

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: McGRAW-EDISON

Report Number: P232736

Luminaire Tested: **CTN-8-3-D-E1-T5-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232736  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-171-21)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: CTN-8-3-D-E1-T5-7030  
Description: CELESTEON HIGH MAST LUMINAIRE  
(8) 70 CRI, 3000K LEDS AND TYPE V OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31032 lumens  
Efficiency: N/A  
Efficacy: 137.3 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B5 - U0 - G5

Input Watts (W): 226  
Input Voltage (V): NR  
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

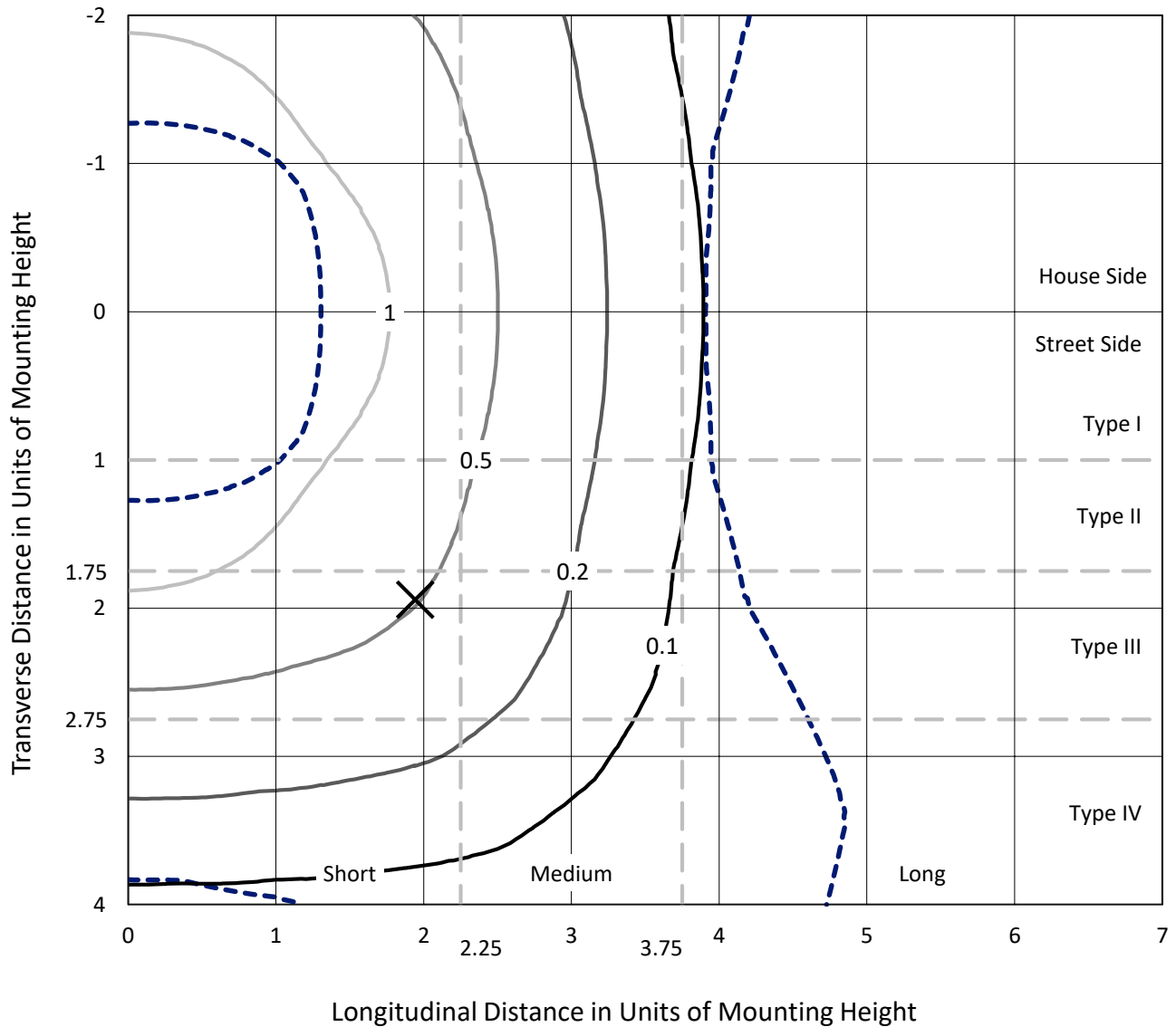


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### Iso-Footcandle Lines of Horizontal Illumination

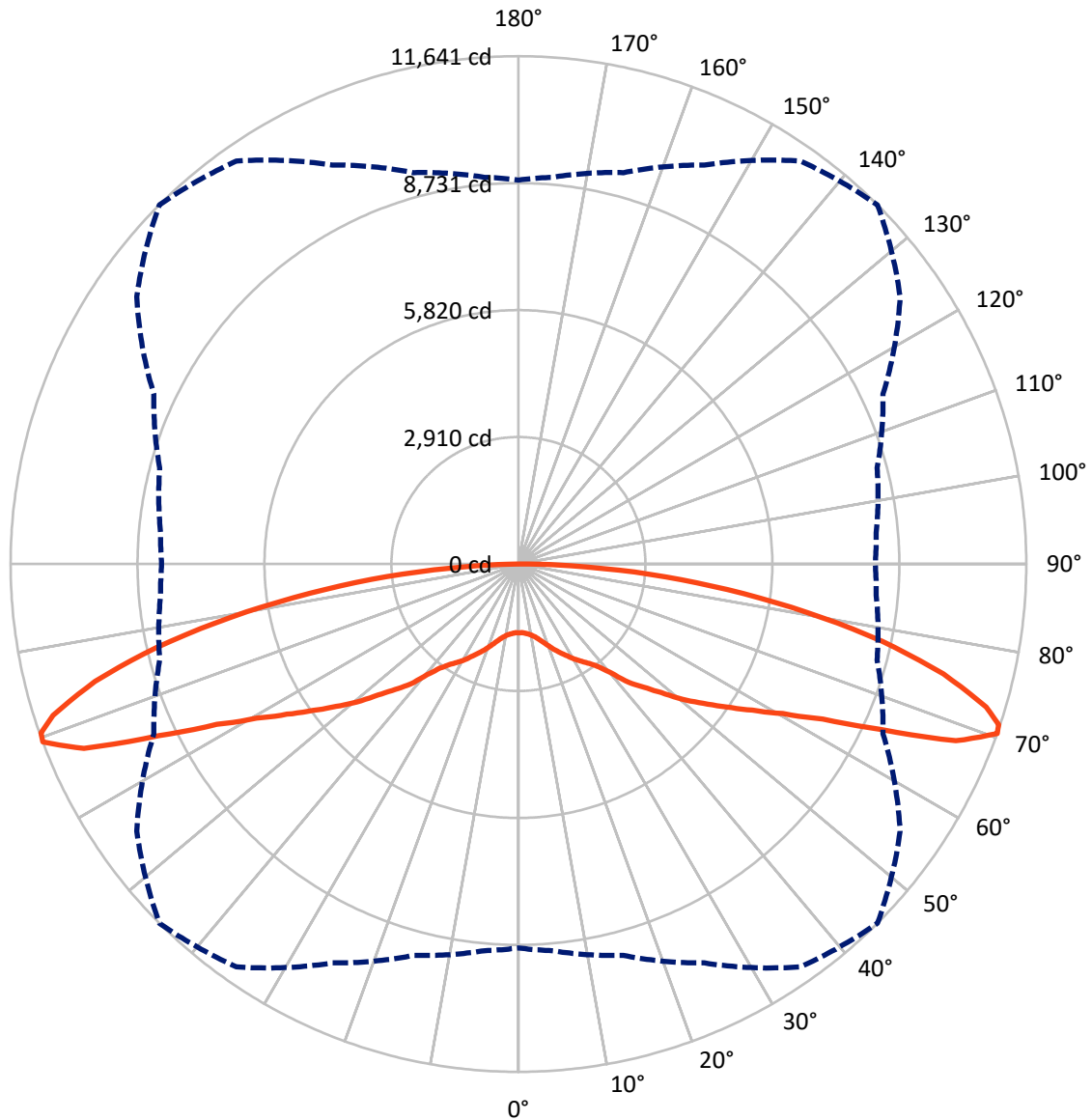
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 1.9 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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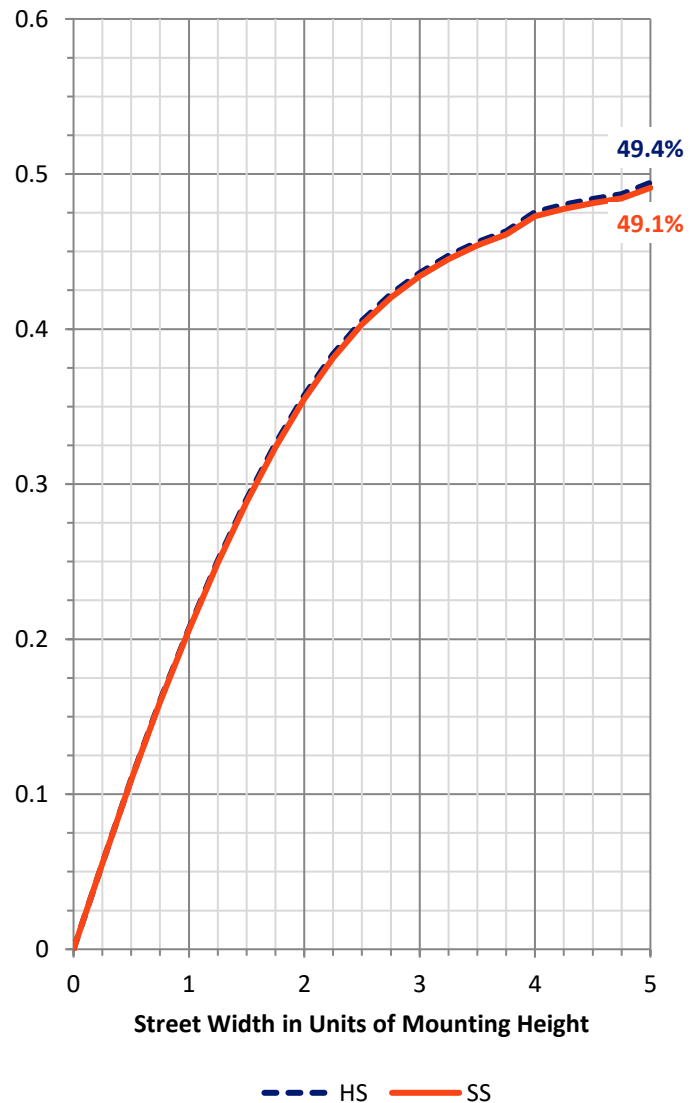
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15516.0	0.0	15516.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15516.0	0.0	15516.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	31032.0	0.0	31032.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.6	0.5
10°-20°	514.6	1.7
20°-30°	1028.3	3.3
30°-40°	1768.3	5.7
40°-50°	3271.3	10.5
50°-60°	5560.2	17.9
60°-70°	8962.5	28.9
70°-80°	7921.3	25.5
80°-90°	1850.9	6.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	31032.0	100.0
0°-180°	31032.0	100.0



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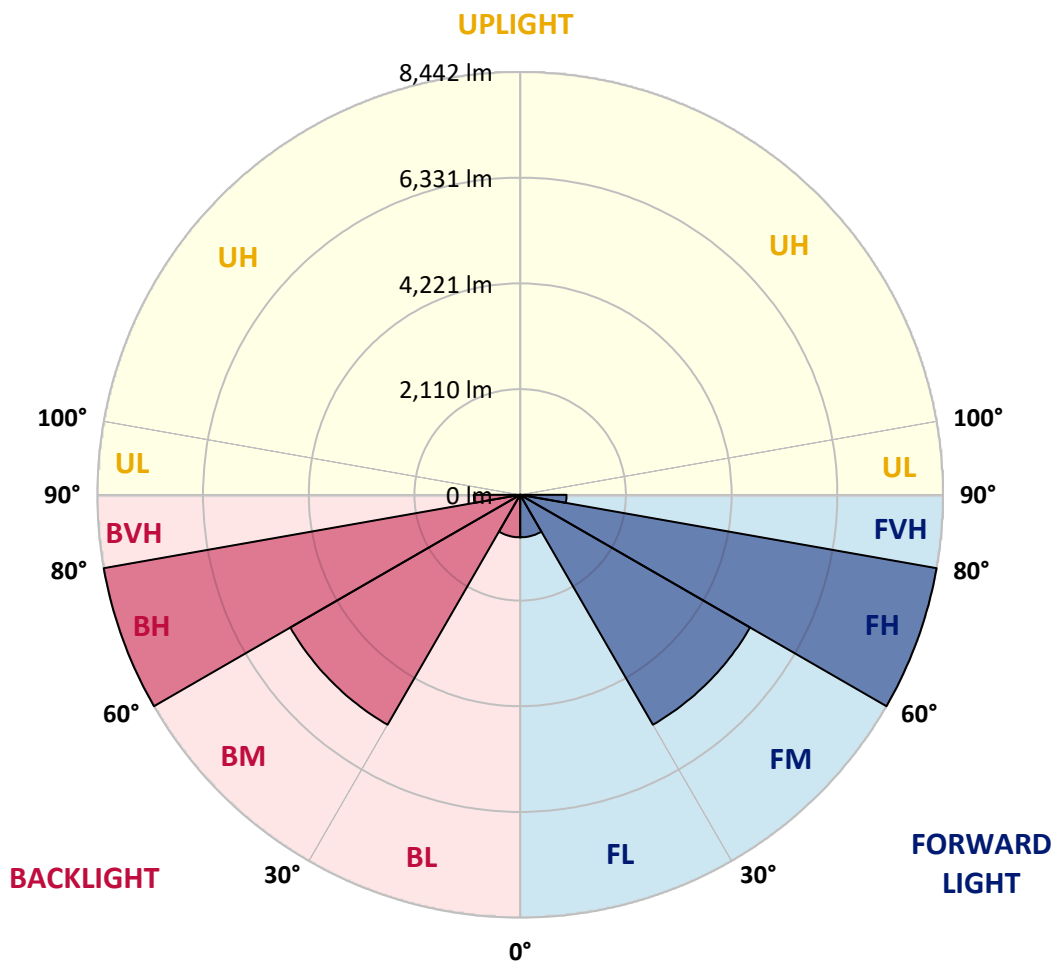
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	848.7	2.7			
FM	(30°-60°)	5299.9	17.1			
FH	(60°-80°)	8441.9	27.2			G4/12000
FVH	(80°-90°)	925.5	3.0			G5
BL	(0°-30°)	848.7	2.7	B2/1000		
BM	(30°-60°)	5299.9	17.1	B4/8500		
BH	(60°-80°)	8441.9	27.2	B5		G4/12000
BVH	(80°-90°)	925.5	3.0			G5
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7	1576.7
2.5°	1590.3	1587.4	1588.4	1588.4	1570.8	1574.7	1575.7	1586.4	1586.4	1591.3	1592.3
5°	1605.9	1601.1	1602.0	1605.9	1589.4	1592.3	1592.3	1603.0	1601.1	1606.9	1609.9
7.5°	1633.3	1629.4	1629.4	1633.3	1613.8	1618.6	1615.7	1625.5	1621.6	1624.5	1630.4
10°	1677.2	1676.2	1673.3	1675.3	1653.8	1656.7	1650.9	1661.6	1653.8	1654.8	1665.5
12.5°	1728.0	1727.0	1727.0	1729.9	1711.4	1716.3	1706.5	1710.4	1696.7	1698.7	1707.5
15°	1790.5	1792.4	1794.4	1803.2	1791.4	1796.3	1781.7	1779.7	1764.1	1764.1	1774.8
17.5°	1876.4	1876.4	1877.3	1896.9	1890.0	1897.9	1877.3	1863.7	1848.1	1850.0	1852.0
20°	1983.8	1979.9	1981.8	2005.2	2007.2	2013.0	1980.8	1962.3	1945.7	1946.7	1944.7
22.5°	2098.0	2090.2	2089.2	2121.4	2135.1	2137.0	2092.1	2074.6	2053.1	2056.0	2054.1
25°	2207.3	2199.5	2195.6	2222.0	2258.1	2256.1	2207.3	2181.9	2172.2	2172.2	2174.1
27.5°	2315.7	2305.9	2302.0	2317.6	2374.3	2384.0	2319.6	2297.1	2287.4	2296.2	2300.1
30°	2425.0	2417.2	2415.3	2420.2	2484.6	2527.5	2428.0	2418.2	2417.2	2425.0	2433.8
32.5°	2557.8	2556.8	2549.0	2548.0	2595.9	2658.4	2557.8	2563.7	2579.3	2596.9	2608.6
35°	2728.6	2726.7	2705.2	2715.0	2738.4	2797.0	2739.4	2743.3	2785.3	2811.6	2826.3
37.5°	2956.1	2941.5	2914.1	2915.1	2926.8	2986.4	2963.9	2994.2	3070.3	3119.2	3114.3
40°	3278.3	3254.9	3213.9	3202.1	3200.2	3285.1	3306.6	3374.9	3495.0	3567.3	3562.4
42.5°	3739.1	3714.7	3652.2	3635.6	3642.4	3708.8	3771.3	3879.7	3984.1	4068.1	4063.2
45°	4211.6	4180.3	4079.8	4023.2	3974.4	4025.1	4122.7	4292.6	4417.6	4527.9	4525.9
47.5°	4758.3	4709.5	4588.4	4480.1	4382.4	4401.0	4505.4	4699.7	4851.0	4961.4	4954.5
50°	5351.9	5303.0	5170.3	5007.2	4855.9	4868.6	4919.4	5124.4	5274.7	5382.1	5384.1
52.5°	5986.4	5951.3	5799.0	5583.2	5375.3	5304.0	5336.2	5525.6	5698.4	5800.0	5808.8
55°	6670.8	6636.6	6476.5	6227.6	5942.5	5782.4	5781.4	5971.8	6146.5	6235.4	6249.0
57.5°	7357.1	7338.6	7198.0	6926.6	6567.3	6322.3	6266.6	6464.8	6661.0	6752.8	6771.3
60°	8063.9	8038.5	7921.4	7693.9	7299.5	6963.7	6869.9	7068.1	7289.7	7384.4	7396.2
62.5°	8864.4	8839.1	8749.2	8509.1	8218.2	7829.6	7693.9	7876.5	8081.5	8232.8	8217.2
65°	9665.0	9659.1	9697.2	9588.8	9366.2	9143.7	8876.2	9076.3	9227.6	9213.0	9208.1
67.5°	9537.1	9574.2	9837.8	10213.6	10683.2	10816.0	10198.0	9637.6	9307.7	9116.3	9055.8
70°	8801.0	8896.7	9287.2	10088.7	11272.9	11640.9	10680.3	9219.8	8511.0	8231.8	8178.1
71°	8394.9	8470.0	8920.1	9899.3	11276.8	11608.7	10566.1	8905.4	8185.0	7802.3	7765.2
72.5°	7604.1	7720.3	8217.2	9380.9	10934.1	11213.3	10068.2	8319.7	7565.0	7192.1	7171.6
75°	6079.2	6114.3	6755.7	8077.6	9845.6	10067.2	8937.7	7219.4	6441.4	6186.6	6171.9
77.5°	4290.7	4291.6	4906.7	6296.9	8162.5	8521.8	7740.8	5952.3	5166.4	4846.2	4774.9
80°	2272.7	2365.5	2975.6	4327.8	6114.3	6705.9	6151.4	4500.6	3632.7	3165.0	3099.6
82.5°	1035.8	1102.2	1497.6	2453.3	4021.2	4829.6	4220.4	2921.9	1946.7	1441.9	1400.0
85°	402.2	412.0	618.0	1165.7	2248.3	3029.3	2457.2	1369.7	677.5	413.9	383.7
87.5°	131.8	140.6	201.1	449.1	956.7	1209.6	949.9	412.0	131.8	82.0	79.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)