

Lichttechnischer Prüfbefund

Familie
Highbay 11

Bestell-Nr.: 51HL61D14DCA
EAN: 4058352348871

LP-Nummer
58918_6



Ausführung eng strahlend, UGR≤22
Bestückung LED 4000 K | CRI ≥ 80
Betriebsgerät EVG-DALI
Bemessungswerte Nettolichtstrom = 9790 lm
Systemleistung = 55.6 W
Lichtausbeute = 176.1 lm/W

Seriendokumentation
21.05.2019

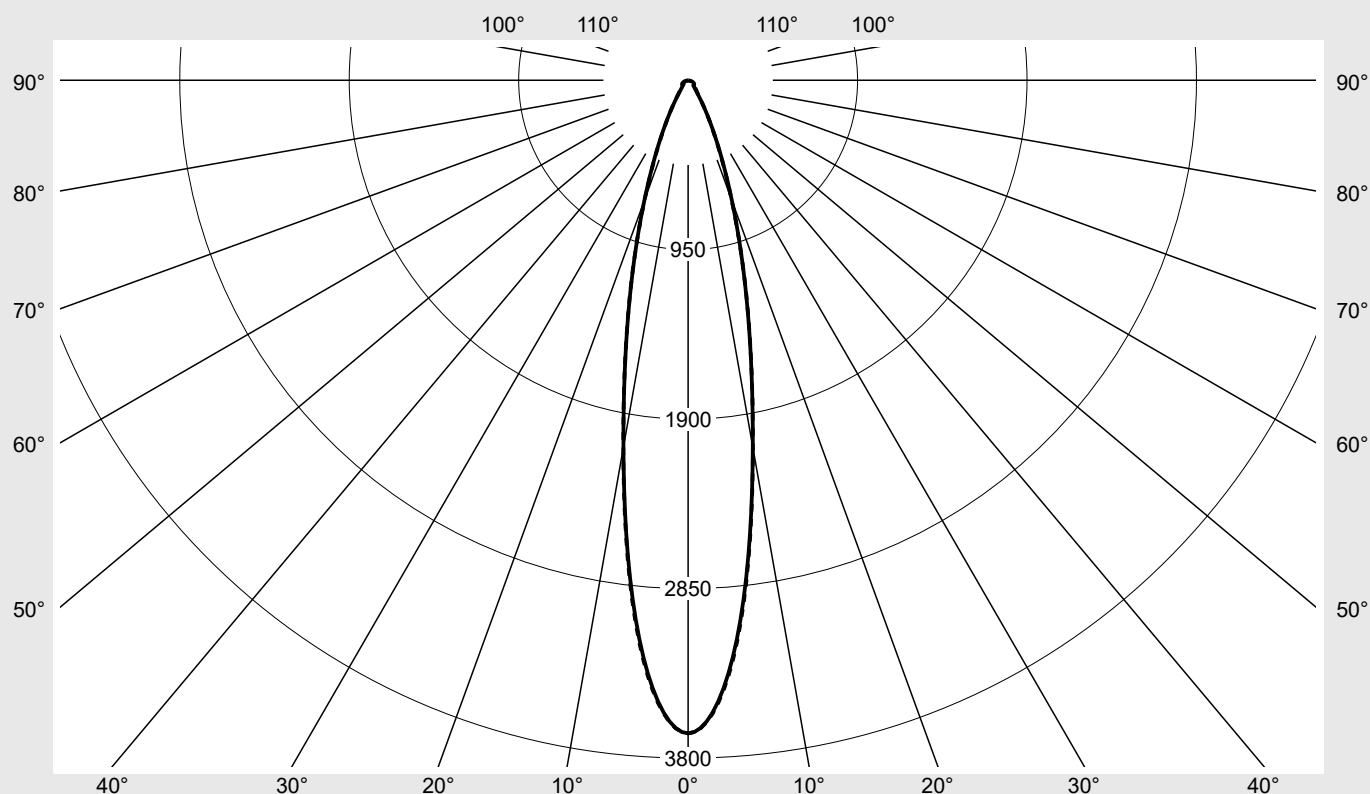
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Lichtstärke in cd/klm

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°			
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	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	20,5	21,0	19,3	19,7	19,9	20,2	20,7
	12H	19,5	19,9	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 = 300, 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°		5937.0	5879.3	6480.3	7340.1	7242.2	6866.8	6705.5	
50°		6559.0	6653.4	7323.7	7760.3	6468.4	5256.0	5155.1	
55°		7348.8	7484.1	8041.9	7673.3	6394.4	5295.1	5323.7	
60°		7957.0	7994.6	8252.2	8080.8	6817.3	5588.9	5613.5	
65°		8150.0	8099.8	8313.9	8398.1	7081.3	5870.2	5919.7	
70°		7892.8	7831.1	8039.5	8240.4	7122.6	5973.5	5975.6	
75°		6258.6	6567.1	7076.5	7610.0	6821.2	6110.8	6145.9	
80°		3780.9	4034.6	4632.4	5407.6	5819.9	5647.2	6394.8	
85°		539.4	542.9	741.8	1192.3	2119.0	2769.6	4013.4	

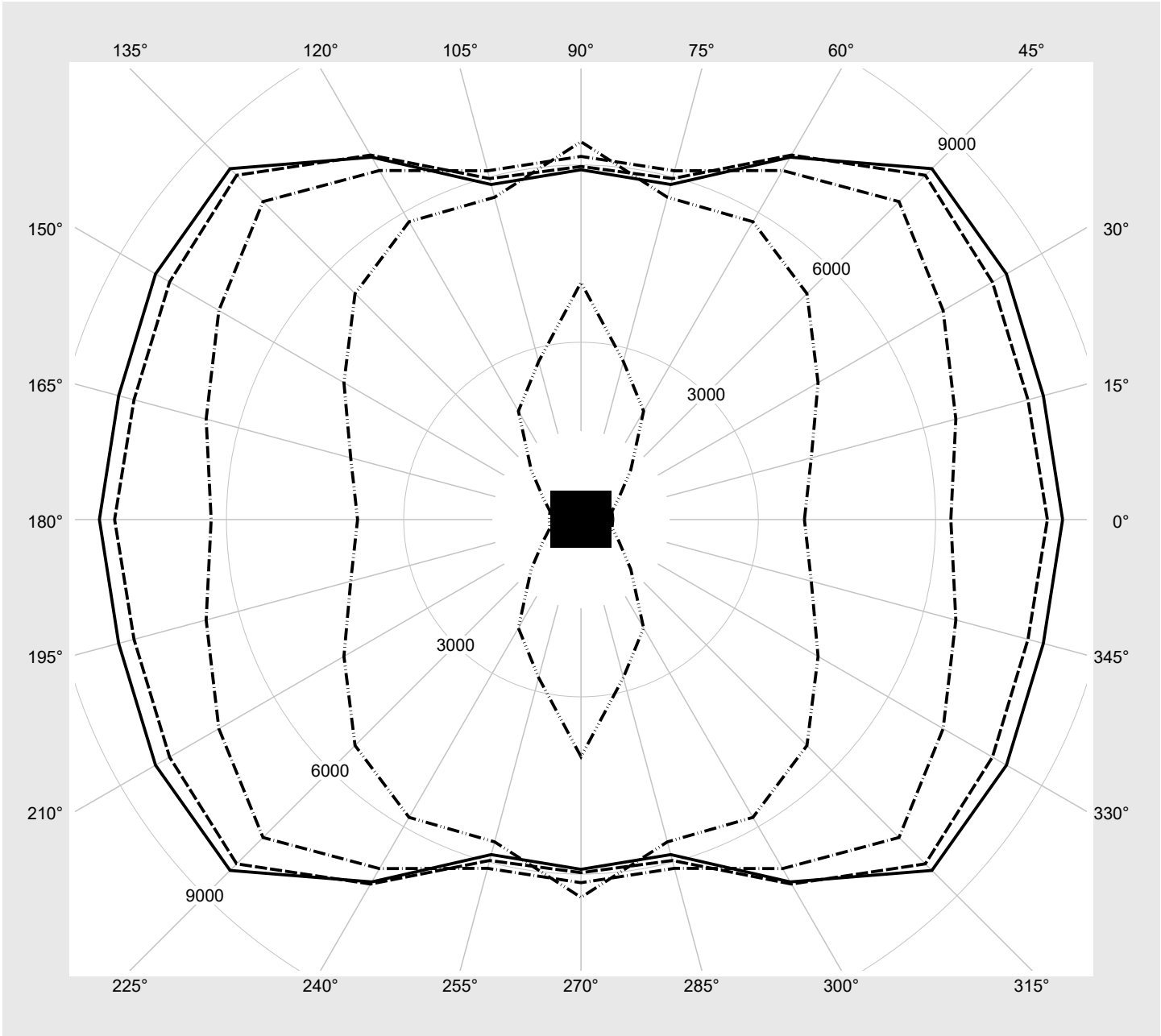
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Leuchtdichten in cd/m²

γ 65°	γ 70°	γ 75°	γ 80°	γ 85°
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Dimmstufen-Tabelle	Umgebungstemperatur: 25°C	sITeco
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Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [W]
100	254	254	9790	55.6
95	241	252	9301	52.7
90	228	250	8811	49.9
85	215	248	8322	47.1
80	202	246	7832	44.6
75	189	243	7343	41.8
70	176	241	6853	39.1
65	163	238	6364	36.4
60	151	235	5874	33.8
55	138	232	5385	31.1
50	125	228	4895	28.5
45	113	225	4406	26.0
40	100	220	3916	23.4
35	88	215	3427	20.8
30	76	210	2937	18.3
25	63	204	2448	15.8
20	51	196	1958	13.2
15	39	186	1469	10.7
10	27	172	978	8.2