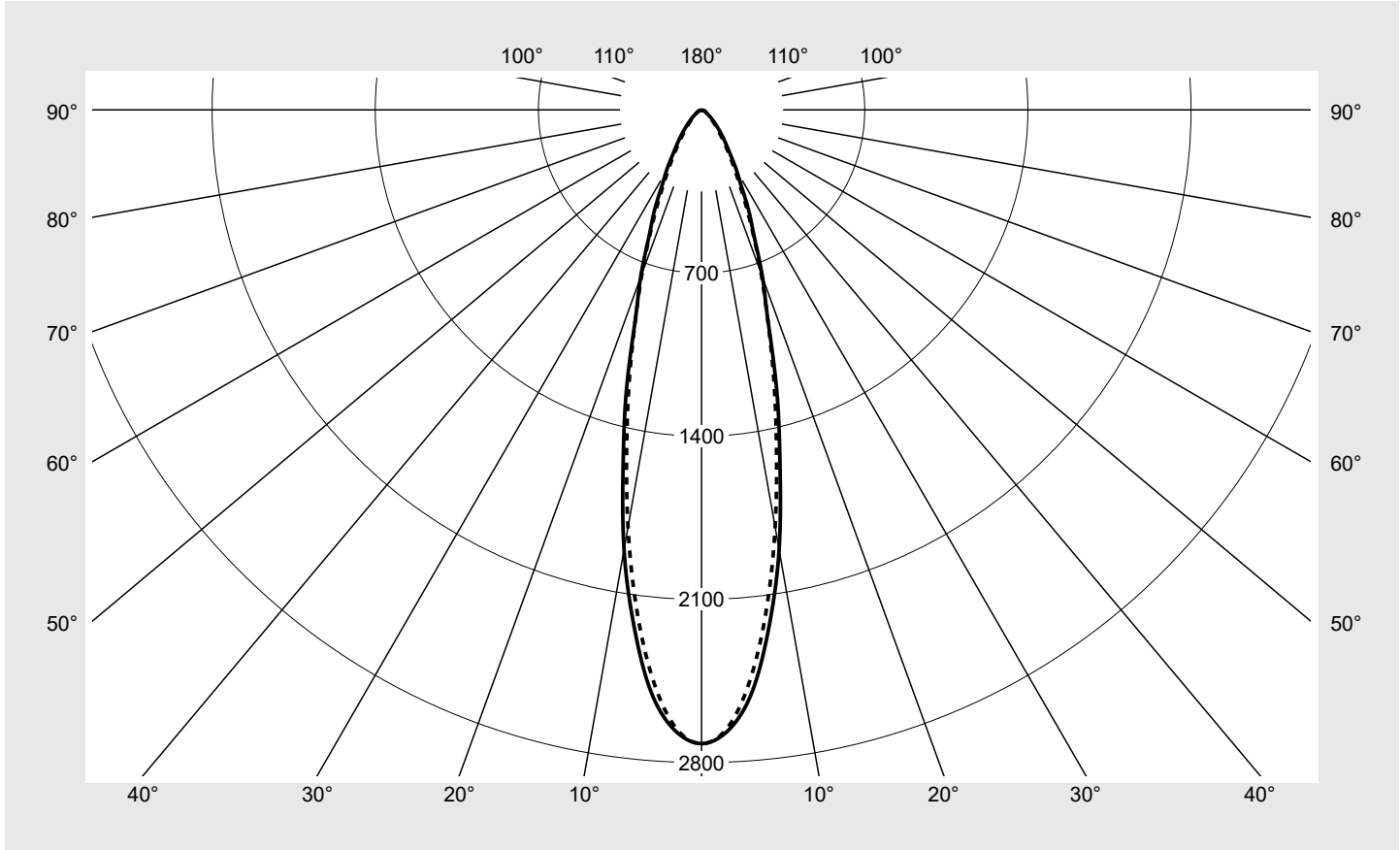


Photometric test report

Family Highbay 21	Order number: 52HN11DA6LMA EAN: 4069025445162	LP number 59724_230
	Version primary light control with lens, PMMA, housing, white, narrow distribution	serial documentation 24.04.2025
	Lamps LED 6500 K CRI ≥ 80 Controlgear ECG-DALI Setting AC-mode Rated values Net luminous flux = 25700 lm Power consumption = 142.6 W Luminous efficacy = 180.2 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

Photometric test report

Family Highbay 21	Order number: 52HN11DA6LMA EAN: 4069025445162	LP number 59724_230
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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: 52HN11DA6LMA EAN: 4069025445162	LP number 59724_230
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Table of values for luminous intensities	Maximum luminous intensity
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C-planes	52,5°	60,0°	67,5°	75,0°	82,5°	90,0°	Phi-zone	Total Phi-zone
	127,5°	120,0°	112,5°	105,0°	97,5°			
	232,5°	240,0°	247,5°	255,0°	262,5°			
	307,5°	300,0°	292,5°	285,0°	277,5°	270,0°		
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: 52HN11DA6LMA EAN: 4069025445162	LP number 59724_230
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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	18.5	19.6	18.8	19.9	20.2	17.9	19.1	18.3	19.4	19.7
	3H	18.9	19.9	19.3	20.2	20.6	18.6	19.6	19.0	19.9	20.3
	4H	19.1	20.0	19.5	20.4	20.8	19.0	19.9	19.4	20.3	20.6
	6H	19.3	20.1	19.7	20.5	20.9	19.4	20.2	19.8	20.6	21.0
	8H	19.4	20.1	19.8	20.4	20.9	19.6	20.3	20.1	20.7	21.1
	12H	19.4	20.0	19.8	20.4	20.8	19.7	20.3	20.2	20.7	21.2
4H	2H	18.6	19.6	19.0	19.9	20.3	18.2	19.1	18.6	19.4	19.8
	3H	19.2	20.0	19.7	20.4	20.8	19.0	19.8	19.5	20.2	20.6
	4H	19.5	20.2	20.0	20.6	21.1	19.6	20.2	20.0	20.6	21.1
	6H	19.8	20.3	20.3	20.8	21.2	20.1	20.7	20.6	21.1	21.6
	8H	19.8	20.3	20.3	20.8	21.2	20.3	20.8	20.8	21.2	21.7
	12H	19.8	20.2	20.3	20.7	21.2	20.4	20.8	20.9	21.3	21.8
8H	4H	19.7	20.1	20.1	20.6	21.1	19.7	20.2	20.1	20.6	21.1
	6H	19.9	20.3	20.4	20.8	21.3	20.3	20.7	20.8	21.1	21.7
	8H	19.9	20.3	20.5	20.8	21.3	20.5	20.8	21.0	21.3	21.9
	12H	19.9	20.2	20.5	20.7	21.3	20.7	21.0	21.2	21.5	22.0
12H	4H	19.7	20.1	20.2	20.5	21.0	19.7	20.1	20.2	20.5	21.0
	6H	19.9	20.3	20.4	20.7	21.3	20.3	20.6	20.8	21.1	21.6
	8H	20.0	20.2	20.5	20.7	21.3	20.5	20.8	21.0	21.3	21.8

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 426 B = 264
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C-planes	0,0° 180,0°	10,0° 170,0°	20,0° 160,0°	30,0° 150,0°	40,0° 140,0°	50,0° 130,0°	60,0° 120,0°	70,0° 110,0°	80,0° 100,0°	90,0° 270,0°
		190,0° 350,0°	200,0° 340,0°	210,0° 330,0°	220,0° 320,0°	230,0° 310,0°	240,0° 300,0°	250,0° 290,0°	260,0° 280,0°	
γ	Luminance in cd/m ²									
45,0°	26303.7	25678.3	25644.0	24952.5	23878.8	23166.8	22570.1	21970.9	21659.4	21516.2
50,0°	18646.5	18335.0	18415.7	18127.5	17639.5	17295.9	16746.7	16268.4	16069.3	15915.8
55,0°	13507.2	13378.5	13785.4	13963.4	13901.3	13657.1	13318.0	12844.2	12410.7	12247.9
60,0°	10205.1	10269.9	11007.4	11813.0	11739.2	11716.9	11797.9	11169.3	10509.1	10340.0
65,0°	9212.8	9136.1	9654.4	10681.9	10299.3	10481.3	10930.1	10466.9	9763.9	9648.0
70,0°	8544.2	8358.4	9026.4	9534.4	9195.1	9315.4	10028.1	10280.2	9604.5	9738.2
75,0°	8540.5	8082.4	8373.1	8220.0	8023.2	8298.4	9148.0	10670.1	10353.4	10515.6
80,0°	6447.0	6202.5	6377.4	5978.5	6032.6	6480.6	7547.1	9572.0	9892.1	10477.8
85,0°	2118.5	2064.3	2110.7	2142.1	2368.8	2873.7	4394.4	6335.2	7805.5	8697.0

Photometric test report

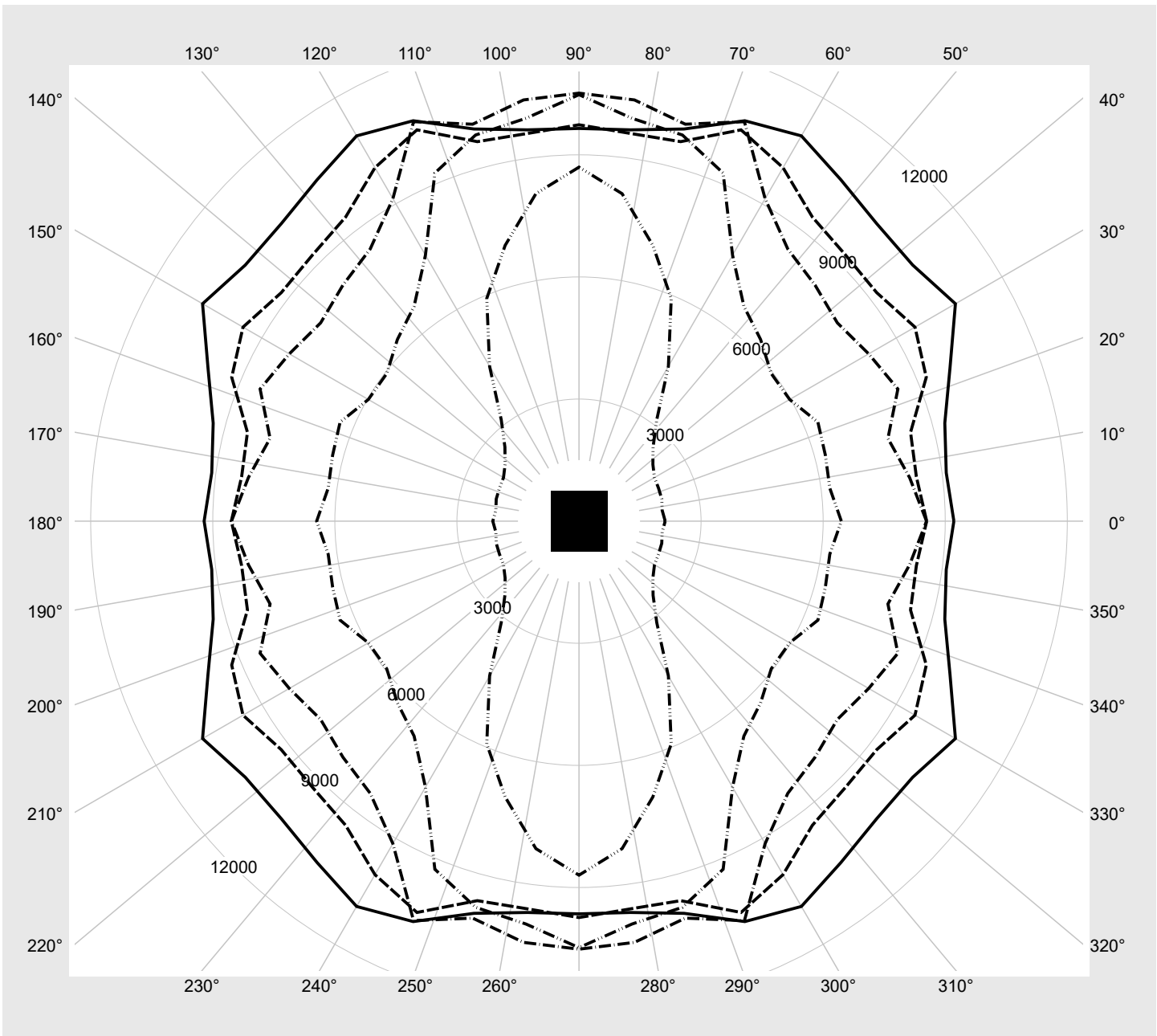
Family
Highbay 21

Order number: 52HN11DA6LMA
EAN: 4069025445162

LP number
59724_230

Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°



Photometric test report

Family Highbay 21	Order number: 52HN11DA6LMA EAN: 4069025445162	LP number 59724_230
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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	25700	142.6
95	240	252	24382	134.6
90	227	250	23135	127.1
85	214	248	21887	119.7
80	200	245	20531	111.7
75	187	243	19262	104.4
70	174	240	17981	97.0
65	161	237	16694	89.7
60	148	234	15391	82.5
55	135	231	14084	75.2
50	123	227	12865	68.7
45	110	223	11536	61.5
40	98	219	10306	54.7
35	85	214	8959	47.6
30	73	208	7712	41.1
25	61	202	6453	34.6
20	49	194	5189	28.1
15	36	182	3809	21.2
10	24	168	2532	14.7
5	12	142	1246	7.9
2	5	110	491	4.1