

Lichttechnischer Prüfbefund

Familie
Highbay 11

Bestell-Nr.: 51HLA2D14FCA + 59HL91002
EAN: 4058352322963 + 4058352341650

LP-Nummer
58924_12

Ausführung breit strahlend, UGR≤22, Abdeckscheibe, PC

Bestückung LED 4000 K | CRI ≥ 80

Betriebsgerät EVG-DALI

Bemessungswerte
Nettolichtstrom = 12990 lm
Systemleistung = 81.2 W
Lichtausbeute = 160 lm/W

Seriendokumentation
13.06.2019

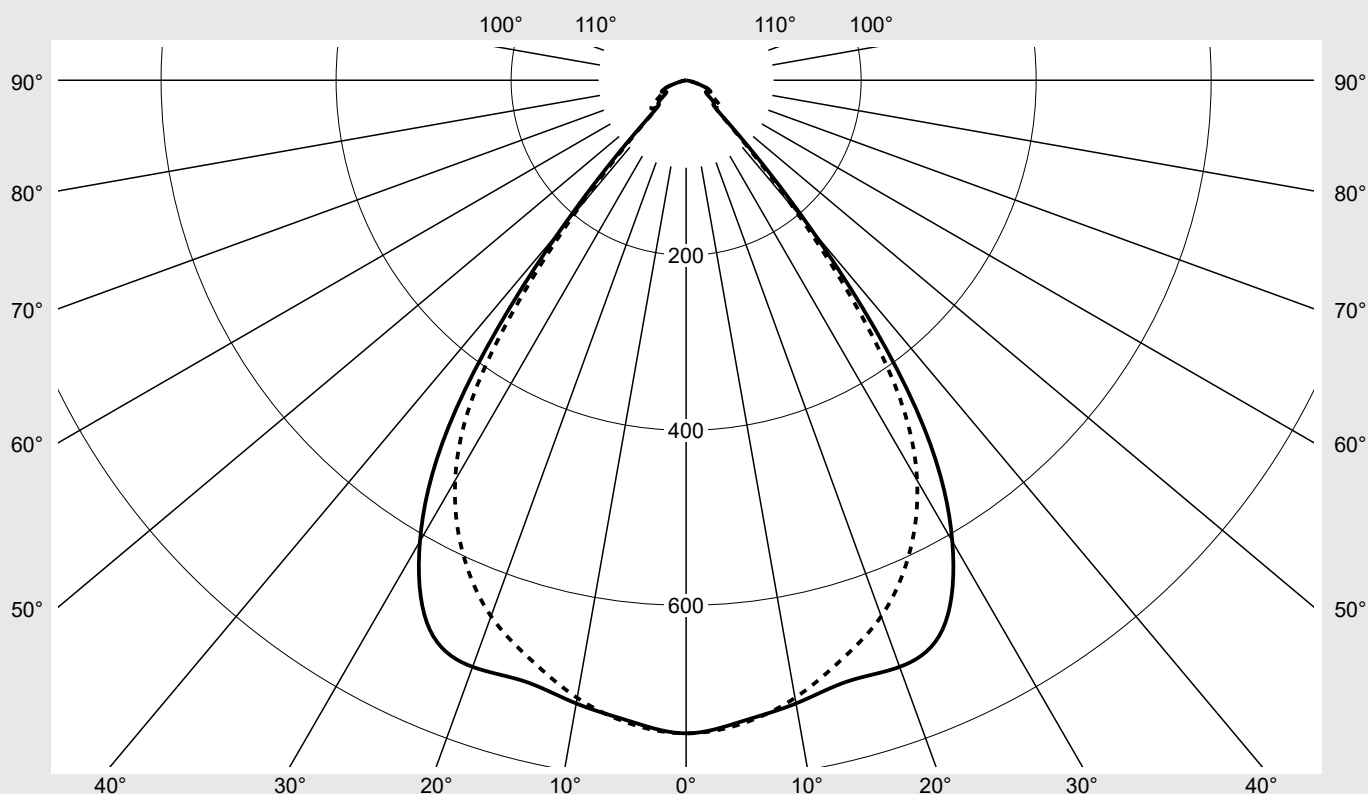
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Lichtstärke in cd/klm

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	20,5	21,7	20,8	22,1	22,4	20,0	21,3	20,4	21,6	21,9
	3H	20,8	21,9	21,1	22,2	22,6	20,4	21,5	20,7	21,8	22,2
	4H	20,8	21,9	21,2	22,2	22,6	20,5	21,5	20,9	21,9	22,2
	6H	20,8	21,7	21,2	22,1	22,5	20,5	21,4	20,9	21,8	22,2
	8H	20,8	21,7	21,3	22,0	22,4	20,5	21,3	21,0	21,7	22,1
	12H	20,8	21,6	21,3	22,0	22,4	20,5	21,3	20,9	21,7	22,1
4H	2H	20,4	21,4	20,8	21,8	22,2	19,9	21,0	20,3	21,3	21,7
	3H	20,8	21,6	21,2	22,0	22,4	20,4	21,2	20,8	21,6	22,0
	4H	20,8	21,6	21,3	22,0	22,5	20,5	21,3	21,0	21,7	22,1
	6H	20,8	21,5	21,3	21,9	22,4	20,5	21,2	21,0	21,6	22,1
	8H	20,8	21,4	21,3	21,8	22,3	20,5	21,1	21,0	21,6	22,0
	12H	20,8	21,3	21,3	21,7	22,2	20,5	21,0	21,0	21,5	22,0
8H	4H	20,8	21,4	21,3	21,8	22,3	20,5	21,1	21,0	21,5	22,0
	6H	20,8	21,2	21,3	21,7	22,2	20,5	21,0	21,0	21,5	22,0
	8H	20,7	21,1	21,2	21,6	22,2	20,5	20,9	21,0	21,4	21,9
	12H	20,7	21,0	21,2	21,5	22,1	20,5	20,8	21,0	21,3	21,9
12H	4H	20,8	21,3	21,3	21,8	22,3	20,5	21,0	21,0	21,4	21,9
	6H	20,8	21,1	21,3	21,6	22,2	20,5	20,9	21,0	21,4	21,9
	8H	20,7	21,0	21,2	21,5	22,1	20,5	20,8	21,0	21,3	21,9

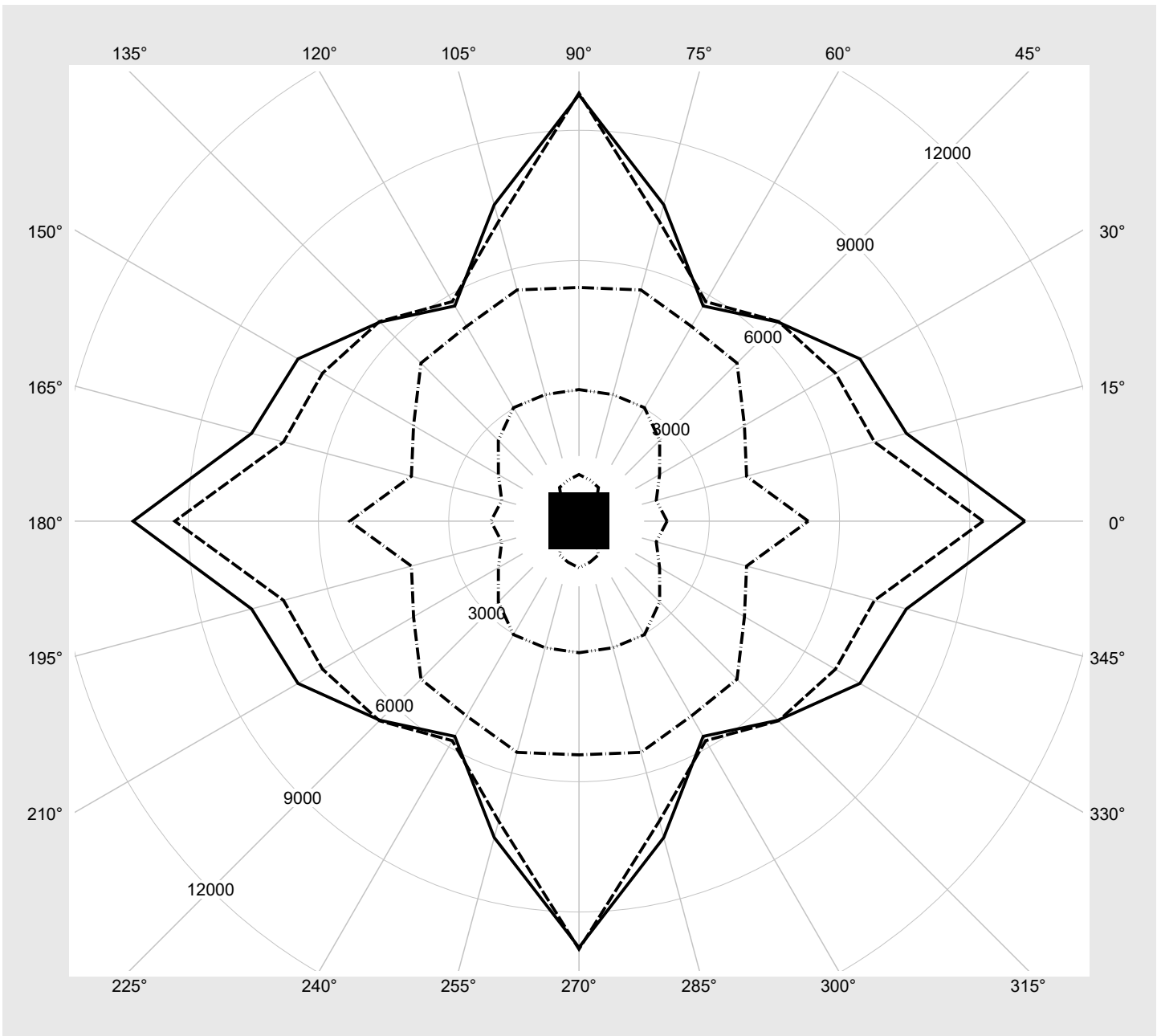
Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$	Lichttechnische Abmessungen in mm: L = 295 B = 312
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C-Ebenen	γ	Leuchtdichte in cd/m ²						
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
45°		12638.5	13506.7	15996.1	18012.8	13689.8	12033.1	11728.9
50°		9141.0	8128.1	7630.1	8609.6	8637.7	9713.6	11103.0
55°		7722.6	7325.2	6518.4	6830.9	7205.4	8861.9	10726.7
60°		7475.0	8374.3	7420.6	6195.5	6014.3	7299.7	9312.6
65°		10271.7	7807.5	7473.2	6484.3	5721.9	7542.6	9817.2
70°		9310.2	7046.4	6819.4	6500.5	5836.9	7149.6	9856.1
75°		5281.2	3996.0	4400.6	5147.6	5179.3	5511.9	5381.0
80°		2029.5	1842.5	2144.1	2628.5	3017.0	3017.8	3030.0
85°		359.5	364.4	416.2	549.0	895.5	978.1	1073.6

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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	Umgebungstemperatur: 25°C	sITeco
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Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [W]
100	254	254	12990	81.2
95	241	252	12341	76.8
90	227	250	11691	72.5
85	214	248	11042	68.4
80	201	245	10392	64.2
75	188	243	9743	60.0
70	175	240	9093	56.0
65	162	238	8444	51.9
60	149	235	7794	48.0
55	136	232	7145	44.1
50	124	228	6495	40.2
45	111	225	5846	36.3
40	99	220	5196	32.5
35	86	216	4547	28.8
30	74	211	3897	25.1
25	62	205	3248	21.3
20	50	198	2598	17.6
15	38	190	1949	14.0
10	26	179	1298	10.4