

Lichttechnischer Prüfbefund

Familie
Highbay 11

Bestell-Nr.: 51HLA1D14GLA + 59HL91001
EAN: 4058352361429 + 4058352323519

LP-Nummer
58920_20

Ausführung eng strahlend, UGR≤22,
Einscheibensicherheitsglas (ESG)
Bestückung LED 4000 K | CRI ≥ 80
Betriebsgerät EVG-DALI
Bemessungswerte Nettolichtstrom = 15620 lm
Systemleistung = 94.8 W
Lichtausbeute = 164.8 lm/W

Seriendokumentation
31.03.2020

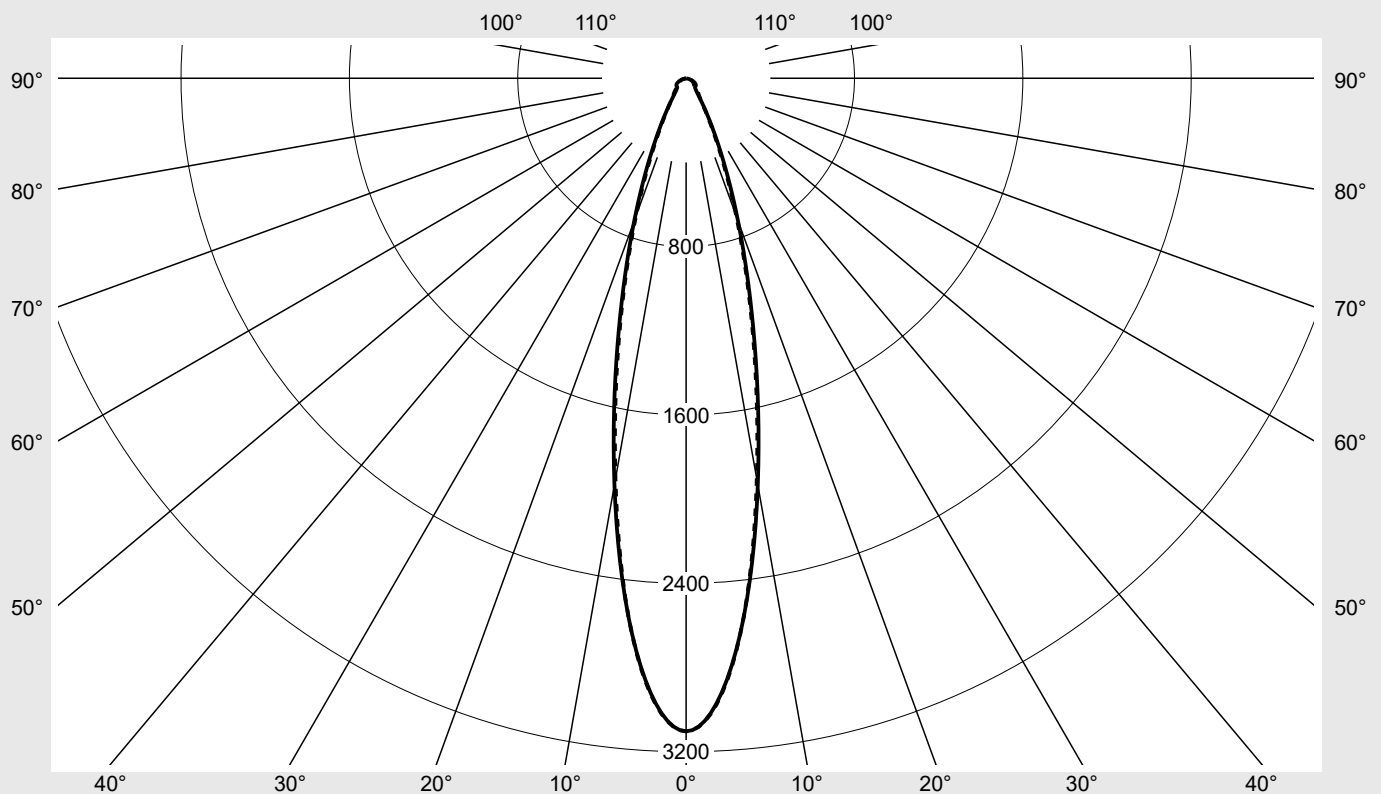
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Lichtstärke in cd/klm

C180-0

C270-90

Imax: 3103 cd/klm



Klassifizierungen

DIN 5040 A 7 0
CIE N1=85 N2=94 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	
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			Phi-Zone	Phi-Zone
γ		Lichtstärke in cd/klm							Lichtstrom in lm/klm	
0°	3103.3	3103.3	3103.3	3103.3	3103.3	3103.3	3103.3	18.6	18.6	
5°	2728.1	2725.7	2734.5	2735.8	2731.2	2739.6	2732.7	130.6	149.1	
10°	1961.3	1955.1	1962.7	1959.8	1944.6	1940.4	1933.3	185.8	334.9	
15°	1234.5	1231.5	1237.4	1233.6	1223.5	1217.2	1209.8	174.2	509.0	
20°	720.2	721.2	730.7	731.8	720.5	706.3	696.1	134.9	644.0	
25°	391.5	395.5	407.7	412.0	396.6	377.5	368.6	91.5	735.4	
30°	203.6	206.8	216.0	219.0	212.4	200.7	194.3	57.3	792.7	
35°	109.3	109.5	113.4	118.8	120.5	117.6	115.6	36.3	829.0	
40°	71.8	72.6	76.4	83.5	87.0	87.1	87.3	28.5	857.5	
45°	59.8	60.1	64.9	71.1	68.6	64.2	62.9	25.2	882.8	
50°	58.8	60.0	64.4	66.4	57.1	49.4	48.5	24.6	907.3	
55°	56.5	57.6	60.7	58.9	51.3	43.9	43.6	24.1	931.5	
60°	50.4	50.7	52.1	52.2	45.2	38.5	38.0	22.4	953.8	
65°	40.7	40.4	41.4	42.5	37.1	32.0	31.7	19.0	972.8	
70°	28.4	28.2	29.2	30.2	27.5	24.4	24.3	14.2	987.1	
75°	15.1	15.6	16.5	18.0	16.8	16.4	16.8	8.8	995.8	
80°	5.3	5.6	6.2	6.9	7.4	7.5	9.1	3.7	999.5	
85°	0.5	0.5	0.6	0.8	1.1	1.3	1.8	0.5	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	19,0	20,2	19,4	20,5	20,8	18,0	19,1	18,3	19,5	19,8
	3H	20,5	21,5	20,9	21,8	22,2	19,4	20,4	19,7	20,7	21,1
	4H	20,8	21,8	21,2	22,1	22,5	19,9	20,8	20,3	21,2	21,6
	6H	20,9	21,8	21,4	22,2	22,6	20,2	21,1	20,6	21,4	21,8
	8H	21,0	21,7	21,4	22,1	22,5	20,4	21,1	20,8	21,5	21,9
	12H	21,0	21,6	21,4	22,0	22,4	20,4	21,0	20,8	21,4	21,8
4H	2H	19,7	20,7	20,1	21,0	21,4	19,0	19,9	19,4	20,3	20,7
	3H	21,3	22,1	21,7	22,5	22,9	20,5	21,2	20,9	21,6	22,0
	4H	21,7	22,4	22,1	22,8	23,3	21,0	21,7	21,5	22,1	22,6
	6H	21,8	22,4	22,3	22,9	23,3	21,3	21,9	21,8	22,4	22,9
	8H	21,8	22,3	22,3	22,8	23,3	21,4	22,0	21,9	22,4	22,9
	12H	21,8	22,2	22,3	22,7	23,2	21,4	21,9	21,9	22,3	22,8
8H	4H	21,9	22,4	22,3	22,8	23,3	21,3	21,8	21,7	22,2	22,7
	6H	22,0	22,4	22,5	22,9	23,4	21,6	22,1	22,1	22,5	23,1
	8H	22,0	22,4	22,5	22,9	23,4	21,7	22,1	22,2	22,6	23,1
	12H	21,9	22,3	22,5	22,8	23,3	21,7	22,0	22,2	22,5	23,1
12H	4H	21,9	22,3	22,4	22,8	23,3	21,2	21,7	21,7	22,2	22,7
	6H	22,0	22,4	22,5	22,8	23,4	21,6	22,0	22,1	22,5	23,0
	8H	22,0	22,3	22,5	22,8	23,3	21,7	22,0	22,2	22,5	23,0

Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$	Lichttechnische Abmessungen in mm: L = 295 B = 312
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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°		14352.0	14435.3	15572.9	17060.7	16461.2	15417.7	15088.8
50°		15518.0	15835.9	16992.1	17536.2	15085.1	13055.0	12800.7
55°		16713.9	17029.9	17969.3	17435.2	15164.4	12990.5	12908.0
60°		17089.7	17222.4	17697.2	17707.4	15348.5	13062.8	12894.1
65°		16326.0	16237.3	16641.3	17065.7	14891.2	12843.7	12719.6
70°		14111.8	14002.6	14472.5	14983.1	13620.6	12121.1	12080.9
75°		9882.8	10200.1	10844.7	11804.0	11036.8	10756.8	11036.8
80°		5223.7	5441.7	6050.6	6712.2	7239.9	7303.5	8850.6
85°		895.7	899.6	1102.1	1514.9	2169.2	2617.0	3557.5

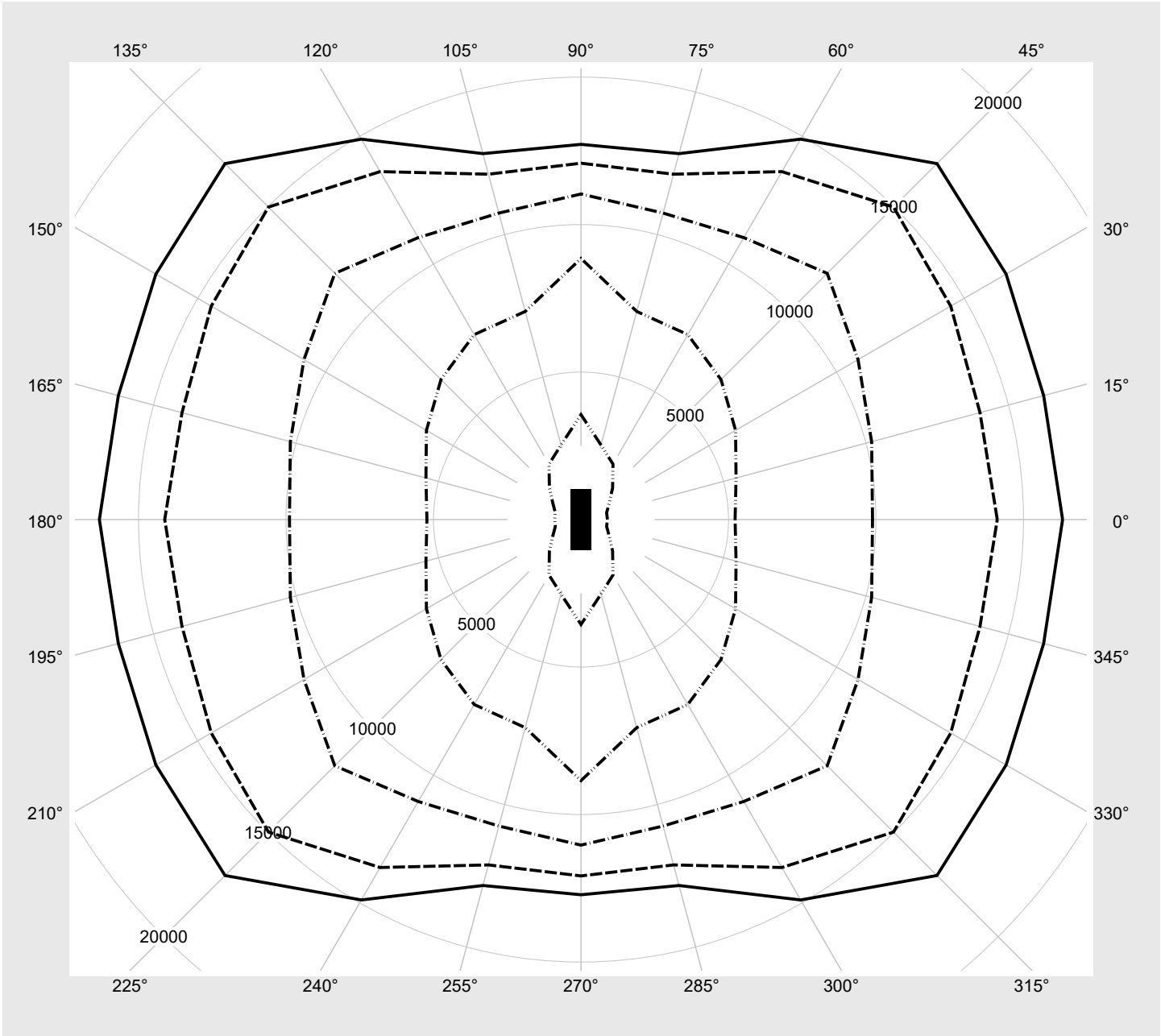
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Leuchtdichten in cd/m²

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	15620	94.8
95	240	252	14819	89.5
90	227	250	14065	84.6
85	213	247	13250	79.2
80	200	245	12484	74.2
75	187	243	11710	69.5
70	174	240	10932	64.7
65	161	237	10145	59.9
60	148	234	9355	55.2
55	136	231	8614	50.7
50	123	228	7809	46.0
45	111	224	7060	41.7
40	98	220	6242	37.1
35	86	215	5482	32.8
30	74	210	4714	28.6
25	61	204	3877	24.1
20	49	197	3099	19.8
15	37	188	2315	15.6
10	26	177	1589	11.7
5	14	161	793	7.4