

Lichttechnischer Prüfbefund

Familie
Highbay 11



Bestell-Nr.: 51HLA2D34SCA + 59HL91004
EAN: 4058352474860 + 4058352341674

LP-Nummer
58927_16

Seriendokumentation
04.05.2021

Ausführung breit strahlend, UGR≤25, Prismenabdeckung, PC, LLD
Bestückung LED 4000 K | CRI ≥ 80
Betriebsgerät EVG-DALI
Bemessungswerte Nettolichtstrom = 45240 lm
Systemleistung = 284.2 W
Lichtausbeute = 159.2 lm/W

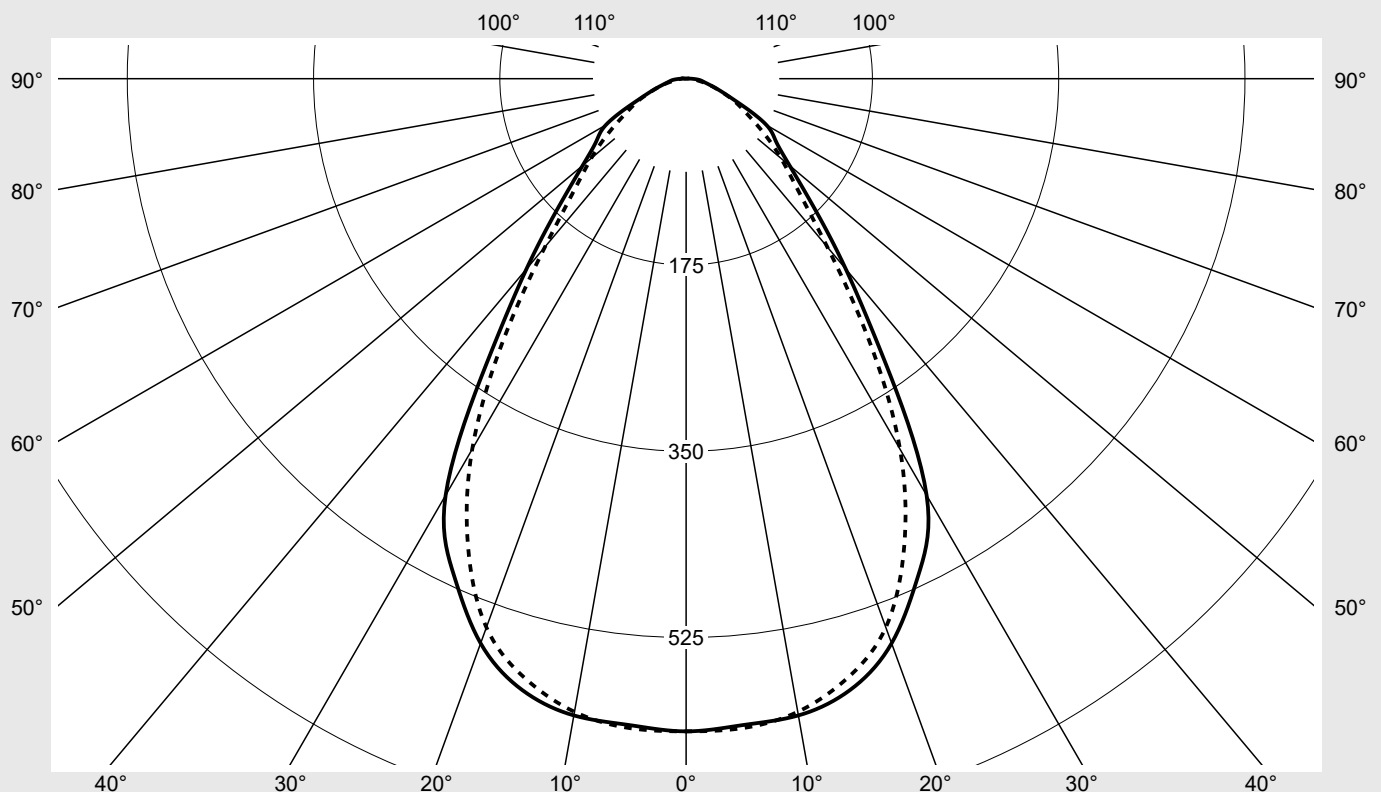
sitEco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 613 cd/klm



Klassifizierungen

DIN 5040 A 5 1
CIE N1=71 N2=92 N3=98
N4=99 N5=100

Leuchtenbetriebswirkungsgrade

η_{LB} 100,0%
 ϕ_u 99,2%
 ϕ_o 0,8%

Messbedingungen

DIN EN 13032 und DIN 5032

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Wertetabelle Lichtstärkemessung		Maximale Lichtstärke
		sITeCO

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°	613.1	613.1	613.1	613.1	613.1	613.1	613.1	3.7	3.7
5°	609.6	611.1	612.7	613.1	612.4	613.5	612.4	29.3	32.9
10°	607.4	608.6	610.2	610.3	606.5	606.0	604.0	57.9	90.8
15°	594.6	597.6	602.3	599.6	593.1	586.2	583.4	84.4	175.1
20°	564.4	569.0	575.3	578.9	566.2	554.6	548.6	106.3	281.4
25°	515.6	519.2	532.1	539.9	522.8	495.8	484.8	120.1	401.5
30°	451.9	458.6	489.1	475.0	449.8	415.9	401.9	124.0	525.5
35°	327.1	344.0	384.2	395.7	355.4	317.3	299.0	110.5	636.0
40°	233.3	244.0	283.0	307.1	269.8	223.2	206.3	90.8	726.9
45°	168.2	173.3	198.5	225.5	193.2	156.5	149.2	71.4	798.3
50°	126.9	129.4	133.3	144.3	131.1	119.6	116.5	54.5	852.8
55°	103.2	99.6	94.5	87.8	94.2	91.0	89.0	42.1	895.0
60°	87.2	78.0	70.2	56.0	68.9	67.5	66.1	33.0	928.0
65°	55.4	55.0	48.9	35.9	50.1	50.3	50.2	24.3	952.2
70°	35.3	34.3	31.3	21.7	32.3	34.6	34.5	16.2	968.5
75°	23.4	22.4	19.9	14.1	19.6	21.8	22.9	10.7	979.2
80°	16.6	15.4	13.9	10.7	12.1	12.4	12.8	7.1	986.3
85°	12.0	10.4	9.7	7.3	6.9	6.7	7.4	4.6	990.9
90°	4.7	4.3	4.8	4.8	4.6	4.2	4.5	2.5	993.4
95°	2.6	2.7	3.5	3.9	3.7	3.3	3.9	1.8	995.3
100°	1.7	1.8	2.2	2.7	2.5	2.3	2.8	1.2	996.5
105°	1.5	1.3	1.3	1.5	1.7	1.9	2.3	0.8	997.3
110°	1.2	1.1	0.9	0.8	1.2	1.2	2.0	0.6	997.9
115°	1.1	1.0	0.8	0.7	1.1	1.0	1.8	0.5	998.4
120°	0.9	0.8	0.7	0.6	0.9	1.0	1.5	0.4	998.8
125°	0.8	0.7	0.6	0.6	0.8	1.0	1.3	0.3	999.2
130°	0.9	0.8	0.8	0.8	0.8	1.0	1.2	0.4	999.6
135°	1.1	1.1	1.1	1.1	1.1	1.1	1.2	0.4	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									
		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
Raumabmessungen											
x	y										
2H	2H	22,7	24,1	23,0	24,4	24,8	22,2	23,7	22,6	24,0	24,3
	3H	23,3	24,6	23,7	24,9	25,3	22,9	24,2	23,3	24,5	24,9
	4H	23,5	24,7	23,9	25,0	25,4	23,1	24,3	23,5	24,7	25,1
	6H	23,7	24,7	24,1	25,1	25,5	23,3	24,4	23,7	24,8	25,2
	8H	23,8	24,8	24,3	25,2	25,6	23,4	24,4	23,9	24,8	25,2
	12H	23,9	24,8	24,4	25,2	25,7	23,5	24,4	23,9	24,8	25,2
4H	2H	22,8	24,0	23,2	24,4	24,7	22,4	23,6	22,8	24,0	24,3
	3H	23,5	24,5	24,0	24,9	25,3	23,2	24,2	23,7	24,6	25,0
	4H	23,8	24,7	24,3	25,1	25,5	23,6	24,4	24,0	24,9	25,3
	6H	24,1	24,9	24,5	25,3	25,7	23,8	24,6	24,3	25,0	25,5
	8H	24,2	24,9	24,7	25,4	25,9	23,9	24,6	24,4	25,0	25,5
	12H	24,4	25,0	24,9	25,5	26,0	24,0	24,6	24,5	25,1	25,5
8H	4H	23,8	24,5	24,3	25,0	25,4	23,6	24,3	24,1	24,7	25,2
	6H	24,2	24,8	24,7	25,2	25,7	23,9	24,5	24,4	24,9	25,4
	8H	24,4	24,9	24,9	25,4	25,9	24,0	24,5	24,5	25,0	25,5
	12H	24,7	25,1	25,2	25,6	26,1	24,2	24,6	24,7	25,1	25,6
12H	4H	23,8	24,4	24,3	24,9	25,4	23,6	24,2	24,1	24,7	25,2
	6H	24,2	24,7	24,7	25,2	25,7	23,9	24,4	24,4	24,9	25,4
	8H	24,4	24,9	25,0	25,4	25,9	24,1	24,5	24,6	25,0	25,5

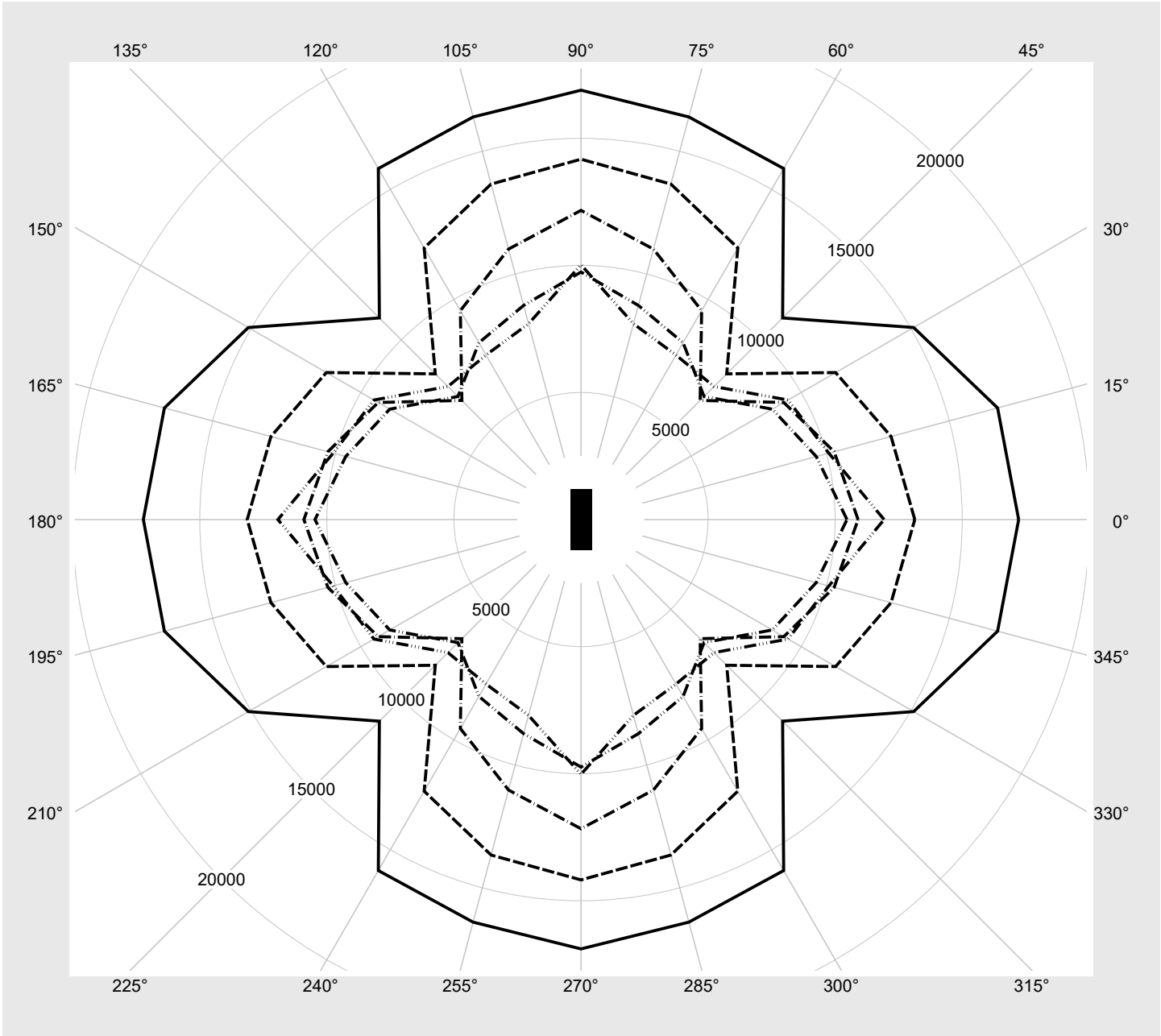
Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$	Lichttechnische Abmessungen in mm: L = 918 B = 330	H(C0) = 21	H(C180) = 21	H(C90) = 21	H(C270) = 21
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C-Ebenen	γ	Leuchtdichte in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		33394.1	34289.6	39304.4	44875.6	38808.9	31830.6	30805.8	
50°		27402.2	27820.8	28683.8	31257.1	28701.1	26564.1	26347.5	
55°		24633.8	23644.8	22457.4	21029.2	22831.5	22448.0	22429.1	
60°		23463.8	20872.2	18799.3	15117.4	18886.9	18904.2	18978.4	
65°		17221.4	16970.6	15113.9	11219.8	15949.1	16400.9	16895.4	
70°		13133.8	12630.9	11569.9	8108.2	12341.6	13666.7	14180.0	
75°		10903.0	10312.6	9214.4	6629.5	9494.1	11018.0	12166.4	
80°		10466.7	9583.8	8689.8	6848.4	8034.5	8723.3	9740.0	
85°		11926.1	10095.3	9406.8	7403.5	7475.0	7976.1	10025.5	

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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		sITeco
Umgebungstemperatur: 25°C		

Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [W]
100	254	254	45240	284.2
95	240	252	42920	268.2
90	227	250	40738	253.5
85	213	248	38374	237.5
80	200	245	36155	222.6
75	187	243	33915	208.3
70	174	240	31662	193.8
65	161	237	29384	179.6
60	148	234	27094	165.4
55	136	231	24947	152.1
50	123	227	22618	138.1
45	111	224	20448	125.0
40	98	219	18080	111.2
35	86	214	15876	98.2
30	74	209	13651	85.6
25	61	202	11229	72.1
20	49	194	8975	59.3
15	37	183	6705	46.7
10	26	171	4600	35.0
5	14	148	2296	22.4
1	4	102	365	11.9