

## Lichttechnischer Prüfbefund

**Familie**  
Highbay 11

**Bestell-Nr.:** 51HLA1D24MCA  
**EAN:** 4058352322925

**LP-Nummer**  
58918\_3



**Ausführung** eng strahlend, UGR≤22  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG-DALI  
**Bemessungswerte** Nettolichtstrom = 28120 lm  
Systemleistung = 162.4 W  
Lichtausbeute = 173.2 lm/W

**Seriendokumentation**  
21.05.2019

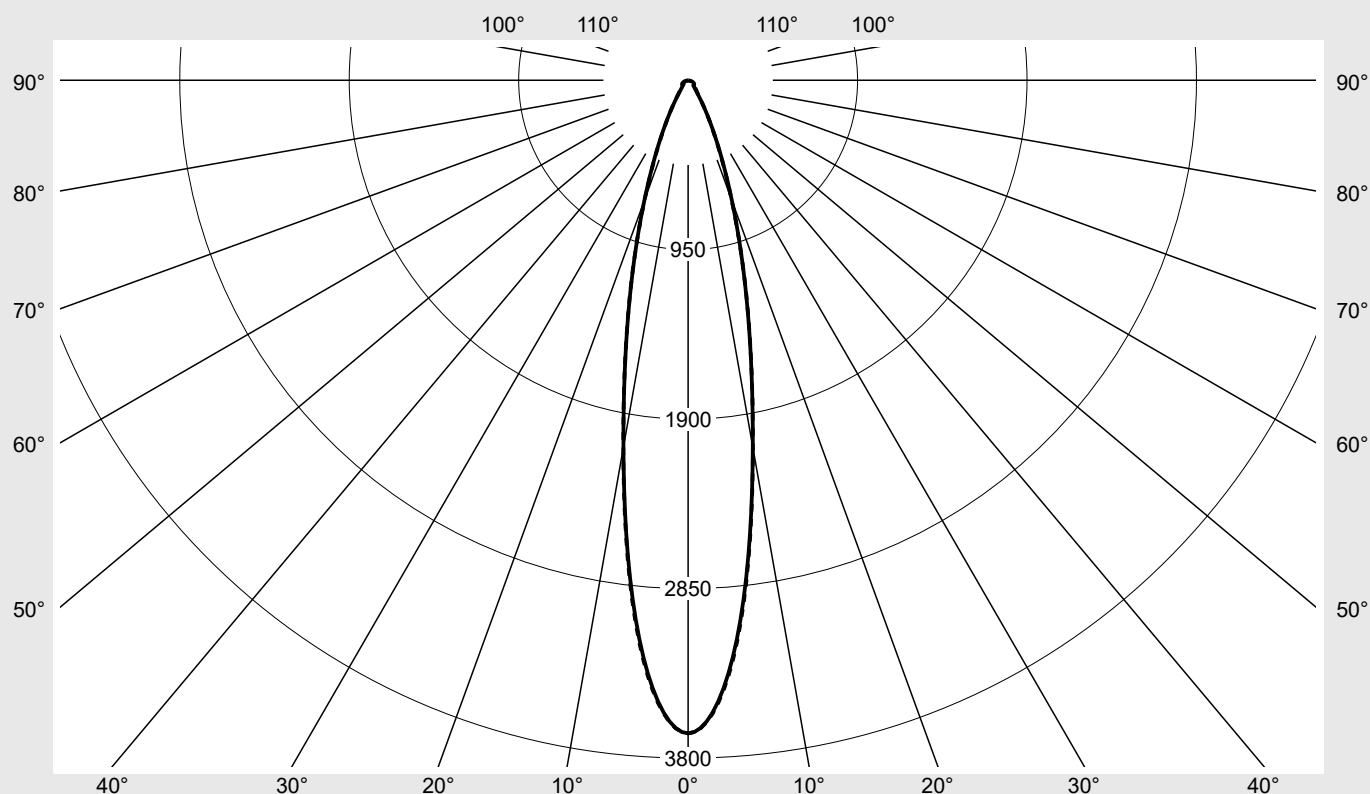
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Lichtstärke in cd/klm

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>
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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°			
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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UGR-Tabelle		Standardraum									
		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
Raumabmessungen											
x	y										
2H	2H	16,7	17,9	17,1	18,2	18,5	15,5	16,6	15,8	16,9	17,2
	3H	18,6	19,6	19,0	19,9	20,3	17,1	18,0	17,5	18,4	18,7
	4H	19,2	20,1	19,6	20,4	20,8	17,8	18,7	18,2	19,0	19,4
	6H	19,4	20,2	19,8	20,6	21,0	18,4	19,3	18,9	19,6	20,0
	8H	19,5	20,2	19,9	20,6	21,0	18,8	19,5	19,2	19,8	20,2
	12H	19,5	20,1	19,9	20,5	20,9	18,8	19,5	19,3	19,9	20,3
4H	2H	17,5	18,4	17,9	18,8	19,2	16,6	17,5	17,0	17,9	18,3
	3H	19,5	20,3	20,0	20,7	21,1	18,4	19,1	18,8	19,5	19,9
	4H	20,2	20,9	20,6	21,3	21,7	19,1	19,8	19,6	20,2	20,7
	6H	20,5	21,1	20,9	21,5	22,0	19,8	20,4	20,3	20,8	21,3
	8H	20,5	21,0	21,0	21,5	21,9	20,1	20,6	20,5	21,0	21,5
	12H	20,5	20,9	21,0	21,4	21,9	20,1	20,6	20,6	21,0	21,5
8H	4H	20,5	21,0	21,0	21,4	21,9	19,6	20,1	20,1	20,6	21,0
	6H	20,9	21,3	21,4	21,7	22,2	20,4	20,8	20,9	21,3	21,8
	8H	20,8	21,2	21,4	21,7	22,2	20,6	21,0	21,1	21,5	22,0
	12H	20,8	21,1	21,3	21,6	22,2	20,7	21,0	21,2	21,5	22,1
12H	4H	20,5	20,9	21,0	21,4	21,9	19,6	20,0	20,1	20,5	21,0
	6H	20,8	21,2	21,3	21,7	22,2	20,4	20,7	20,9	21,2	21,8
	8H	20,9	21,2	21,4	21,7	22,2	20,6	20,9	21,1	21,4	22,0

<b>Leuchtdichten-Tabelle</b> Max. für $\gamma \geq 65^\circ$	<b>Lichttechnische Abmessungen in mm:</b> L = 600 B = 320
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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°		8526.4	8443.6	9306.7	10541.5	10400.9	9861.8	9630.2	
50°		9419.7	9555.3	10518.0	11145.0	9289.6	7548.4	7403.5	
55°		10554.1	10748.4	11549.4	11020.1	9183.4	7604.6	7645.7	
60°		11427.6	11481.5	11851.4	11605.4	9790.7	8026.5	8061.9	
65°		11704.7	11632.6	11940.0	12061.0	10169.9	8430.5	8501.6	
70°		11335.3	11246.7	11546.0	11834.6	10229.2	8578.9	8581.9	
75°		8988.3	9431.4	10163.1	10929.2	9796.4	8776.1	8826.5	
80°		5429.9	5794.3	6652.9	7766.2	8358.3	8110.3	9184.0	
85°		774.7	779.7	1065.4	1712.3	3043.2	3977.6	5763.8	

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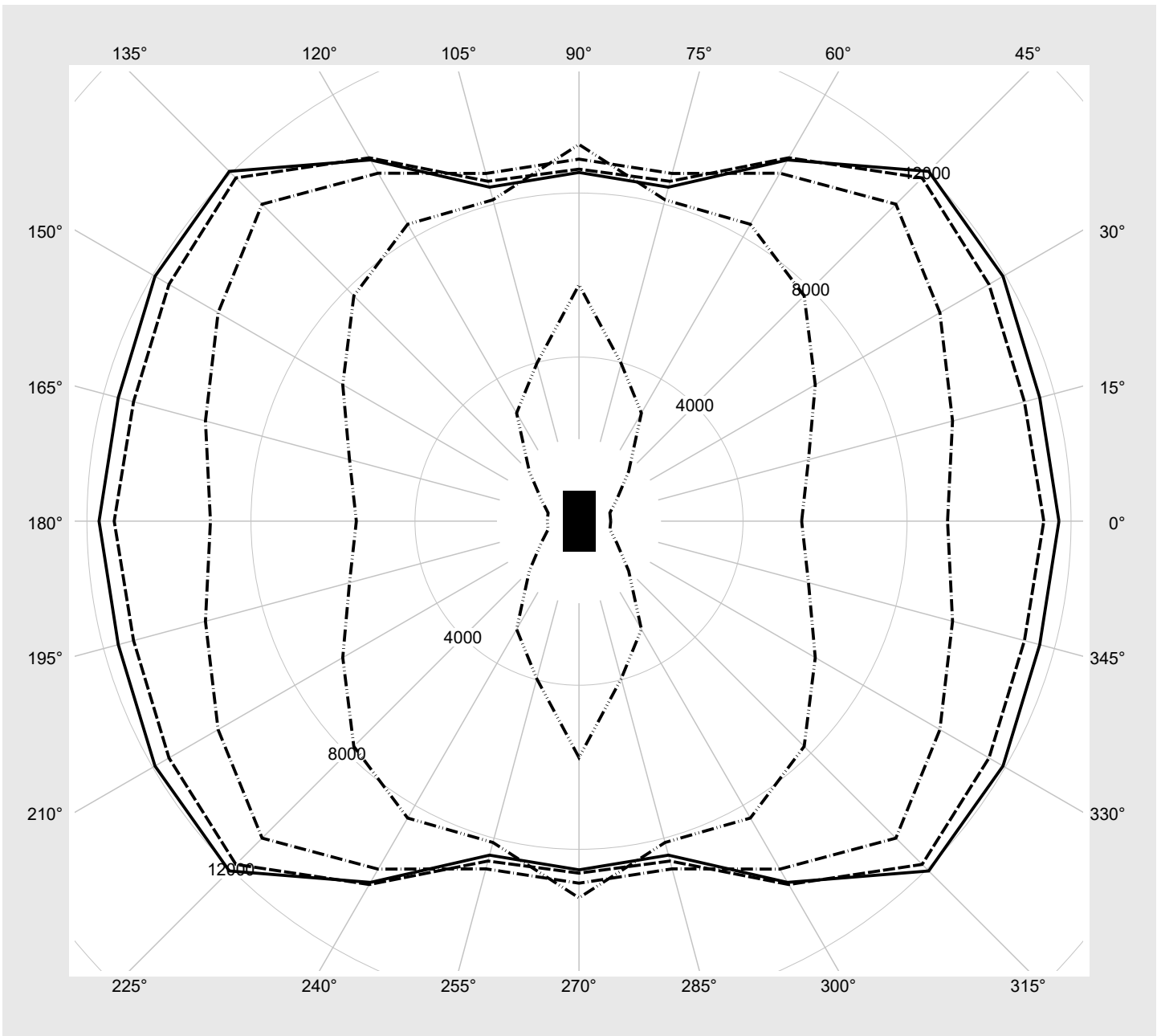
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**Leuchtdichten in cd/m<sup>2</sup>**

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	28120	162.4
95	241	252	26714	153.6
90	227	250	25308	145.0
85	214	248	23902	136.6
80	201	245	22496	128.3
75	188	243	21090	120.1
70	175	240	19684	111.9
65	162	237	18278	103.9
60	149	234	16872	95.9
55	136	231	15466	88.1
50	124	228	14060	80.3
45	111	224	12654	72.7
40	99	219	11248	65.0
35	86	215	9842	57.5
30	74	209	8436	50.1
25	62	203	7030	42.6
20	50	195	5624	35.3
15	38	185	4218	28.1
10	26	170	2811	20.8