

## Lichttechnischer Prüfbefund

**Familie**  
Highbay 11

**Bestell-Nr.:** 51HL62D24HCA  
**EAN:** 4058352348932

**LP-Nummer**  
58922\_8



**Ausführung** breit strahlend, UGR≤22  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG-DALI  
**Bemessungswerte** Nettolichtstrom = 20050 lm  
Systemleistung = 111.2 W  
Lichtausbeute = 180.3 lm/W

**Seriendokumentation**  
21.05.2019

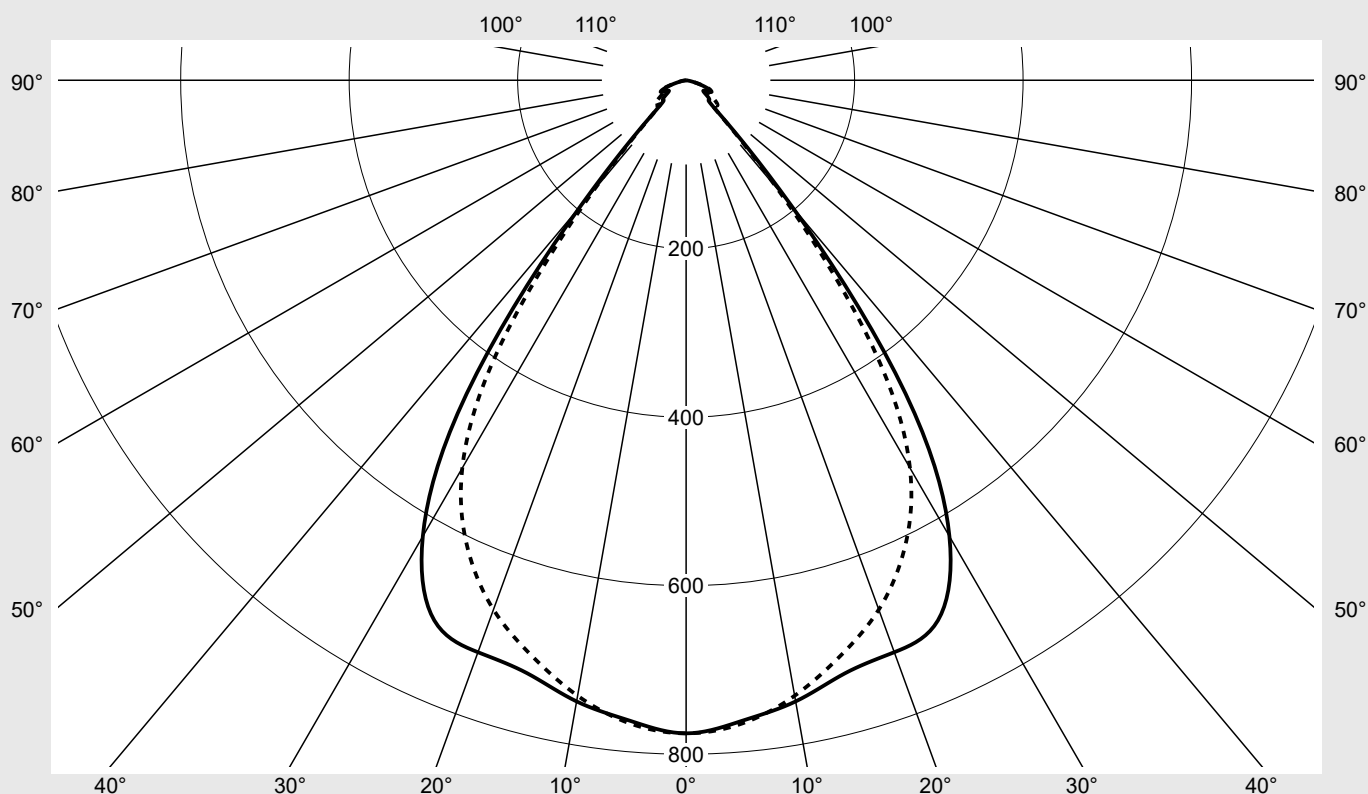
siteco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 775 cd/klm



#### Klassifizierungen

DIN 5040 A 6 0  
CIE N1=89 N2=96 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°			
Lichtstärke in cd/klm								Lichtstrom in lm/klm	
γ									
0°	775.3	775.3	775.3	775.3	775.3	775.3	775.3	4.6	4.6
5°	763.3	765.5	767.8	768.1	766.5	768.2	766.4	36.6	41.3
10°	748.7	752.6	756.7	755.9	749.0	745.7	741.9	71.5	112.7
15°	728.8	736.6	748.6	748.7	732.9	716.3	707.4	104.1	216.8
20°	722.5	731.1	745.9	741.9	711.6	682.4	668.7	134.6	351.4
25°	707.4	710.1	723.4	713.1	669.4	627.0	613.5	158.4	509.9
30°	625.1	622.7	643.6	650.9	594.8	541.3	531.4	165.9	675.7
35°	454.3	465.0	515.3	546.7	478.1	404.7	385.8	148.3	824.0
40°	194.7	222.6	276.1	324.0	261.7	198.8	171.4	86.1	910.1
45°	52.4	51.4	56.0	64.9	54.8	51.5	51.3	21.3	931.5
50°	36.0	31.0	27.7	34.1	33.7	39.2	46.8	14.5	946.0
55°	27.7	25.7	21.5	23.0	24.8	33.2	42.0	12.2	958.2
60°	24.8	27.6	25.1	19.0	18.2	24.5	32.6	11.3	969.5
65°	33.0	23.0	22.5	18.8	16.0	23.0	31.5	11.2	980.7
70°	25.9	19.0	18.9	17.8	15.3	19.4	28.1	10.1	990.8
75°	12.6	8.9	10.2	12.8	12.0	13.0	13.0	6.1	996.9
80°	3.5	3.2	4.0	5.1	6.3	6.1	5.9	2.6	999.6
85°	0.3	0.3	0.4	0.5	1.1	1.3	1.4	0.4	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	19,1	20,4	19,5	20,7	21,1	18,6	19,9	19,0	20,2	20,5
	3H	19,6	20,7	19,9	21,0	21,4	19,1	20,3	19,5	20,6	21,0
	4H	19,7	20,7	20,1	21,1	21,4	19,4	20,4	19,8	20,8	21,1
	6H	19,7	20,6	20,1	21,0	21,4	19,4	20,4	19,9	20,8	21,2
	8H	19,8	20,5	20,2	20,9	21,3	19,5	20,3	20,0	20,7	21,1
	12H	19,7	20,5	20,2	20,8	21,3	19,5	20,3	19,9	20,7	21,1
4H	2H	19,1	20,1	19,5	20,5	20,8	18,5	19,6	18,9	19,9	20,3
	3H	19,6	20,5	20,0	20,9	21,3	19,2	20,0	19,6	20,4	20,8
	4H	19,8	20,5	20,2	20,9	21,4	19,5	20,2	19,9	20,7	21,1
	6H	19,8	20,4	20,2	20,9	21,3	19,6	20,3	20,1	20,7	21,2
	8H	19,7	20,3	20,2	20,8	21,3	19,6	20,2	20,1	20,7	21,2
	12H	19,8	20,2	20,2	20,7	21,2	19,7	20,2	20,2	20,6	21,1
8H	4H	19,8	20,4	20,2	20,8	21,3	19,5	20,1	20,0	20,6	21,0
	6H	19,8	20,3	20,3	20,7	21,3	19,7	20,2	20,2	20,7	21,2
	8H	19,8	20,2	20,3	20,7	21,2	19,7	20,2	20,2	20,7	21,2
	12H	19,7	20,1	20,3	20,6	21,1	19,8	20,1	20,3	20,6	21,1
12H	4H	19,8	20,3	20,3	20,7	21,2	19,5	20,0	20,0	20,5	21,0
	6H	19,8	20,2	20,3	20,7	21,2	19,7	20,1	20,2	20,6	21,1
	8H	19,8	20,1	20,3	20,6	21,1	19,8	20,1	20,3	20,6	21,1

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

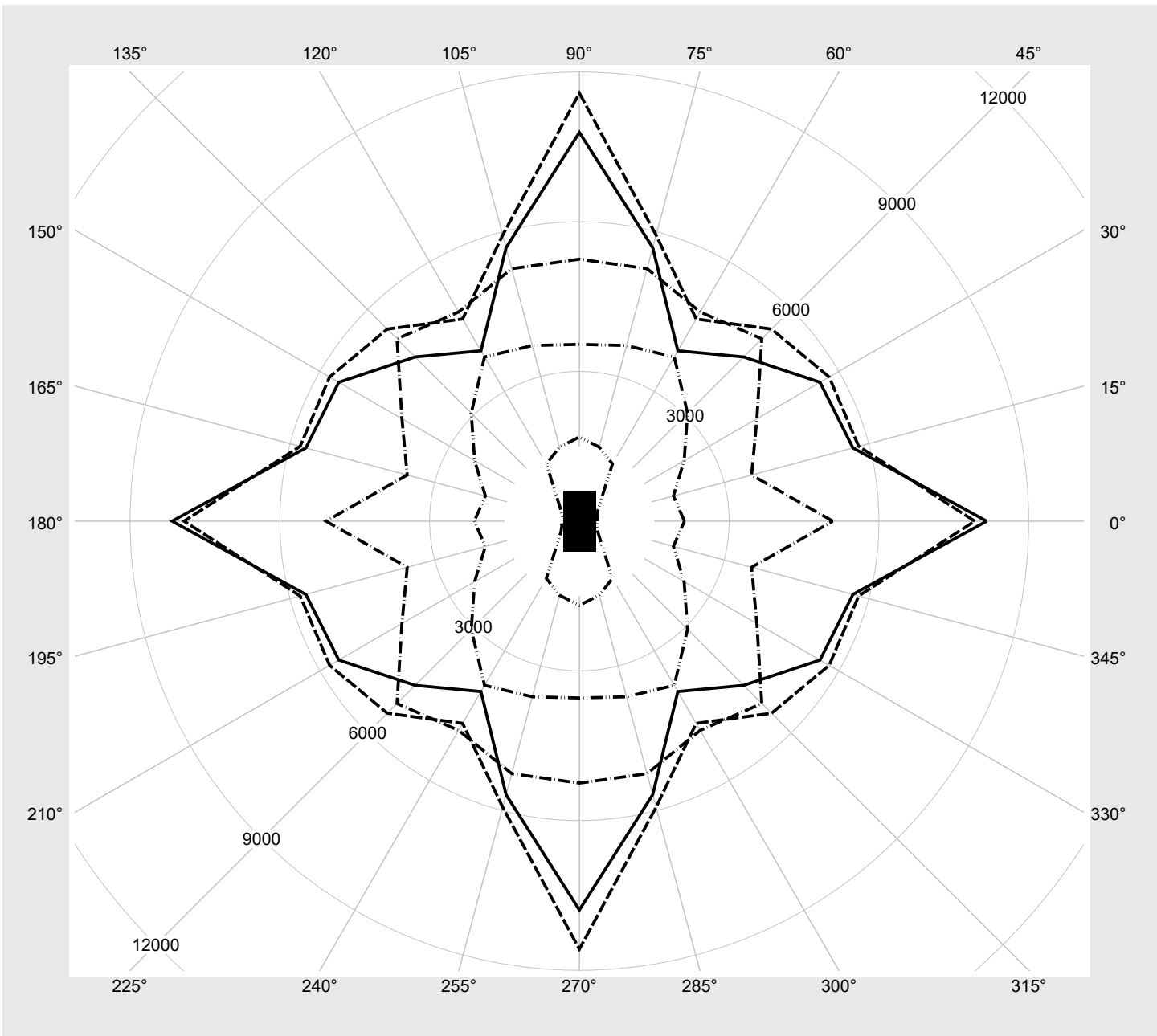
Lichttechnische Abmessungen in mm: L = 600, B = 320

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°		7734.7	7593.8	8270.9	9579.1	8096.5	7610.7	7570.8
50°		5848.7	5041.4	4507.9	5545.1	5479.6	6365.2	7595.3
55°		5039.9	4676.7	3912.0	4196.4	4508.2	6039.9	7646.5
60°		5179.0	5774.2	5241.0	3976.0	3797.6	5120.7	6803.4
65°		8158.4	5672.8	5565.1	4653.3	3943.4	5674.5	7790.9
70°		7919.2	5791.7	5777.3	5442.4	4678.2	5935.5	8577.2
75°		5075.7	3570.8	4105.0	5166.9	4840.1	5237.5	5249.2
80°		2104.8	1949.0	2422.3	3063.4	3799.5	3643.7	3543.3
85°		369.0	363.0	425.3	619.5	1325.2	1537.2	1685.8

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Leuchtdichten in cd/m<sup>2</sup>      γ 65°    γ 70°    γ 75°    γ 80°    γ 85°      **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	20050	111.2
95	241	252	19048	105.5
90	228	250	18045	100.0
85	215	248	17043	94.3
80	202	246	16040	89.0
75	189	243	15038	83.5
70	176	241	14035	78.2
65	163	238	13033	73.0
60	151	235	12030	67.5
55	138	232	11028	62.3
50	125	228	10025	57.1
45	113	225	9023	51.9
40	100	220	8020	47.0
35	88	215	7018	41.5
30	76	210	6015	36.5
25	63	204	5013	31.6
20	51	196	4010	26.6
15	39	186	3008	21.5
10	27	172	2004	16.4