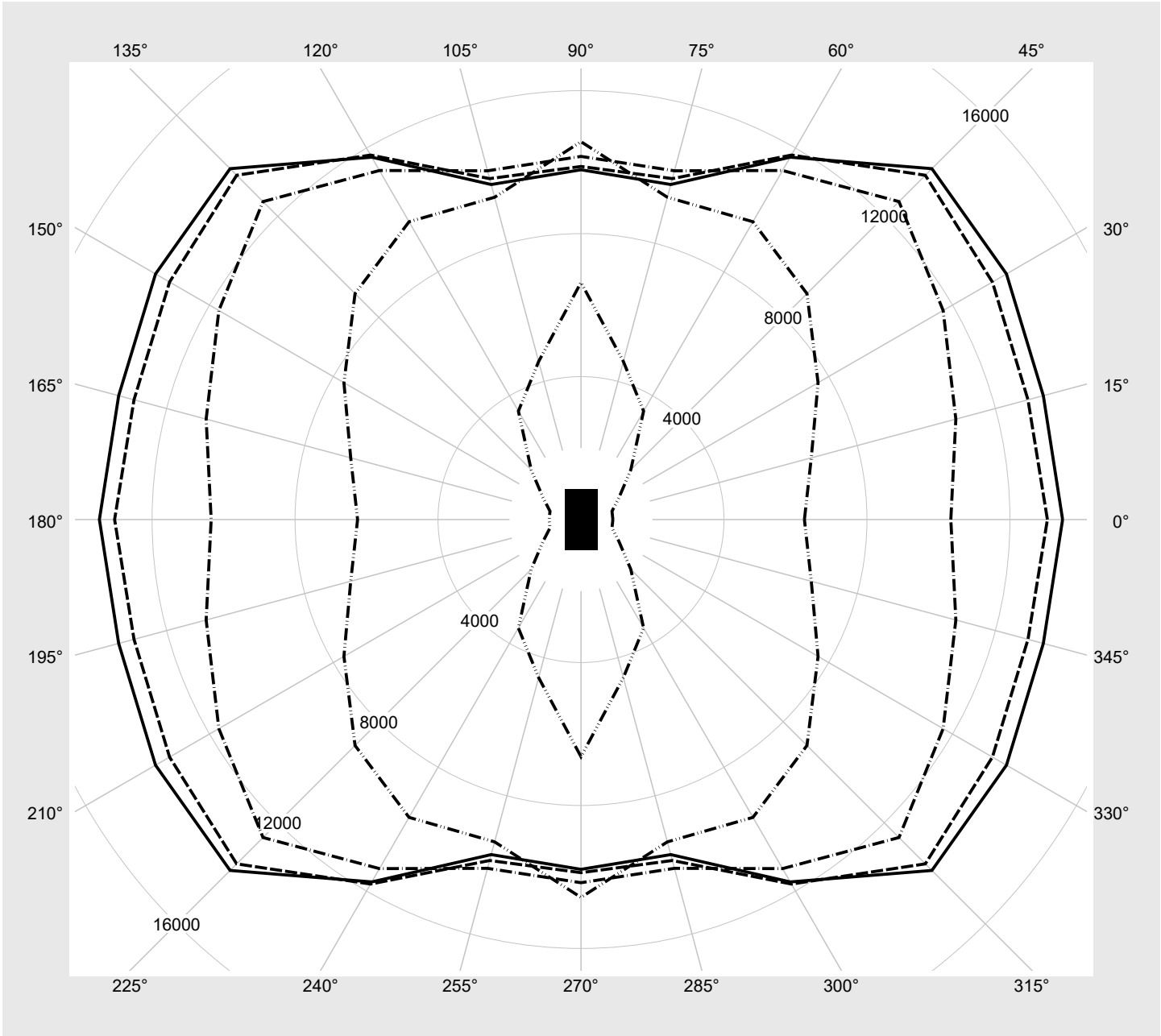
C-Ebenen	$\gamma$	Leuchtdichte in cd/m <sup>2</sup>						
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
45°		9815.1	9719.7	10713.3	12134.8	11972.9	11352.3	11085.7
50°		10843.4	10999.5	12107.6	12829.4	10693.6	8689.3	8522.4
55°		12149.2	12372.9	13294.9	12685.6	10571.3	8753.9	8801.3
60°		13154.7	13216.7	13642.6	13359.4	11270.5	9239.6	9280.4
65°		13473.8	13390.8	13744.6	13883.8	11706.9	9704.7	9786.5
70°		13048.5	12946.4	13291.0	13623.2	11775.2	9875.5	9878.9
75°		10346.8	10856.8	11699.1	12581.1	11277.0	10102.5	10160.5
80°		6250.6	6670.0	7658.4	8940.0	9621.5	9336.1	10572.1
85°		891.8	897.6	1226.4	1971.1	3503.2	4578.7	6635.0

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


siteco



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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	32370	189.6
95	240	252	30752	179.4
90	227	250	29133	169.2
85	213	248	27515	158.9
80	200	245	25896	148.9
75	187	243	24278	139.4
70	174	240	22659	129.6
65	161	237	21041	120.1
60	148	234	19422	110.8
55	135	231	17804	101.4
50	123	227	16185	92.3
45	110	224	14567	83.2
40	98	219	12948	74.4
35	85	214	11330	65.5
30	73	209	9711	56.9
25	61	202	8093	48.4
20	49	194	6474	39.9
15	37	184	4856	31.4
10	25	170	3236	23.0