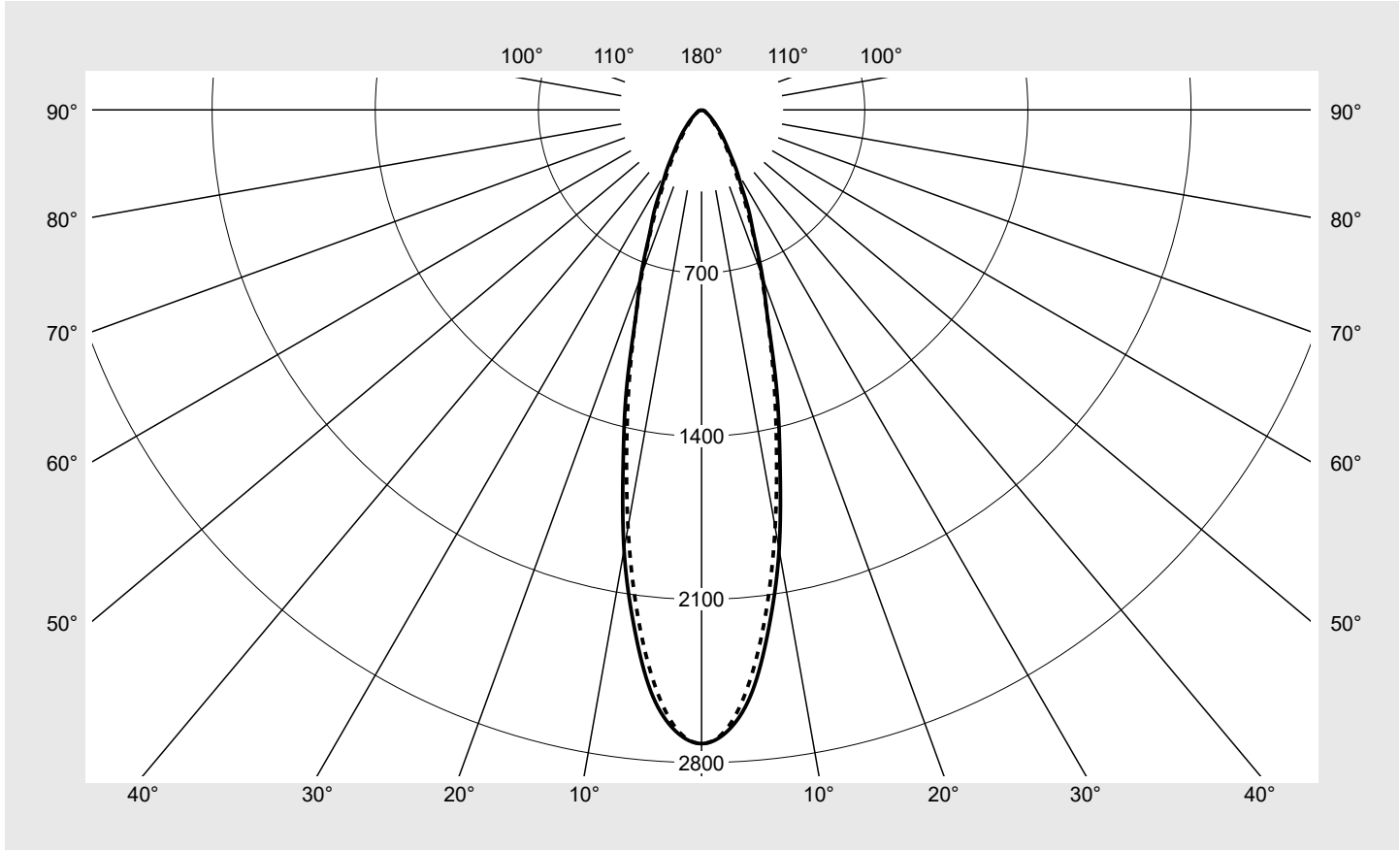


Photometric test report

Family Highbay 21	Order number: 52HN11DA4LDA03 EAN: 4069025421296	LP number 59724_155
	Version primary light control with lens, PMMA, housing, white, narrow distribution, with DALI multisensor Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 26500 lm Power consumption = 142.6 W Luminous efficacy = 185.8 lm/W	serial documentation 20.03.2025



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

Photometric test report

Family Highbay 21	Order number: 52HN11DA4LDA03 EAN: 4069025421296	LP number 59724_155
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Table of values for luminous intensities	Maximum luminous intensity	sITeCO
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C-planes	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	Luminous intensity 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

Photometric test report

Family Highbay 21	Order number: 52HN11DA4LDA03 EAN: 4069025421296	LP number 59724_155
Table of values for luminous intensities		Maximum luminous intensity
		sITeco

C-planes γ	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
	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

Photometric test report

Family Highbay 21	Order number: 52HN11DA4LDA03 EAN: 4069025421296	LP number 59724_155
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UGR-Table	Standard room	siteco	
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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	18.6	19.7	19.0	20.0	20.4	18.0	19.2	18.4	19.5	19.8
	3H	19.0	20.0	19.4	20.3	20.7	18.7	19.7	19.1	20.0	20.4
	4H	19.2	20.1	19.6	20.5	20.9	19.1	20.0	19.5	20.4	20.7
	6H	19.4	20.2	19.8	20.6	21.0	19.5	20.3	19.9	20.7	21.1
	8H	19.5	20.2	19.9	20.6	21.0	19.8	20.4	20.2	20.8	21.2
	12H	19.5	20.1	19.9	20.5	20.9	19.8	20.4	20.3	20.8	21.3
4H	2H	18.8	19.7	19.2	20.0	20.4	18.3	19.2	18.7	19.5	19.9
	3H	19.3	20.1	19.8	20.5	20.9	19.1	19.9	19.6	20.3	20.7
	4H	19.7	20.3	20.1	20.7	21.2	19.7	20.3	20.1	20.8	21.2
	6H	19.9	20.4	20.4	20.9	21.4	20.2	20.8	20.7	21.2	21.7
	8H	19.9	20.4	20.4	20.9	21.3	20.4	20.9	20.9	21.3	21.8
	12H	19.9	20.3	20.4	20.8	21.3	20.5	20.9	21.0	21.4	21.9
8H	4H	19.8	20.2	20.2	20.7	21.2	19.8	20.3	20.3	20.7	21.2
	6H	20.0	20.4	20.5	20.9	21.4	20.4	20.8	20.9	21.2	21.8
	8H	20.0	20.4	20.6	20.9	21.4	20.6	21.0	21.1	21.4	22.0
	12H	20.0	20.3	20.6	20.8	21.4	20.8	21.1	21.3	21.6	22.1
12H	4H	19.8	20.2	20.3	20.6	21.1	19.8	20.2	20.3	20.6	21.1
	6H	20.0	20.4	20.6	20.9	21.4	20.4	20.7	20.9	21.2	21.7
	8H	20.1	20.3	20.6	20.8	21.4	20.6	20.9	21.1	21.4	21.9

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 426 B = 264
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C-planes	0,0°	10,0°	20,0°	30,0°	40,0°	50,0°	60,0°	70,0°	80,0°	90,0°
	180,0°	170,0° 190,0° 350,0°	160,0° 200,0° 340,0°	150,0° 210,0° 330,0°	140,0° 220,0° 320,0°	130,0° 230,0° 310,0°	120,0° 240,0° 300,0°	110,0° 250,0° 290,0°	100,0° 260,0° 280,0°	
γ	Luminance in cd/m ²									
45,0°	27122.5	26477.6	26442.3	25729.2	24622.1	23887.9	23272.6	22654.8	22333.6	22186.0
50,0°	19226.9	18905.7	18989.0	18691.7	18188.6	17834.3	17268.0	16774.8	16569.6	16411.3
55,0°	13927.7	13795.0	14214.5	14398.1	14334.0	14082.2	13732.6	13244.1	12797.0	12629.1
60,0°	10522.8	10589.6	11350.0	12180.7	12104.6	12081.6	12165.2	11517.0	10836.2	10661.8
65,0°	9499.5	9420.5	9954.9	11014.4	10619.9	10807.6	11270.3	10792.7	10067.8	9948.4
70,0°	8810.1	8618.6	9307.4	9831.2	9481.3	9605.4	10340.3	10600.2	9903.5	10041.3
75,0°	8806.4	8334.0	8633.7	8475.9	8273.0	8556.7	9432.7	11002.3	10675.6	10843.0
80,0°	6647.7	6395.6	6575.9	6164.6	6220.4	6682.3	7782.1	9870.0	10200.0	10804.0
85,0°	2184.5	2128.6	2176.4	2208.8	2442.5	2963.1	4531.2	6532.4	8048.5	8967.7

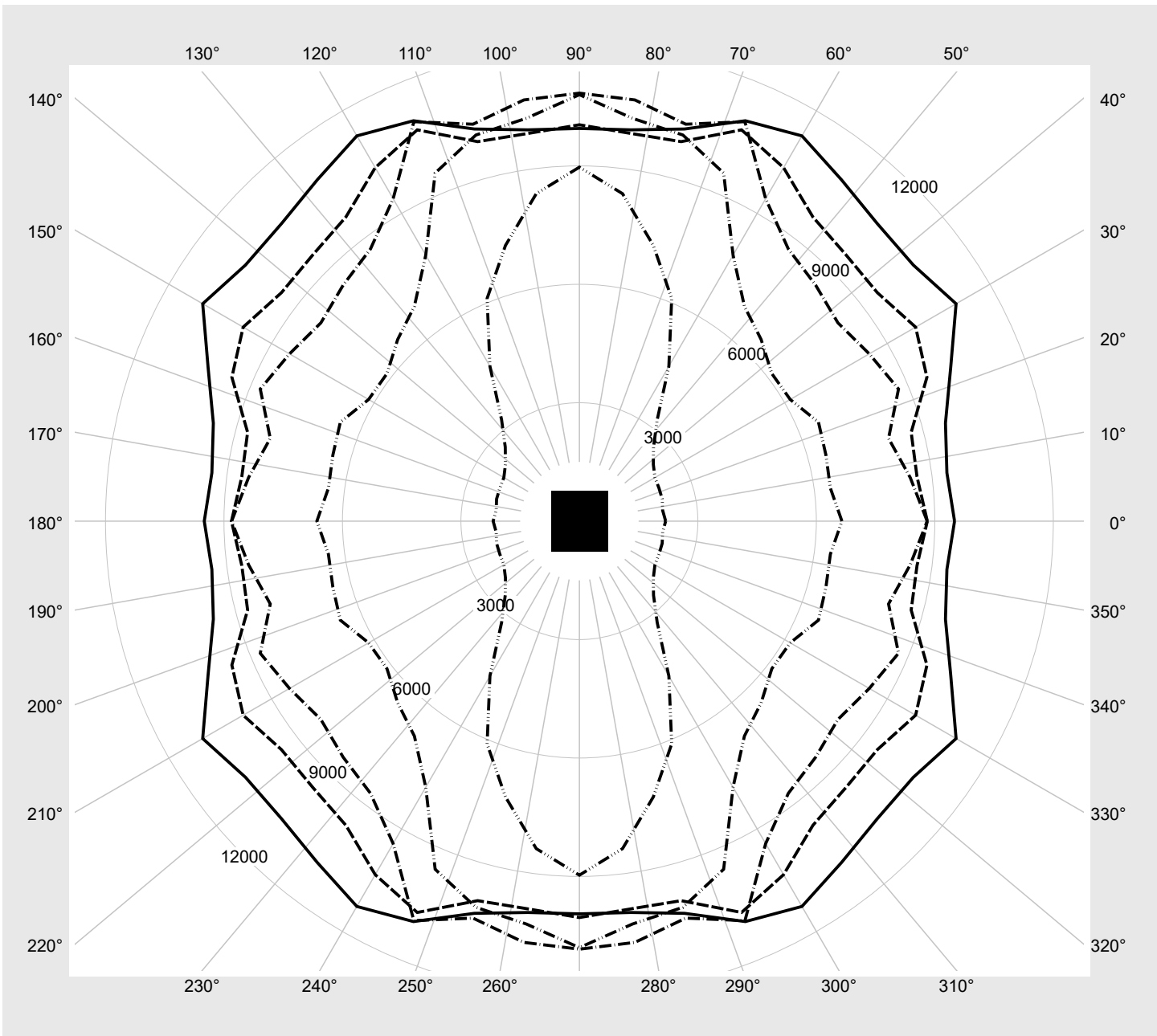
Photometric test report

Family
Highbay 21

Order number: 52HN11DA4LDA03
EAN: 4069025421296

LP number
59724_155

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



Photometric test report

Family Highbay 21	Order number: 52HN11DA4LDA03 EAN: 4069025421296	LP number 59724_155
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Dimming levels table	environmental temperature: 25°C	sITeco
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	26500	142.6
95	240	252	25141	134.6
90	227	250	23858	127.1
85	214	248	22571	119.7
80	200	245	21174	111.7
75	187	243	19866	104.4
70	174	240	18545	97.0
65	161	237	17219	89.7
60	148	234	15875	82.5
55	135	231	14529	75.2
50	123	227	13272	68.7
45	110	223	11900	61.5
40	98	219	10632	54.7
35	85	214	9243	47.6
30	73	208	7956	41.1
25	61	202	6658	34.6
20	48	193	5246	27.6
15	36	182	3931	21.2
10	24	168	2613	14.7
5	12	142	1286	7.9
2	5	110	507	4.1