

## Lichttechnischer Prüfbefund

Familie  
Highbay 11



Bestell-Nr.: 51HLA2D24MCAD + 59HL91004  
EAN: 4058352341636 + 4058352341674

LP-Nummer  
58927\_9

Seriendokumentation  
13.06.2019

**Ausführung** breit strahlend, UGR≤25, Prismenabdeckung, PC, LLD  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG-DALI  
**Bemessungswerte** Nettolichtstrom = 26220 lm  
Systemleistung = 162.4 W  
Lichtausbeute = 161.5 lm/W

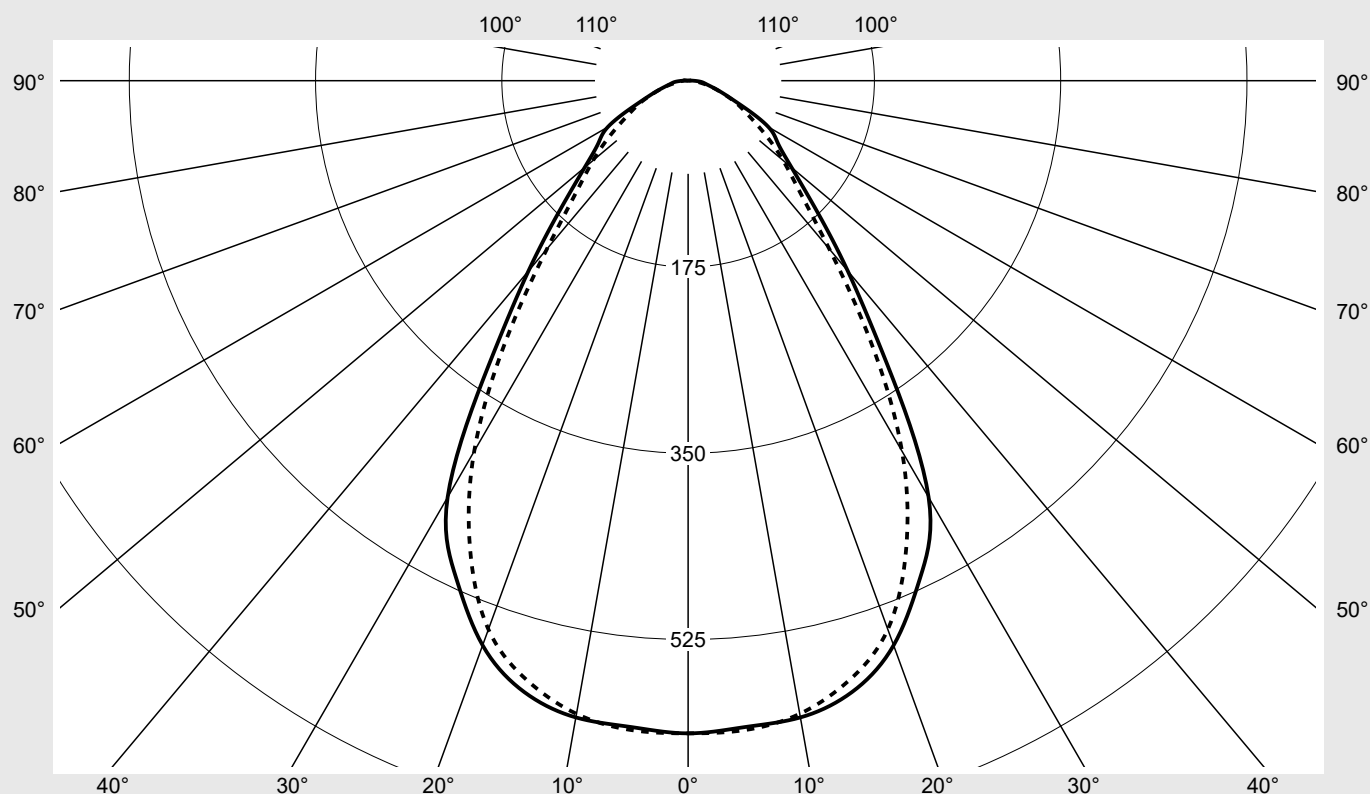
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Lichtstärke in cd/klm

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

$\eta_{LB}$  100,0%  
 $\phi_u$  99,2%  
 $\phi_o$  0,8%

## Messbedingungen

DIN EN 13032 und DIN 5032

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Wertetabelle Lichtstärkemessung		Maximale Lichtstärke							Phi-Zone	Summe Phi-Zone
C- Ebenen	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Phi-Zone	Summe Phi-Zone	
γ	Lichtstärke in cd/klm							Lichtstrom in lm/klm		
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									
Raumabmessungen		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
x	y										
2H	2H	22,2	23,6	22,5	23,9	24,3	21,7	23,1	22,1	23,4	23,8
	3H	22,8	24,1	23,2	24,4	24,8	22,4	23,6	22,7	24,0	24,3
	4H	23,0	24,2	23,4	24,5	24,9	22,6	23,8	23,0	24,1	24,5
	6H	23,2	24,2	23,6	24,6	25,0	22,8	23,8	23,2	24,2	24,6
	8H	23,3	24,3	23,8	24,7	25,1	22,9	23,9	23,3	24,2	24,6
	12H	23,4	24,3	23,9	24,7	25,2	22,9	23,8	23,4	24,2	24,6
4H	2H	22,3	23,5	22,7	23,9	24,2	21,9	23,1	22,3	23,4	23,8
	3H	23,0	24,0	23,5	24,4	24,8	22,7	23,7	23,1	24,1	24,5
	4H	23,3	24,2	23,7	24,6	25,0	23,0	23,9	23,4	24,3	24,7
	6H	23,6	24,3	24,0	24,8	25,2	23,2	24,0	23,7	24,4	24,9
	8H	23,7	24,4	24,2	24,9	25,3	23,3	24,0	23,8	24,5	24,9
	12H	23,9	24,5	24,4	25,0	25,5	23,4	24,0	23,9	24,5	25,0
8H	4H	23,3	24,0	23,8	24,5	24,9	23,0	23,7	23,5	24,2	24,7
	6H	23,7	24,2	24,2	24,7	25,2	23,3	23,9	23,8	24,4	24,9
	8H	23,9	24,4	24,4	24,9	25,4	23,4	24,0	24,0	24,4	25,0
	12H	24,2	24,6	24,7	25,1	25,6	23,6	24,0	24,1	24,5	25,0
12H	4H	23,3	23,9	23,8	24,4	24,9	23,1	23,6	23,6	24,1	24,6
	6H	23,7	24,2	24,2	24,7	25,2	23,4	23,8	23,9	24,3	24,8
	8H	23,9	24,3	24,4	24,8	25,4	23,5	23,9	24,0	24,4	25,0

<b>Leuchtdichten-Tabelle</b> Max. für $\gamma \geq 65^\circ$	<b>Lichttechnische Abmessungen in mm:</b> L = 612 B = 330	H(C0) = 21	H(C180) = 21	H(C90) = 21	H(C270) = 21
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C-Ebenen	$\gamma$	Leuchtdichte in $\text{cd/m}^2$							
		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°		29031.6	29727.6	33987.6	38718.1	33424.2	27381.0	26485.3	
50°		23822.5	24107.7	24780.1	26931.8	24677.2	22806.8	22605.6	
55°		21415.7	20477.0	19379.1	18089.8	19590.8	19228.0	19195.4	
60°		20398.5	18062.6	16199.6	12978.1	16165.0	16145.0	16190.6	
65°		14971.6	14672.3	12999.9	9606.7	13605.4	13953.1	14352.6	
70°		11418.0	10906.0	9926.6	6917.4	10479.6	11563.9	11973.5	
75°		9478.7	8886.9	7876.0	5625.3	8005.7	9245.4	10176.7	
80°		9099.3	8231.8	7380.8	5757.7	6694.0	7212.9	8007.8	
85°		10368.1	8611.9	7885.2	6104.2	6066.5	6375.3	7897.4	

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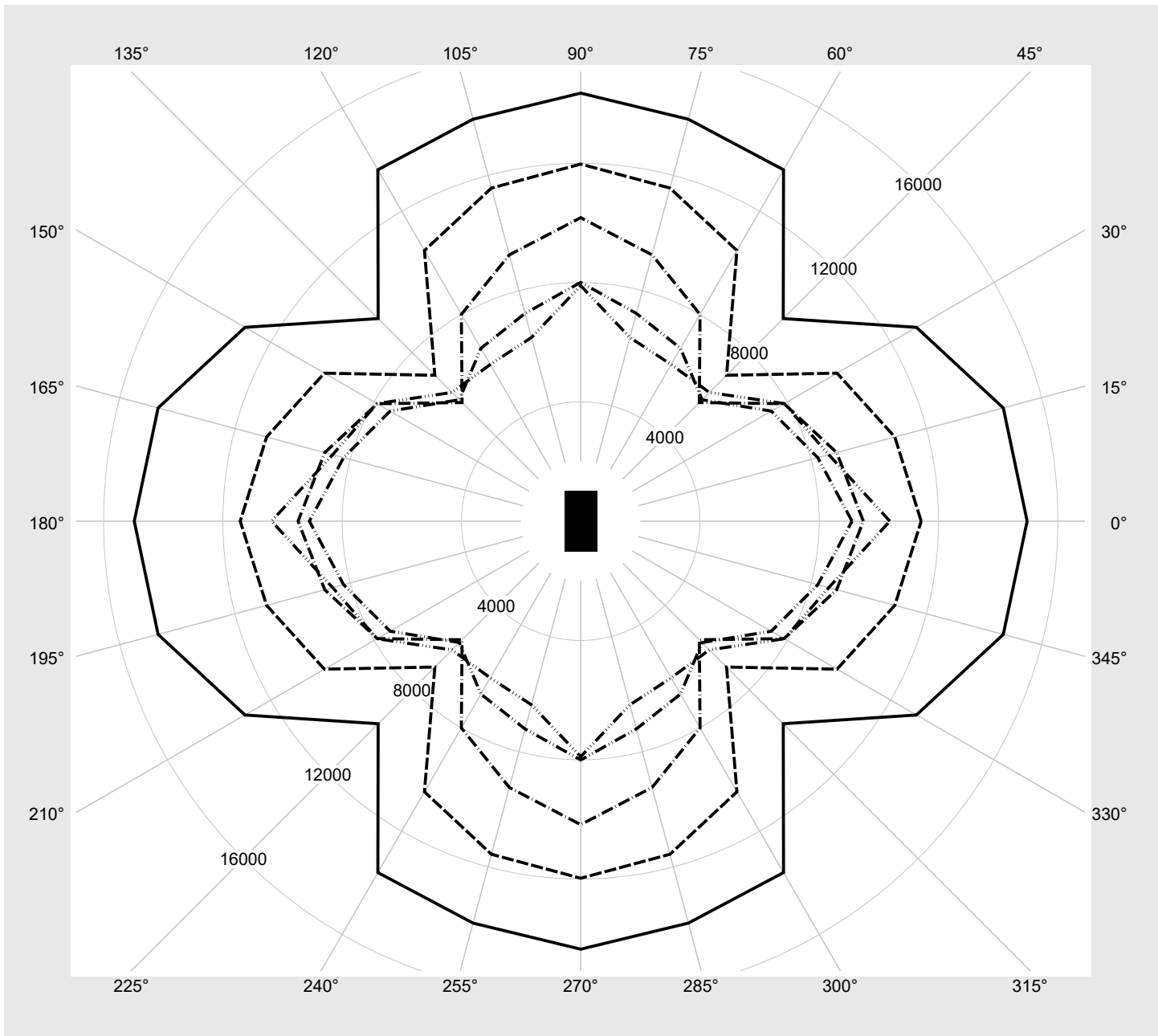
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**Leuchtdichten in cd/m<sup>2</sup>**

$\gamma$  65°   
   $\gamma$  70°   
   $\gamma$  75°   
   $\gamma$  80°   
   $\gamma$  85°



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<b>Dimmstufen-Tabelle</b>		<b>sITeco</b>
Umgebungstemperatur: 25°C		

Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [W]
100	254	254	26220	162.4
95	241	252	24909	153.6
90	227	250	23598	145.0
85	214	248	22287	136.6
80	201	245	20976	128.3
75	188	243	19665	120.1
70	175	240	18354	111.9
65	162	237	17043	103.9
60	149	234	15732	95.9
55	136	231	14421	88.1
50	124	228	13110	80.3
45	111	224	11799	72.7
40	99	219	10488	65.0
35	86	215	9177	57.5
30	74	209	7866	50.1
25	62	203	6555	42.6
20	50	195	5244	35.3
15	38	185	3933	28.1
10	26	170	2621	20.8