

## Lichttechnischer Prüfbefund

**Familie**  
**Highbay 21**

**Bestell-Nr.: 52HN12DB6LDA**  
**EAN: 4069025445650**

**LP-Nummer**  
**59723\_247**



**Ausführung** primäre Lichtlenkung mit Linse, PMMA, Gehäuse, weiß, breit strahlend

**Bestückung** LED 6500 K | CRI ≥ 80

**Betriebsgerät** EVG-DALI

**Einstellung** AC-Betrieb

**Bemessungswerte** Nettolichtstrom = 27140 lm  
Systemleistung = 144.0 W  
Lichtausbeute = 188.5 lm/W

**Seriendokumentation**  
**24.04.2025**

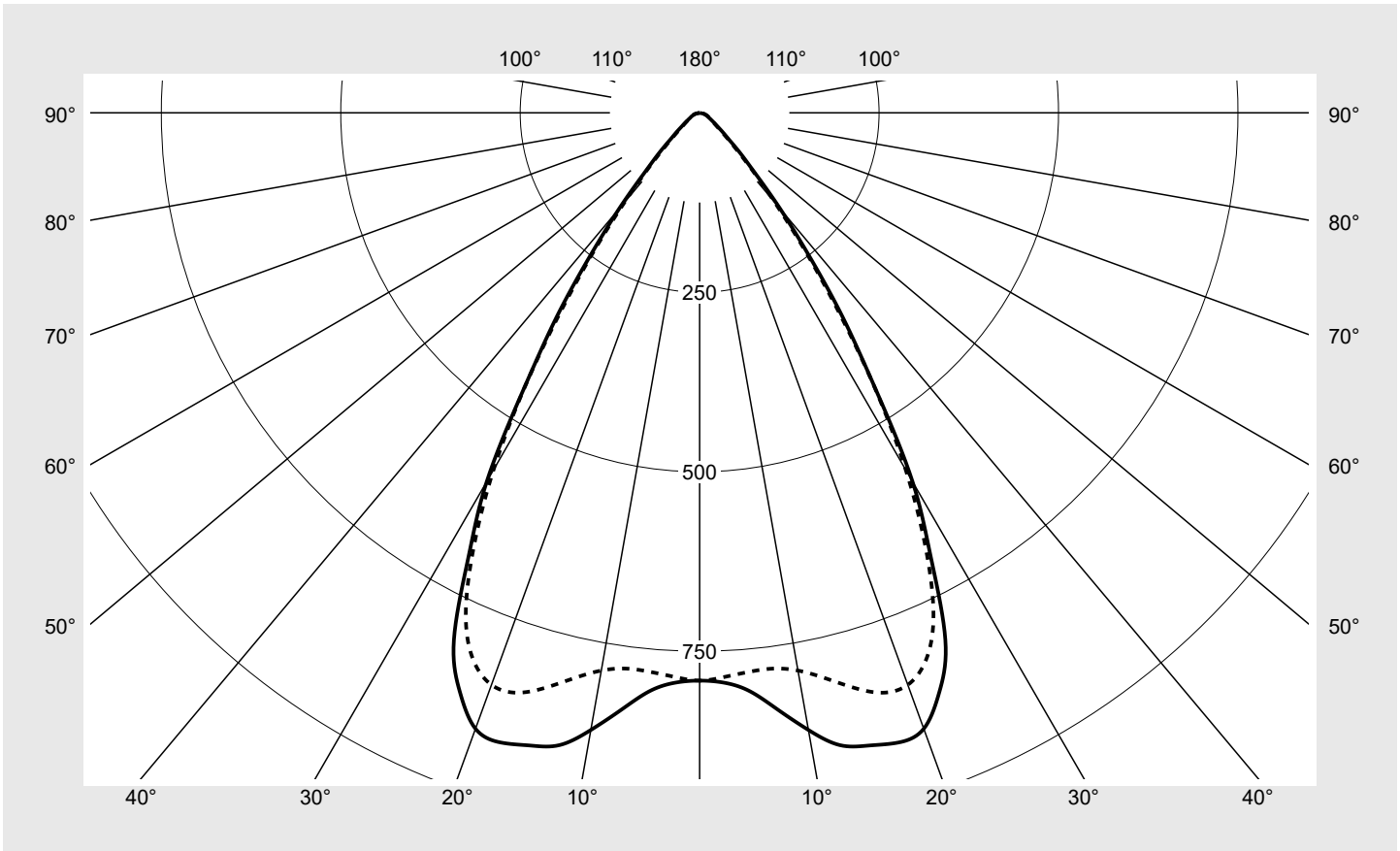
**sitEco**

**Lichtstärke in cd/klm**

**C180-0**

**C270-90**

**Imax: 920 cd/klm**



**Klassifizierungen**

DIN 5040 A 7 0  
CIE N1=90 N2=98 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	0,0° 180,0°	7,5°	15,0°	22,5°	30,0°	37,5°	45,0°
		172,5° 187,5° 352,5°	165,0° 195,0° 345,0°	157,5° 202,5° 337,5°	150,0° 210,0° 330,0°	142,5° 217,5° 322,5°	135,0° 225,0° 315,0°
Lichtstärke in cd/klm							
γ							
0,0°	791.0	791.0	791.0	791.0	791.0	791.0	791.0
2,5°	794.7	794.4	795.0	795.0	794.2	792.8	792.0
5,0°	809.1	811.4	809.6	807.9	804.8	800.8	797.1
7,5°	839.0	837.9	835.9	831.3	824.9	817.3	810.1
10,0°	873.0	873.9	866.7	857.6	846.5	834.6	825.0
12,5°	902.2	899.8	892.6	881.8	868.2	853.9	842.5
15,0°	912.4	911.0	905.2	895.6	883.1	869.5	858.7
17,5°	919.8	918.2	913.1	904.4	892.7	879.7	870.3
20,0°	913.1	910.4	906.8	900.7	891.6	880.0	870.9
22,5°	873.0	875.7	872.3	868.8	863.2	854.7	847.2
25,0°	810.1	803.4	805.6	804.0	800.6	794.9	789.9
27,5°	697.5	704.9	702.5	701.8	699.9	697.0	693.3
30,0°	593.2	587.4	585.8	584.9	582.5	580.2	578.9
32,5°	456.1	464.3	462.1	462.0	458.3	454.5	453.6
35,0°	347.7	343.4	342.9	343.5	340.5	335.4	333.2
37,5°	248.6	249.1	246.7	247.3	245.8	241.7	237.9
40,0°	174.7	169.8	171.0	172.0	172.0	169.5	166.1
42,5°	115.9	118.7	117.3	118.1	118.9	118.2	116.5
45,0°	82.2	79.8	80.4	81.1	81.3	81.6	80.9
47,5°	56.5	57.6	57.2	57.7	57.6	57.9	57.5
50,0°	42.4	41.3	41.7	42.1	42.1	42.1	42.0
52,5°	32.0	31.8	31.7	32.2	32.5	32.7	32.7
55,0°	25.6	24.9	25.0	25.6	26.1	26.6	26.9
57,5°	20.6	20.3	20.3	20.8	21.4	22.1	22.4
60,0°	17.2	16.8	16.6	17.2	18.2	18.6	18.9
62,5°	14.5	14.3	13.9	14.3	15.3	15.8	16.0
65,0°	13.1	12.5	12.0	12.2	13.0	13.5	13.7
67,5°	11.1	10.9	10.3	10.4	11.4	11.4	11.5
70,0°	9.4	9.0	8.7	8.7	9.6	9.3	9.5
72,5°	7.6	7.5	7.3	7.2	7.3	7.4	7.8
75,0°	5.9	5.7	5.6	5.7	5.6	5.7	6.1
77,5°	4.1	4.1	4.1	4.2	4.1	4.2	4.5
80,0°	2.6	2.5	2.5	2.7	2.7	2.8	2.9
82,5°	1.1	1.2	1.2	1.3	1.5	1.5	1.7
85,0°	0.5	0.5	0.5	0.5	0.5	0.5	0.6
87,5°	0.2	0.3	0.3	0.3	0.3	0.3	0.3

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<b>Wertetabelle Lichtstärkemessung</b>	<b>Maximale Lichtstärke</b>	<b>siteco</b>
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C- Ebenen	52,5°	60,0°	67,5°	75,0°	82,5°	90,0°	Phi-Zone	Summe Phi-Zone
	127,5°	120,0°	112,5°	105,0°	97,5°			
	232,5°	240,0°	247,5°	255,0°	262,5°			
	307,5°	300,0°	292,5°	285,0°	277,5°	270,0°		
γ	Lichtstärke in cd/klm						Lichtstrom in lm/klm	
0,0°	791.0	791.0	791.0	791.0	791.0	791.0	1.2	1.2
2,5°	791.3	790.7	790.0	789.4	788.0	786.7	9.5	10.7
5,0°	794.2	790.9	788.1	786.0	783.2	781.9	19.1	29.7
7,5°	803.7	797.3	791.2	786.8	782.5	780.9	29.0	58.7
10,0°	816.7	808.7	801.4	796.1	791.2	788.9	39.5	98.2
12,5°	833.0	825.3	818.6	813.6	808.7	806.6	50.4	148.6
15,0°	850.7	844.9	836.9	832.9	831.6	829.0	61.4	210.0
17,5°	864.2	859.8	856.6	853.6	849.6	847.0	72.4	282.5
20,0°	864.8	860.1	856.9	853.9	850.4	848.0	82.3	364.7
22,5°	841.4	836.7	833.2	829.7	826.8	824.5	89.2	453.9
25,0°	786.0	782.5	779.1	775.6	772.9	771.0	91.6	545.4
27,5°	691.2	689.6	687.4	684.8	682.7	681.4	87.8	633.3
30,0°	578.6	579.1	578.3	576.4	575.3	574.3	79.6	712.9
32,5°	454.5	456.7	457.0	455.4	454.6	454.3	67.4	780.2
35,0°	335.0	337.7	338.0	336.6	336.0	336.2	53.3	833.5
37,5°	239.3	241.4	241.0	239.6	239.1	239.2	40.5	874.0
40,0°	166.2	166.4	164.7	163.3	162.9	163.0	29.6	903.6
42,5°	115.3	113.5	111.1	110.0	109.8	109.7	21.3	924.9
45,0°	79.0	76.9	75.1	74.3	74.0	73.9	15.2	940.1
47,5°	56.0	54.4	53.1	52.3	51.9	51.7	11.2	951.3
50,0°	40.9	39.8	38.8	38.0	37.5	37.4	8.5	959.8
52,5°	31.8	30.8	29.9	29.1	28.8	28.7	6.8	966.6
55,0°	25.9	25.0	24.2	23.4	23.2	23.3	5.6	972.3
57,5°	21.7	20.8	20.1	19.5	19.4	19.6	4.8	977.0
60,0°	18.6	18.0	17.1	16.6	16.8	17.1	4.2	981.2
62,5°	16.0	15.6	14.7	14.4	14.7	15.1	3.6	984.8
65,0°	14.0	13.6	12.8	12.7	13.1	13.5	3.2	988.1
67,5°	12.0	12.1	11.2	11.1	11.6	12.1	2.9	991.0
70,0°	9.8	10.4	9.7	9.7	10.2	10.6	2.5	993.4
72,5°	7.8	8.3	8.3	8.3	8.8	9.1	2.1	995.5
75,0°	6.2	6.3	6.8	6.9	7.3	7.6	1.6	997.1
77,5°	4.6	4.9	5.3	5.5	5.8	6.0	1.3	998.4
80,0°	3.1	3.4	3.7	4.0	4.2	4.4	0.9	999.2
82,5°	1.8	2.1	2.4	2.6	2.8	2.9	0.5	999.7
85,0°	0.7	1.0	1.2	1.3	1.6	1.6	0.2	1000.0
87,5°	0.3	0.3	0.3	0.3	0.4	0.4	0.1	1000.0

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UGR-Tabelle		Standardraum									
Raumabmessungen		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
x	y										
2H	2H	18,0	19,2	18,4	19,6	19,9	17,8	19,1	18,2	19,4	19,7
	3H	18,0	19,1	18,4	19,5	19,8	17,9	19,0	18,3	19,3	19,7
	4H	18,1	19,0	18,5	19,4	19,8	18,0	19,0	18,4	19,3	19,7
	6H	18,0	18,9	18,4	19,3	19,7	18,0	18,9	18,4	19,3	19,7
	8H	18,1	18,9	18,6	19,2	19,7	18,1	18,9	18,6	19,2	19,7
	12H	18,1	18,8	18,5	19,2	19,6	18,1	18,8	18,6	19,2	19,6
4H	2H	17,9	18,9	18,3	19,3	19,6	17,7	18,7	18,1	19,1	19,5
	3H	18,0	18,8	18,4	19,2	19,6	17,9	18,7	18,3	19,1	19,5
	4H	18,0	18,8	18,5	19,2	19,6	18,0	18,7	18,4	19,1	19,6
	6H	18,0	18,6	18,5	19,1	19,5	18,1	18,7	18,5	19,1	19,6
	8H	18,0	18,5	18,5	19,0	19,5	18,1	18,6	18,6	19,1	19,6
	12H	18,0	18,4	18,5	18,9	19,4	18,1	18,6	18,6	19,0	19,5
8H	4H	18,0	18,5	18,5	19,0	19,5	17,9	18,5	18,4	18,9	19,4
	6H	18,0	18,4	18,5	18,9	19,4	18,0	18,5	18,5	19,0	19,5
	8H	17,9	18,3	18,4	18,8	19,4	18,1	18,5	18,6	18,9	19,5
	12H	17,9	18,2	18,5	18,7	19,3	18,1	18,4	18,6	18,9	19,5
12H	4H	18,0	18,4	18,5	18,9	19,4	18,0	18,4	18,4	18,8	19,3
	6H	18,0	18,3	18,5	18,8	19,4	18,0	18,4	18,6	18,9	19,4
	8H	17,9	18,2	18,5	18,7	19,3	18,1	18,4	18,6	18,9	19,4

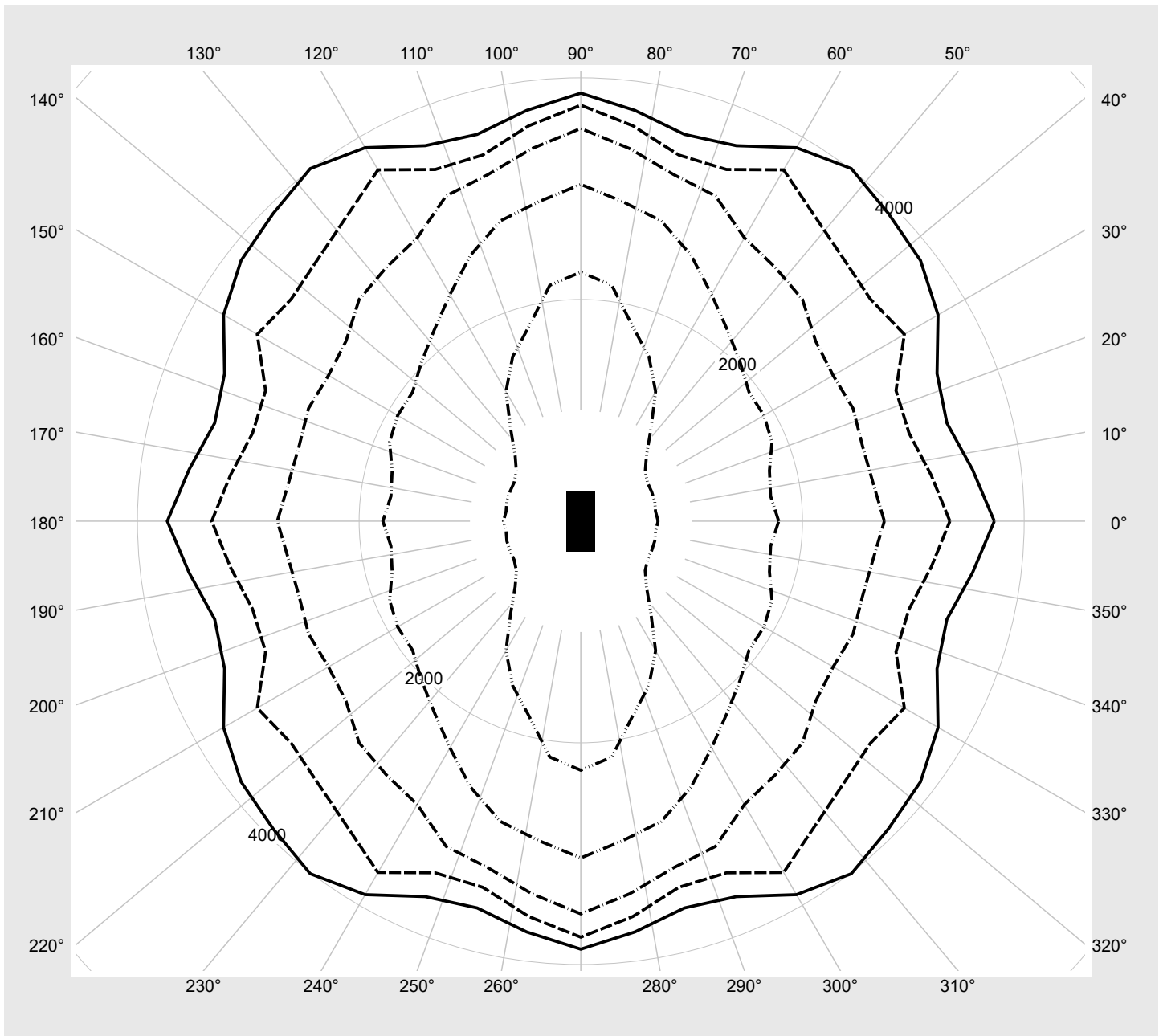
<b>Leuchtdichten-Tabelle</b>	Max. für $\gamma \geq 65^\circ$	Lichttechnische Abmessungen in mm: L = 852 B = 264
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C-Ebenen	$\gamma$	10,0°	20,0°	30,0°	40,0°	50,0°	60,0°	70,0°	80,0°	90,0°	
		170,0°	160,0°	150,0°	140,0°	130,0°	120,0°	110,0°	100,0°	90,0°	
		190,0°	200,0°	210,0°	220,0°	230,0°	240,0°	250,0°	260,0°	270,0°	
		180,0°	350,0°	340,0°	330,0°	320,0°	310,0°	300,0°	290,0°	280,0°	
		Leuchtdichte in cd/m <sup>2</sup>									
45,0°	14031.6	13597.3	13801.6	13878.3	13907.0	13597.6	13114.6	12755.7	12637.4	12602.6	
50,0°	7959.9	7740.5	7885.4	7903.5	7902.5	7752.6	7474.2	7225.8	7068.1	7012.7	
55,0°	5389.1	5231.5	5347.8	5484.4	5631.7	5523.9	5250.5	5031.2	4894.1	4910.8	
60,0°	4146.1	4026.6	4094.4	4383.4	4521.1	4513.7	4348.1	4081.8	4034.4	4118.9	
65,0°	3730.7	3513.9	3438.5	3721.6	3892.7	4003.8	3891.2	3629.9	3696.6	3861.8	
70,0°	3330.0	3145.0	3042.9	3370.5	3296.8	3420.5	3659.8	3405.8	3540.9	3753.3	
75,0°	2738.4	2643.5	2655.7	2628.9	2709.7	2864.0	2952.0	3214.7	3339.2	3543.1	
80,0°	1785.8	1728.7	1839.2	1908.1	1939.9	2120.6	2361.1	2670.3	2869.8	3038.6	
85,0°	697.8	680.2	691.6	695.0	759.9	957.9	1349.8	1680.8	2061.1	2246.9	

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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	27140	144.0
95	241	252	25789	136.5
90	228	250	24434	129.1
85	215	248	23074	121.6
80	202	246	21706	114.0
75	189	243	20338	106.8
70	176	241	18959	99.4
65	164	238	17690	92.7
60	151	235	16307	85.2
55	138	232	14921	77.9
50	125	228	13530	70.7
45	113	224	12238	63.9
40	100	220	10839	56.7
35	88	215	9538	50.0
30	75	209	8130	42.8
25	63	203	6821	36.2
20	50	194	5403	29.2
15	38	184	4087	22.5
10	25	169	2662	15.5
5	13	145	1339	8.6
2	5	110	457	4.0