

## Lichttechnischer Prüfbefund

**Familie**  
Highbay 11

**Bestell-Nr.:** 51HLA2D24MCAD + 59HL91002  
**EAN:** 4058352341636 + 4058352341650

**LP-Nummer**  
58924\_17

**Ausführung** breit strahlend, UGR≤22, Abdeckscheibe, PC

**Bestückung** LED 4000 K | CRI ≥ 80

**Betriebsgerät** EVG-DALI

**Bemessungswerte**  
Nettolichtstrom = 25980 lm  
Systemleistung = 162.4 W  
Lichtausbeute = 160 lm/W

**Seriendokumentation**  
13.06.2019

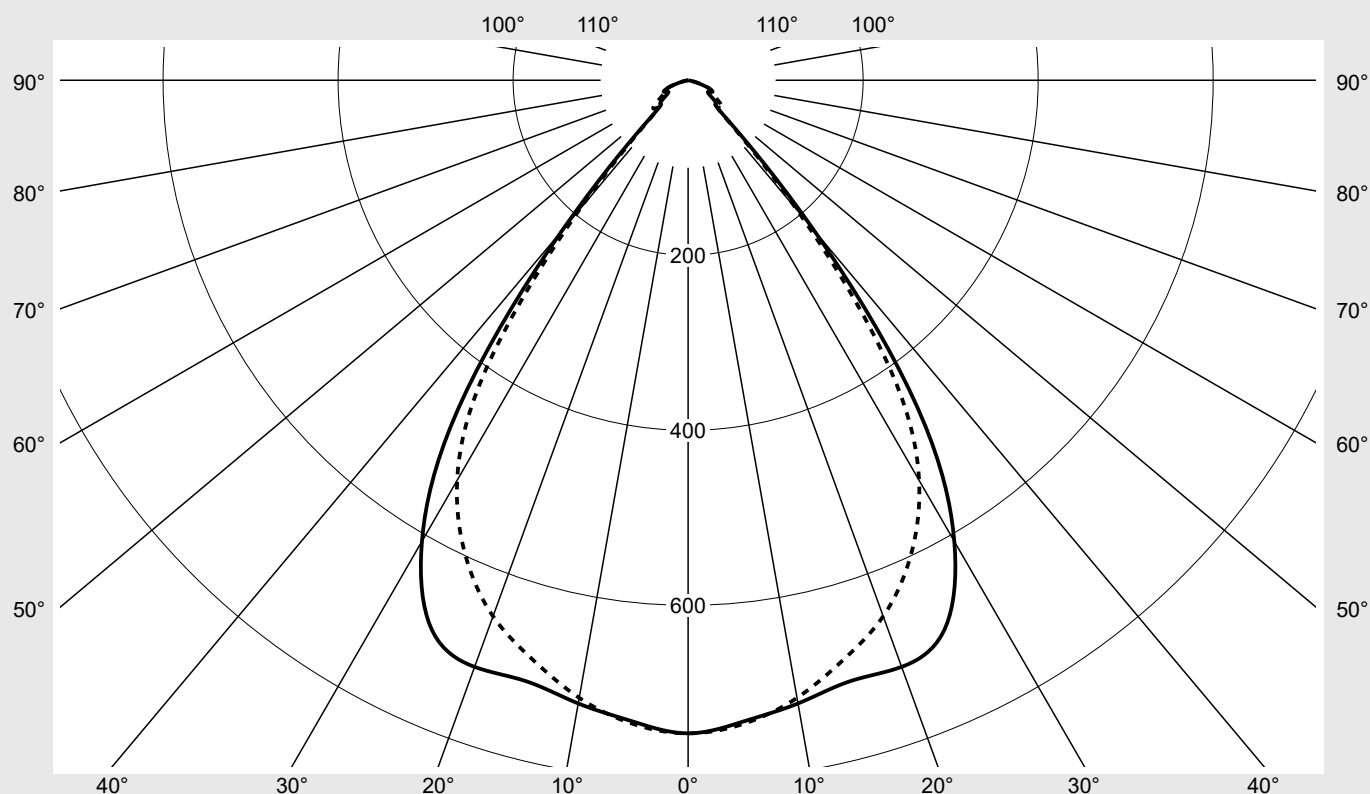
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Lichtstärke in cd/klm

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

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

#### Messbedingungen

DIN EN 13032 und DIN 5032

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<b>Wertetabelle Lichtstärkemessung</b>	<b>Maximale Lichtstärke</b>	<b>sITeco</b>
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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°			
γ									
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	20,5	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

<b>Leuchtdichten-Tabelle</b> Max. für $\gamma \geq 65^\circ$	<b>Lichttechnische Abmessungen in mm:</b> L = 590 B = 312
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C-Ebenen	$\gamma$	Leuchtdichte in cd/m <sup>2</sup>							
		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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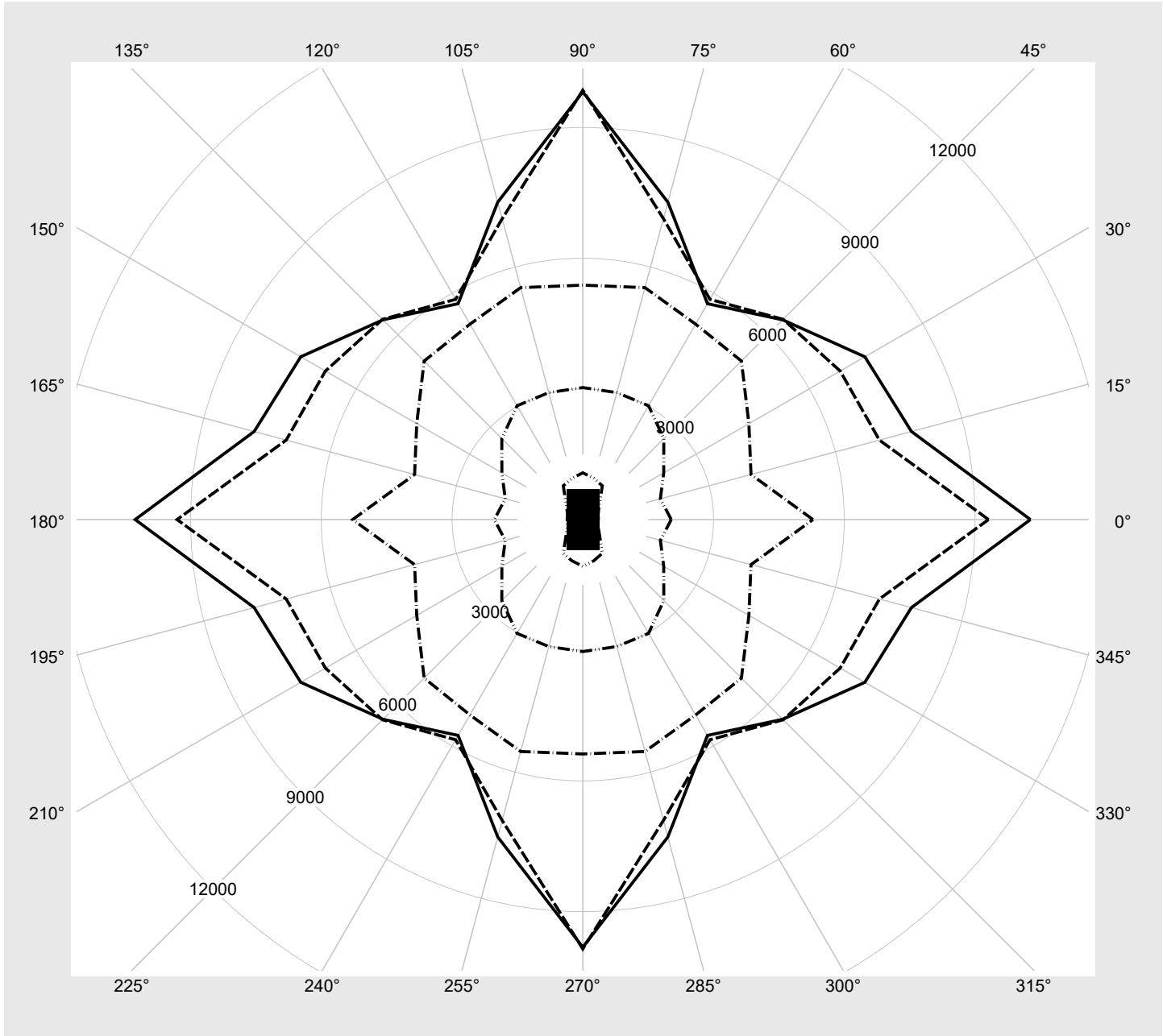
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**Leuchtdichten in cd/m<sup>2</sup>**

$\gamma$  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	25980	162.4
95	241	252	24681	153.6
90	227	250	23382	145.0
85	214	248	22083	136.6
80	201	245	20784	128.3
75	188	243	19485	120.1
70	175	240	18186	111.9
65	162	238	16887	103.9
60	149	235	15588	95.9
55	136	232	14289	88.1
50	124	228	12990	80.3
45	111	225	11691	72.7
40	99	220	10392	65.0
35	86	216	9093	57.5
30	74	211	7794	50.1
25	62	205	6495	42.6
20	50	198	5196	35.3
15	38	190	3897	28.1
10	26	179	2597	20.8