

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00621_12 ~ SGE8BX70L-35KMD-DO101-AR8BXSGWF.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00621_12_M-70L

[TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 6/7/2018

[UPDATE] 7/19/2018

[LUMCAT] SGE8BX-70L35K-MD-DO101-AR8BX-SGWF

[LUMINAIRE] Nom. 8" Diam x 9" H, Open aperture

[OTHER] Semi-diffuse aluminum reflector trim

[OTHER] Deep regressed retrofit high output LED downlight

[OTHER] BX Series, Medium Beam

[OTHER] 41 Deg Beam Angle

[LAMPCAT] N/A

[LAMP] N/A, Bridgelux Vero 29

[OTHER] Dimmable driver tested at 100% output

[OTHER] Tested CCT: 3500K

[OTHER] CCT Output: 27K x 0.932, 30K x 1.00, 40K x 1.01

[OTHER] This report prepared by Spectrum Lighting, scaled from 80L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5567
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	51
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.68
Spacing Criterion (90-270)	0.68
Spacing Criterion (Diagonal)	0.68
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.63 ft (Diameter)
Luminous Width (90-270)	0.63 ft (Diameter)
Luminous Height	0.00 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00621_12 ~ SGE8BX70L-35KMD-DO101-AR8BXSGWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	216	196	237
55	88	98	119
65	77	122	74
75	117	135	72
85	351	273	350

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	11333.477	11333.477	11333.477	11333.477	11333.477	11333.477	11333.477	11333.477	11333.477	11333.477
2.5	11293.258	11307.168	11283.823	11312.827	11286.994	11087.289	11181.880	11203.143	11277.438	11260.089
5.0	11013.953	11046.966	10977.803	11012.251	10974.891	110684.069	10817.228	10837.187	10924.477	10921.073
7.5	10618.802	10651.315	10534.536	10605.799	10537.370	10137.096	10318.052	10343.938	10444.516	10409.844
10.0	9939.422	10015.773	9833.668	9931.594	9848.719	9336.851	9576.559	9549.118	9684.490	9622.195
12.5	9172.544	9217.498	9028.014	9139.176	9054.072	8441.812	8698.363	8672.003	8798.691	8714.235
15.0	8181.079	8274.241	8017.463	8155.072	8038.169	7372.961	7672.199	7591.052	7742.078	7605.445
17.5	7179.757	7230.335	6992.146	7082.623	6993.654	6321.242	6560.524	6523.214	6606.740	6509.258
20.0	6152.424	6220.567	5937.222	6042.604	5887.874	5301.719	5545.238	5488.743	5571.658	5434.615
22.5	5140.287	5235.412	4953.257	5017.919	4869.730	4344.477	4587.894	4489.613	4584.773	4421.865
25.0	4169.396	4290.214	4115.166	4146.400	4044.166	3509.144	3686.088	3584.662	3673.891	3517.481
27.5	3248.039	3374.490	3278.769	3349.171	3226.024	2682.492	2818.469	2724.915	2800.485	2692.780
30.0	2467.640	2539.603	2446.007	2538.817	2424.909	1873.264	2011.777	1989.096	2056.697	2013.282
32.5	1696.506	1765.722	1634.480	1721.828	1637.132	1127.604	1243.482	1275.782	1378.440	1340.721
35.0	952.512	1060.116	869.670	1012.323	880.782	512.776	662.604	625.957	787.927	681.107
37.5	343.882	408.001	286.770	358.531	296.289	79.456	204.489	123.251	243.631	204.984
40.0	151.803	86.772	121.751	89.195	127.669	35.777	15.796	56.037	37.308	85.756
42.5	5.506	30.707	5.438	27.396	6.374	5.156	7.728	5.047	13.431	5.759
45.0	4.428	4.336	4.019	4.619	4.858	3.303	3.834	3.525	3.770	3.993
47.5	3.392	2.661	2.976	3.427	3.554	1.973	2.805	2.295	2.098	2.780
50.0	2.494	1.656	2.843	2.451	2.805	1.848	2.260	1.981	1.495	2.695
52.5	1.736	1.222	2.500	1.598	2.197	1.661	2.061	1.728	1.507	2.438
55.0	1.455	1.070	1.622	1.165	1.983	1.327	1.786	1.671	1.385	1.818
57.5	1.219	1.164	1.013	0.982	1.739	1.090	1.457	1.568	1.184	1.308
60.0	1.147	1.120	1.111	0.933	1.415	1.090	1.191	1.306	1.149	1.041
62.5	1.062	0.950	1.248	0.968	1.121	1.099	0.975	1.146	1.217	0.873
65.0	0.939	1.170	1.492	1.163	0.909	1.134	0.770	1.350	1.116	0.928
67.5	0.906	1.725	1.505	1.455	0.808	1.045	0.572	1.379	0.918	0.975
70.0	1.106	1.589	1.060	1.117	0.943	0.729	0.782	0.968	0.861	1.008
72.5	1.094	1.077	0.919	0.583	0.840	0.895	1.173	0.829	0.857	0.952
75.0	0.880	0.994	1.014	1.135	0.543	1.418	1.116	0.941	0.896	0.836
77.5	0.888	0.974	1.014	1.140	0.848	0.952	0.932	1.057	0.794	1.015
80.0	0.844	0.994	0.960	0.701	1.035	0.742	0.668	1.106	0.582	0.928
82.5	0.814	0.927	0.866	0.817	0.963	0.803	0.798	0.957	0.543	0.853
85.0	0.886	0.941	0.690	0.794	0.884	0.763	1.142	0.670	0.754	0.919
87.5	0.799	1.077	0.629	0.919	0.845	1.214	0.795	0.829	1.318	0.530
90.0	0.468	0.220	0.471	0.262	0.997	1.008	0.322	0.482	0.430	0.800
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert.
Angles

Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	11333.477	11333.477	11333.477	11333.477	11333.477	11333.477	11333.477
2.5	11320.932	11300.827	11314.149	11327.040	11290.044	11306.788	11293.258
5.0	11007.084	10946.189	10983.272	11129.245	11046.059	11051.182	11013.953
7.5	10539.366	10463.628	10501.125	10780.275	10656.507	10683.689	10618.802
10.0	9799.566	9661.594	9742.732	10160.951	99984.782	10037.322	9939.422
12.5	8901.378	8767.388	8833.346	9374.193	9195.423	9261.441	9172.544
15.0	7835.044	7636.573	7771.028	8396.515	8168.445	8298.121	8181.079
17.5	6668.464	6524.037	6623.070	7297.783	7122.827	7245.481	7179.757
20.0	5610.452	5460.619	5585.207	6221.814	6038.594	6221.034	6152.424
22.5	4619.747	4447.812	4611.501	5160.617	5009.309	5210.593	5140.287
25.0	3703.718	3574.949	3719.762	4231.478	4098.757	4242.739	4169.396
27.5	2835.086	2754.969	2876.945	3391.399	3235.303	3296.577	3248.039
30.0	2109.853	2085.483	2144.096	2639.193	2476.284	2509.744	2467.640
32.5	1477.786	1417.913	1479.495	1947.633	1739.787	1806.113	1696.506
35.0	883.079	756.066	875.328	1267.321	1054.553	1124.367	952.512
37.5	313.594	226.549	309.559	595.073	489.300	454.524	343.882
40.0	58.994	104.247	63.103	224.432	209.360	147.538	151.803
42.5	21.948	10.131	24.335	74.995	9.990	42.743	5.506
45.0	5.620	7.229	7.479	9.323	7.431	3.906	4.428
47.5	4.162	4.731	5.433	6.501	5.163	2.721	3.392
50.0	3.274	3.586	4.309	4.641	3.621	2.086	2.494
52.5	2.805	2.601	3.824	3.531	2.328	1.776	1.736
55.0	2.240	2.165	3.043	2.684	1.688	1.611	1.455
57.5	1.603	1.770	2.053	2.048	1.244	1.534	1.219
60.0	1.309	1.528	1.573	1.560	1.329	1.275	1.147
62.5	1.284	1.293	1.469	1.195	1.415	0.903	1.062
65.0	1.209	1.084	1.386	1.044	1.502	0.877	0.939

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00621_12 ~ SGE8BX70L-35KMD-DO101-AR8BXSGWF.IES****CANDELA TABULATION - (Cont.)**

67.5	1.096	0.946	1.318	1.062	1.420	1.062	0.906
70.0	1.092	0.988	0.988	1.051	0.994	1.263	1.106
72.5	1.139	0.864	0.543	1.026	0.879	1.461	1.094
75.0	1.153	0.583	0.683	0.946	1.012	1.066	0.880
77.5	1.153	1.153	0.963	0.888	0.969	0.869	0.888
80.0	1.103	1.374	1.267	0.848	0.842	0.907	0.844
82.5	0.828	1.173	0.743	0.720	0.689	1.120	0.814
85.0	0.876	0.917	1.073	0.899	0.733	0.935	0.886
87.5	0.995	1.069	1.340	0.910	0.615	0.658	0.799
90.0	0.316	0.755	1.032	0.378	0.721	0.160	0.468
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00621_12 ~ SGE8BX70L-35KMD-DO101-AR8BXSGWF.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3185.13	N.A.	57.20
0-30	4960.84	N.A.	89.10
0-40	5547.29	N.A.	99.70
0-60	5563.49	N.A.	99.90
0-80	5565.64	N.A.	100.00
0-90	5566.56	N.A.	100.00
10-90	4555.73	N.A.	81.80
20-40	2362.16	N.A.	42.40
20-50	2376.71	N.A.	42.70
40-70	17.33	N.A.	0.30
60-80	2.15	N.A.	0.00
70-80	1.02	N.A.	0.00
80-90	0.92	N.A.	0.00
90-110	0.08	N.A.	0.00
90-120	0.08	N.A.	0.00
90-130	0.08	N.A.	0.00
90-150	0.08	N.A.	0.00
90-180	0.08	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5566.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1010.83
10-20	2174.3
20-30	1775.72
30-40	586.44
40-50	14.55
50-60	1.66
60-70	1.13
70-80	1.02
80-90	0.92
90-100	0.08
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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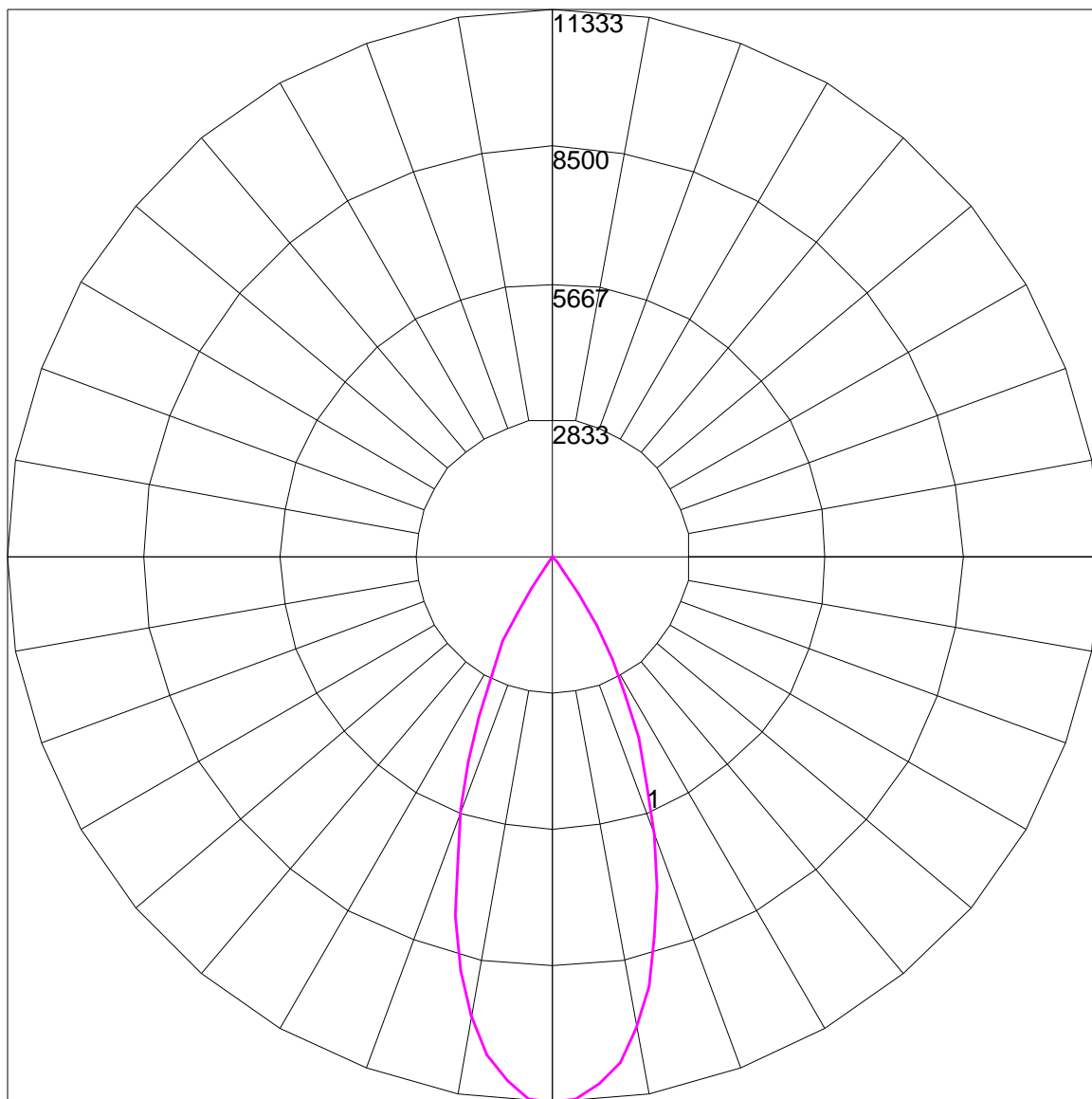
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90
3	105	100	96	92	103	99	95	92	96	93	90	94	91	89	91	89	87	86
4	101	95	90	87	99	94	89	86	92	88	85	90	87	84	88	85	83	82
5	97	90	85	82	96	89	85	81	87	84	81	86	83	80	84	82	79	78
6	93	86	81	77	92	85	80	77	84	80	76	82	79	76	81	78	75	74
7	90	82	77	73	88	81	76	73	80	76	73	79	75	72	78	75	72	71
8	86	78	73	70	85	78	73	70	77	72	69	76	72	69	75	71	69	68
9	83	75	70	67	82	74	70	66	74	69	66	73	69	66	72	68	66	65
10	80	72	67	64	79	71	67	64	71	66	63	70	66	63	69	66	63	62

IES INDOOR REPORT
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POLAR GRAPH



Maximum Candela = 11333.477 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)