

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: LUMARK

Report Number: P144219

Luminaire Tested: **LDRL-5XQ-E01-E-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P144219
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33699)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRL-5XQ-E01-E-7030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2824.2 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B2 - U0 - G1

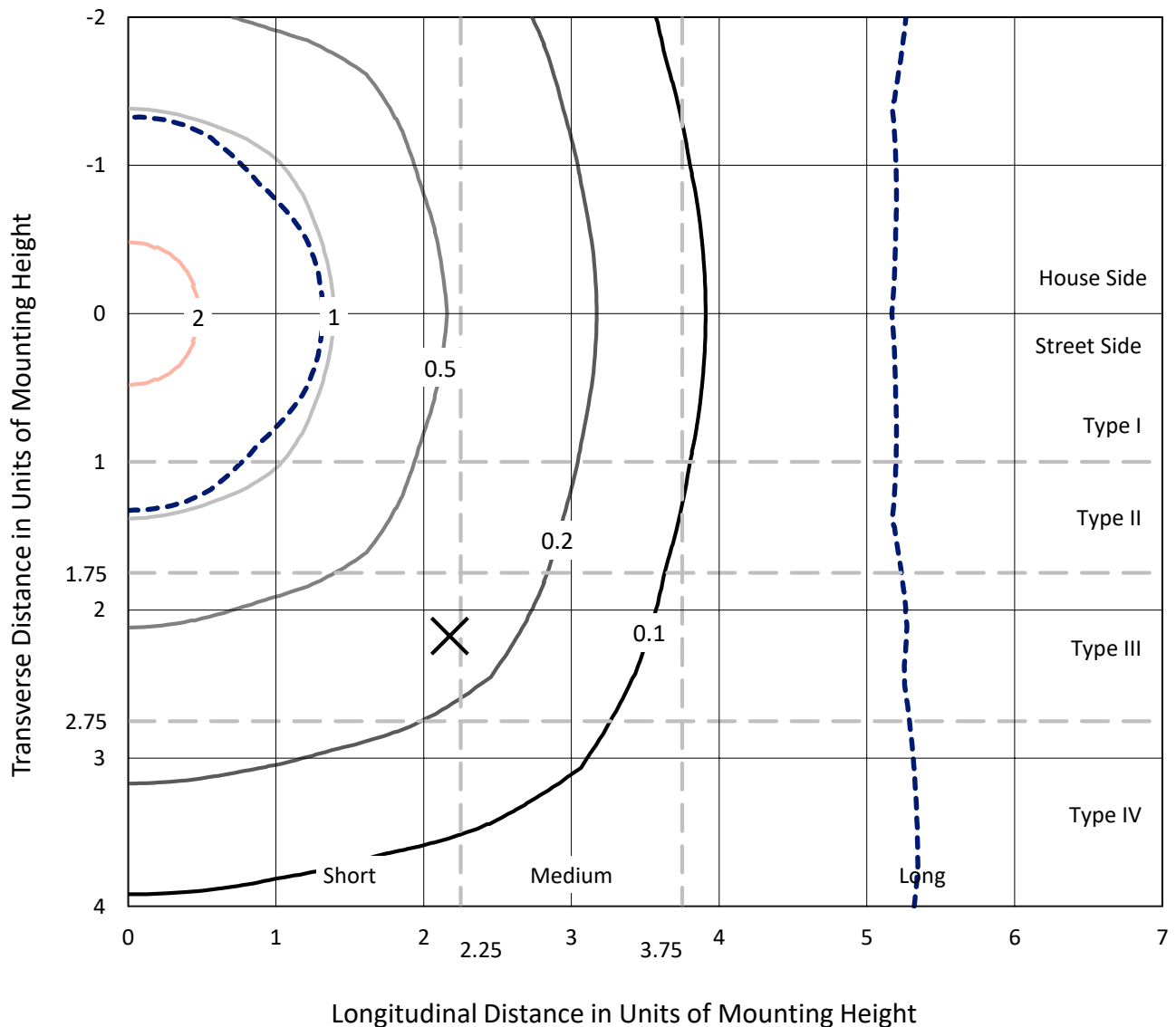
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

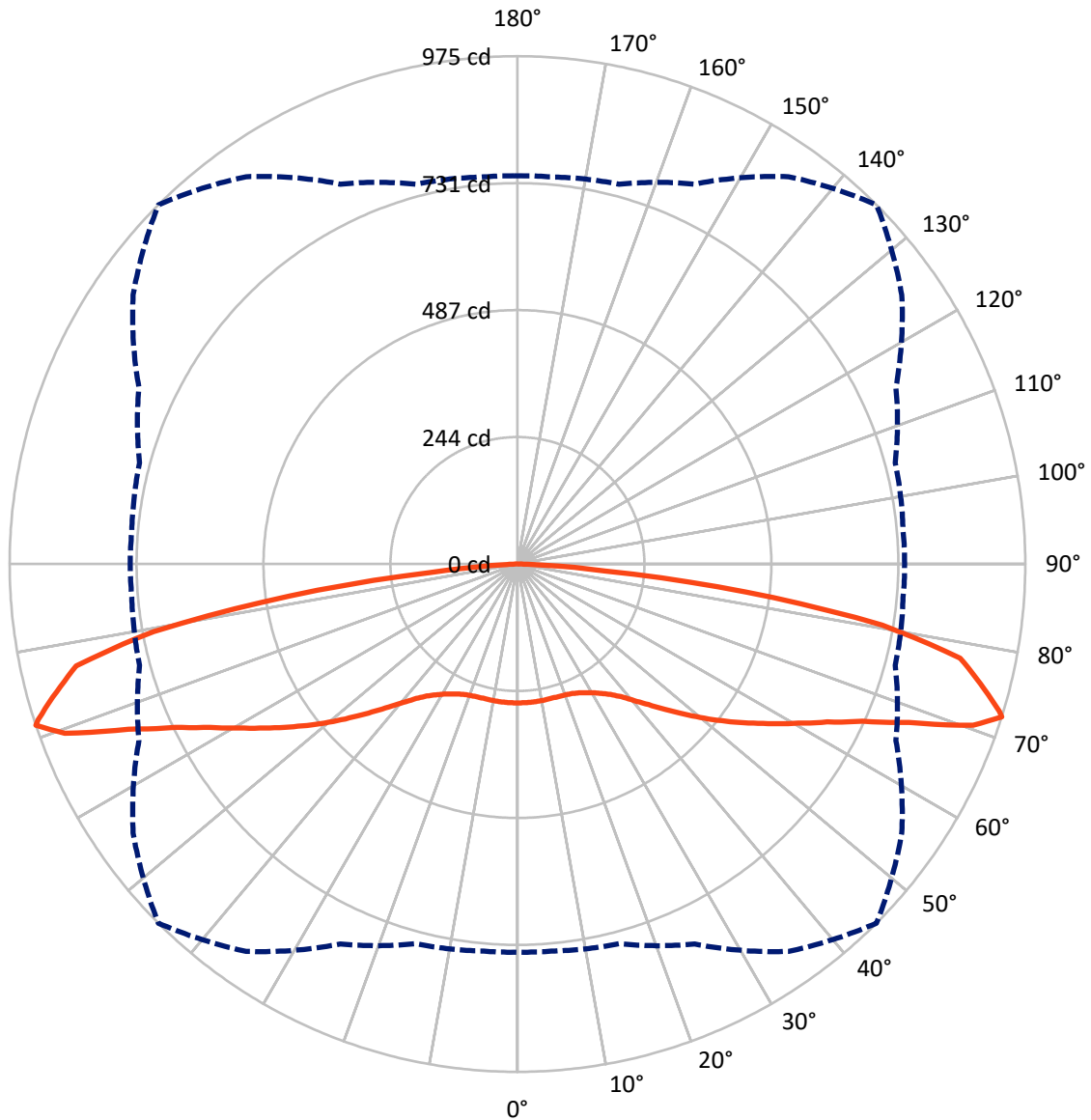
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1412.1	0.0	1412.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1412.1	0.0	1412.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	2824.2	0.0	2824.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.5	0.9
10°-20°	75.6	2.7
20°-30°	127.0	4.5
30°-40°	193.3	6.8
40°-50°	305.6	10.8
50°-60°	466.8	16.5
60°-70°	683.8	24.2
70°-80°	776.9	27.5
80°-90°	169.7	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°	2824.2	100.0
0°-180°	2824.2	100.0



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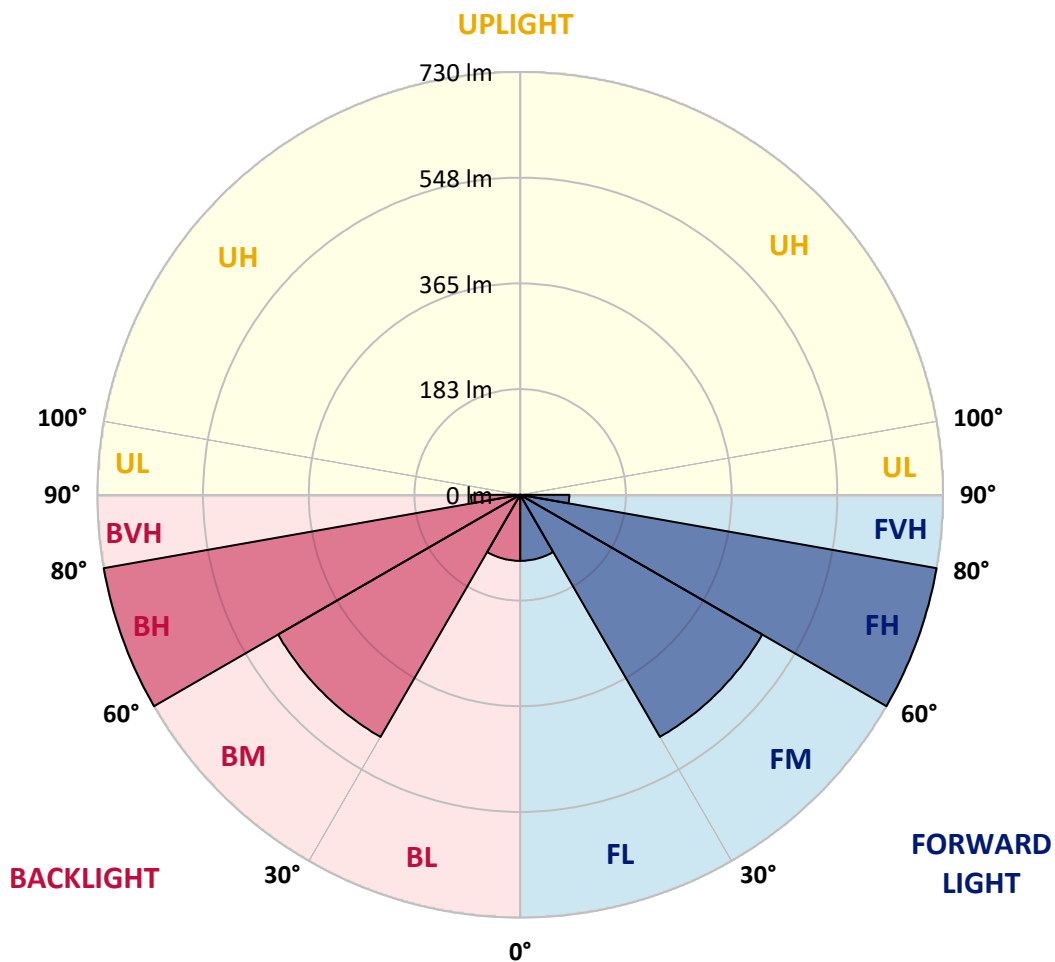
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	114.0	4.0			
FM (30°-60°)	482.8	17.1			
FH (60°-80°)	730.4	25.9			G1/1800
FVH (80°-90°)	84.8	3.0			G1/100
BL (0°-30°)	114.0	4.0	B1/500		
BM (30°-60°)	482.8	17.1	B1/1000		
BH (60°-80°)	730.4	25.9	B2/1000		G1/1800
BVH (80°-90°)	84.8	3.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	266.7	266.7	266.7	266.7	266.7	266.7	266.7	266.7	266.7	266.7	266.7
2.5°	267.2	267.2	267.0	266.8	266.7	266.6	266.6	266.6	266.6	266.5	266.6
5°	267.2	267.2	267.0	266.8	266.8	266.6	266.6	266.6	266.5	266.5	266.6
7.5°	266.9	267.0	266.8	266.7	266.6	266.6	266.6	266.5	266.4	266.4	266.4
10°	267.0	267.3	267.0	266.8	266.7	266.6	266.4	266.2	266.2	266.2	266.0
12.5°	267.2	267.6	267.2	266.9	266.8	266.6	266.4	266.2	266.1	266.0	265.8
15°	267.7	268.0	267.7	267.5	267.2	266.9	266.7	266.5	266.2	266.0	265.8
17.5°	268.0	268.5	268.2	267.8	267.5	267.2	267.1	266.9	266.7	266.5	266.3
20°	268.7	269.2	268.9	268.6	268.4	268.2	268.1	268.0	267.8	267.7	267.4
22.5°	269.9	270.2	270.2	270.0	270.1	270.2	270.2	270.2	270.2	270.1	269.8
25°	272.4	272.4	272.5	272.7	273.0	273.2	273.5	273.8	273.9	274.0	273.6
27.5°	276.6	277.0	277.2	277.2	277.7	278.2	278.7	279.2	279.5	279.8	279.4
30°	282.2	282.2	282.5	282.9	283.6	284.4	285.0	285.6	286.2	286.7	286.4
32.5°	289.4	289.8	290.3	290.7	291.7	292.6	293.7	294.8	295.4	296.1	295.6
35°	300.2	300.8	301.2	301.6	302.7	303.7	304.9	306.2	306.7	307.2	307.0
37.5°	315.6	315.6	316.2	316.8	317.5	318.1	319.8	321.4	322.1	322.8	322.2
40°	336.3	336.4	336.6	336.7	337.3	337.8	339.9	341.9	343.1	344.2	343.1
42.5°	360.2	361.2	361.1	361.0	361.4	361.8	363.8	365.7	367.4	369.0	368.4
45°	388.2	388.0	387.7	387.3	388.6	389.8	392.6	395.3	396.8	398.3	396.9
47.5°	416.7	416.4	415.9	415.4	416.6	417.8	422.0	426.1	428.2	430.4	428.1
50°	445.0	446.1	445.4	444.8	446.6	448.4	453.6	458.8	462.0	465.2	462.6
52.5°	476.3	477.1	476.4	475.6	478.2	480.6	486.8	493.0	497.2	501.4	497.9
55°	508.8	507.7	508.1	508.6	510.9	513.3	520.9	528.4	533.5	538.5	534.5
57.5°	539.0	539.4	539.0	538.6	542.4	546.1	555.6	565.2	571.5	577.8	572.8
60°	570.1	570.2	569.3	568.3	572.4	576.5	590.2	603.9	612.1	620.2	613.4
62.5°	604.8	604.8	603.1	601.5	606.3	611.1	628.1	645.1	656.4	667.6	659.2
65°	647.4	646.3	645.4	644.4	650.0	655.6	676.6	697.7	712.9	728.0	717.2
67.5°	710.1	709.3	707.4	705.5	711.7	717.8	744.8	771.8	791.4	811.0	796.8
70°	779.2	777.6	778.9	780.3	794.5	808.8	845.0	881.3	904.5	927.7	903.7
72°	745.1	745.8	750.2	754.6	779.6	804.6	856.1	907.6	941.2	974.8	937.6
72.5°	733.2	733.8	738.8	743.8	767.7	791.6	844.6	897.8	932.5	967.2	929.1
75°	682.8	684.3	690.1	695.9	720.0	744.2	797.8	851.4	884.6	917.9	879.7
77.5°	600.5	605.0	611.0	616.9	645.7	674.4	735.0	795.6	832.3	869.0	825.6
80°	458.4	456.6	466.8	477.0	504.4	532.0	578.8	625.6	668.0	710.3	661.5
82.5°	178.1	182.0	203.0	224.0	252.8	281.6	323.6	365.6	403.8	441.8	401.3
85°	18.4	21.0	28.5	36.0	51.7	67.4	93.0	118.6	143.6	168.7	141.5
87.5°	7.4	8.1	10.4	12.8	13.4	14.0	16.9	19.8	19.7	19.6	19.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	266.7	266.7	266.7	266.7	266.7	266.7	266.7	266.7
2.5°	266.6	266.7	266.8	266.8	266.8	266.9	267.0	266.9
5°	266.7	266.8	266.8	266.8	266.8	266.9	267.0	266.9
7.5°	266.5	266.4	266.4	266.5	266.7	266.8	266.8	266.7
10°	266.0	266.0	266.0	266.2	266.4	266.5	266.6	266.7
12.5°	265.7	265.7	265.8	265.9	266.0	266.2	266.3	266.5
15°	265.7	265.7	265.8	265.9	266.0	266.2	266.4	266.5
17.5°	266.0	266.0	265.9	266.0	266.1	266.3	266.5	266.7
20°	267.1	267.0	266.8	266.8	266.8	267.0	267.2	267.2
22.5°	269.4	269.0	268.5	268.4	268.4	268.4	268.4	268.5
25°	273.2	272.5	271.8	271.5	271.2	271.2	271.0	271.3
27.5°	279.0	278.1	277.3	276.8	276.3	276.0	275.8	275.8
30°	286.0	285.1	284.2	283.3	282.5	282.1	281.8	281.9
32.5°	295.1	294.0	292.8	291.7	290.6	290.1	289.6	289.7
35°	306.6	305.3	304.0	303.0	302.2	301.4	300.6	301.2
37.5°	321.7	320.5	319.2	318.7	318.0	317.4	316.7	316.7
40°	342.0	340.7	339.4	338.9	338.4	337.5	336.6	336.8
42.5°	367.7	365.8	363.8	363.0	362.0	361.6	361.2	361.5
45°	395.5	393.6	391.6	390.9	390.1	389.0	387.9	388.9
47.5°	425.8	423.4	421.0	419.6	418.2	418.6	419.0	418.1
50°	459.9	455.8	451.8	450.2	448.6	448.6	448.6	448.5
52.5°	494.3	488.7	483.0	481.7	480.4	480.0	479.7	479.3
55°	530.4	523.6	516.7	514.1	511.6	511.9	512.3	513.3
57.5°	567.7	558.6	549.6	546.6	543.7	544.0	544.2	545.8
60°	606.4	594.7	583.0	579.8	576.5	577.4	578.2	579.2
62.5°	650.8	636.6	622.3	618.0	613.7	614.8	615.8	618.5
65°	706.4	688.7	671.0	666.4	661.9	662.4	662.9	667.5
67.5°	782.4	758.9	735.2	731.1	726.9	727.6	728.4	735.8
70°	879.6	844.7	809.7	792.5	775.2	772.6	769.8	773.8
72°	900.5	851.1	801.7	776.2	750.8	746.9	743.0	743.3
72.5°	890.9	840.9	791.0	766.3	741.7	738.4	735.2	734.5
75°	841.4	792.6	743.7	718.2	692.8	686.6	680.4	680.4
77.5°	782.2	720.7	659.1	631.6	604.1	597.7	591.2	586.2
80°	612.8	557.6	502.4	474.4	446.6	436.2	425.9	419.8
82.5°	360.7	309.9	259.2	223.7	188.2	177.6	167.0	152.2
85°	114.3	87.9	61.6	48.0	34.5	27.9	21.3	18.6
87.5°	19.0	15.4	11.9	11.5	11.0	8.7	6.3	5.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)