

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P286868

Luminaire Tested: **DWI-WA-15L840-1D-UNV-STD-W-WM-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (ITL87014-GONIOPHOTOMETRY)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DWI-WA-15L840-1D-UNV-STD-W-WM-4
Description: DIVIDE 4' WALL MOUNTED DIRECT/INDIRECT LED LUMINAIRE
WAVESTREAM SPECULAR OPTIC, ASYMMETRIC
Light Source: (154) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1487.0 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Spacing Criteria (0/90/45): 1.55 / 1.46 / 1.61
Luminous Opening: Rectangular (W 3.86' x L: 0.36' x H: 0')
CIE Type: General Diffuse

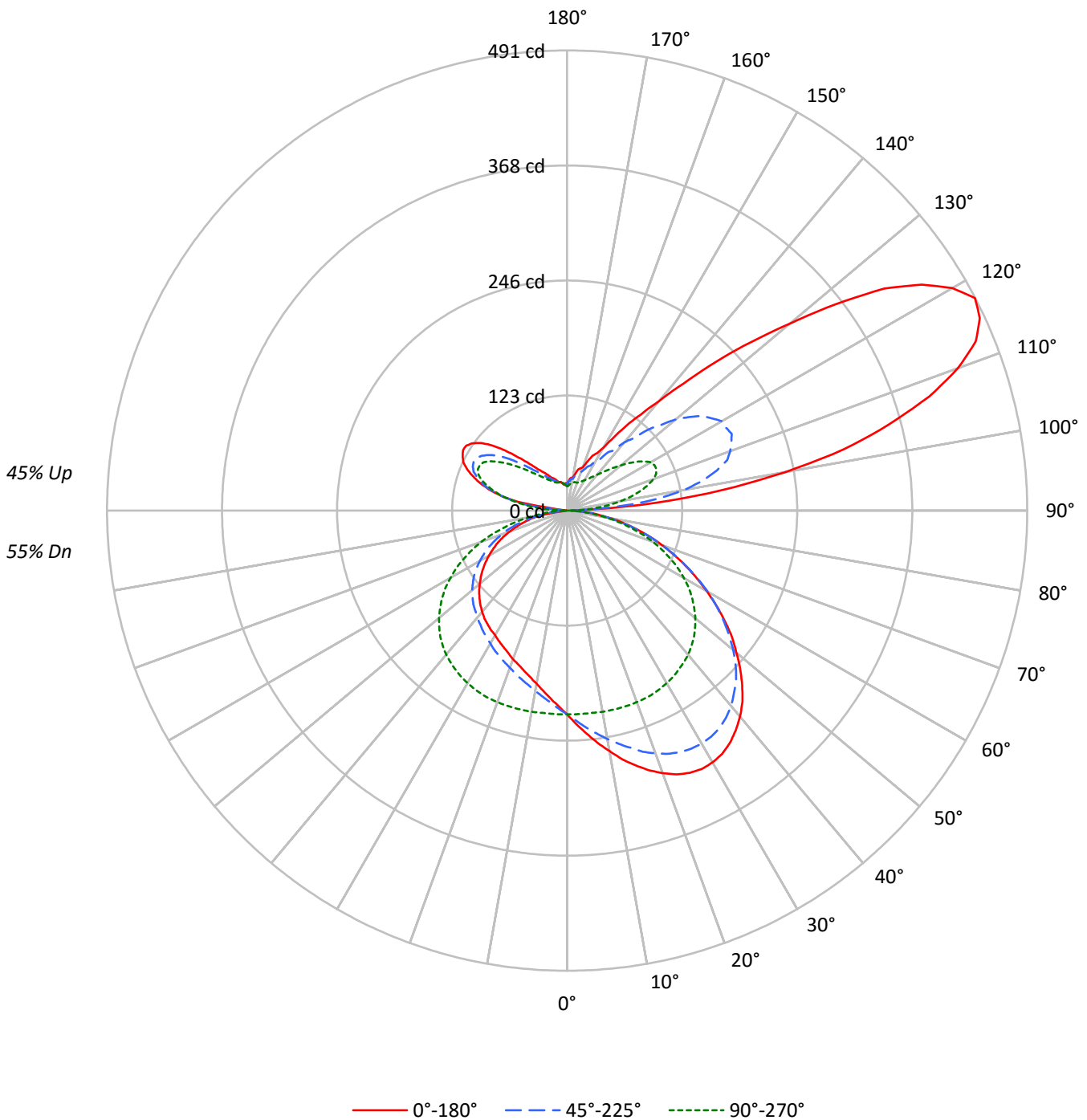
Input Watts (W): 11.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P286868

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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
RCR																		
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	98	94	90	86	91	87	84	80	75	72	70	64	62	60	53	52	51	46
2	89	81	75	69	82	76	70	65	65	61	57	55	52	49	46	44	42	37
3	81	71	63	57	75	66	59	54	57	52	47	48	44	41	40	37	35	31
4	74	62	54	48	68	58	51	45	50	44	40	43	38	34	36	32	29	26
5	68	55	47	41	62	52	44	38	45	38	34	38	33	29	32	28	25	22
6	62	49	41	35	57	46	38	33	40	34	29	34	29	26	29	25	22	19
7	57	44	36	30	53	42	34	29	36	30	26	31	26	22	26	22	19	17
8	53	40	32	27	49	38	30	25	33	27	22	28	23	20	24	20	17	15
9	49	37	29	24	46	34	27	22	30	24	20	26	21	18	22	18	15	13
10	46	33	26	21	43	31	25	20	27	22	18	24	19	16	20	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	1662	1662	1662
5°	1831	1668	1544
10°	2022	1691	1455
15°	2226	1724	1400
20°	2424	1768	1372
25°	2603	1821	1355
30°	2737	1875	1355
35°	2823	1934	1381
40°	2862	2003	1406
45°	2854	2066	1429
50°	2803	2121	1446
55°	2736	2168	1465
60°	2626	2200	1471
65°	2520	2200	1484
70°	2401	2176	1450
75°	2261	2051	1393
80°	2077	1830	1271
85°	1823	1508	0



TEST NUMBER: P286868

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.0	1.4
10°-20°	63.6	4.3
20°-30°	104.6	7.0
30°-40°	136.7	9.2
40°-50°	151.4	10.2
50°-60°	144.0	9.7
60°-70°	115.1	7.7
70°-80°	69.3	4.7
80°-90°	17.2	1.2
90°-100°	43.9	2.9
100°-110°	146.4	9.8
110°-120°	178.0	12.0
120°-130°	142.5	9.6
130°-140°	80.7	5.4
140°-150°	39.5	2.7
150°-160°	20.4	1.4
160°-170°	10.0	0.7
170°-180°	2.9	0.2
0°-30°	189.2	12.7
0°-40°	325.9	21.9
0°-60°	621.3	41.8
0°-90°	822.9	55.3
90°-120°	368.2	24.8
90°-150°	630.8	42.4
90°-180°	664.0	44.7
0°-180°	1487.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	218	218	218	218	218	
5°	239	232	218	205	201	23
15°	281	262	218	187	177	80
25°	309	284	216	171	161	142
35°	303	283	207	157	148	189
45°	264	255	191	142	132	203
55°	205	203	163	121	110	183
65°	139	140	122	92	82	138
75°	77	76	70	54	47	81
85°	21	20	17	2	0	22
90°	5	4	0	0	0	5
95°	94	61	30	3	0	105
105°	356	165	81	84	85	370
115°	486	194	105	111	122	473
125°	413	176	91	103	125	364
135°	225	122	61	71	88	177
145°	111	76	43	47	54	71
155°	65	52	34	36	38	30
165°	46	38	31	30	31	13
175°	34	31	28	28	29	3
180°	26	26	26	26	26	



TEST NUMBER: P286868

CATALOG NUMBER: DWI-WA-15L840-1D-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	217.5	217.5	217.5	217.5	217.5	217.5	217.5	217.5	217.5	217.5	217.5
2.5°	228.2	228.2	227.7	227.2	226.1	224.6	223.1	221.6	220.1	218.5	217.5
5°	238.8	238.8	237.8	236.8	234.8	232.2	229.2	226.7	222.6	219.6	217.5
7.5°	250.0	250.0	248.5	246.4	243.9	239.8	235.8	231.2	225.1	220.6	217.5
10°	260.6	260.6	259.1	257.1	253.0	247.4	241.9	235.3	228.2	221.6	218.0
12.5°	271.8	271.8	269.2	266.7	261.6	255.0	247.9	239.3	231.2	222.1	218.0
15°	281.4	281.4	279.4	276.3	270.3	262.1	253.5	242.9	233.2	223.1	218.0
17.5°	290.5	290.5	288.5	284.5	278.4	269.8	259.1	246.4	235.3	223.6	218.0
20°	298.1	298.1	296.1	292.1	285.5	275.8	263.7	250.5	236.8	224.1	217.5
22.5°	304.7	304.2	302.2	297.6	291.0	280.9	268.2	252.5	238.3	224.1	217.0
25°	308.8	308.3	306.3	302.2	294.6	284.5	270.8	254.0	238.8	224.1	216.0
27.5°	310.8	310.3	308.8	304.2	297.1	286.5	272.8	255.6	238.8	223.6	214.5
30°	310.3	310.3	308.3	304.7	297.6	287.0	273.3	255.6	238.3	222.1	212.5
32.5°	307.8	307.3	305.8	302.7	296.1	286.0	272.8	254.5	237.3	220.1	210.4
35°	302.7	302.7	301.7	298.7	293.1	283.4	269.8	252.0	234.8	217.0	207.4
37.5°	295.6	295.6	295.1	292.6	287.5	278.4	265.7	249.0	231.2	214.0	204.3
40°	287.0	287.5	286.5	284.5	280.4	272.3	260.6	244.4	227.2	209.9	200.8
42.5°	276.8	276.8	275.8	274.8	271.3	263.7	253.5	238.3	222.1	204.8	196.2
45°	264.2	264.2	263.7	263.2	260.1	255.0	245.4	231.2	216.0	199.3	191.2
47.5°	250.5	251.0	250.5	250.5	248.5	243.9	235.3	222.1	208.9	193.2	185.1
50°	235.8	236.8	236.3	236.8	234.8	231.2	224.1	213.0	200.8	186.1	178.5
52.5°	221.6	221.1	220.6	221.6	220.6	217.5	211.4	202.8	191.2	178.0	170.9
55°	205.4	204.8	205.4	206.4	205.4	203.3	198.8	190.7	181.0	169.4	162.8
57.5°	189.1	188.6	189.1	190.1	189.6	188.6	184.6	178.0	170.4	159.7	154.1
60°	171.9	172.4	172.9	173.4	174.4	173.4	169.4	164.8	158.7	149.6	144.0
62.5°	155.7	155.7	156.7	157.2	157.7	156.7	154.7	150.6	146.5	138.4	133.4
65°	139.4	139.4	139.9	140.5	141.5	140.5	138.9	136.4	132.8	126.3	121.7
67.5°	123.7	123.2	123.7	124.7	124.2	124.2	122.2	121.7	118.6	113.6	110.0
70°	107.5	107.0	107.5	107.5	108.0	107.5	107.0	106.5	103.9	101.4	97.4
72.5°	92.3	91.3	91.8	92.3	91.8	91.8	90.8	90.8	89.2	87.2	83.7
75°	76.6	76.1	76.1	76.1	76.1	75.6	74.0	75.0	74.5	73.0	69.5
77.5°	61.4	61.4	61.9	60.8	61.4	59.8	60.3	59.3	59.8	58.3	55.8
80°	47.2	46.6	46.6	46.6	46.6	45.6	45.1	44.6	45.6	44.1	41.6
82.5°	32.5	33.0	32.5	31.9	32.5	32.5	31.9	30.9	31.4	29.9	28.4
85°	20.8	20.8	20.8	19.8	19.8	19.8	20.3	19.8	19.3	18.3	17.2
87.5°	9.6	10.1	10.1	10.1	10.1	9.6	9.6	9.1	8.6	8.1	7.6
90°	5.1	5.1	4.6	4.6	4.1	3.5	3.0	2.0	1.5	0.5	0.0
92.5°	15.2	12.2	15.7	16.7	16.7	16.7	14.7	13.7	14.2	14.2	14.7
95°	94.3	90.3	93.3	89.2	78.6	61.4	41.1	33.0	31.4	29.9	30.4
97.5°	165.8	161.7	163.3	154.1	132.8	97.9	64.4	50.2	47.7	44.6	44.6
100°	235.8	232.7	229.2	216.0	181.0	126.8	83.7	65.9	62.9	58.8	57.8
102.5°	302.7	297.6	290.0	266.7	220.6	148.1	99.4	79.6	77.1	71.5	70.0
105°	355.9	351.4	343.3	307.3	247.9	165.3	111.6	92.3	89.7	82.6	81.1
107.5°	405.1	402.6	382.3	342.8	266.7	179.0	123.7	104.5	99.9	92.8	90.3
110°	443.7	439.6	419.3	366.6	279.9	185.1	135.4	115.6	107.0	100.9	97.9



TEST NUMBER: P286868

CATALOG NUMBER: DWI-WA-15L840-1D-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	472.1	469.0	438.6	377.8	280.4	189.6	142.0	122.7	111.6	106.5	102.9
115°	485.8	481.2	450.8	379.3	278.4	193.7	146.5	125.7	115.1	110.0	105.0
117.5°	490.8	485.8	444.2	368.6	268.2	191.2	151.6	128.3	116.6	110.5	105.0
120°	474.6	470.0	429.0	350.4	259.1	190.7	150.6	130.8	117.1	109.0	102.9
122.5°	448.7	443.2	403.1	328.1	241.9	183.0	146.5	126.8	114.6	104.5	97.9
125°	412.7	407.7	362.5	295.6	228.2	175.9	143.5	119.7	107.5	97.4	90.8
127.5°	362.0	359.0	322.5	267.2	205.9	163.8	132.3	113.6	97.9	89.7	83.2
130°	310.3	308.3	283.4	236.8	188.1	151.6	124.2	106.0	88.2	81.1	75.0
132.5°	265.7	264.2	239.8	202.8	166.3	134.9	111.6	93.3	81.1	72.5	67.9
135°	224.6	224.1	201.8	175.9	145.0	122.2	98.9	84.2	74.5	64.9	61.4
137.5°	183.6	183.6	171.9	151.1	128.8	104.5	90.3	78.1	67.4	58.3	54.8
140°	152.6	150.6	144.5	124.7	108.0	95.3	77.6	67.9	59.3	52.7	50.2
142.5°	129.3	127.3	117.1	107.5	94.8	80.6	73.5	60.8	52.7	47.7	46.1
145°	111.0	110.5	99.9	96.3	85.2	76.1	62.9	58.3	49.2	43.6	42.6
147.5°	92.3	92.3	89.7	80.6	72.0	64.9	60.3	51.2	47.2	40.6	39.5
150°	77.6	77.6	78.1	71.5	67.9	62.4	53.7	47.2	44.6	38.5	37.5
152.5°	69.0	69.5	65.9	67.4	59.8	54.3	49.7	46.6	40.6	36.5	35.5
155°	64.9	65.4	60.3	57.8	53.7	51.7	48.2	42.1	37.5	35.5	34.0
157.5°	56.3	57.3	57.8	51.7	52.7	47.2	42.1	38.5	36.0	35.0	32.5
160°	49.2	49.7	50.2	51.2	45.1	44.1	43.1	39.5	36.5	34.5	31.9
162.5°	47.2	46.6	45.1	45.1	44.1	42.1	37.5	37.0	36.0	34.0	31.4
165°	45.6	46.1	44.6	40.1	41.1	38.5	38.0	33.5	33.5	33.0	31.4
167.5°	40.1	40.6	41.1	40.6	36.5	37.5	35.0	34.5	31.4	32.5	30.9
170°	35.5	36.0	35.5	36.5	37.5	34.5	33.5	34.0	30.9	31.9	30.4
172.5°	35.5	35.0	34.5	33.0	32.5	34.5	33.5	30.9	31.4	30.9	29.4
175°	34.0	34.5	34.5	34.0	33.0	31.4	30.4	30.9	31.4	29.4	27.9
177.5°	30.9	31.4	30.9	31.4	31.4	31.9	31.9	31.4	29.4	27.4	26.4
180°	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9



TEST NUMBER: P286868

CATALOG NUMBER: DWI-WA-15L840-1D-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	217.5	217.5	217.5	217.5
2.5°	214.5	211.4	209.4	208.9
5°	210.9	205.4	202.3	201.3
7.5°	207.9	200.3	195.7	194.2
10°	204.8	195.2	189.6	187.6
12.5°	201.3	190.7	184.1	182.0
15°	198.8	186.6	179.5	177.0
17.5°	195.7	182.5	174.9	172.4
20°	192.7	178.5	170.9	168.8
22.5°	190.1	174.9	167.3	164.3
25°	187.1	171.4	163.3	160.7
27.5°	184.1	167.8	159.7	157.2
30°	181.0	163.8	156.2	153.6
32.5°	177.5	160.2	153.1	151.1
35°	174.4	156.7	150.1	148.1
37.5°	170.9	152.6	146.5	145.0
40°	166.8	149.1	143.0	141.0
42.5°	162.8	145.0	139.4	136.9
45°	158.2	141.5	135.4	132.3
47.5°	153.6	136.9	130.3	127.3
50°	148.1	132.3	124.7	121.7
52.5°	142.0	126.8	119.2	116.1
55°	135.9	121.2	113.1	110.0
57.5°	129.3	114.6	106.5	103.4
60°	121.7	107.5	99.9	96.3
62.5°	113.6	99.9	92.3	89.2
65°	105.5	92.3	84.7	82.1
67.5°	96.8	83.2	76.1	74.0
70°	86.2	74.0	66.9	64.9
72.5°	75.0	64.9	57.3	56.3
75°	63.9	53.7	48.2	47.2
77.5°	52.2	42.6	39.0	38.5
80°	40.1	31.9	29.4	28.9
82.5°	27.4	21.3	2.5	0.0
85°	15.2	1.5	0.5	0.0
87.5°	1.5	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0
92.5°	3.5	0.5	0.0	0.0
95°	26.9	3.0	0.5	0.0
97.5°	45.1	39.5	14.7	0.0
100°	59.8	56.8	55.3	53.2
102.5°	71.0	71.0	72.0	71.5
105°	80.1	83.7	84.7	85.2
107.5°	88.7	94.3	96.3	97.4
110°	95.8	101.4	106.5	107.0



TEST NUMBER: P286868

CATALOG NUMBER: DWI-WA-15L840-1D-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
112.5°	99.4	108.0	113.6	115.6
115°	100.9	111.0	119.7	122.2
117.5°	100.9	112.6	123.2	125.7
120°	99.9	112.1	124.2	128.3
122.5°	95.8	108.5	123.7	128.3
125°	89.2	103.4	119.2	124.7
127.5°	82.6	96.8	112.1	118.6
130°	76.1	88.7	104.5	110.0
132.5°	67.9	80.1	93.8	98.9
135°	60.8	71.0	83.2	87.7
137.5°	55.8	63.9	73.5	77.1
140°	50.7	56.8	65.4	67.9
142.5°	45.1	52.2	57.3	59.8
145°	42.1	46.6	52.2	53.7
147.5°	40.1	44.1	48.2	49.2
150°	37.0	40.1	43.6	45.6
152.5°	35.0	39.0	41.1	41.6
155°	34.5	35.5	39.0	38.5
157.5°	33.5	35.0	35.5	37.0
160°	30.9	32.5	34.0	35.0
162.5°	30.4	32.5	33.5	32.5
165°	30.9	30.4	30.9	30.9
167.5°	29.4	30.4	29.4	31.4
170°	28.4	28.4	29.9	29.4
172.5°	29.4	29.4	27.9	27.9
175°	29.4	28.4	27.9	28.9
177.5°	25.4	27.9	28.9	29.4
180°	25.9	25.9	25.9	25.9

(END OF REPORT)