

## Lichttechnischer Prüfbefund

**Familie**  
Highbay 21

**Bestell-Nr.:** 52HN11DB5LDA  
**EAN:** 4069025445230

**LP-Nummer**  
59724\_234



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

**Bestückung** LED 5000 K | CRI ≥ 80

**Betriebsgerät** EVG-DALI

**Einstellung** AC-Betrieb

**Bemessungswerte** Nettolichtstrom = 27240 lm  
Systemleistung = 144.0 W  
Lichtausbeute = 189.2 lm/W

**Seriendokumentation**  
24.04.2025

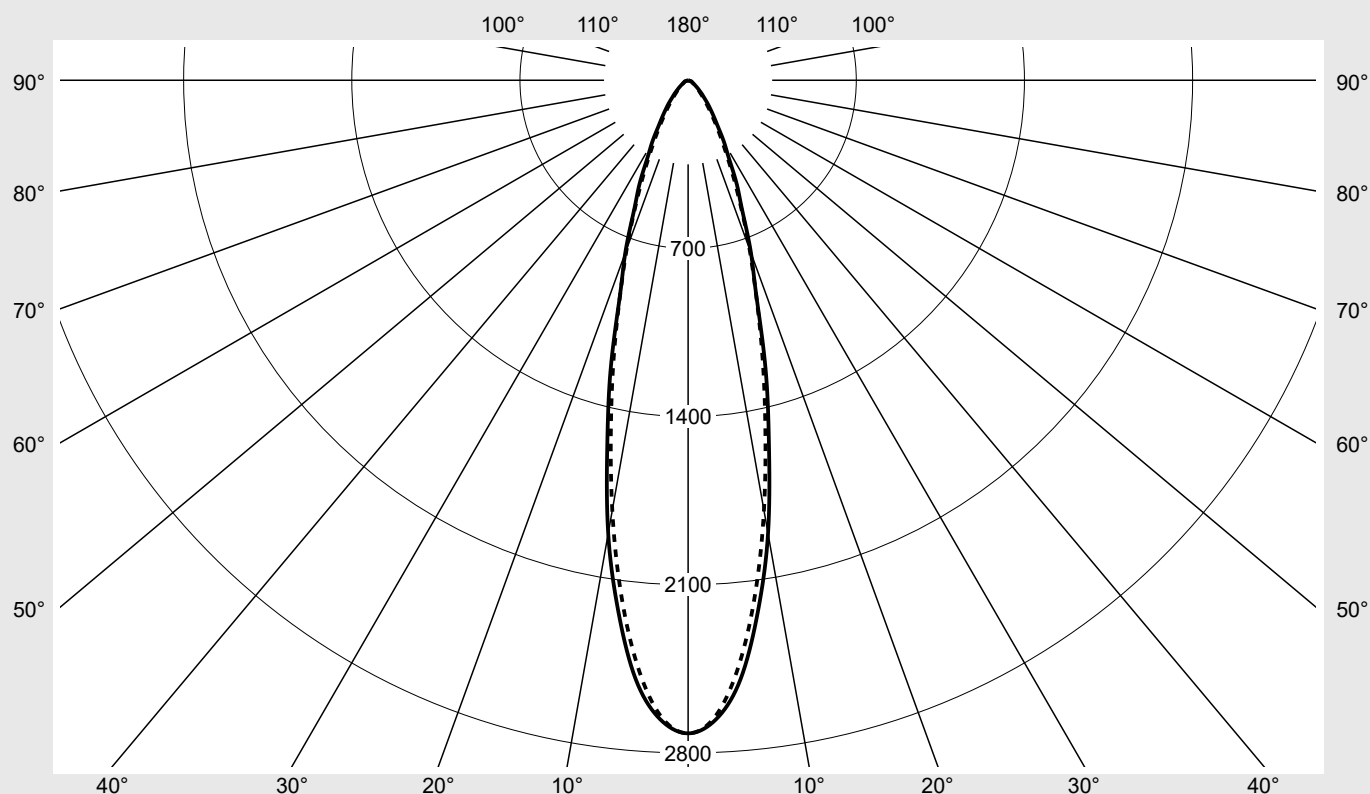
siteco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 2719 cd/klm



#### Klassifizierungen

DIN 5040 A 7 0  
CIE N1=89 N2=97 N3=99  
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°	2718.5	2718.5	2718.5	2718.5	2718.5	2718.5	2718.5	
2,5°	2662.8	2671.1	2671.1	2670.6	2667.6	2663.3	2662.4	
5,0°	2502.8	2490.9	2498.0	2494.5	2487.6	2479.1	2473.3	
7,5°	2228.4	2233.8	2227.9	2223.2	2214.7	2203.4	2194.2	
10,0°	1915.8	1894.8	1902.8	1897.9	1890.8	1880.8	1870.9	
12,5°	1554.6	1560.7	1554.3	1552.6	1548.0	1540.2	1531.7	
15,0°	1246.2	1237.0	1237.4	1238.4	1237.7	1233.9	1229.0	
17,5°	947.1	964.7	959.6	960.0	960.5	959.5	958.4	
20,0°	765.0	752.2	754.6	751.6	749.0	747.8	747.5	
22,5°	591.2	598.6	590.3	583.2	577.5	573.8	572.1	
25,0°	481.4	472.8	470.4	460.9	451.8	445.8	443.1	
27,5°	370.5	376.3	371.1	363.9	355.1	347.9	344.8	
30,0°	301.2	297.9	295.0	290.6	284.7	279.0	275.2	
32,5°	234.8	237.8	234.9	232.8	229.2	225.3	220.4	
35,0°	189.2	188.5	187.7	186.9	184.4	180.6	175.3	
37,5°	154.0	153.7	151.7	151.0	148.4	144.9	141.0	
40,0°	125.7	123.3	123.0	121.9	119.1	115.8	113.2	
42,5°	99.2	100.3	99.3	98.6	95.9	92.9	90.7	
45,0°	81.4	79.6	79.7	79.0	77.2	74.6	72.7	
47,5°	64.2	64.9	64.5	64.0	62.8	60.9	59.5	
50,0°	52.5	51.6	51.8	51.7	51.0	49.9	49.1	
52,5°	41.7	41.9	41.8	42.1	41.9	41.4	40.9	
55,0°	33.9	33.5	34.1	34.8	35.0	35.0	34.7	
57,5°	27.1	27.4	28.1	29.2	29.7	29.7	29.6	
60,0°	22.3	22.3	23.0	24.6	25.8	25.8	25.5	
62,5°	19.0	19.2	19.6	20.7	22.4	22.3	22.0	
65,0°	17.0	16.8	17.2	18.3	19.8	19.1	19.1	
67,5°	14.7	14.8	14.9	16.1	17.2	16.3	16.1	
70,0°	12.8	12.5	12.6	13.8	14.3	13.8	13.9	
72,5°	11.3	11.1	10.9	11.6	11.4	11.2	11.7	
75,0°	9.7	9.3	8.9	9.6	9.3	9.1	9.3	
77,5°	7.4	7.4	7.1	7.5	7.1	6.8	7.1	
80,0°	4.9	4.7	4.8	4.8	4.5	4.5	4.8	
82,5°	2.2	2.3	2.3	2.4	2.4	2.5	2.7	
85,0°	0.8	0.8	0.8	0.8	0.8	0.9	1.0	
87,5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	

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<b>Wertetabelle Lichtstärkemessung</b>		<b>Maximale Lichtstärke</b>
		<b>siteco</b>

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°		
$\gamma$	Lichtstärke in cd/klm						Lichtstrom in lm/klm	
0,0°	2718.5	2718.5	2718.5	2718.5	2718.5	2718.5	4.1	4.1
2,5°	2661.4	2660.0	2657.7	2657.0	2651.0	2647.2	31.8	35.9
5,0°	2468.0	2461.9	2456.3	2452.9	2444.7	2440.4	59.1	95.0
7,5°	2185.5	2176.0	2168.0	2162.0	2152.6	2148.3	78.5	173.5
10,0°	1860.3	1847.8	1837.7	1831.0	1822.1	1817.6	88.9	262.4
12,5°	1522.0	1510.4	1500.7	1495.5	1488.9	1485.2	90.6	353.0
15,0°	1223.0	1215.3	1207.9	1204.2	1200.8	1197.6	86.8	439.8
17,5°	955.3	949.4	945.6	944.9	945.8	944.0	78.6	518.5
20,0°	745.4	741.8	741.4	743.7	748.0	747.7	70.2	588.6
22,5°	571.4	571.2	573.5	575.9	579.7	580.1	60.8	649.4
25,0°	443.2	444.5	446.3	448.3	449.2	448.8	52.5	701.9
27,5°	344.0	344.5	345.1	346.1	344.9	343.6	44.7	746.7
30,0°	273.7	273.8	273.9	272.4	270.2	268.2	38.5	785.2
32,5°	217.7	217.2	215.9	213.7	211.0	209.4	32.9	818.1
35,0°	172.5	170.5	168.2	166.4	165.0	164.5	27.8	845.9
37,5°	138.1	135.6	133.3	132.0	130.7	130.3	23.7	869.5
40,0°	110.2	108.1	106.1	104.8	103.7	103.1	20.0	889.6
42,5°	88.5	86.8	85.0	83.9	83.2	82.7	16.9	906.5
45,0°	71.2	69.8	68.4	67.3	66.9	66.6	14.2	920.7
47,5°	58.5	57.3	56.0	55.1	54.8	54.6	12.1	932.8
50,0°	48.3	47.1	46.0	45.5	45.1	44.8	10.3	943.0
52,5°	40.2	39.3	38.3	37.7	37.1	36.8	8.7	951.8
55,0°	34.1	33.4	32.5	31.7	31.0	30.7	7.5	959.3
57,5°	29.3	29.0	28.2	27.0	26.3	26.1	6.6	965.9
60,0°	25.7	25.8	24.8	23.5	22.8	22.6	5.8	971.6
62,5°	22.4	22.9	21.8	20.7	20.1	19.9	5.1	976.8
65,0°	19.6	20.2	19.7	18.4	17.9	17.8	4.6	981.4
67,5°	16.7	17.6	17.8	16.4	16.0	16.0	4.1	985.5
70,0°	14.1	15.0	15.6	14.4	14.4	14.6	3.6	989.1
72,5°	11.7	12.4	13.4	12.9	13.2	13.4	3.1	992.3
75,0°	9.5	10.4	12.0	11.4	11.8	11.9	2.7	995.0
77,5°	7.2	8.1	9.6	9.6	10.0	10.2	2.1	997.1
80,0°	5.1	5.7	7.0	7.5	7.6	8.0	1.5	998.6
82,5°	3.0	3.6	4.5	5.0	5.3	5.6	0.9	999.5
85,0°	1.2	1.7	2.3	2.7	3.1	3.3	0.4	999.9
87,5°	0.4	0.4	0.5	0.6	0.8	0.9	0.1	1000.1

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UGR-Tabelle		Standardraum									
Raumabmessungen		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
x	y										
2H	2H	16,3	17,4	16,6	17,7	18,0	15,7	16,9	16,1	17,2	17,5
	3H	16,7	17,7	17,1	18,0	18,4	16,4	17,4	16,8	17,7	18,1
	4H	16,9	17,8	17,3	18,2	18,6	16,8	17,7	17,2	18,1	18,4
	6H	17,1	17,9	17,5	18,3	18,7	17,2	18,0	17,6	18,4	18,8
	8H	17,2	17,9	17,6	18,2	18,7	17,4	18,1	17,9	18,5	18,9
	12H	17,2	17,8	17,6	18,2	18,6	17,5	18,1	18,0	18,5	18,9
4H	2H	16,4	17,3	16,8	17,7	18,1	16,0	16,9	16,4	17,2	17,6
	3H	17,0	17,8	17,5	18,2	18,6	16,8	17,6	17,2	18,0	18,4
	4H	17,3	18,0	17,8	18,4	18,9	17,4	18,0	17,8	18,4	18,9
	6H	17,6	18,1	18,0	18,6	19,0	17,9	18,5	18,4	18,9	19,4
	8H	17,6	18,1	18,1	18,5	19,0	18,1	18,6	18,6	19,0	19,5
	12H	17,6	18,0	18,1	18,5	19,0	18,2	18,6	18,7	19,1	19,6
8H	4H	17,4	17,9	17,9	18,4	18,9	17,5	17,9	17,9	18,4	18,9
	6H	17,7	18,1	18,2	18,6	19,1	18,1	18,5	18,6	18,9	19,5
	8H	17,7	18,1	18,2	18,6	19,1	18,3	18,6	18,8	19,1	19,7
	12H	17,7	18,0	18,2	18,5	19,1	18,5	18,7	19,0	19,3	19,8
12H	4H	17,5	17,9	18,0	18,3	18,8	17,5	17,9	18,0	18,3	18,8
	6H	17,7	18,0	18,2	18,5	19,1	18,1	18,4	18,6	18,9	19,4
	8H	17,8	18,0	18,3	18,5	19,1	18,3	18,6	18,8	19,1	19,6

## Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$

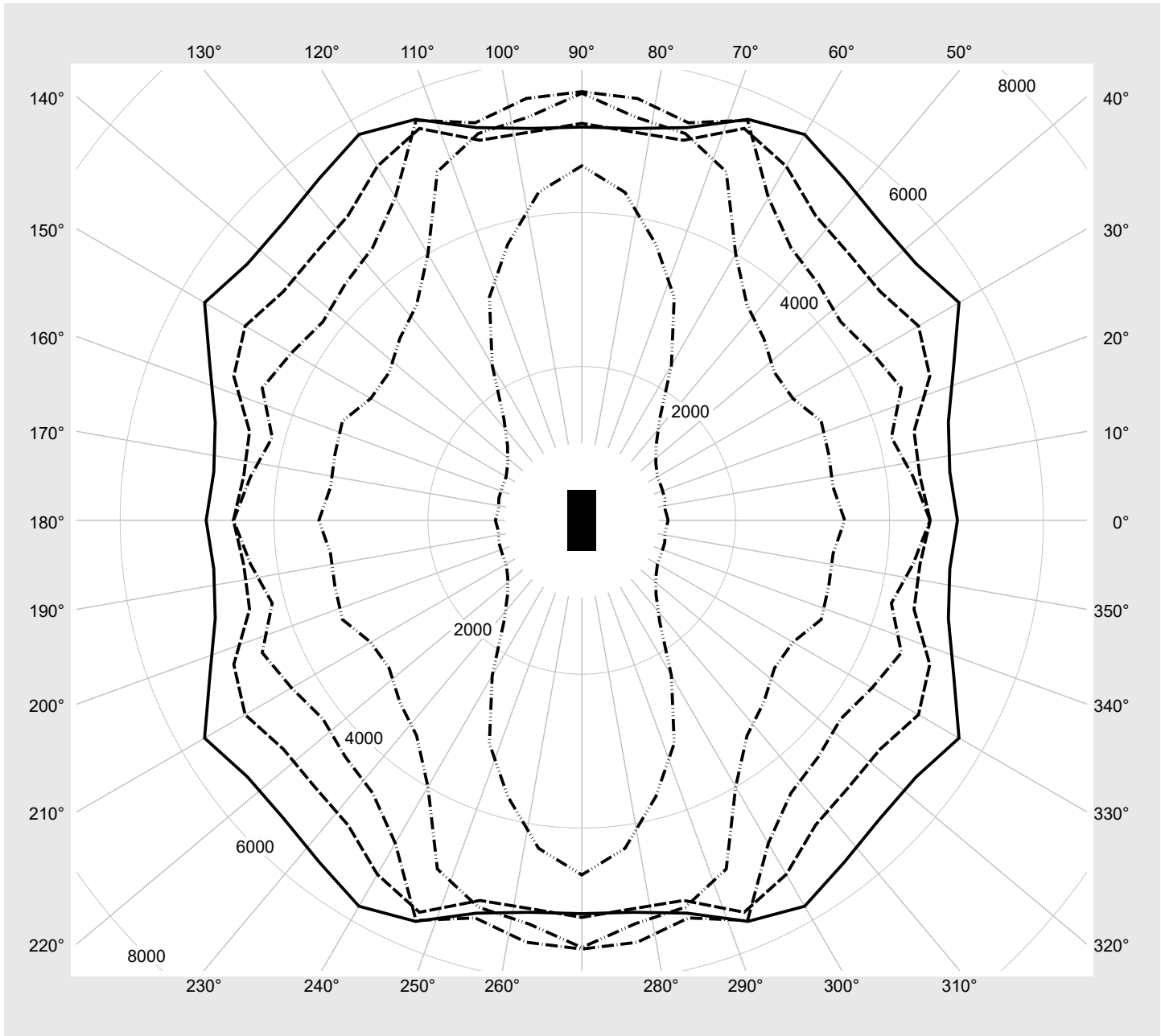
Lichttechnische Abmessungen in mm: L = 852, B = 264

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°	
		350,0°	340,0°	330,0°	320,0°	310,0°	300,0°	290,0°	280,0°	270,0°	
		Leuchtdichte in cd/m <sup>2</sup>									
45,0°	13939.9	13608.5	13590.3	13223.8	12654.8	12277.5	11961.3	11643.7	11478.6	11402.7	
50,0°	9881.9	9716.8	9759.6	9606.9	9348.3	9166.1	8875.1	8621.6	8516.1	8434.8	
55,0°	7158.3	7090.1	7305.7	7400.1	7367.1	7237.7	7058.0	6806.9	6577.2	6490.9	
60,0°	5408.3	5442.7	5833.5	6260.4	6221.3	6209.5	6252.4	5919.3	5569.4	5479.8	
65,0°	4882.4	4841.8	5116.5	5661.0	5458.2	5554.7	5792.5	5547.0	5174.5	5113.1	
70,0°	4528.1	4429.6	4783.7	5052.8	4873.0	4936.8	5314.5	5448.1	5090.0	5160.8	
75,0°	4526.1	4283.3	4437.4	4356.3	4252.0	4397.8	4848.1	5654.8	5486.9	5572.9	
80,0°	3416.7	3287.1	3379.8	3168.4	3197.0	3434.5	3999.7	5072.8	5242.4	5552.8	
85,0°	1122.7	1094.0	1118.6	1135.2	1255.4	1522.9	2328.9	3357.4	4136.6	4609.1	

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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	27240	144.0
95	241	252	25884	136.5
90	228	250	24524	129.1
85	215	248	23159	121.6
80	202	246	21786	114.0
75	189	243	20413	106.8
70	176	241	19030	99.4
65	164	238	17755	92.7
60	151	235	16368	85.2
55	138	232	14977	77.9
50	125	228	13581	70.7
45	113	224	12283	63.9
40	100	220	10879	56.7
35	88	215	9574	50.0
30	75	209	8160	42.8
25	63	203	6846	36.2
20	50	194	5424	29.2
15	38	184	4102	22.5
10	25	169	2672	15.5
5	13	145	1344	8.6
2	5	110	459	4.0