

Lichttechnischer Prüfbefund

Familie
Highbay 11

Bestell-Nr.: 51HLA2D34SCA + 59HL91002
EAN: 4058352474860 + 4058352341650

LP-Nummer
58924_27

Ausführung breit strahlend, UGR≤22, Abdeckscheibe, PC

Bestückung LED 4000 K | CRI ≥ 80

Betriebsgerät EVG-DALI

Bemessungswerte
Nettolichtstrom = 44830 lm
Systemleistung = 284.2 W
Lichtausbeute = 157.7 lm/W

Seriendokumentation
04.05.2021

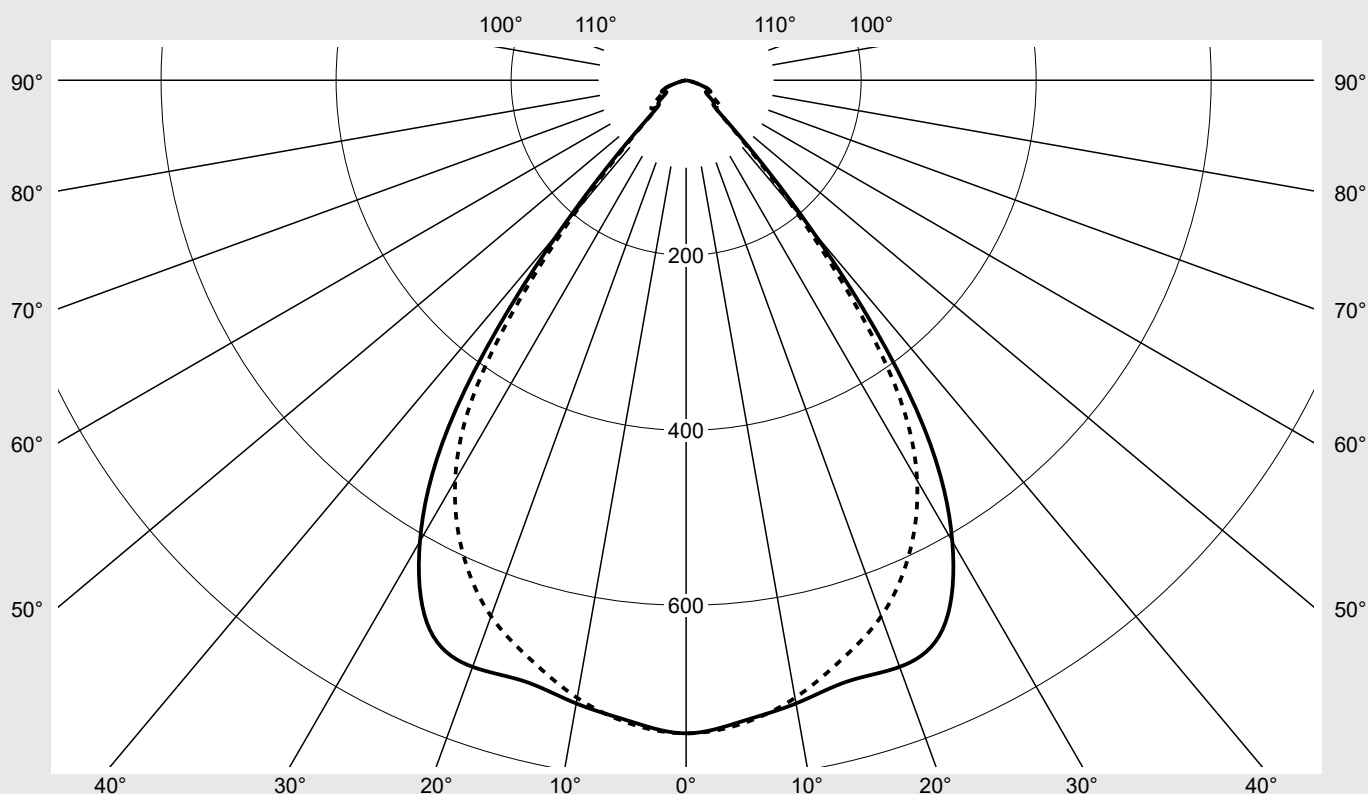
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Lichtstärke in cd/klm

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	
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	20,9	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	22,0	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 = 885 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°		14539.0	15537.8	18401.4	20721.4	15748.3	13842.6	13492.6
50°		10515.5	9350.4	8777.5	9904.3	9936.6	11174.3	12772.6
55°		8883.9	8426.7	7498.6	7858.0	8288.9	10194.4	12339.7
60°		8599.1	9633.6	8536.4	7127.1	6918.7	8397.4	10713.0
65°		11816.3	8981.5	8596.9	7459.4	6582.4	8676.8	11293.4
70°		10710.2	8106.0	7844.9	7477.9	6714.6	8224.7	11338.2
75°		6075.4	4596.8	5062.3	5921.7	5958.1	6340.7	6190.2
80°		2334.6	2119.6	2466.5	3023.7	3470.6	3471.6	3485.6
85°		413.5	419.1	478.7	631.5	1030.1	1125.2	1235.1

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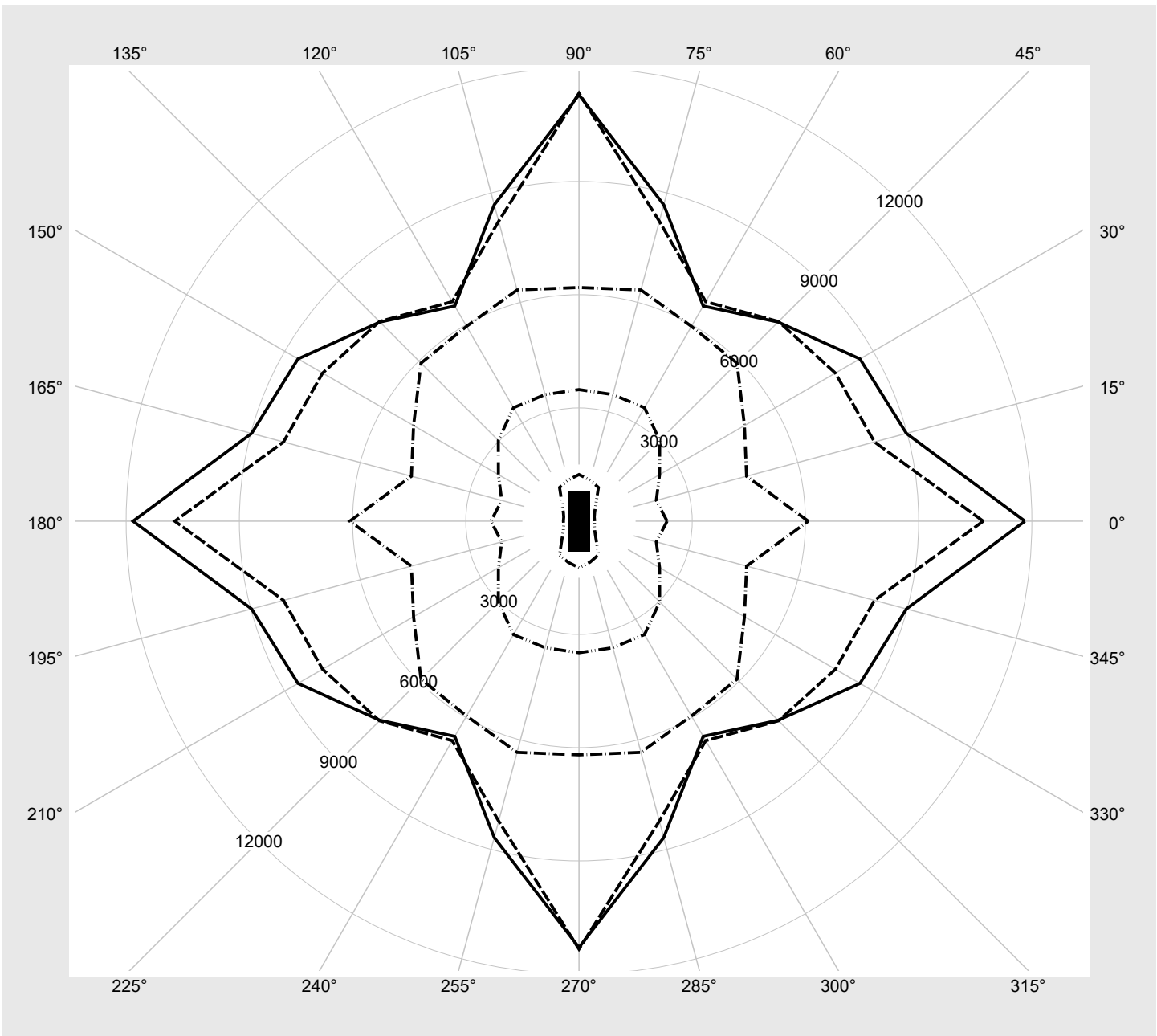
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Leuchtdichten in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°



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Dimmstufen-Tabelle		sITeco
Umgebungstemperatur: 25°C		

Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [W]
100	254	254	44830	284.2
95	240	252	42531	268.2
90	227	250	40369	253.5
85	213	247	38026	237.5
80	200	245	35828	222.6
75	187	243	33608	208.3
70	174	240	31375	193.8
65	161	237	29117	179.6
60	148	234	26848	165.4
55	136	231	24721	152.1
50	123	228	22413	138.1
45	111	224	20262	125.0
40	98	220	17916	111.2
35	86	215	15732	98.2
30	74	210	13527	85.6
25	61	204	11127	72.1
20	49	197	8894	59.3
15	37	188	6644	46.7
10	26	177	4558	35.0
5	14	161	2275	22.4