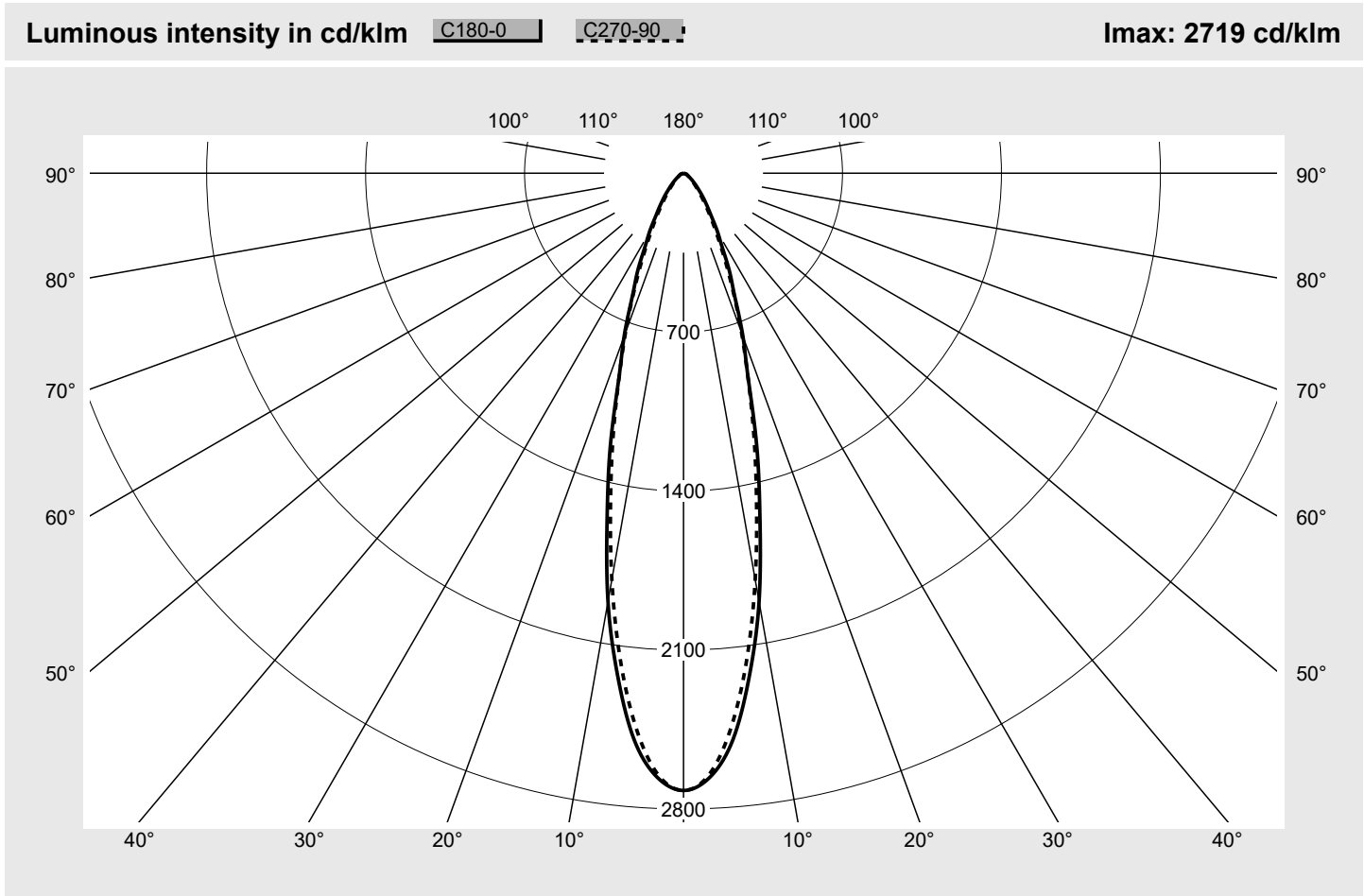


Photometric test report

Family Highbay 21	Order number: 52HN11DA4LLA EAN: 4069025284167	LP number 59724_78
	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 = 26500 lm Power consumption = 142.6 W Luminous efficacy = 185.8 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: 52HN11DA4LLA EAN: 4069025284167	LP number 59724_78
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: 52HN11DA4LLA EAN: 4069025284167	LP number 59724_78
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: 52HN11DA4LLA EAN: 4069025284167							LP number 59724_78	
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	18.6	19.7	19.0	20.0	20.4	18.0	19.2	18.4	19.5
	3H	19.0	20.0	19.4	20.3	20.7	18.7	19.7	19.1	20.0
	4H	19.2	20.1	19.6	20.5	20.9	19.1	20.0	19.5	20.4
	6H	19.4	20.2	19.8	20.6	21.0	19.5	20.3	19.9	20.7
	8H	19.5	20.2	19.9	20.6	21.0	19.8	20.4	20.2	20.8
	12H	19.5	20.1	19.9	20.5	20.9	19.8	20.4	20.3	20.8
4H	2H	18.8	19.7	19.2	20.0	20.4	18.3	19.2	18.7	19.5
	3H	19.3	20.1	19.8	20.5	20.9	19.1	19.9	19.6	20.3
	4H	19.7	20.3	20.1	20.7	21.2	19.7	20.3	20.1	20.8
	6H	19.9	20.4	20.4	20.9	21.4	20.2	20.8	20.7	21.2
	8H	19.9	20.4	20.4	20.9	21.3	20.4	20.9	20.9	21.3
	12H	19.9	20.3	20.4	20.8	21.3	20.5	20.9	21.0	21.4
8H	4H	19.8	20.2	20.2	20.7	21.2	19.8	20.3	20.3	20.7
	6H	20.0	20.4	20.5	20.9	21.4	20.4	20.8	20.9	21.2
	8H	20.0	20.4	20.6	20.9	21.4	20.6	21.0	21.1	21.4
	12H	20.0	20.3	20.6	20.8	21.4	20.8	21.1	21.3	21.6
12H	4H	19.8	20.2	20.3	20.6	21.1	19.8	20.2	20.3	20.6
	6H	20.0	20.4	20.6	20.9	21.4	20.4	20.7	20.9	21.2
	8H	20.1	20.3	20.6	20.8	21.4	20.6	20.9	21.1	21.4

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°		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: 52HN11DA4LLA
EAN: 4069025284167

LP number
59724_78

Luminance values in cd/m²

γ 65°

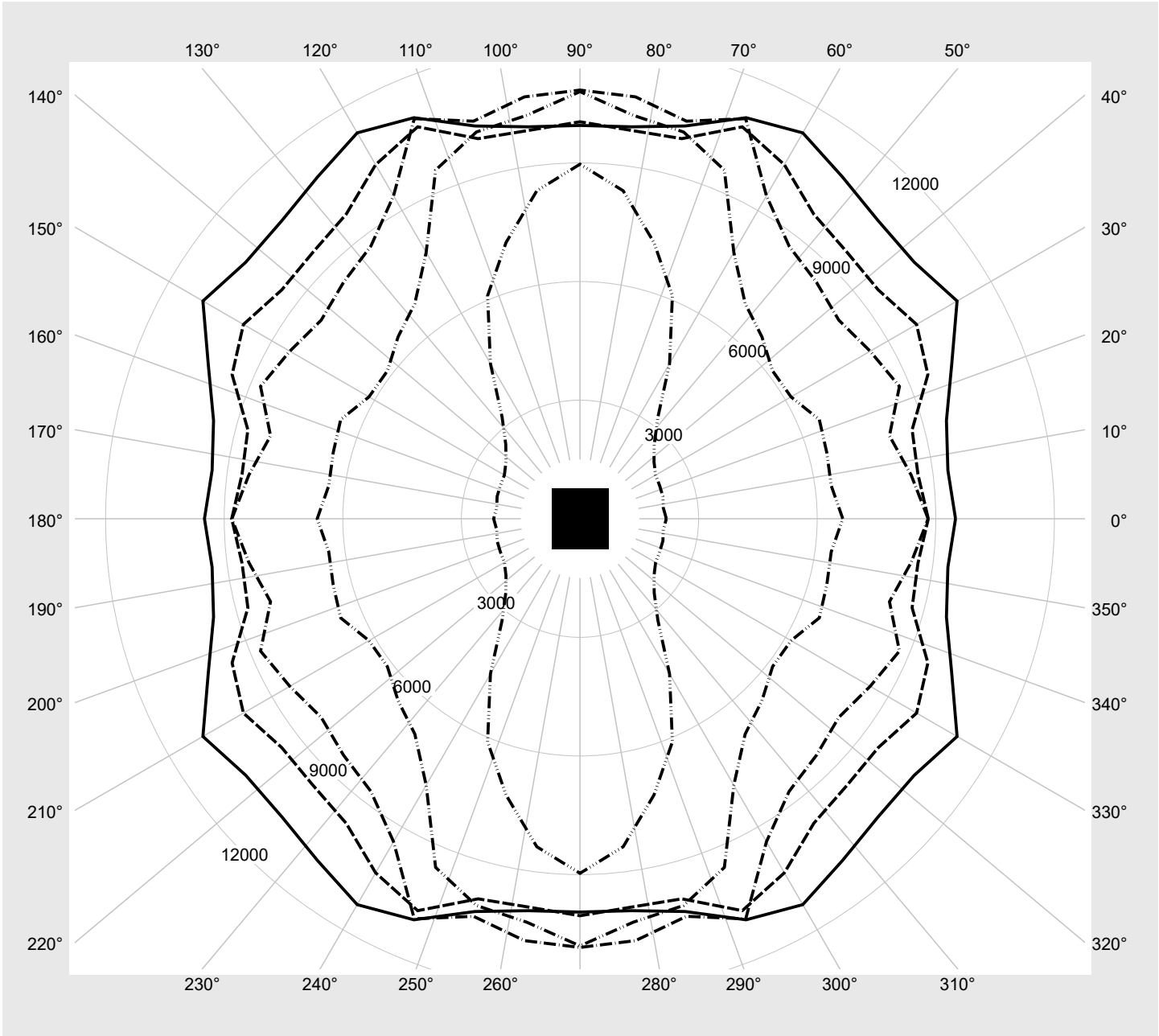
γ 70°

γ 75°

γ 80°

γ 85°

siteco



Photometric test report

Family Highbay 21	Order number: 52HN11DA4LLA EAN: 4069025284167	LP number 59724_78
Dimming levels table		environmental temperature: 25°C



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