

## Lichttechnischer Prüfbefund

**Familie**  
**Highbay 21**

**Bestell-Nr.: 52HN12DB3PDA**  
**EAN: 4069025445568**

**LP-Nummer**  
**59723\_242**



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

**Bestückung** LED 3000 K | CRI ≥ 80

**Betriebsgerät** EVG-DALI

**Einstellung** AC-Betrieb

**Bemessungswerte** Nettolichtstrom = 34690 lm  
Systemleistung = 197.7 W  
Lichtausbeute = 175.5 lm/W

**Seriendokumentation**  
**24.04.2025**

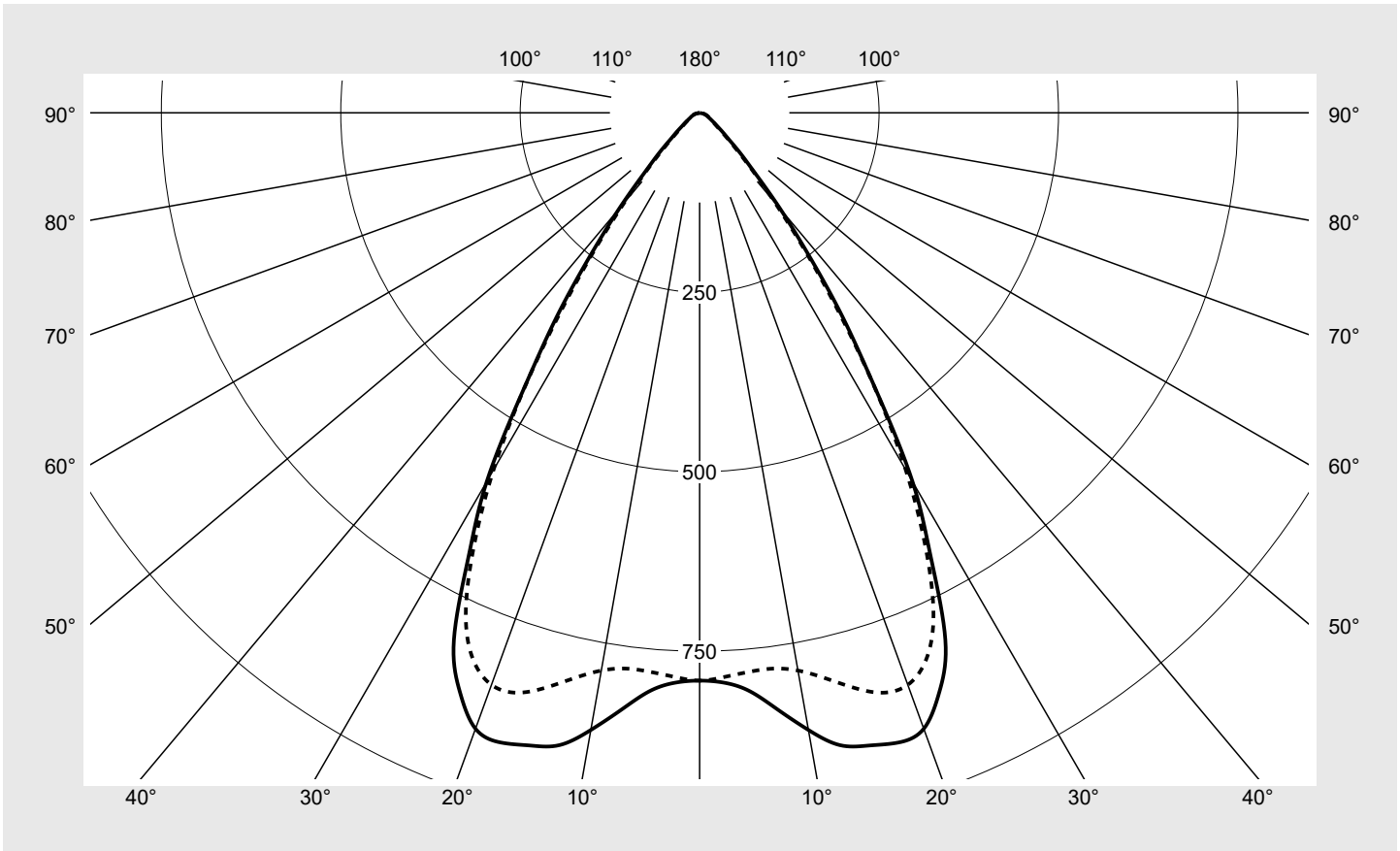
**siteco**

**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>
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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°	
γ		Lichtstärke in cd/klm						
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>

C- Ebenen	52,5° 127,5° 232,5° 307,5°	60,0° 120,0° 240,0° 300,0°	67,5° 112,5° 247,5° 292,5°	75,0° 105,0° 255,0° 285,0°	82,5° 97,5° 262,5° 277,5°	90,0° 270,0°	Phi-Zone	Summe Phi-Zone
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	18,9	20,1	19,2	20,4	20,7	18,7	19,9	19,0	20,2	20,5
	3H	18,9	20,0	19,3	20,3	20,7	18,8	19,8	19,1	20,2	20,5
	4H	18,9	19,9	19,3	20,3	20,6	18,8	19,8	19,2	20,2	20,5
	6H	18,9	19,8	19,3	20,2	20,5	18,9	19,7	19,3	20,1	20,5
	8H	19,0	19,7	19,4	20,1	20,5	19,0	19,7	19,4	20,1	20,5
	12H	19,0	19,6	19,4	20,0	20,4	19,0	19,6	19,4	20,0	20,5
4H	2H	18,8	19,8	19,2	20,1	20,5	18,6	19,6	19,0	19,9	20,3
	3H	18,8	19,7	19,3	20,1	20,5	18,7	19,6	19,2	19,9	20,4
	4H	18,9	19,6	19,3	20,0	20,5	18,8	19,6	19,3	20,0	20,4
	6H	18,9	19,5	19,3	19,9	20,4	18,9	19,5	19,4	20,0	20,4
	8H	18,9	19,4	19,3	19,8	20,3	18,9	19,5	19,4	19,9	20,4
	12H	18,9	19,3	19,4	19,8	20,3	19,0	19,4	19,5	19,9	20,4
8H	4H	18,8	19,4	19,3	19,8	20,3	18,8	19,3	19,3	19,8	20,3
	6H	18,8	19,3	19,3	19,8	20,3	18,9	19,3	19,4	19,8	20,3
	8H	18,8	19,2	19,3	19,7	20,2	18,9	19,3	19,4	19,8	20,3
	12H	18,8	19,1	19,3	19,6	20,1	19,0	19,3	19,5	19,8	20,3
12H	4H	18,9	19,3	19,4	19,7	20,2	18,8	19,2	19,3	19,7	20,2
	6H	18,8	19,2	19,4	19,7	20,2	18,9	19,2	19,4	19,7	20,3
	8H	18,8	19,1	19,3	19,6	20,1	18,9	19,2	19,4	19,7	20,3

<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°				
		180,0°	190,0°	200,0°	210,0°	220,0°	230,0°	240,0°	250,0°	260,0°	270,0°	280,0°	290,0°	300,0°
		Leuchtdichte in cd/m <sup>2</sup>												
45,0°		17935.0	17379.9	17641.1	17739.1	17775.7	17380.3	16762.9	16304.2	16153.0	16108.5			
50,0°		10174.2	9893.8	10079.1	10102.2	10100.8	9909.3	9553.5	9236.0	9034.3	8963.5			
55,0°		6888.3	6686.8	6835.6	7010.1	7198.4	7060.5	6711.1	6430.8	6255.6	6276.9			
60,0°		5299.6	5146.8	5233.4	5602.8	5778.9	5769.3	5557.7	5217.3	5156.7	5264.7			
65,0°		4768.6	4491.4	4395.0	4756.9	4975.6	5117.6	4973.7	4639.6	4724.9	4936.1			
70,0°		4256.3	4019.8	3889.4	4308.2	4213.9	4372.0	4677.9	4353.3	4526.0	4797.4			
75,0°		3500.2	3378.9	3394.5	3360.2	3463.5	3660.7	3773.2	4109.0	4268.1	4528.7			
80,0°		2282.6	2209.5	2350.9	2438.9	2479.5	2710.5	3018.0	3413.1	3668.2	3883.9			
85,0°		891.9	869.4	884.0	888.3	971.3	1224.3	1725.3	2148.4	2634.5	2872.0			

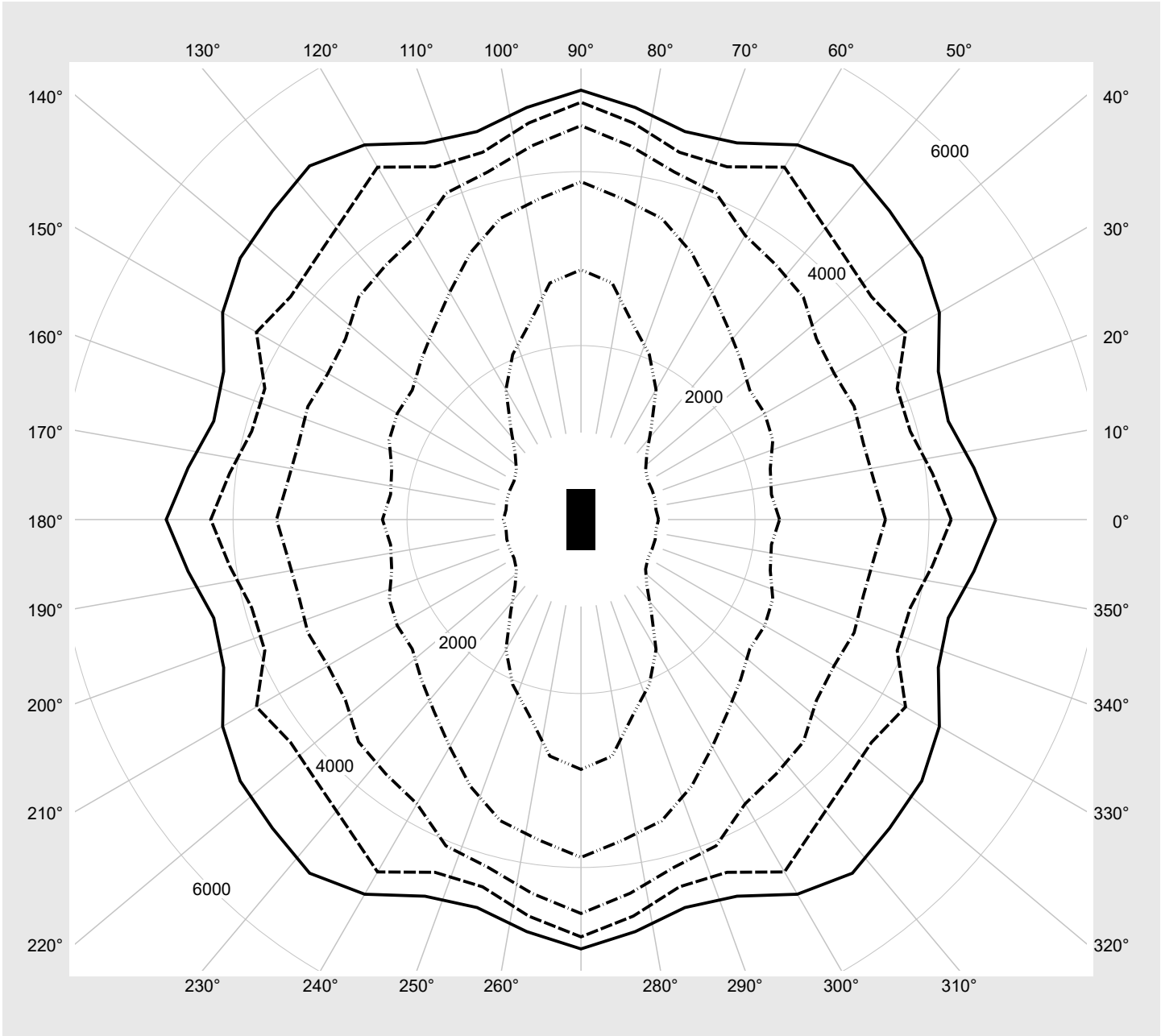
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**Leuchtdichten in cd/m<sup>2</sup>**

$\gamma$ 65°	$\gamma$ 70°	$\gamma$ 75°	$\gamma$ 80°	$\gamma$ 85°
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**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	34690	197.7
95	241	252	32999	187.3
90	227	250	31166	176.3
85	214	248	29452	166.1
80	201	245	27725	155.8
75	188	243	25993	145.8
70	175	240	24246	135.6
65	162	238	22493	125.5
60	150	235	20867	116.2
55	137	231	19099	106.1
50	124	228	17330	96.3
45	111	224	15543	86.3
40	99	219	13881	77.2
35	86	214	12075	67.3
30	74	209	10403	58.3
25	62	202	8721	49.1
20	49	194	6888	39.5
15	37	183	5191	30.6
10	25	169	3487	21.8
5	13	145	1772	12.5
1	4	102	484	5.4