

Lichttechnischer Prüfbefund

Familie
Highbay 21

Bestell-Nr.: 52HN11DB4MDA
EAN: 4069025394644

LP-Nummer
59724_18



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

Bestückung LED 4000 K | CRI ≥ 80

Betriebsgerät EVG-DALI

Einstellung AC-Betrieb

Bemessungswerte Nettolichtstrom = 28000 lm
Systemleistung = 144.0 W
Lichtausbeute = 194.5 lm/W

Seriendokumentation
24.02.2025

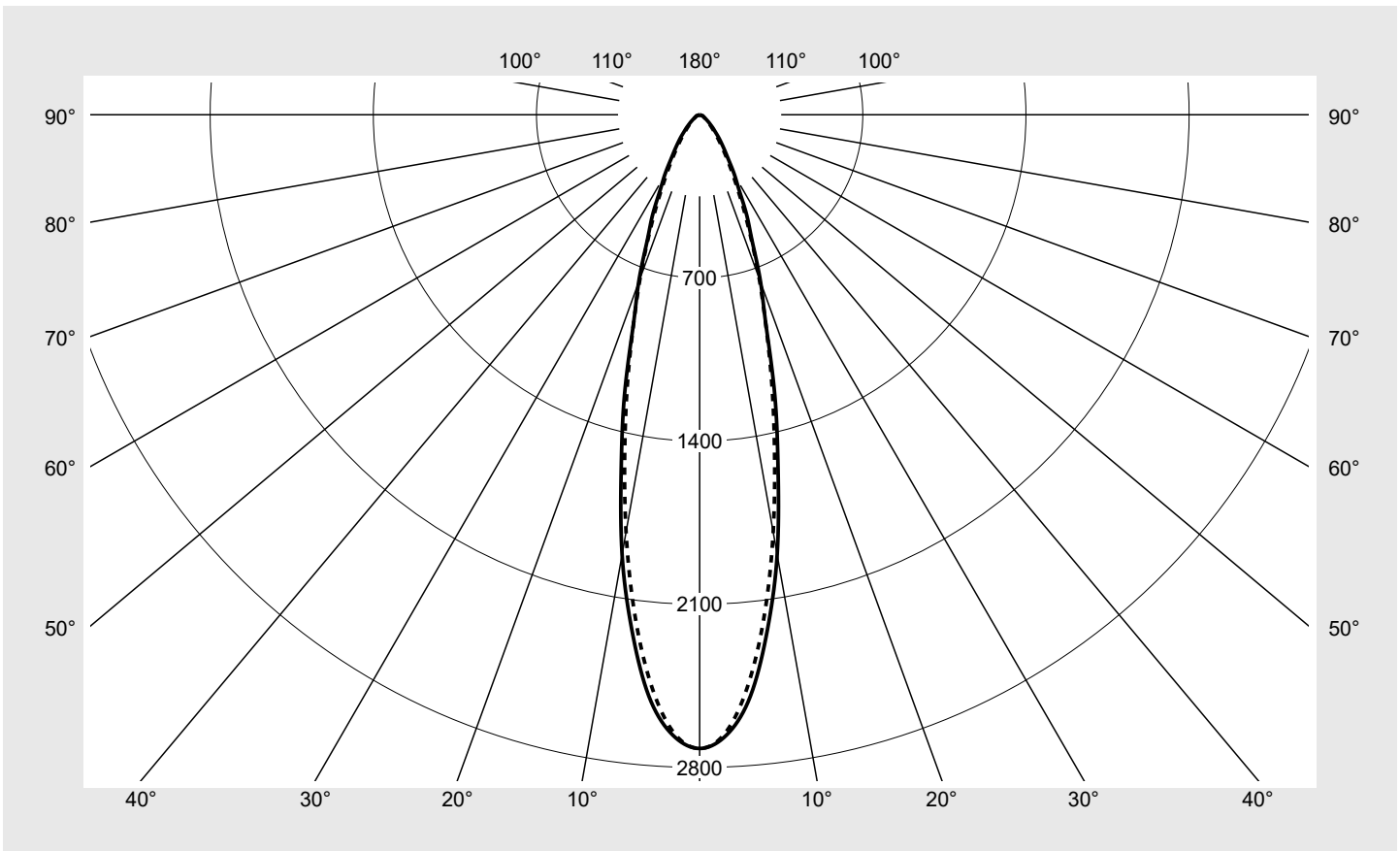
siteco

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

η_{LB} 100,0%
 ϕ_u 100,0%
 ϕ_o 0,0%

Messbedingungen

DIN EN 13032 und DIN 5032

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Wertetabelle Lichtstärkemessung		Maximale Lichtstärke
		siteco

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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Wertetabelle Lichtstärkemessung	Maximale Lichtstärke	sITeco
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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°	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									
		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
Raumabmessungen											
x	y										
2H	2H	16,4	17,5	16,7	17,8	18,1	15,8	17,0	16,2	17,3	17,6
	3H	16,8	17,8	17,2	18,1	18,5	16,5	17,5	16,9	17,8	18,2
	4H	17,0	17,9	17,4	18,3	18,7	16,9	17,8	17,3	18,2	18,5
	6H	17,2	18,0	17,6	18,4	18,8	17,3	18,1	17,7	18,5	18,9
	8H	17,3	18,0	17,7	18,3	18,7	17,5	18,2	18,0	18,6	19,0
	12H	17,3	17,9	17,7	18,3	18,7	17,6	18,2	18,0	18,6	19,0
4H	2H	16,5	17,4	16,9	17,8	18,2	16,1	17,0	16,5	17,3	17,7
	3H	17,1	17,9	17,6	18,3	18,7	16,9	17,7	17,3	18,1	18,5
	4H	17,4	18,1	17,9	18,5	19,0	17,5	18,1	17,9	18,5	19,0
	6H	17,7	18,2	18,1	18,7	19,1	18,0	18,5	18,5	19,0	19,5
	8H	17,7	18,2	18,2	18,6	19,1	18,2	18,7	18,7	19,1	19,6
	12H	17,7	18,1	18,2	18,6	19,1	18,3	18,7	18,8	19,2	19,7
8H	4H	17,5	18,0	18,0	18,5	19,0	17,6	18,0	18,0	18,5	19,0
	6H	17,8	18,2	18,3	18,7	19,2	18,2	18,6	18,7	19,0	19,5
	8H	17,8	18,2	18,3	18,7	19,2	18,4	18,7	18,9	19,2	19,8
	12H	17,8	18,1	18,3	18,6	19,2	18,6	18,8	19,1	19,3	19,9
12H	4H	17,6	18,0	18,0	18,4	18,9	17,6	18,0	18,0	18,4	18,9
	6H	17,8	18,1	18,3	18,6	19,2	18,2	18,5	18,7	19,0	19,5
	8H	17,8	18,1	18,4	18,6	19,2	18,4	18,7	18,9	19,2	19,7

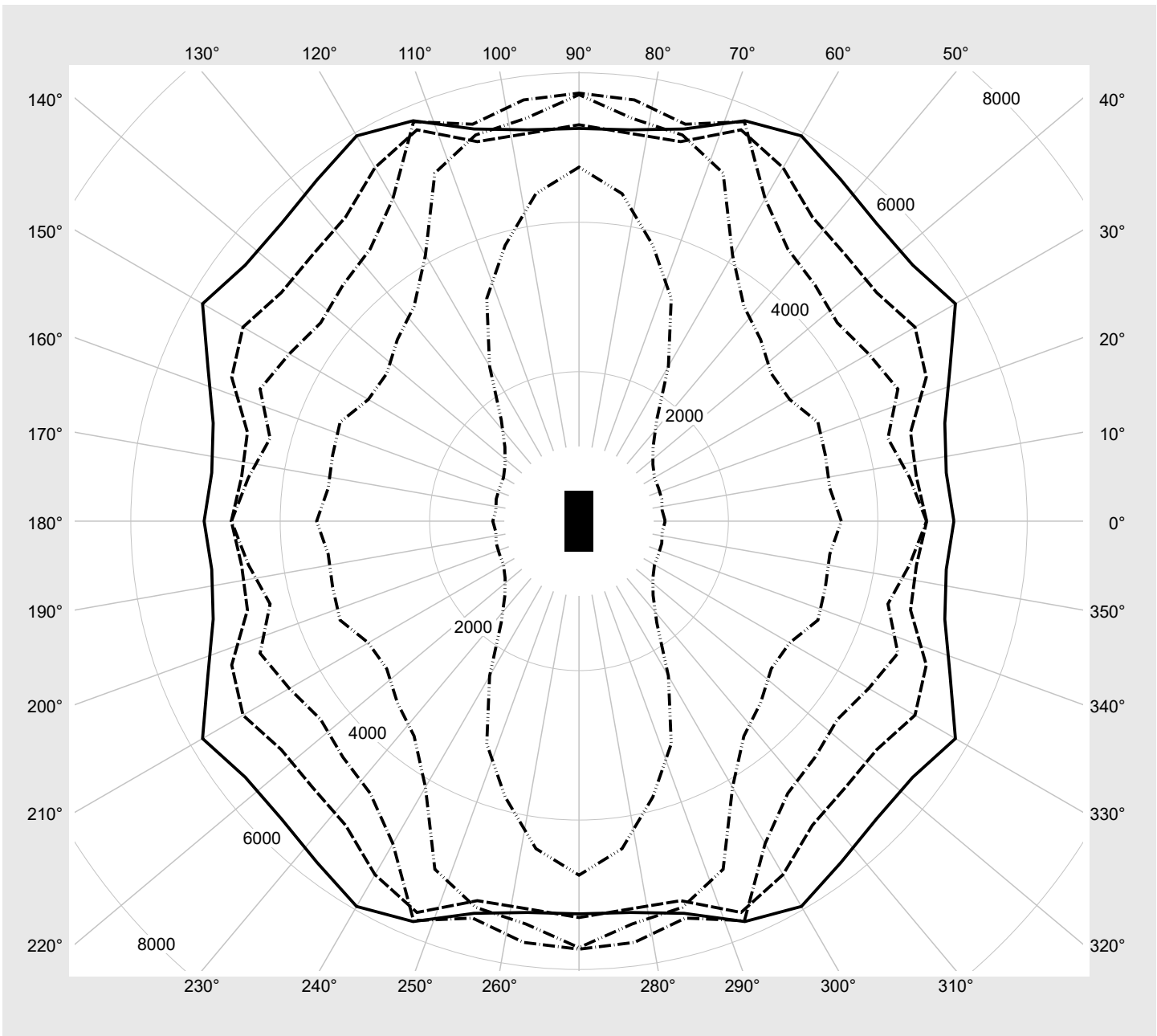
Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$	Lichttechnische Abmessungen in mm: L = 852 B = 264
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C- Ebenen	γ	10,0°	20,0°	30,0°	40,0°	50,0°	60,0°	70,0°	80,0°	90,0°	
		170,0°	160,0°	150,0°	140,0°	130,0°	120,0°	110,0°	100,0°	90,0°	
		190,0°	200,0°	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/m²									
45,0°	14328.8	13988.2	13969.5	13592.8	13007.9	12620.0	12295.0	11968.6	11798.9	11720.9	
50,0°	10157.6	9987.9	10031.9	9874.9	9609.1	9421.9	9122.7	8862.2	8753.7	8670.1	
55,0°	7358.0	7287.9	7509.5	7606.5	7572.7	7439.7	7254.9	6996.9	6760.7	6672.0	
60,0°	5559.2	5594.5	5996.2	6435.1	6394.9	6382.7	6426.9	6084.5	5724.8	5632.7	
65,0°	5018.6	4976.9	5259.2	5818.9	5610.5	5709.7	5954.1	5701.8	5318.8	5255.7	
70,0°	4654.4	4553.2	4917.1	5193.8	5009.0	5074.6	5462.8	5600.1	5232.0	5304.8	
75,0°	4652.4	4402.9	4561.2	4477.8	4370.6	4520.5	4983.3	5812.5	5640.0	5728.4	
80,0°	3512.0	3378.8	3474.1	3256.8	3286.2	3530.3	4111.3	5214.3	5388.7	5707.8	
85,0°	1154.1	1124.5	1149.8	1166.9	1290.4	1565.4	2393.8	3451.1	4252.0	4737.7	

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Leuchtdichten in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**



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Dimmstufen-Tabelle	Umgebungstemperatur: 25°C	sITeco
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Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [W]
100	----	----	----	----
95	241	252	26607	136.5
90	228	250	25210	129.1
85	215	248	23807	121.6
80	202	246	22396	114.0
75	189	243	20985	106.8
70	176	241	19564	99.4
65	164	238	18254	92.7
60	151	235	16828	85.2
55	138	232	15398	77.9
50	125	228	13963	70.7
45	113	224	12629	63.9
40	100	220	11186	56.7
35	88	215	9845	50.0
30	75	209	8391	42.8
25	63	203	7039	36.2
20	50	194	5577	29.2
15	38	184	4219	22.5
10	25	169	2748	15.5
5	13	145	1382	8.6
2	5	110	472	4.0