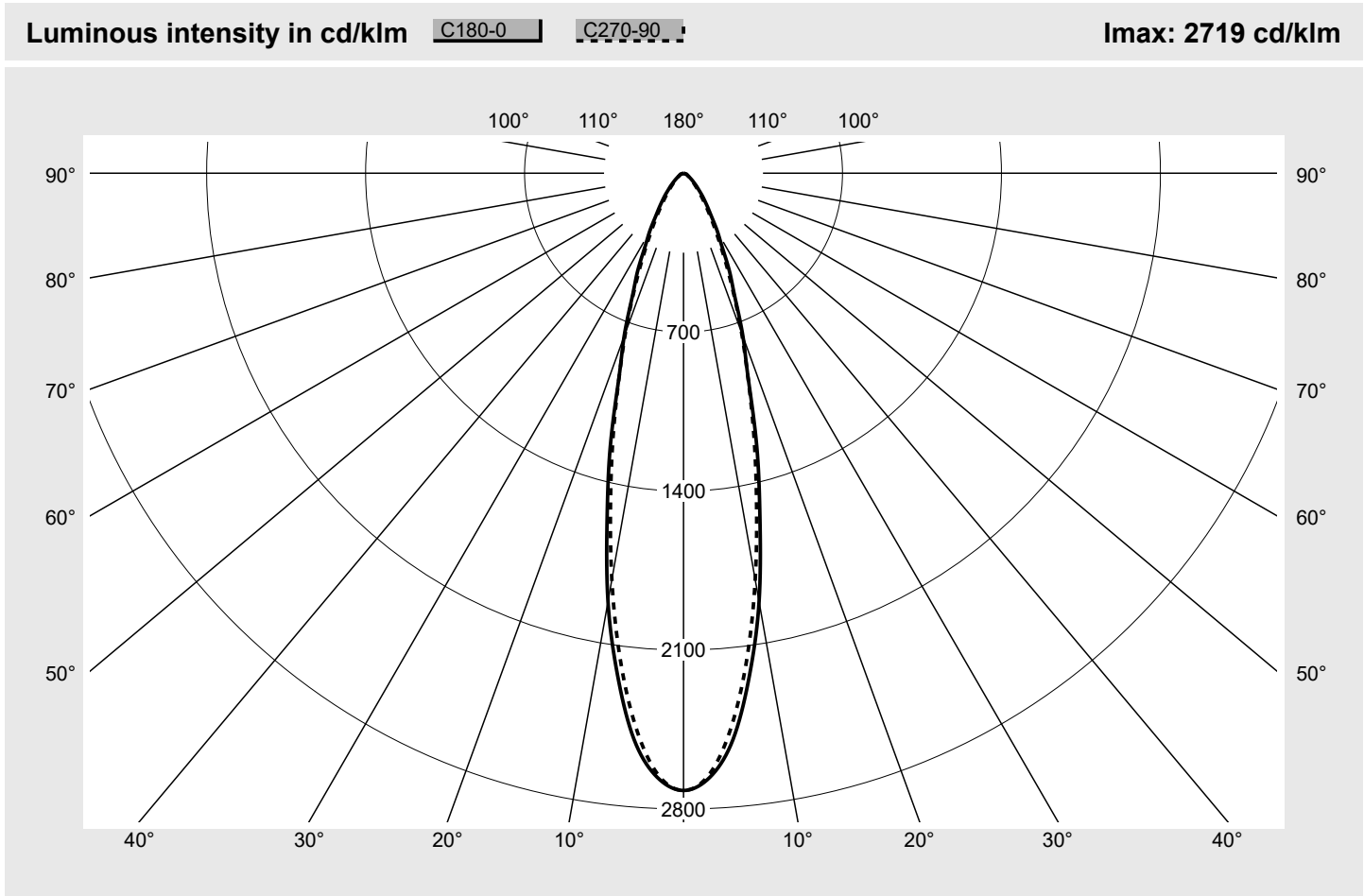


Photometric test report

Family Highbay 21	Order number: 52HN11DA4HLA EAN: 4069025394606	LP number 59724_76
	Version	primary light control with lens, PMMA, housing, white, for Licross® rail, narrow distribution
	Lamps	LED 4000 K CRI ≥ 80
	Controlgear	ECG-DALI
	Rated values	Net luminous flux = 19000 lm Power consumption = 98.9 W Luminous efficacy = 192.1 lm/W
		serial documentation 27.02.2025
		



Classifications		Luminaire light output ratios	
DIN 5040	A 7 0	η_{LB}	100.0%
CIE	N1=89 N2=97 N3=99	ϕ_u	100.0%
	N4=100 N5=100	ϕ_o	0.0%

Measurement conditions
DIN EN 13032 and DIN 5032

Photometric test report

Family Highbay 21	Order number: 52HN11DA4HLA EAN: 4069025394606	LP number 59724_76
Table of values for luminous intensities		Maximum luminous intensity

siteco

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

Photometric test report

Family Highbay 21	Order number: 52HN11DA4HLA EAN: 4069025394606	LP number 59724_76
Table of values for luminous intensities		Maximum luminous intensity

siteco

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

Photometric test report

Family Highbay 21			Order number: 52HN11DA4HLA EAN: 4069025394606							LP number 59724_76		
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
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		17.4	18.6	17.8	18.9	19.2	16.9	18.0	17.2	18.3	18.7
	3H		17.9	18.8	18.2	19.2	19.5	17.5	18.5	17.9	18.9	19.2
	4H		18.1	19.0	18.5	19.3	19.7	18.0	18.9	18.4	19.2	19.6
	6H		18.3	19.1	18.7	19.4	19.8	18.4	19.2	18.8	19.5	19.9
	8H		18.4	19.0	18.8	19.4	19.8	18.6	19.3	19.0	19.7	20.1
	12H		18.3	18.9	18.8	19.3	19.7	18.7	19.3	19.1	19.7	20.1
4H	2H		17.6	18.5	18.0	18.9	19.2	17.1	18.0	17.5	18.4	18.8
	3H		18.2	18.9	18.6	19.3	19.8	18.0	18.7	18.4	19.1	19.5
	4H		18.5	19.2	18.9	19.6	20.0	18.5	19.2	19.0	19.6	20.0
	6H		18.7	19.3	19.2	19.7	20.2	19.1	19.6	19.5	20.0	20.5
	8H		18.8	19.2	19.2	19.7	20.2	19.2	19.7	19.7	20.2	20.7
	12H		18.8	19.2	19.3	19.6	20.1	19.4	19.8	19.9	20.3	20.8
8H	4H		18.6	19.1	19.1	19.5	20.0	18.6	19.1	19.1	19.6	20.0
	6H		18.9	19.3	19.4	19.7	20.3	19.2	19.6	19.7	20.1	20.6
	8H		18.9	19.2	19.4	19.7	20.3	19.4	19.8	20.0	20.3	20.8
	12H		18.9	19.2	19.4	19.7	20.2	19.6	19.9	20.2	20.4	21.0
12H	4H		18.6	19.0	19.1	19.5	20.0	18.6	19.0	19.1	19.5	20.0
	6H		18.9	19.2	19.4	19.7	20.2	19.2	19.5	19.7	20.0	20.6
	8H		18.9	19.2	19.4	19.7	20.2	19.5	19.7	20.0	20.2	20.8

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:				L = 426 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°	19446.3	18984.0	18958.6	18447.4	17653.6	17127.2	16686.0	16243.1	16012.8	15906.9
50,0°	13785.4	13555.1	13614.8	13401.6	13040.9	12786.8	12380.8	12027.2	11880.1	11766.6
55,0°	9985.9	9890.7	10191.5	10323.1	10277.2	10096.7	9846.0	9495.7	9175.2	9054.8
60,0°	7544.7	7592.6	8137.8	8733.3	8678.7	8662.3	8722.2	8257.5	7769.3	7644.3
65,0°	6811.0	6754.3	7137.5	7897.1	7614.3	7748.8	8080.6	7738.2	7218.4	7132.8
70,0°	6316.7	6179.4	6673.2	7048.8	6797.9	6886.9	7413.8	7600.2	7100.6	7199.4
75,0°	6314.0	5975.3	6190.2	6077.1	5931.6	6135.0	6763.1	7888.4	7654.2	7774.2
80,0°	4766.3	4585.5	4714.8	4419.9	4459.9	4791.1	5579.6	7076.6	7313.2	7746.3
85,0°	1566.2	1526.2	1560.4	1583.7	1751.2	2124.5	3248.8	4683.6	5770.6	6429.7

Photometric test report

Family
Highbay 21

Order number: 52HN11DA4HLA
EAN: 4069025394606

LP number
59724_76

Luminance values in cd/m²

γ 65°

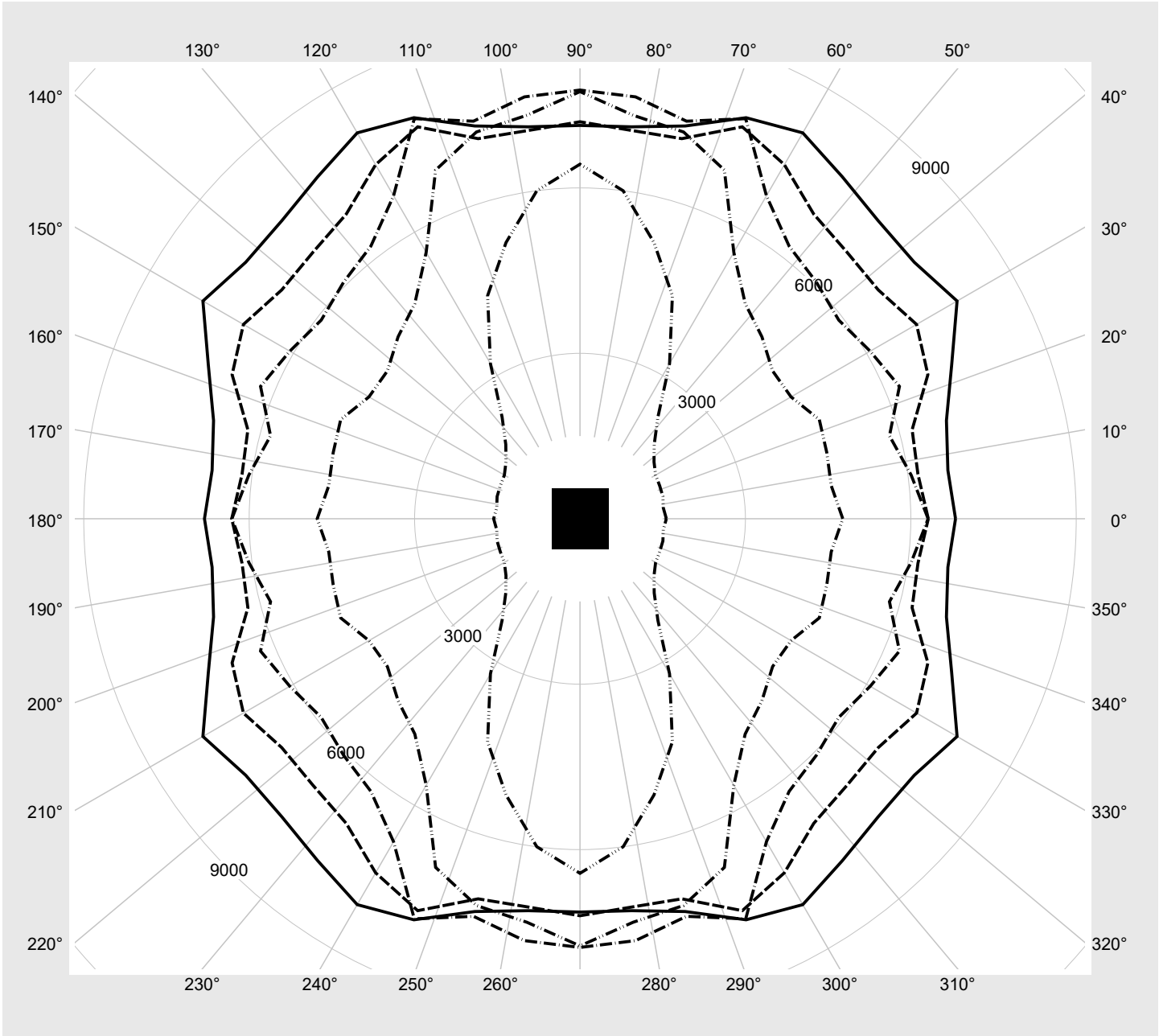
γ 70°

γ 75°

γ 80°

γ 85°

siteco



Photometric test report

Family Highbay 21	Order number: 52HN11DA4HLA EAN: 4069025394606	LP number 59724_76
Dimming levels table		environmental temperature: 25°C

siteco

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	19000	98.9
95	241	252	18066	93.8
90	228	250	17132	88.7
85	214	248	16116	83.2
80	201	245	15171	78.1
75	188	243	14217	73.1
70	175	240	13264	68.1
65	163	238	12376	63.4
60	150	235	11412	58.4
55	137	231	10438	53.3
50	124	228	9465	48.3
45	112	224	8563	43.7
40	99	219	7581	38.8
35	87	215	6670	34.2
30	74	209	5679	29.4
25	62	202	4759	24.9
20	50	194	3836	20.4
15	37	183	2829	15.5
10	25	169	1899	11.0
5	13	145	966	6.3
2	5	110	342	3.1