

Lichttechnischer Prüfbefund

Familie
Highbay 11

Bestell-Nr.: 51HL61D24HCA
EAN: 4058352348895

LP-Nummer
58918_7



Ausführung eng strahlend, UGR≤22
Bestückung LED 4000 K | CRI ≥ 80
Betriebsgerät EVG-DALI
Bemessungswerte Nettolichtstrom = 19570 lm
Systemleistung = 111.2 W
Lichtausbeute = 176 lm/W

Seriendokumentation
21.05.2019

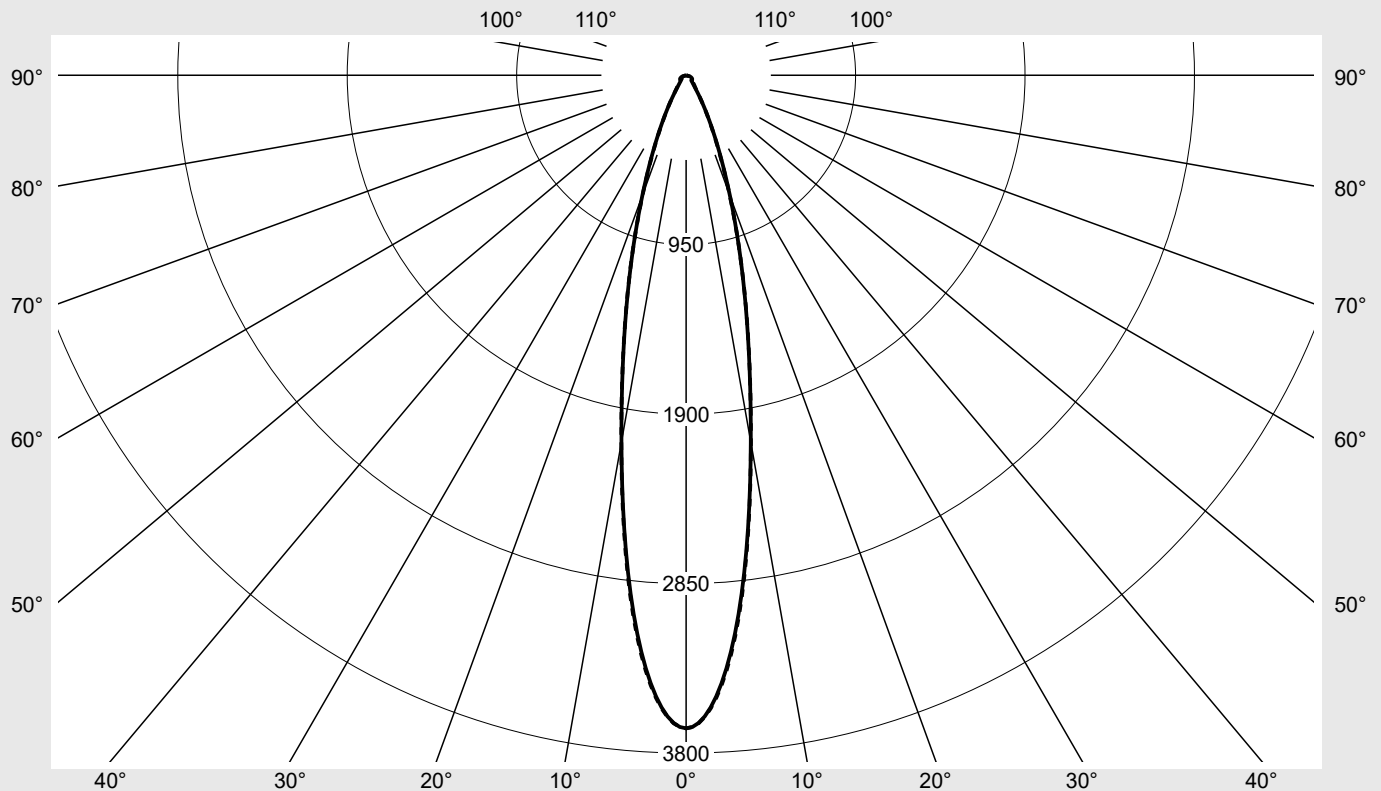
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Lichtstärke in cd/klm

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

η_{LB} 100,0%
 ϕ_u 100,0%
 ϕ_o 0,0%

Messbedingungen

DIN EN 13032 und DIN 5032

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Wertetabelle Lichtstärkemessung	Maximale Lichtstärke	sITeco
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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									
γ								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	15,5	16,6	15,8	16,9	17,2	14,2	15,4	14,6	15,7	16,0
	3H	17,4	18,3	17,8	18,7	19,0	15,8	16,8	16,2	17,1	17,5
	4H	17,9	18,8	18,3	19,2	19,6	16,5	17,4	16,9	17,8	18,2
	6H	18,2	19,0	18,6	19,3	19,7	17,2	18,0	17,6	18,4	18,8
	8H	18,3	18,9	18,7	19,3	19,7	17,5	18,2	17,9	18,6	19,0
	12H	18,2	18,8	18,6	19,2	19,7	17,6	18,2	18,0	18,6	19,0
4H	2H	16,3	17,2	16,7	17,5	17,9	15,4	16,3	15,8	16,6	17,0
	3H	18,3	19,0	18,7	19,4	19,8	17,1	17,8	17,5	18,2	18,7
	4H	18,9	19,6	19,4	20,0	20,5	17,9	18,6	18,3	19,0	19,4
	6H	19,2	19,8	19,7	20,2	20,7	18,5	19,1	19,0	19,6	20,0
	8H	19,3	19,8	19,7	20,2	20,7	18,8	19,3	19,3	19,8	20,2
	12H	19,2	19,6	19,7	20,1	20,6	18,9	19,3	19,4	19,8	20,3
8H	4H	19,2	19,7	19,7	20,2	20,7	18,4	18,9	18,8	19,3	19,8
	6H	19,6	20,0	20,1	20,5	21,0	19,1	19,5	19,7	20,0	20,5
	8H	19,6	20,0	20,1	20,4	21,0	19,3	19,7	19,9	20,2	20,7
	12H	19,5	19,8	20,1	20,4	20,9	19,4	19,7	19,9	20,2	20,8
12H	4H	19,2	19,7	19,7	20,1	20,6	18,3	18,8	18,8	19,2	19,7
	6H	19,6	19,9	20,1	20,4	21,0	19,1	19,5	19,6	20,0	20,5
	8H	19,6	19,9	20,1	20,4	21,0	19,4	19,7	19,9	20,2	20,7

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

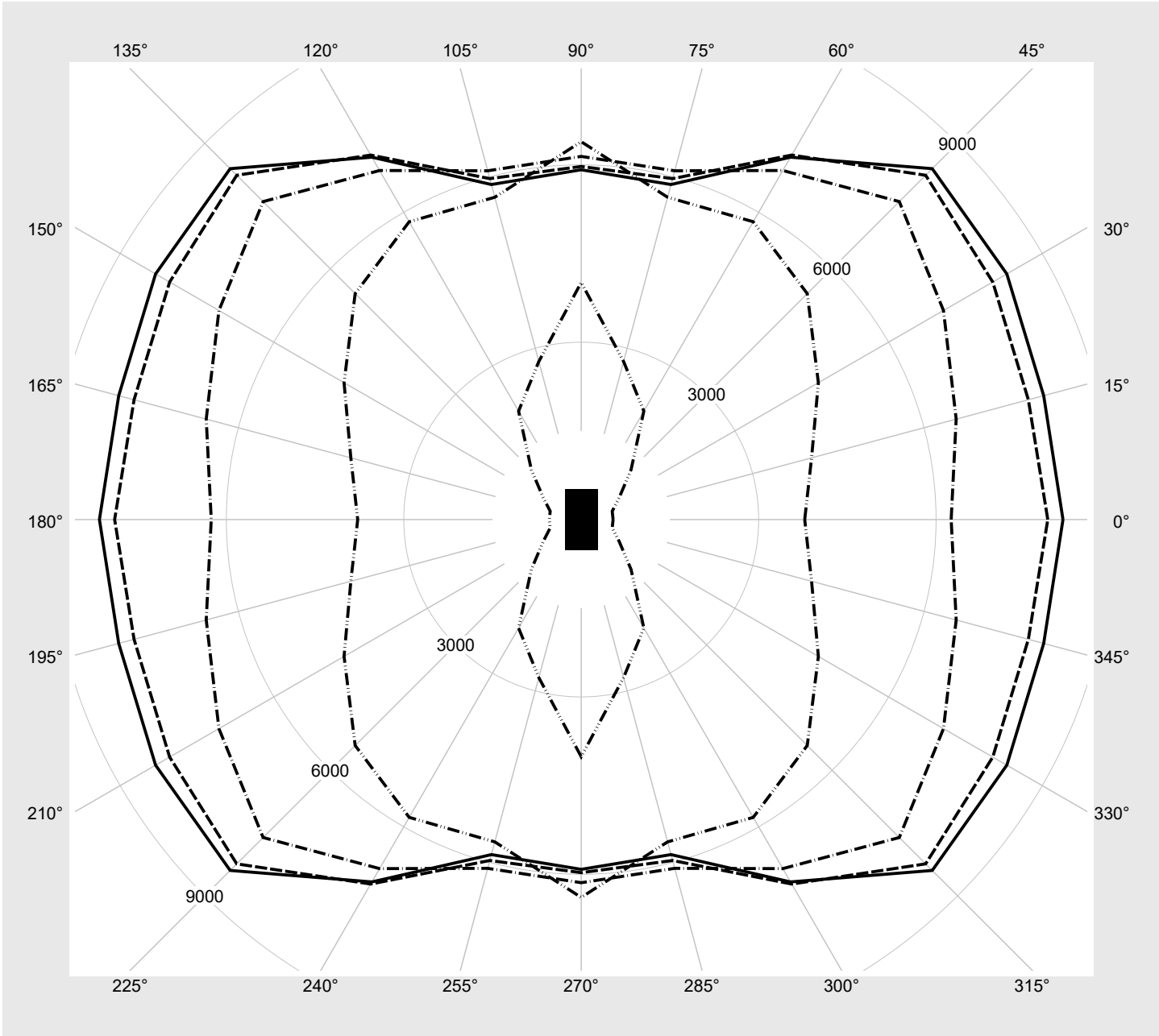
Lichttechnische Abmessungen in mm: L = 600, B = 320

C-Ebenen	γ	Leuchtdichte in cd/m ²							
		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°		5933.9	5876.3	6476.9	7336.3	7238.5	6863.3	6702.1	
50°		6555.6	6650.0	7319.9	7756.3	6465.1	5253.3	5152.4	
55°		7345.1	7480.3	8037.7	7669.4	6391.1	5292.4	5321.0	
60°		7953.0	7990.5	8247.9	8076.7	6813.8	5586.0	5610.7	
65°		8145.9	8095.7	8309.6	8393.8	7077.7	5867.2	5916.6	
70°		7888.8	7827.1	8035.4	8236.2	7119.0	5970.4	5972.5	
75°		6255.4	6563.7	7072.9	7606.2	6817.7	6107.7	6142.7	
80°		3778.9	4032.5	4630.1	5404.9	5816.9	5644.3	6391.6	
85°		539.1	542.6	741.5	1191.7	2117.9	2768.2	4011.3	

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Leuchtdichten in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**



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Dimmstufen-Tabelle		sITeco
Umgebungstemperatur: 25°C		

Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [W]
100	254	254	19570	111.2
95	241	252	18592	105.5
90	228	250	17613	100.0
85	215	248	16635	94.3
80	202	246	15656	89.0
75	189	243	14678	83.5
70	176	241	13699	78.2
65	163	238	12721	73.0
60	151	235	11742	67.5
55	138	232	10764	62.3
50	125	228	9785	57.1
45	113	225	8807	51.9
40	100	220	7828	47.0
35	88	215	6850	41.5
30	76	210	5871	36.5
25	63	204	4893	31.6
20	51	196	3914	26.6
15	39	186	2936	21.5
10	27	172	1956	16.4