

## Lichttechnischer Prüfbefund

**Familie**  
Highbay 11

**Bestell-Nr.:** 51HLA2D24NLA + 59HL91001  
**EAN:** 4058352361481 + 4058352323519

**LP-Nummer**  
58924\_21

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

**Bestückung** LED 4000 K | CRI ≥ 80

**Betriebsgerät** EVG-DALI

**Bemessungswerte** Nettolichtstrom = 31620 lm  
Systemleistung = 189.7 W  
Lichtausbeute = 166.7 lm/W

**Seriendokumentation**  
31.03.2020

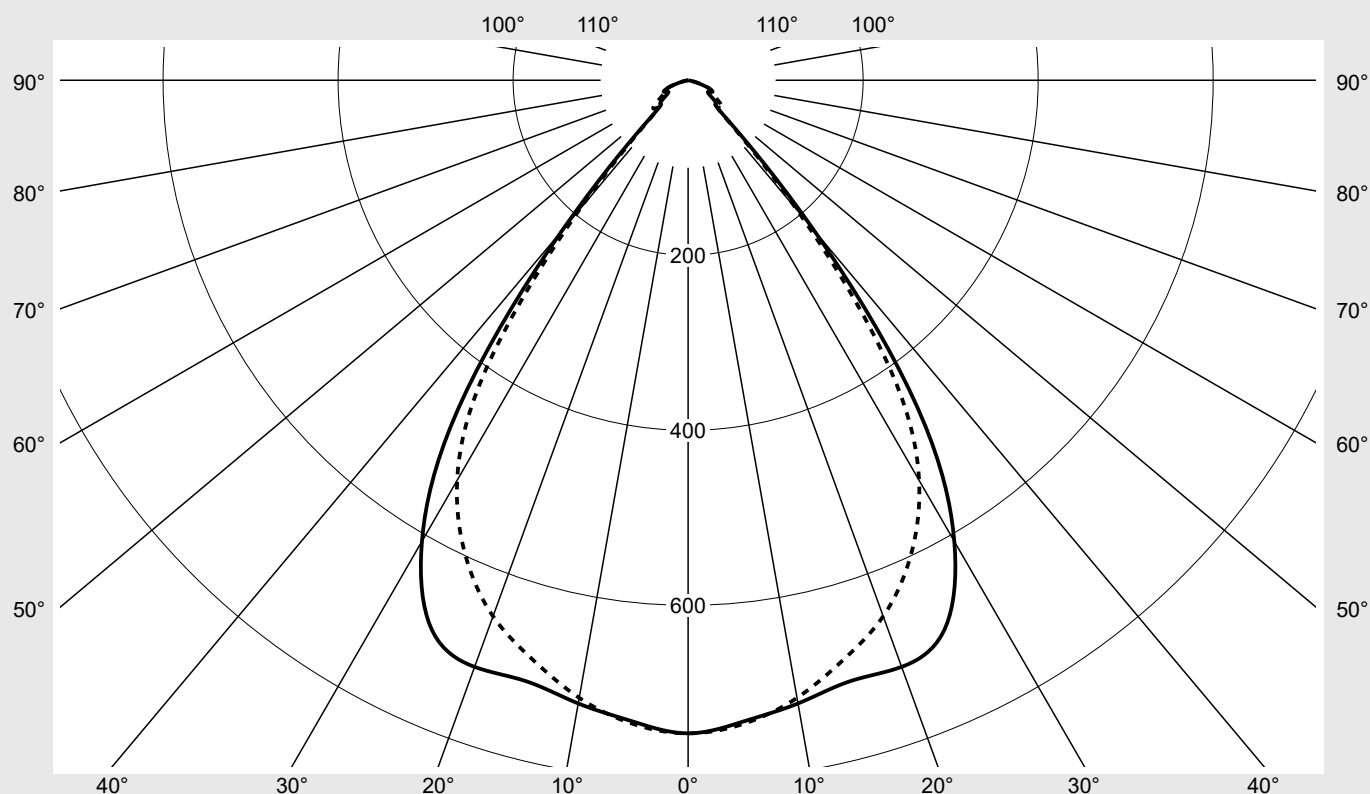
siteco

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>

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	21,1	22,4	21,5	22,7	23,1	20,7	22,0	21,0	22,3	22,6
	3H	21,4	22,6	21,8	22,9	23,3	21,0	22,2	21,4	22,5	22,9
	4H	21,5	22,5	21,9	22,9	23,3	21,1	22,2	21,5	22,6	22,9
	6H	21,5	22,4	21,9	22,8	23,2	21,2	22,1	21,6	22,5	22,9
	8H	21,5	22,3	22,0	22,7	23,1	21,2	22,0	21,6	22,4	22,8
	12H	21,5	22,2	21,9	22,6	23,1	21,2	21,9	21,6	22,3	22,8
4H	2H	21,1	22,1	21,5	22,5	22,8	20,6	21,7	21,0	22,0	22,4
	3H	21,5	22,3	21,9	22,7	23,1	21,0	21,9	21,5	22,3	22,7
	4H	21,5	22,3	22,0	22,7	23,1	21,2	22,0	21,6	22,4	22,8
	6H	21,5	22,1	22,0	22,6	23,1	21,2	21,9	21,7	22,3	22,8
	8H	21,5	22,0	21,9	22,5	23,0	21,2	21,8	21,7	22,2	22,7
	12H	21,5	21,9	22,0	22,4	22,9	21,2	21,7	21,7	22,2	22,7
8H	4H	21,5	22,1	22,0	22,5	23,0	21,2	21,8	21,7	22,2	22,7
	6H	21,4	21,9	21,9	22,4	22,9	21,2	21,7	21,7	22,2	22,7
	8H	21,4	21,8	21,9	22,3	22,8	21,2	21,6	21,7	22,1	22,6
	12H	21,4	21,7	21,9	22,2	22,8	21,2	21,5	21,7	22,0	22,6
12H	4H	21,5	22,0	22,0	22,4	22,9	21,2	21,7	21,7	22,1	22,6
	6H	21,4	21,8	22,0	22,3	22,8	21,2	21,6	21,7	22,1	22,6
	8H	21,4	21,7	21,9	22,2	22,8	21,2	21,5	21,7	22,0	22,6

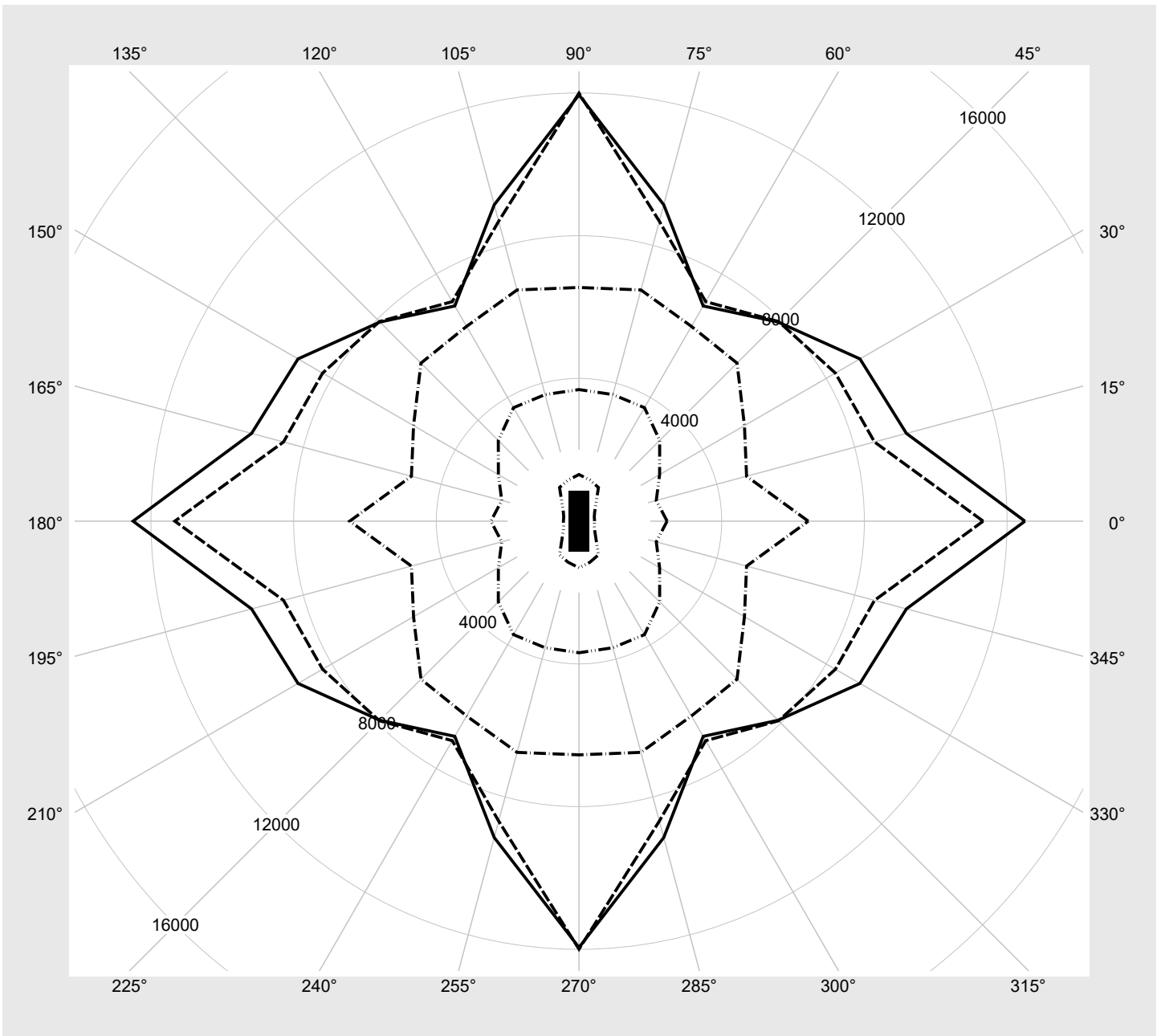
<b>Leuchtdichten-Tabelle</b>	Max. für $\gamma \geq 65^\circ$	Lichttechnische Abmessungen in mm:	L = 590 B = 312
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C-Ebenen	$\gamma$	Leuchtdichte in cd/m <sup>2</sup>						
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
45°		15382.2	16438.9	19468.7	21923.2	16661.7	14645.4	14275.2
50°		11125.4	9892.6	9286.6	10478.7	10512.9	11822.3	13513.4
55°		9399.1	8915.4	7933.5	8313.8	8769.6	10785.7	13055.4
60°		9097.8	10192.3	9031.5	7540.5	7319.9	8884.5	11334.3
65°		12501.6	9502.4	9095.5	7892.0	6964.1	9180.1	11948.4
70°		11331.3	8576.1	8299.9	7911.6	7104.1	8701.7	11995.8
75°		6427.7	4863.5	5355.9	6265.1	6303.6	6708.5	6549.2
80°		2470.0	2242.5	2609.5	3199.1	3671.9	3672.9	3687.7
85°		437.5	443.4	506.5	668.1	1089.9	1190.4	1306.7

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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>		<b>sITeco</b>
Umgebungstemperatur: 25°C		

Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [W]
100	254	254	31620	189.7
95	240	252	29999	179.0
90	227	250	28474	169.1
85	213	247	26822	158.4
80	200	245	25272	148.6
75	187	243	23706	139.0
70	174	240	22131	129.4
65	161	237	20539	119.9
60	148	234	18938	110.4
55	136	231	17437	101.5
50	123	228	15809	92.1
45	110	224	14166	82.8
40	98	220	12638	74.2
35	86	215	11097	65.6
30	74	210	9542	57.1
25	61	204	7849	48.1
20	49	197	6274	39.6
15	37	188	4687	31.2
10	26	177	3215	23.3
5	14	161	1606	14.9