

Lichttechnischer Prüfbefund

Familie
Highbay 11

Bestell-Nr.: 51HLA2D34SCA
EAN: 4058352474860

LP-Nummer
58922_28



Ausführung breit strahlend, UGR≤22
Bestückung LED 4000 K | CRI ≥ 80
Betriebsgerät EVG-DALI
Bemessungswerte Nettolichtstrom = 49690 lm
Systemleistung = 284.2 W
Lichtausbeute = 174.8 lm/W

Seriendokumentation
04.05.2021

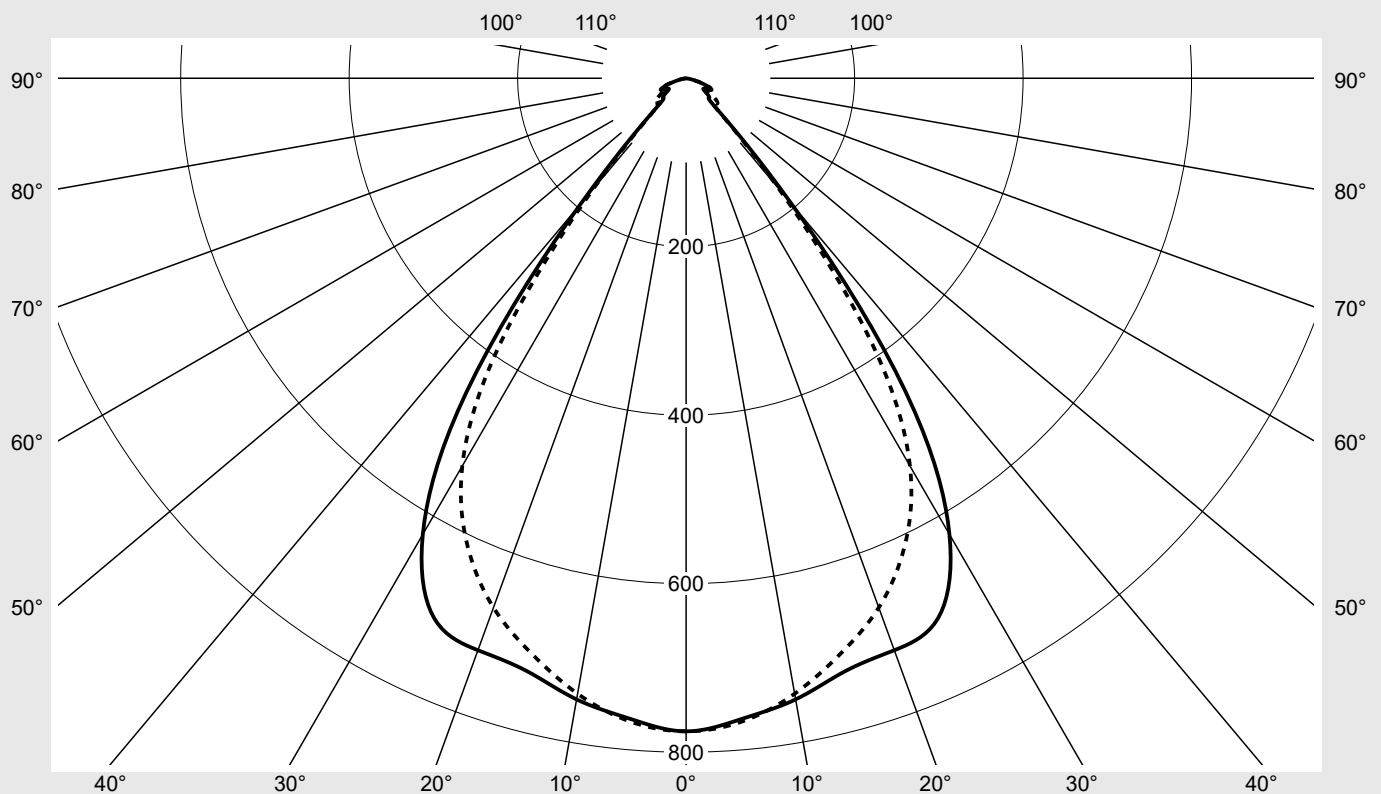
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Lichtstärke in cd/klm

C180-0

C270-90

Imax: 775 cd/klm



Klassifizierungen

DIN 5040 A 6 0
CIE N1=89 N2=96 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°			
Lichtstärke in cd/klm									
Lichtstrom in lm/klm									
γ									
0°	775.3	775.3	775.3	775.3	775.3	775.3	775.3	4.6	4.6
5°	763.3	765.5	767.8	768.1	766.5	768.2	766.4	36.6	41.3
10°	748.7	752.6	756.7	755.9	749.0	745.7	741.9	71.5	112.7
15°	728.8	736.6	748.6	748.7	732.9	716.3	707.4	104.1	216.8
20°	722.5	731.1	745.9	741.9	711.6	682.4	668.7	134.6	351.4
25°	707.4	710.1	723.4	713.1	669.4	627.0	613.5	158.4	509.9
30°	625.1	622.7	643.6	650.9	594.8	541.3	531.4	165.9	675.7
35°	454.3	465.0	515.3	546.7	478.1	404.7	385.8	148.3	824.0
40°	194.7	222.6	276.1	324.0	261.7	198.8	171.4	86.1	910.1
45°	52.4	51.4	56.0	64.9	54.8	51.5	51.3	21.3	931.5
50°	36.0	31.0	27.7	34.1	33.7	39.2	46.8	14.5	946.0
55°	27.7	25.7	21.5	23.0	24.8	33.2	42.0	12.2	958.2
60°	24.8	27.6	25.1	19.0	18.2	24.5	32.6	11.3	969.5
65°	33.0	23.0	22.5	18.8	16.0	23.0	31.5	11.2	980.7
70°	25.9	19.0	18.9	17.8	15.3	19.4	28.1	10.1	990.8
75°	12.6	8.9	10.2	12.8	12.0	13.0	13.0	6.1	996.9
80°	3.5	3.2	4.0	5.1	6.3	6.1	5.9	2.6	999.6
85°	0.3	0.3	0.4	0.5	1.1	1.3	1.4	0.4	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	21,2	22,5	22,8	20,4	21,6	20,7	22,0	22,3
	3H	21,3	22,4	21,7	22,8	23,1	20,9	22,0	21,3	22,4	22,7
	4H	21,4	22,5	21,8	22,8	23,2	21,1	22,1	21,5	22,5	22,9
	6H	21,4	22,4	21,8	22,7	23,1	21,2	22,1	21,6	22,5	22,9
	8H	21,5	22,3	21,9	22,7	23,1	21,3	22,1	21,7	22,5	22,9
	12H	21,5	22,2	21,9	22,6	23,0	21,3	22,0	21,7	22,4	22,8
4H	2H	20,8	21,8	21,2	22,2	22,6	20,3	21,3	20,7	21,7	22,1
	3H	21,3	22,2	21,8	22,6	23,0	20,9	21,8	21,3	22,2	22,6
	4H	21,5	22,3	22,0	22,7	23,1	21,2	22,0	21,7	22,4	22,8
	6H	21,5	22,2	22,0	22,6	23,1	21,4	22,0	21,8	22,5	22,9
	8H	21,5	22,1	22,0	22,5	23,0	21,4	22,0	21,9	22,4	22,9
	12H	21,5	22,0	22,0	22,4	22,9	21,4	21,9	21,9	22,4	22,9
8H	4H	21,5	22,1	22,0	22,6	23,0	21,3	21,9	21,7	22,3	22,8
	6H	21,5	22,0	22,0	22,5	23,0	21,5	21,9	22,0	22,4	22,9
	8H	21,5	21,9	22,0	22,4	22,9	21,5	21,9	22,0	22,4	22,9
	12H	21,5	21,8	22,0	22,3	22,9	21,5	21,8	22,0	22,3	22,9
12H	4H	21,5	22,0	22,0	22,5	23,0	21,3	21,8	21,8	22,2	22,7
	6H	21,6	21,9	22,1	22,4	23,0	21,5	21,8	22,0	22,3	22,9
	8H	21,5	21,8	22,0	22,3	22,9	21,5	21,8	22,0	22,3	22,9

Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$

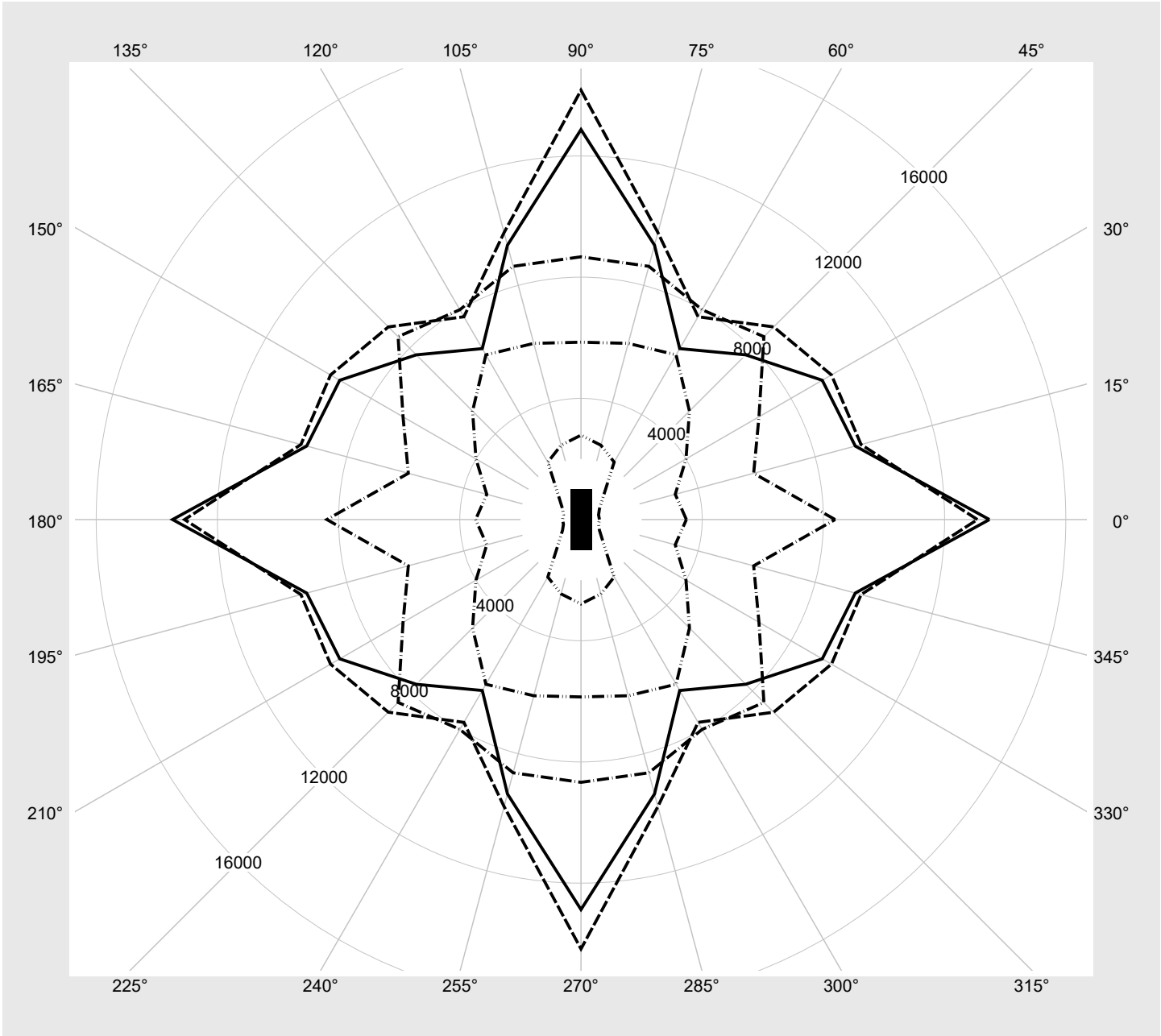
Lichttechnische Abmessungen in mm: L = 900, B = 320

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°		12779.3	12546.5	13665.3	15826.6	13377.1	12574.3	12508.5
50°		9663.3	8329.5	7448.0	9161.6	9053.4	10516.6	12549.0
55°		8326.9	7726.8	6463.4	6933.3	7448.5	9979.2	12633.5
60°		8556.7	9540.1	8659.2	6569.1	6274.4	8460.4	11240.6
65°		13479.3	9372.6	9194.7	7688.2	6515.3	9375.5	12872.2
70°		13084.1	9569.1	9545.4	8992.0	7729.3	9806.7	14171.2
75°		8386.1	5899.6	6782.2	8536.8	7996.8	8653.4	8672.8
80°		3477.6	3220.2	4002.2	5061.3	6277.5	6020.1	5854.2
85°		609.7	599.8	702.8	1023.5	2189.5	2539.8	2785.3

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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	49690	284.2
95	240	252	47142	268.2
90	227	250	44746	253.5
85	213	248	42149	237.5
80	200	245	39712	222.6
75	187	243	37251	208.3
70	174	240	34776	193.8
65	161	237	32274	179.6
60	148	234	29759	165.4
55	136	231	27401	152.1
50	123	227	24842	138.1
45	111	224	22459	125.0
40	98	219	19858	111.2
35	86	214	17437	98.2
30	74	209	14994	85.6
25	61	202	12334	72.1
20	49	194	9858	59.3
15	37	183	7365	46.7
10	26	171	5052	35.0
5	14	148	2522	22.4
1	4	102	401	11.9