

Photometric test report

Family
Highbay 21

Order number: 52HN11DB4RDA
EAN: 4069025256676

LP number
59724_26

serial
documentation
24.02.2025

siteco



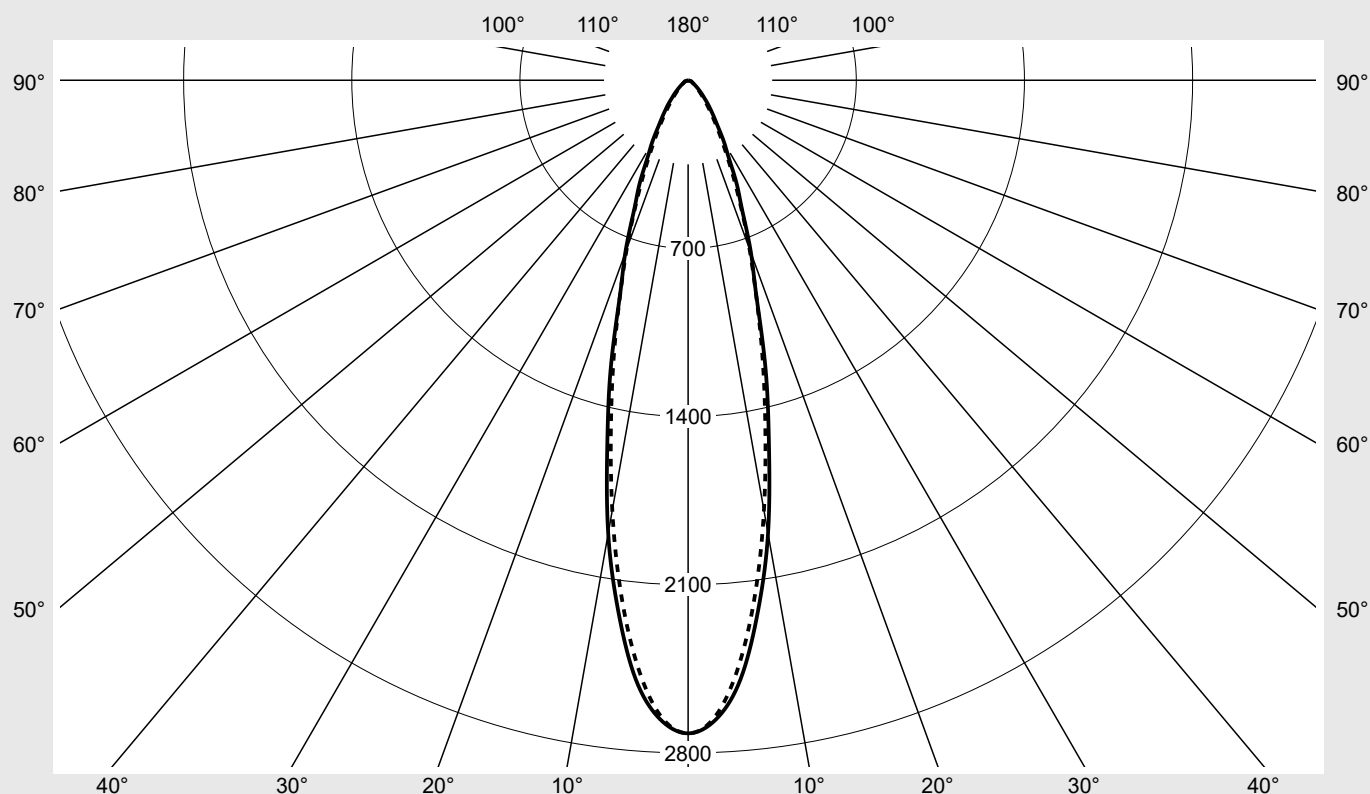
Version primary light control with lens, PMMA, housing, white, narrow distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI
Setting AC-mode
Rated values Net luminous flux = 45000 lm
Power consumption = 239.3 W
Luminous efficacy = 188.1 lm/W

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 2719 cd/klm



Classifications

DIN 5040 A 7 0
CIE N1=89 N2=97 N3=99
N4=100 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 100.0%
 ϕ_o 0.0%

Measurement conditions

DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		Maximum luminous intensity

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C- planes	0,0° 180,0°	7,5° 172,5° 187,5° 352,5°	15,0° 165,0° 195,0° 345,0°	22,5° 157,5° 202,5° 337,5°	30,0° 150,0° 210,0° 330,0°	37,5° 142,5° 217,5° 322,5°	45,0° 135,0° 225,0° 315,0°
		Luminous intensity in cd/klm					
γ							
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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Table of values for luminous intensities		Maximum luminous intensity

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C- planes	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	Total Phi-zone
γ	Luminous intensity in cd/klm						Luminous flux 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-Table			Standard room							siteco	
Reflection factor of ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
Reflection factor of walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
Reflection factor of floor	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions		View crosswise (C0)					View endwise (C90)				
x	y										
2H	2H	18.0	19.2	18.4	19.5	19.8	17.5	18.6	17.8	18.9	19.2
	3H	18.4	19.4	18.8	19.8	20.1	18.1	19.1	18.5	19.5	19.8
	4H	18.7	19.6	19.1	19.9	20.3	18.5	19.4	18.9	19.8	20.2
	6H	18.8	19.6	19.3	20.0	20.4	19.0	19.8	19.4	20.1	20.5
	8H	18.9	19.6	19.4	20.0	20.4	19.2	19.9	19.6	20.2	20.6
	12H	18.9	19.5	19.3	19.9	20.3	19.3	19.9	19.7	20.3	20.7
4H	2H	18.2	19.1	18.6	19.4	19.8	17.7	18.6	18.1	19.0	19.3
	3H	18.8	19.5	19.2	19.9	20.3	18.6	19.3	19.0	19.7	20.1
	4H	19.1	19.8	19.5	20.2	20.6	19.1	19.8	19.5	20.2	20.6
	6H	19.3	19.9	19.8	20.3	20.8	19.6	20.2	20.1	20.6	21.1
	8H	19.4	19.8	19.8	20.3	20.8	19.8	20.3	20.3	20.8	21.3
	12H	19.3	19.7	19.8	20.2	20.7	20.0	20.4	20.5	20.8	21.3
8H	4H	19.2	19.7	19.7	20.1	20.6	19.2	19.7	19.7	20.1	20.6
	6H	19.5	19.9	20.0	20.3	20.9	19.8	20.2	20.3	20.7	21.2
	8H	19.5	19.8	20.0	20.3	20.9	20.0	20.4	20.5	20.9	21.4
	12H	19.5	19.7	20.0	20.3	20.8	20.2	20.5	20.7	21.0	21.5
12H	4H	19.2	19.6	19.7	20.1	20.6	19.2	19.6	19.7	20.1	20.6
	6H	19.5	19.8	20.0	20.3	20.8	19.8	20.1	20.3	20.6	21.1
	8H	19.5	19.8	20.0	20.3	20.8	20.0	20.3	20.6	20.8	21.4

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:				L = 852 B = 264		
C-planes	0,0° 180,0°	10,0° 170,0° 190,0° 350,0°	20,0° 160,0° 200,0° 340,0°	30,0° 150,0° 210,0° 330,0°	40,0° 140,0° 220,0° 320,0°	50,0° 130,0° 230,0° 310,0°	60,0° 120,0° 240,0° 300,0°	70,0° 110,0° 250,0° 290,0°	80,0° 100,0° 260,0° 280,0°	90,0° 270,0°
		Luminance in cd/m²								
γ										
45,0°		23028.5	22481.0	22451.0	21845.6	20905.5	20282.2	19759.8	19235.2	18962.5
50,0°		16324.8	16052.0	16122.7	15870.4	15443.2	15142.3	14661.5	14242.7	14068.5
55,0°		11825.4	11712.7	12068.9	12224.8	12170.4	11956.6	11659.7	11245.0	10865.4
60,0°		8934.5	8991.2	9636.8	10342.1	10277.5	10257.9	10328.9	9778.6	9200.5
65,0°		8065.6	7998.5	8452.3	9351.9	9016.9	9176.2	9569.1	9163.6	8548.1
70,0°		7480.3	7317.7	7902.5	8347.2	8050.2	8155.5	8779.5	9000.2	8408.6
75,0°		7477.1	7076.0	7330.5	7196.5	7024.2	7265.1	8008.9	9341.6	9064.2
80,0°		5644.2	5430.2	5583.3	5234.1	5281.5	5673.7	6607.4	8380.2	8660.4
85,0°		1854.7	1807.3	1847.9	1875.4	2073.8	2515.8	3847.2	5546.4	6833.6

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Highbay 21

Order number: 52HN11DB4RDA
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LP number
59724_26

Luminance values in cd/m²

γ 65°

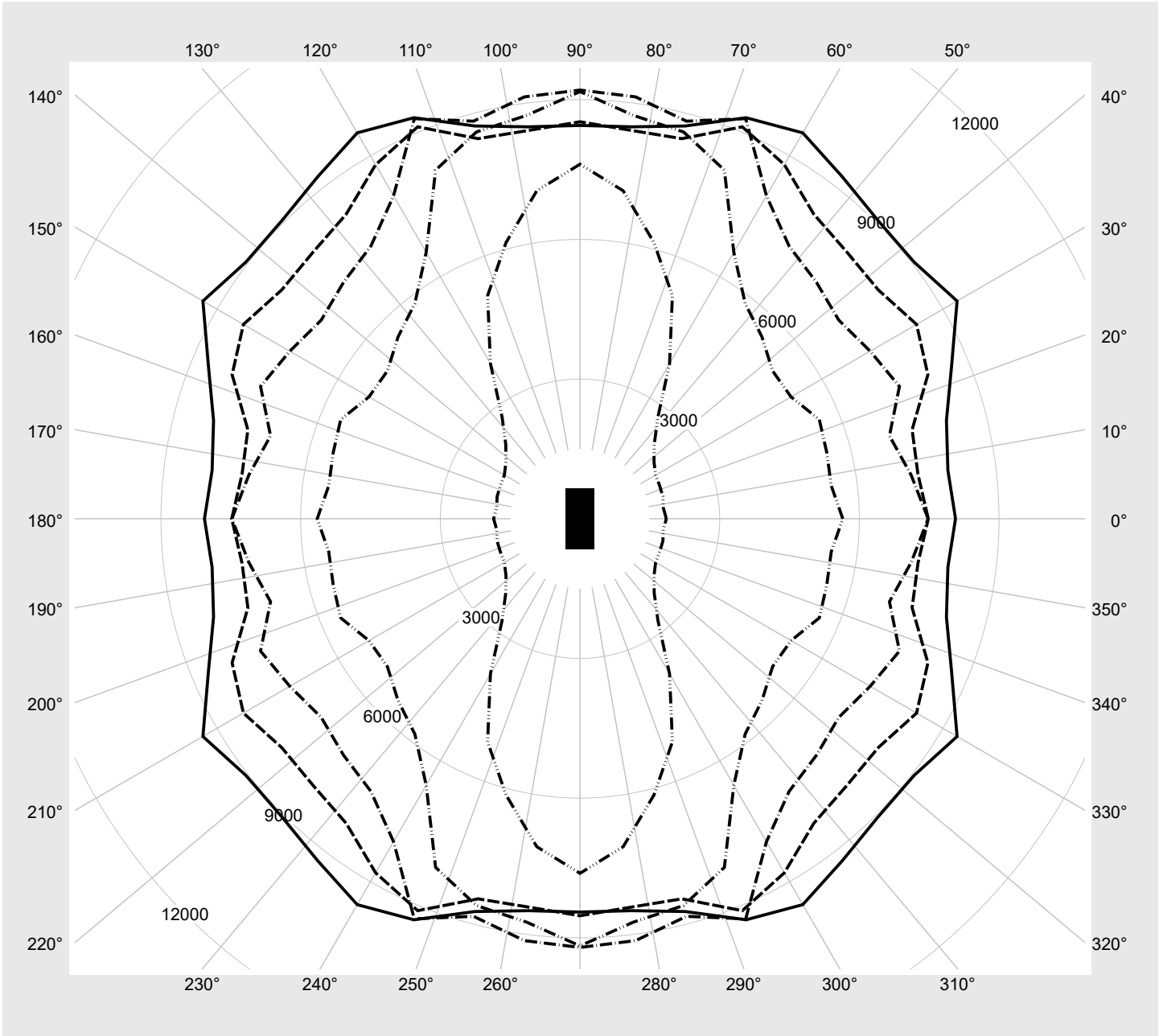
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table		environmental temperature: 25°C

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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	45000	239.3
95	241	252	42827	226.8
90	227	250	40465	213.4
85	214	248	38265	201.2
80	201	245	36033	188.8
75	188	243	33796	176.5
70	175	240	31534	164.3
65	162	238	29267	152.1
60	149	234	26992	139.9
55	136	231	24695	127.9
50	124	228	22575	116.8
45	111	224	20262	104.4
40	98	219	17924	92.4
35	86	214	15764	81.5
30	74	209	13589	70.6
25	61	202	11217	58.9
20	49	194	9003	47.9
15	37	183	6792	37.3
10	25	169	4569	26.1
5	13	145	2332	14.8
2	6	117	1025	8.1