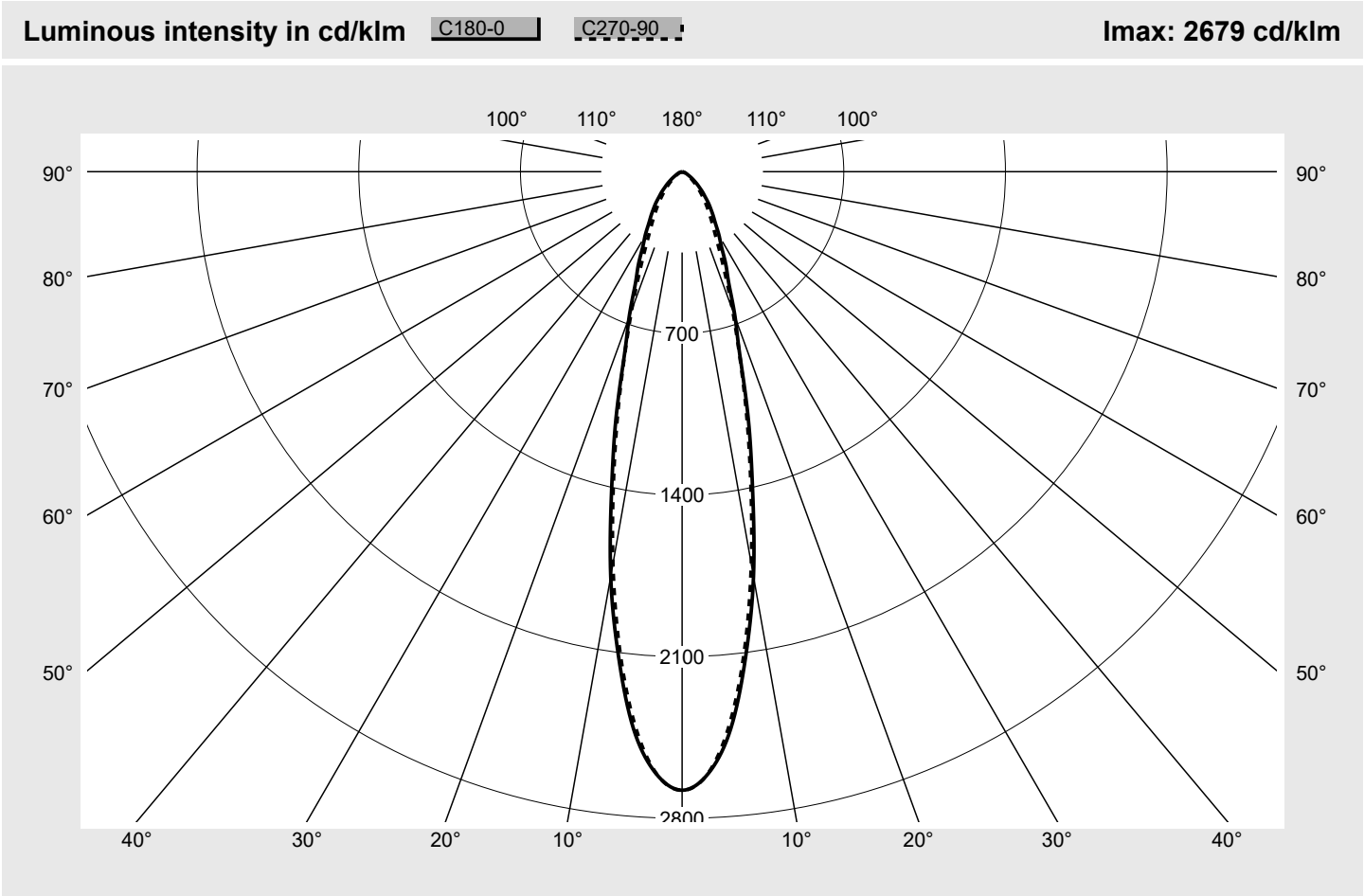


Photometric test report

Family Highbay 11	Order number: 51HN11DA4FLA02 EAN: 4069025373878	LP number 59711_88
	Version	primary light control with lens, PMMA, housing, white, for Licross® rail, narrow distribution, with Node BT
	Lamps	LED 4000 K CRI ≥ 80
	Controlgear	ECG-DALI
	Rated values	Net luminous flux = 15000 lm Power consumption = 73.7 W Luminous efficacy = 203.5 lm/W
		serial documentation 31.01.2025
		



Classifications		Luminaire light output ratios	
DIN 5040	A 7 0	η_{LB}	100.0%
CIE	N1=85 N2=97 N3=100	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 11	Order number: 51HN11DA4FLA02 EAN: 4069025373878	LP number 59711_88
Table of values for luminous intensities		Maximum luminous intensity
		siteco

C- planes	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm							Luminous flux in lm/klm	
0,0°	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	4.0	4.0
2,5°	2608.0	2619.4	2619.4	2616.5	2617.6	2616.2	2606.1	31.3	35.3
5,0°	2420.1	2415.7	2414.1	2408.4	2406.6	2402.3	2391.7	57.6	92.8
7,5°	2113.4	2116.1	2112.3	2103.0	2097.6	2090.5	2079.6	75.2	168.1
10,0°	1780.1	1768.7	1762.7	1751.6	1743.6	1735.2	1724.7	83.4	251.5
12,5°	1410.1	1409.3	1404.7	1395.9	1388.1	1380.5	1373.1	82.8	334.3
15,0°	1106.5	1097.8	1095.0	1089.4	1083.1	1078.4	1073.9	77.3	411.5
17,5°	830.1	840.2	835.5	831.1	826.6	824.9	824.1	68.5	480.0
20,0°	671.1	661.9	651.8	643.2	639.9	639.4	641.0	60.8	540.8
22,5°	531.9	530.5	514.2	498.9	497.0	496.6	496.8	53.4	594.2
25,0°	450.6	441.3	420.6	401.3	399.0	395.8	392.4	47.9	642.1
27,5°	370.8	368.7	351.4	331.7	326.8	321.1	316.0	43.1	685.2
30,0°	320.4	312.1	300.8	284.1	278.0	270.2	264.7	39.7	724.9
32,5°	271.0	266.8	259.0	245.6	238.0	229.0	224.7	36.5	761.4
35,0°	235.8	228.9	222.7	210.5	201.6	193.0	191.7	33.3	794.7
37,5°	204.4	197.8	191.5	181.1	172.0	164.3	162.4	30.3	825.0
40,0°	176.7	170.7	163.1	154.3	146.1	138.3	135.6	27.3	852.2
42,5°	147.6	145.5	138.6	130.6	123.2	115.8	113.3	24.2	876.4
45,0°	126.0	121.8	116.3	109.0	102.0	95.3	93.2	21.1	897.6
47,5°	103.2	101.5	97.1	90.9	84.6	78.4	76.7	18.3	915.9
50,0°	85.9	82.9	79.4	74.6	69.1	63.7	61.9	15.5	931.4
52,5°	69.0	67.2	64.5	61.0	56.2	51.6	49.7	13.0	944.4
55,0°	55.6	54.1	52.2	49.5	45.7	41.7	40.0	10.9	955.3
57,5°	43.6	43.1	41.8	39.8	37.0	33.6	32.2	9.0	964.3
60,0°	33.2	33.3	33.9	32.4	30.5	27.5	26.1	7.4	971.7
62,5°	25.9	26.0	27.0	26.2	25.1	22.4	21.3	6.1	977.8
65,0°	21.6	21.2	21.7	21.3	20.9	18.8	17.7	5.1	982.9
67,5°	17.0	17.1	17.8	17.0	17.3	15.6	14.8	4.3	987.2
70,0°	13.5	13.4	14.4	13.6	14.1	13.0	12.4	3.5	990.7
72,5°	11.0	10.8	10.9	10.9	11.0	10.7	10.6	2.8	993.5
75,0°	9.0	8.4	8.4	8.3	8.6	9.0	8.9	2.3	995.8
77,5°	6.6	6.4	6.2	6.2	6.6	7.3	7.4	1.8	997.5
80,0°	4.4	4.2	4.1	4.2	4.7	5.7	5.8	1.3	998.8
82,5°	2.0	2.1	2.2	2.4	3.0	3.9	4.1	0.8	999.6
85,0°	0.8	0.8	0.8	1.0	1.5	2.2	2.4	0.4	999.9
87,5°	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.1	1000.0
90,0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0

Photometric test report

Family Highbay 11		Order number: 51HN11DA4FLA02 EAN: 4069025373878							LP number 59711_88	
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	18.9	20.1	19.3	20.4	20.7	17.7	18.9	18.1	19.2
	3H	19.1	20.2	19.5	20.5	20.9	18.0	19.0	18.4	19.4
	4H	19.2	20.1	19.6	20.5	20.9	18.1	19.1	18.5	19.4
	6H	19.3	20.1	19.7	20.5	20.9	18.3	19.1	18.7	19.5
	8H	19.3	20.0	19.7	20.4	20.8	18.4	19.1	18.8	19.5
	12H	19.3	19.9	19.7	20.3	20.7	18.4	19.1	18.8	19.5
4H	2H	19.0	19.9	19.4	20.3	20.6	17.9	18.8	18.3	19.2
	3H	19.3	20.1	19.7	20.4	20.9	18.3	19.1	18.7	19.5
	4H	19.4	20.1	19.8	20.5	20.9	18.5	19.2	18.9	19.6
	6H	19.5	20.0	19.9	20.5	20.9	18.7	19.3	19.2	19.7
	8H	19.5	20.0	19.9	20.4	20.9	18.8	19.3	19.2	19.7
	12H	19.4	19.9	19.9	20.3	20.8	18.8	19.3	19.3	19.7
8H	4H	19.4	19.9	19.9	20.3	20.8	18.5	19.0	19.0	19.5
	6H	19.5	19.9	20.0	20.4	20.9	18.8	19.2	19.3	19.6
	8H	19.4	19.8	19.9	20.3	20.8	18.8	19.2	19.4	19.7
	12H	19.4	19.7	19.9	20.2	20.8	18.9	19.2	19.4	19.7
12H	4H	19.4	19.8	19.9	20.3	20.8	18.5	18.9	19.0	19.4
	6H	19.4	19.8	20.0	20.3	20.8	18.7	19.1	19.3	19.6
	8H	19.4	19.7	19.9	20.2	20.8	18.8	19.1	19.4	19.6

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 426 B = 264	
C-planes	γ	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°
			Luminance in cd/m²				
C-planes	45,0°	23764.1	22970.8	21936.0	20564.0	19239.8	17981.2
	50,0°	17815.2	17195.0	16466.7	15489.0	14327.6	13208.8
	55,0°	12926.8	12576.8	12141.1	11510.4	10623.8	9697.1
	60,0°	8869.2	8878.8	9044.0	8640.6	8126.9	7332.2
	65,0°	6809.6	6694.7	6846.5	6735.7	6593.4	5925.3
	70,0°	5275.8	5212.3	5599.5	5287.9	5487.6	5052.0
	75,0°	4625.0	4340.6	4350.4	4291.6	4427.7	4616.8
	80,0°	3374.2	3249.0	3143.0	3199.8	3575.4	4342.0
	85,0°	1248.7	1233.4	1290.1	1458.4	2238.9	3296.3
	90,0°						

Photometric test report

Family
Highbay 11

Order number: 51HN11DA4FLA02
EAN: 4069025373878

LP number
59711_88

Luminance values in cd/m²

γ 65°

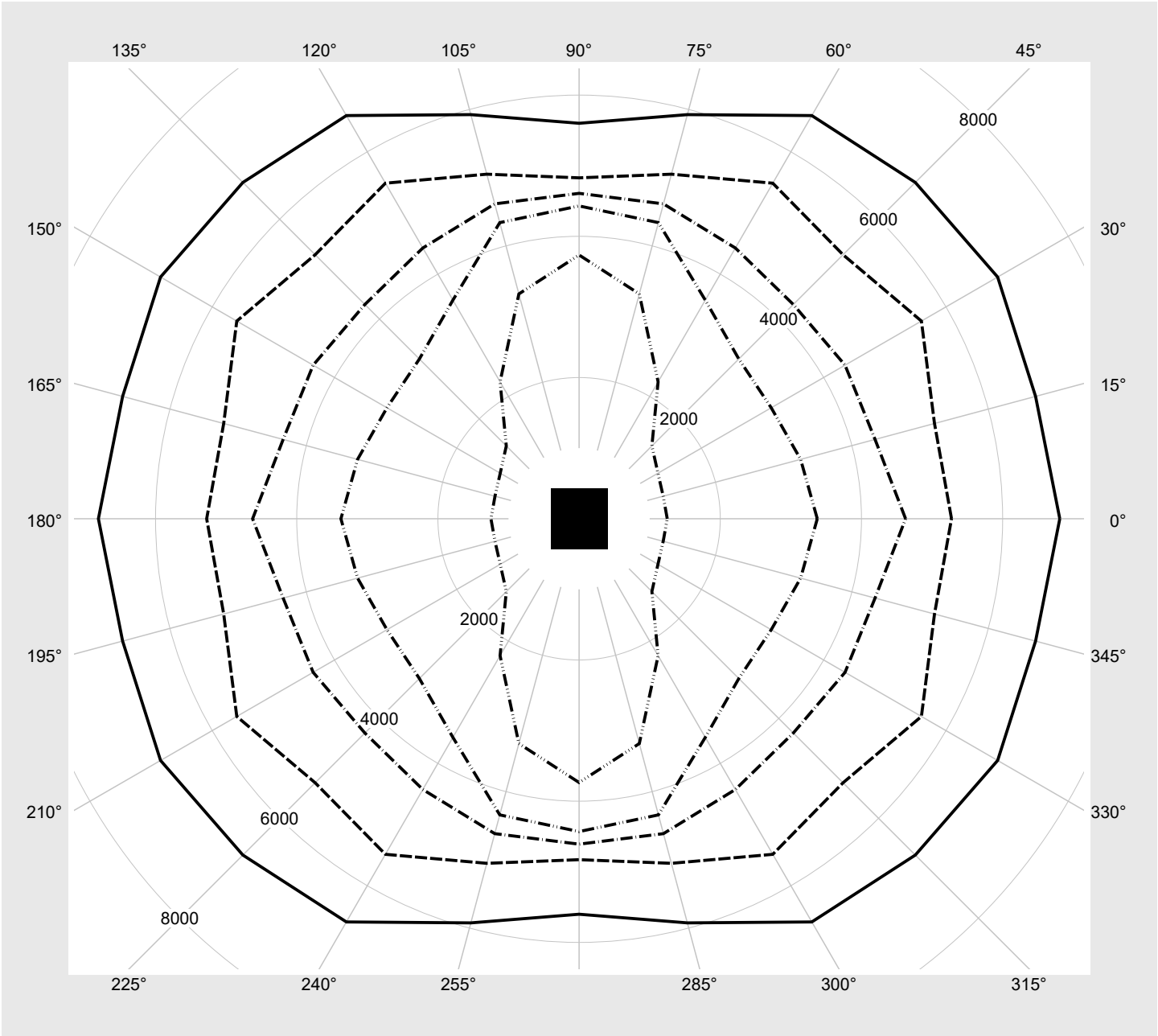
γ 70°

γ 75°

γ 80°

γ 85°

siteco



Photometric test report

Family Highbay 11	Order number: 51HN11DA4FLA02 EAN: 4069025373878	LP number 59711_88
Dimming levels table		environmental temperature: 25°C



Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	----	----	----	----
95	241	252	14266	69.9
90	227	250	13473	65.8
85	214	248	12736	62.0
80	201	245	11990	58.3
75	188	243	11246	54.4
70	175	240	10495	50.7
65	162	238	9737	46.9
60	149	234	8979	43.2
55	137	231	8274	39.8
50	124	228	7504	36.1
45	111	224	6733	32.4
40	99	219	6018	29.1
35	86	214	5233	25.4
30	74	209	4509	22.2
25	62	202	3779	18.8
20	49	194	2979	15.3
15	37	183	2239	12.1
10	25	169	1496	8.7
5	13	145	743	5.2
2	5	110	241	3.0