

## Lichttechnischer Prüfbefund

**Familie**  
Highbay 11

**Bestell-Nr.:** 51HLA2D24MCAD + 59HL91001  
**EAN:** 4058352341636 + 4058352323519

**LP-Nummer**  
58924\_9

**Ausführung** breit strahlend, UGR≤22,  
Einscheibensicherheitsglas (ESG)

**Bestückung** LED 4000 K | CRI ≥ 80

**Betriebsgerät** EVG-DALI

**Bemessungswerte** Nettolichtstrom = 27460 lm  
Systemleistung = 162.4 W  
Lichtausbeute = 169.1 lm/W

**Seriendokumentation**  
13.06.2019

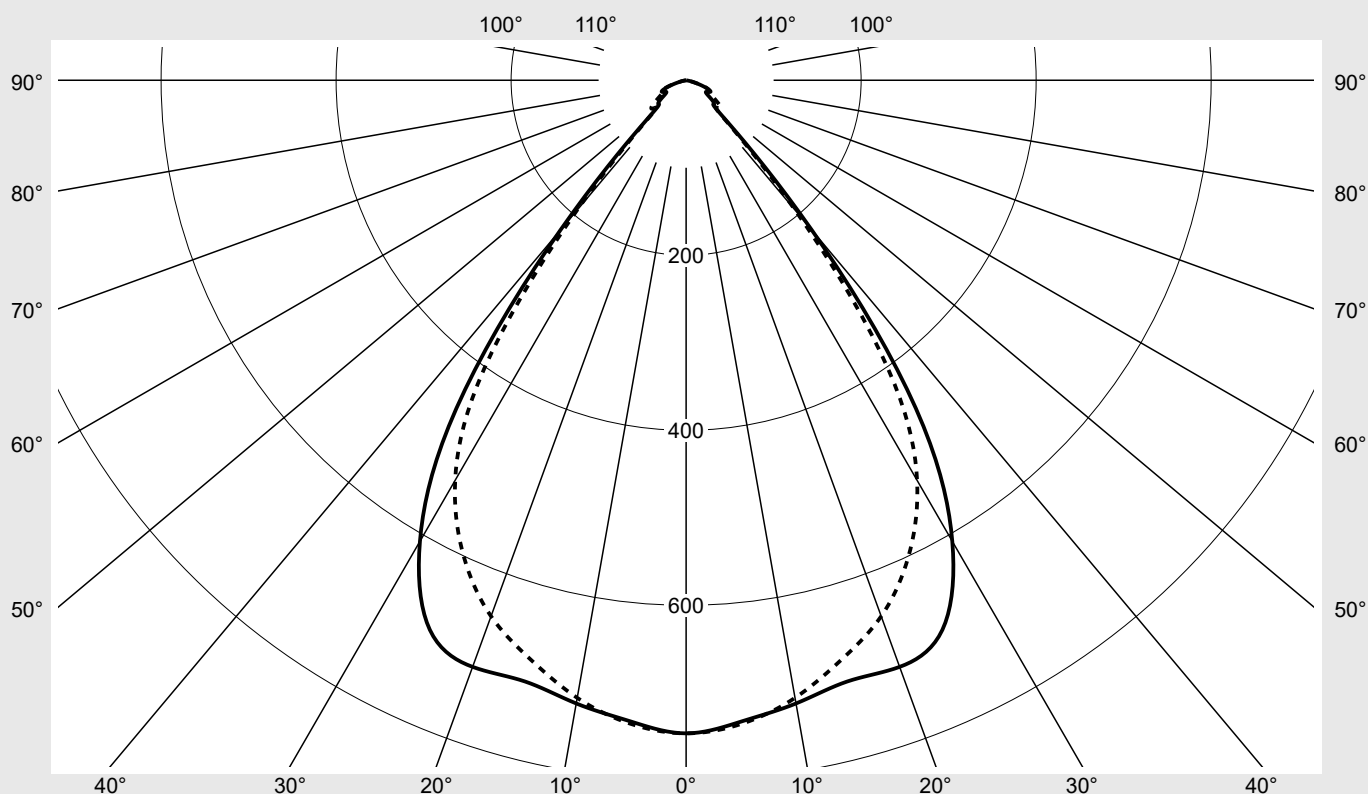
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Lichtstärke in cd/klm

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>
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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°	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	20,6	21,9	21,0	22,2	22,6	20,2	21,5	20,5	21,8	22,1
	3H	21,0	22,1	21,3	22,4	22,8	20,5	21,7	20,9	22,0	22,4
	4H	21,0	22,1	21,4	22,4	22,8	20,7	21,7	21,1	22,1	22,4
	6H	21,0	21,9	21,4	22,3	22,7	20,7	21,6	21,1	22,0	22,4
	8H	21,0	21,8	21,5	22,2	22,6	20,7	21,5	21,1	21,9	22,3
	12H	21,0	21,8	21,4	22,1	22,6	20,7	21,4	21,1	21,8	22,3
4H	2H	20,6	21,6	21,0	22,0	22,3	20,1	21,2	20,5	21,5	21,9
	3H	21,0	21,8	21,4	22,2	22,6	20,6	21,4	21,0	21,8	22,2
	4H	21,0	21,8	21,5	22,2	22,7	20,7	21,5	21,2	21,9	22,3
	6H	21,0	21,7	21,5	22,1	22,6	20,7	21,4	21,2	21,8	22,3
	8H	21,0	21,6	21,4	22,0	22,5	20,7	21,3	21,2	21,8	22,2
	12H	21,0	21,5	21,5	21,9	22,4	20,7	21,2	21,2	21,7	22,2
8H	4H	21,0	21,6	21,5	22,0	22,5	20,7	21,3	21,2	21,7	22,2
	6H	21,0	21,4	21,4	21,9	22,4	20,7	21,2	21,2	21,7	22,2
	8H	20,9	21,3	21,4	21,8	22,3	20,7	21,1	21,2	21,6	22,1
	12H	20,9	21,2	21,4	21,7	22,3	20,7	21,0	21,2	21,5	22,1
12H	4H	21,0	21,5	21,5	21,9	22,4	20,7	21,2	21,2	21,6	22,1
	6H	21,0	21,3	21,5	21,8	22,4	20,7	21,1	21,2	21,6	22,1
	8H	20,9	21,2	21,4	21,7	22,3	20,7	21,0	21,2	21,5	22,1

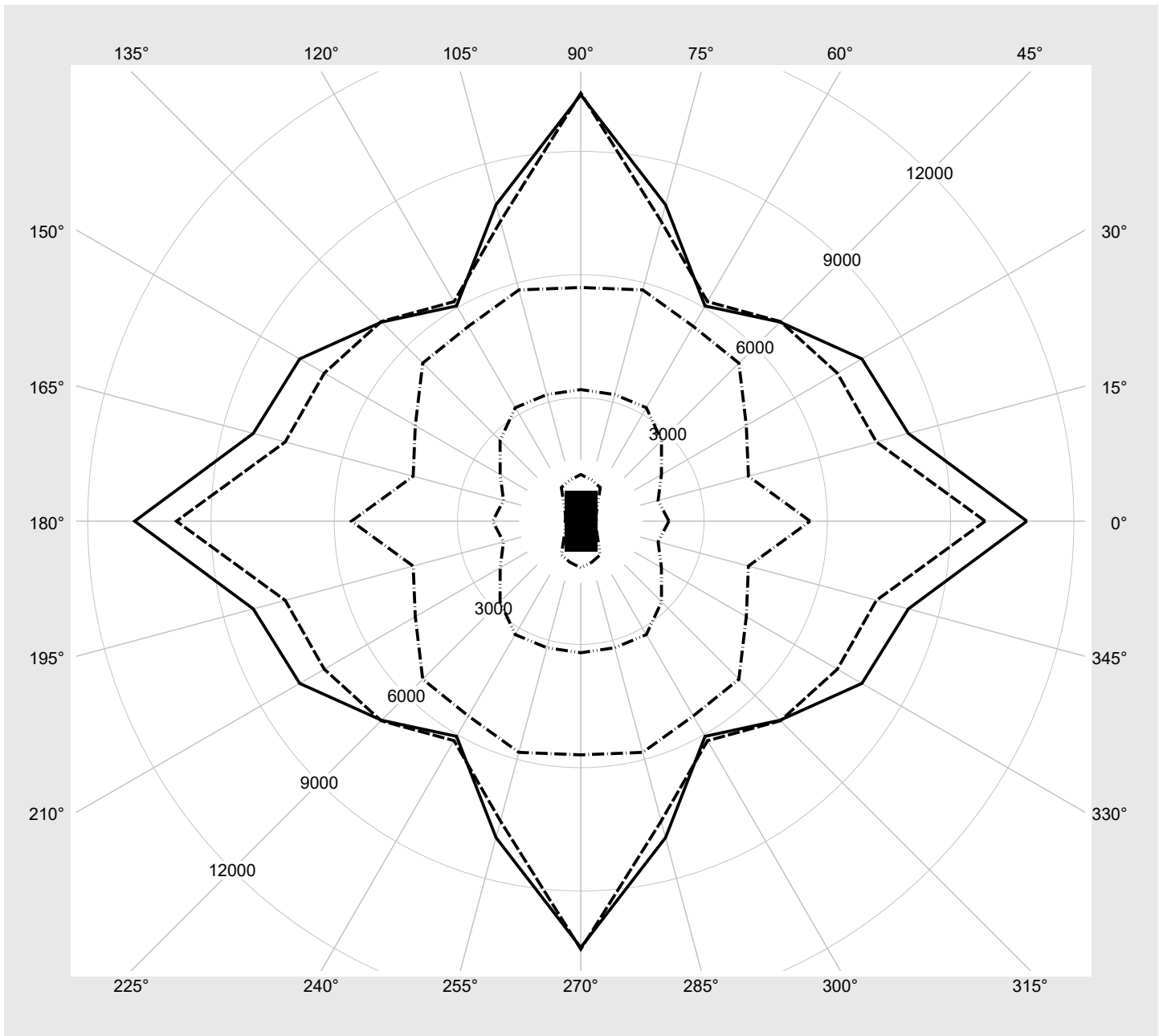
<b>Leuchtdichten-Tabelle</b> Max. für $\gamma \geq 65^\circ$	<b>Lichttechnische Abmessungen in mm:</b> L = 590 B = 312
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C-Ebenen	$\gamma$	Leuchtdichte in cd/m <sup>2</sup>						
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
45°	45°	13358.5	14276.2	16907.3	19038.9	14469.6	12718.6	12397.1
50°	50°	9661.7	8591.1	8064.8	9100.1	9129.8	10267.0	11735.5
55°	55°	8162.5	7742.5	6889.7	7220.0	7615.8	9366.7	11337.8
60°	60°	7900.9	8851.4	7843.3	6548.5	6356.9	7715.6	9843.1
65°	65°	10856.8	8252.2	7898.9	6853.7	6047.9	7972.3	10376.4
70°	70°	9840.6	7447.8	7207.9	6870.8	6169.4	7556.8	10417.6
75°	75°	5582.1	4223.6	4651.3	5440.9	5474.3	5825.9	5687.6
80°	80°	2145.1	1947.5	2266.2	2778.2	3188.8	3189.7	3202.6
85°	85°	380.0	385.1	439.9	580.2	946.5	1033.8	1134.8

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Leuchtdichten in cd/m<sup>2</sup>      γ 65°    γ 70°    γ 75°    γ 80°    γ 85°      **siteco**



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<b>Dimmstufen-Tabelle</b>	Umgebungstemperatur: 25°C	<b>sITeco</b>
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Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [W]
100	254	254	27460	162.4
95	241	252	26087	153.6
90	227	250	24714	145.0
85	214	248	23341	136.6
80	201	245	21968	128.3
75	188	243	20595	120.1
70	175	240	19222	111.9
65	162	238	17849	103.9
60	149	235	16476	95.9
55	136	232	15103	88.1
50	124	228	13730	80.3
45	111	225	12357	72.7
40	99	220	10984	65.0
35	86	216	9611	57.5
30	74	211	8238	50.1
25	62	205	6865	42.6
20	50	198	5492	35.3
15	38	190	4119	28.1