

Lichttechnischer Prüfbefund

Familie
Highbay 11

Bestell-Nr.: 51HLA2D14GLA + 59HL91002
EAN: 4058352361467 + 4058352341650

LP-Nummer
58924_22

Ausführung breit strahlend, UGR≤22, Abdeckscheibe, PC

Bestückung LED 4000 K | CRI ≥ 80

Betriebsgerät EVG-DALI

Bemessungswerte
Nettolichtstrom = 14950 lm
Systemleistung = 94.8 W
Lichtausbeute = 157.7 lm/W

Seriendokumentation
31.03.2020

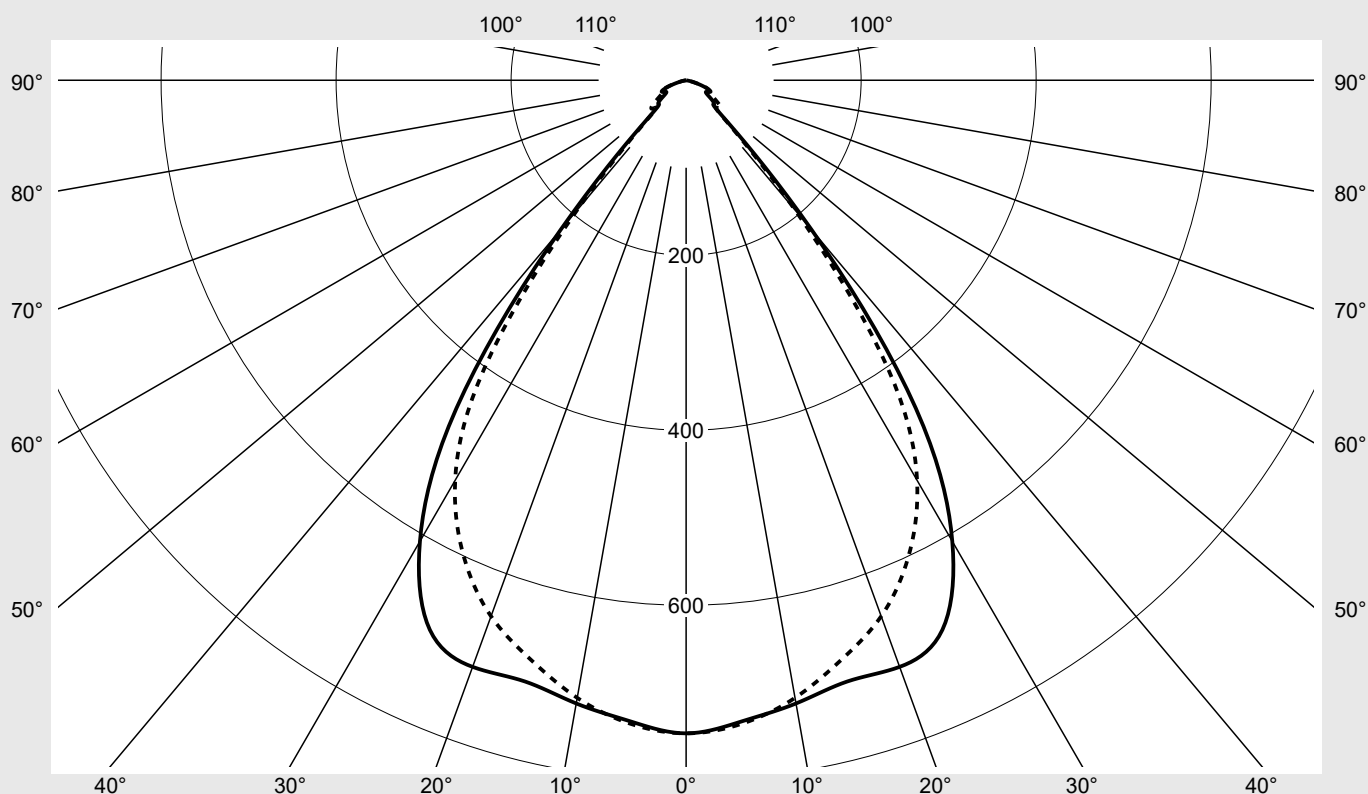
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Lichtstärke in cd/klm

C180-0

C270-90

Imax: 746 cd/klm



Klassifizierungen

DIN 5040 A 6 0
CIE N1=88 N2=97 N3=100
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								Lichtstrom in lm/klm	
γ									
0°	746.3	746.3	746.3	746.3	746.3	746.3	746.3	4.5	4.5
5°	735.3	737.5	739.7	739.9	738.3	739.6	738.0	35.3	39.7
10°	723.2	726.6	729.4	728.5	722.4	719.9	716.7	69.0	108.7
15°	711.3	717.1	725.5	723.9	708.1	693.6	685.6	100.9	209.6
20°	713.4	718.0	728.3	720.4	690.5	663.2	651.9	131.3	340.9
25°	693.0	694.9	704.2	693.3	653.0	614.7	601.0	154.7	495.6
30°	608.4	605.8	624.6	634.7	585.4	537.6	527.9	162.4	658.1
35°	457.7	465.3	511.3	544.0	482.6	417.8	402.1	149.4	807.5
40°	223.2	249.0	306.2	349.8	284.7	219.8	194.6	95.0	902.5
45°	63.3	67.7	80.1	90.2	68.6	60.3	58.8	27.6	930.1
50°	41.6	37.0	34.8	39.2	39.3	44.2	50.6	16.8	947.0
55°	31.4	29.8	26.5	27.8	29.3	36.0	43.6	14.0	961.0
60°	26.5	29.7	26.3	21.9	21.3	25.9	33.0	12.2	973.2
65°	30.8	23.4	22.4	19.4	17.1	22.6	29.4	11.2	984.4
70°	22.6	17.1	16.5	15.8	14.1	17.3	23.9	8.9	993.3
75°	9.7	7.3	8.1	9.4	9.5	10.1	9.9	4.8	998.1
80°	2.5	2.3	2.6	3.2	3.7	3.7	3.7	1.7	999.8
85°	0.2	0.2	0.3	0.3	0.6	0.6	0.7	0.2	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	20,9	22,2	21,3	22,5	22,9	20,5	21,8	20,8	22,1	22,4
	3H	21,2	22,4	21,6	22,7	23,1	20,8	22,0	21,2	22,3	22,7
	4H	21,3	22,3	21,7	22,7	23,1	21,0	22,0	21,3	22,4	22,7
	6H	21,3	22,2	21,7	22,6	23,0	21,0	21,9	21,4	22,3	22,7
	8H	21,3	22,1	21,8	22,5	22,9	21,0	21,8	21,4	22,2	22,6
	12H	21,3	22,0	21,7	22,4	22,9	21,0	21,7	21,4	22,1	22,6
4H	2H	20,9	21,9	21,3	22,3	22,6	20,4	21,5	20,8	21,8	22,2
	3H	21,3	22,1	21,7	22,5	22,9	20,9	21,7	21,3	22,1	22,5
	4H	21,3	22,1	21,8	22,5	23,0	21,0	21,8	21,5	22,2	22,6
	6H	21,3	22,0	21,8	22,4	22,9	21,0	21,7	21,5	22,1	22,6
	8H	21,3	21,9	21,7	22,3	22,8	21,0	21,6	21,5	22,1	22,5
	12H	21,3	21,7	21,8	22,2	22,7	21,0	21,5	21,5	22,0	22,5
8H	4H	21,3	21,9	21,8	22,3	22,8	21,0	21,6	21,5	22,0	22,5
	6H	21,2	21,7	21,7	22,2	22,7	21,0	21,5	21,5	22,0	22,5
	8H	21,2	21,6	21,7	22,1	22,6	21,0	21,4	21,5	21,9	22,4
	12H	21,2	21,5	21,7	22,0	22,6	21,0	21,3	21,5	21,8	22,4
12H	4H	21,3	21,8	21,8	22,2	22,7	21,0	21,5	21,5	21,9	22,4
	6H	21,3	21,6	21,8	22,1	22,7	21,0	21,4	21,5	21,9	22,4
	8H	21,2	21,5	21,7	22,0	22,6	21,0	21,3	21,5	21,8	22,4

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°	45°	14545.5	15544.7	18409.6	20730.6	15755.3	13848.7	13498.7
50°	50°	10520.2	9354.5	8781.4	9908.7	9941.0	11179.2	12778.3
55°	55°	8887.8	8430.5	7501.9	7861.6	8292.6	10199.0	12345.3
60°	60°	8602.9	9637.9	8540.2	7130.3	6921.8	8401.2	10717.7
65°	65°	11821.5	8985.5	8600.8	7462.7	6585.3	8680.7	11298.5
70°	70°	10715.0	8109.6	7848.4	7481.3	6717.6	8228.3	11343.3
75°	75°	6078.1	4598.9	5064.6	5924.3	5960.7	6343.6	6192.9
80°	80°	2335.7	2120.5	2467.6	3025.1	3472.2	3473.1	3487.1
85°	85°	413.7	419.3	479.0	631.8	1030.6	1125.7	1235.6

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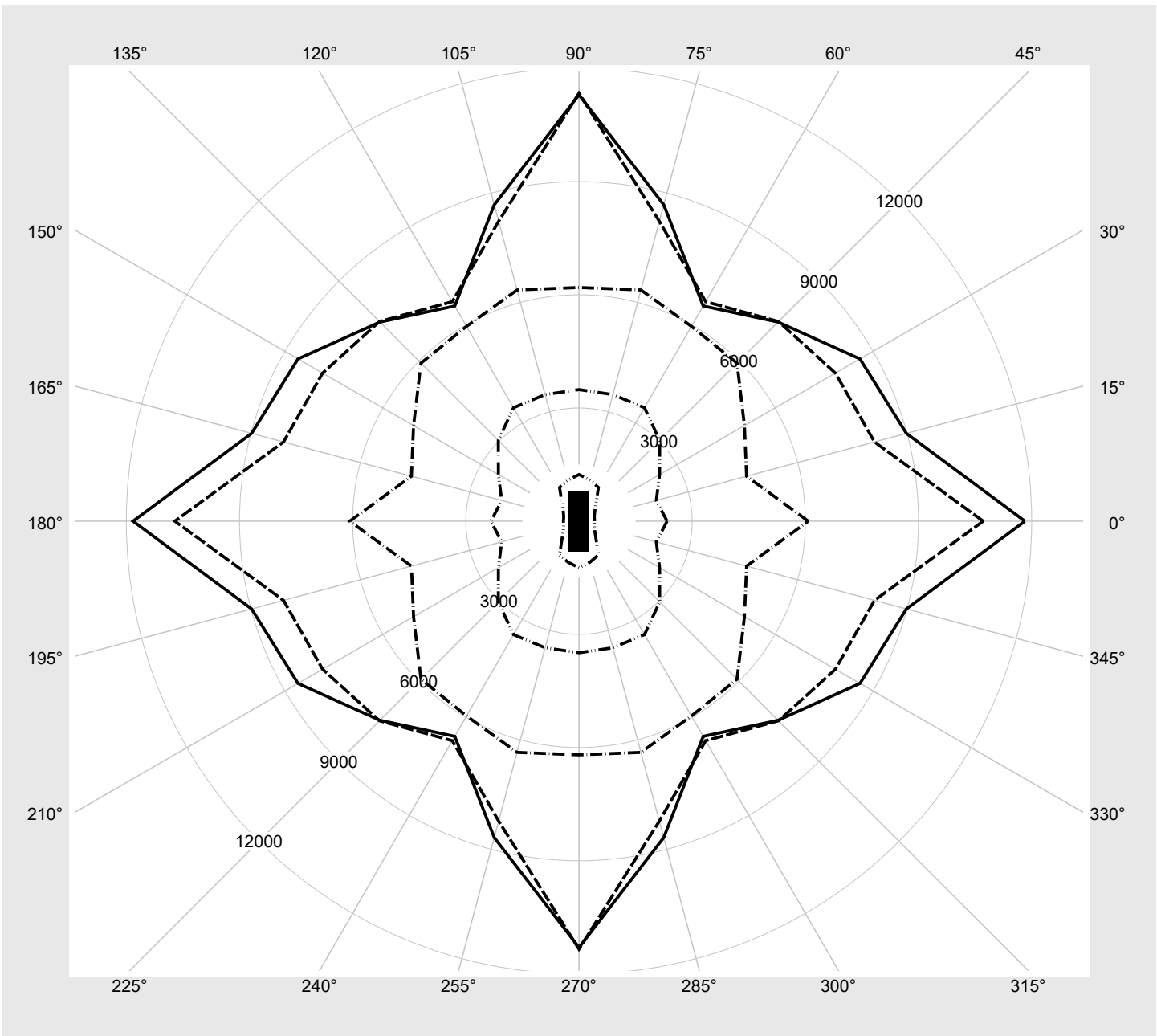
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Leuchtdichten in cd/m²

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	14950	94.8
95	240	252	14183	89.4
90	227	250	13462	84.6
85	213	247	12681	79.2
80	200	245	11948	74.2
75	187	243	11208	69.5
70	174	240	10463	64.7
65	161	237	9710	59.9
60	148	234	8953	55.2
55	136	231	8245	50.7
50	123	228	7474	46.0
45	111	224	6757	41.7
40	98	220	5975	37.1
35	86	215	5246	32.8
30	74	210	4511	28.6
25	61	204	3711	24.1
20	49	197	2966	19.8
15	37	188	2216	15.6
10	26	177	1520	11.7
5	14	161	759	7.4