

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: G3-2010-983-1

Luminaire Tested: **CLCS17S-40W-3000K**

Test Date: 10/16/2020

Report Generated By 670245982

**Test Information**

Test Method: LM-79-08  
Report Number: G3-2010-983-1  
Test Lab: COOPER LIGHTING SOLUTIONS  
Test Date: 10/16/2020  
Issue Date: 10/16/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: CLCS17S-40W-3000K  
Description: SELECTABLE CANOPY, 40W, 3000K  
Light Source: -  
Ballast/Driver: -  
SS-75L-42B

**Summary**

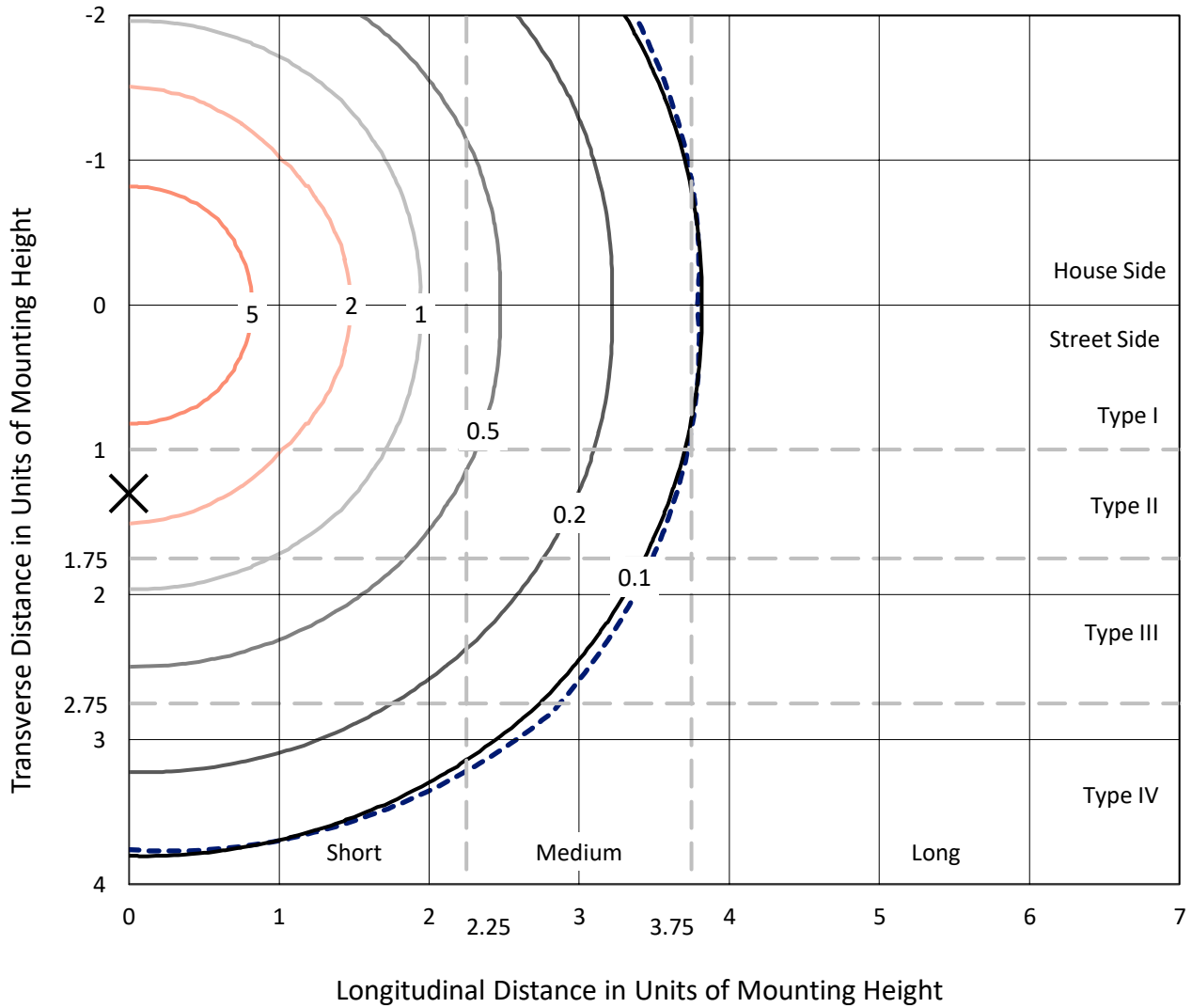
Lumens per Lamp: N/A  
Luminaire Lumens: 5322.6 lumens  
Efficiency: N/A  
Efficacy: 137.9 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 0.75' x H: 0.1')  
IES Classification: Type V - Short  
BUG Rating: B2 - U2 - G1  
  
Input Watts (W): 38.6  
Input Voltage (V): 120.0  
Input Current (Ain): 0.324  
Voltage Rise (V): NR  
Power Factor: 0.9926  
Total Harmonic Distortion (THDi): 6.33%  
Frequency (hertz): 60  
Stabilization Time: 0.5 HR  
Operation Time: 3 HR  
Ambient Temperature (°C): 25.1  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

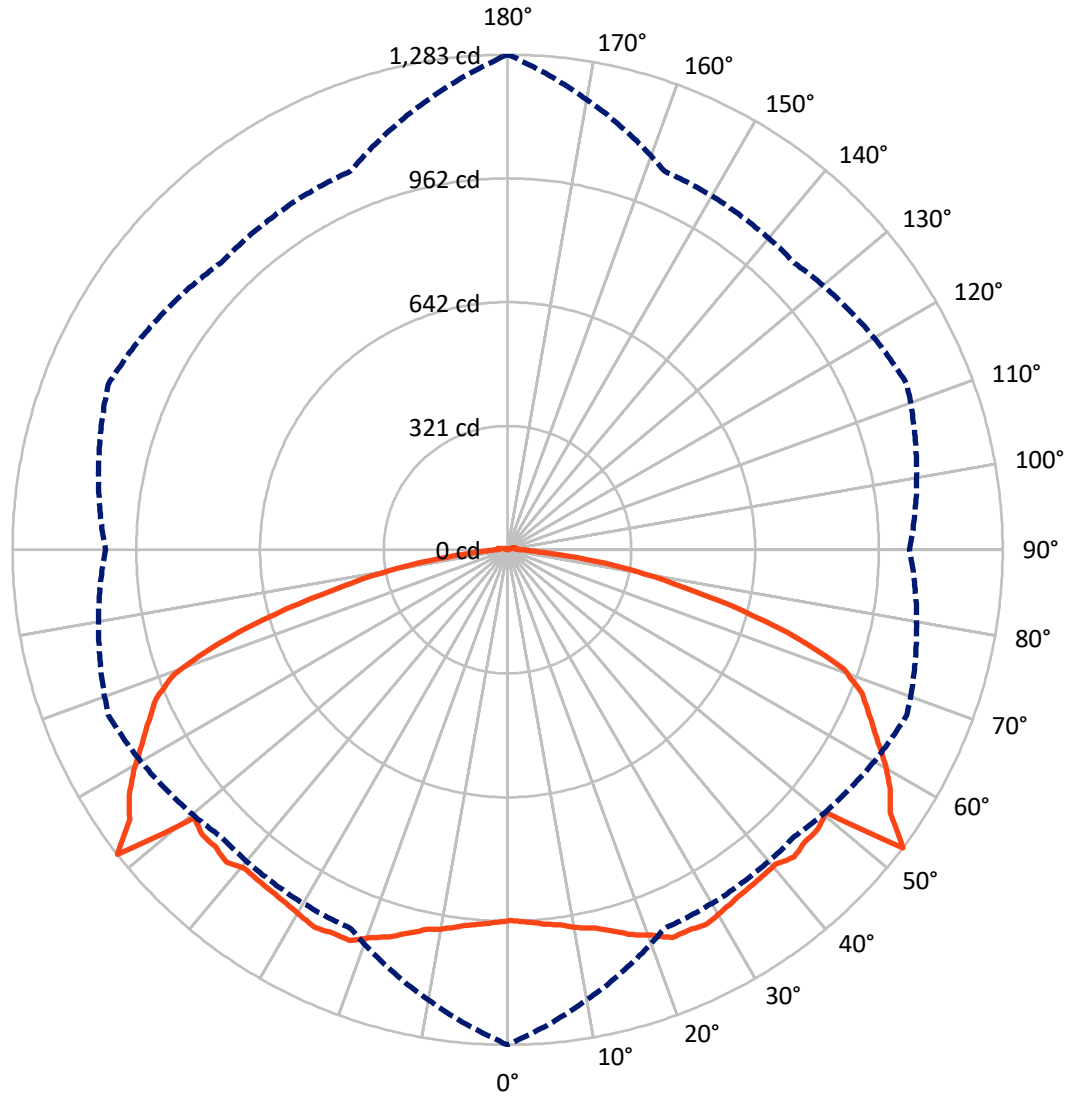
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 52.5-Deg Vertical

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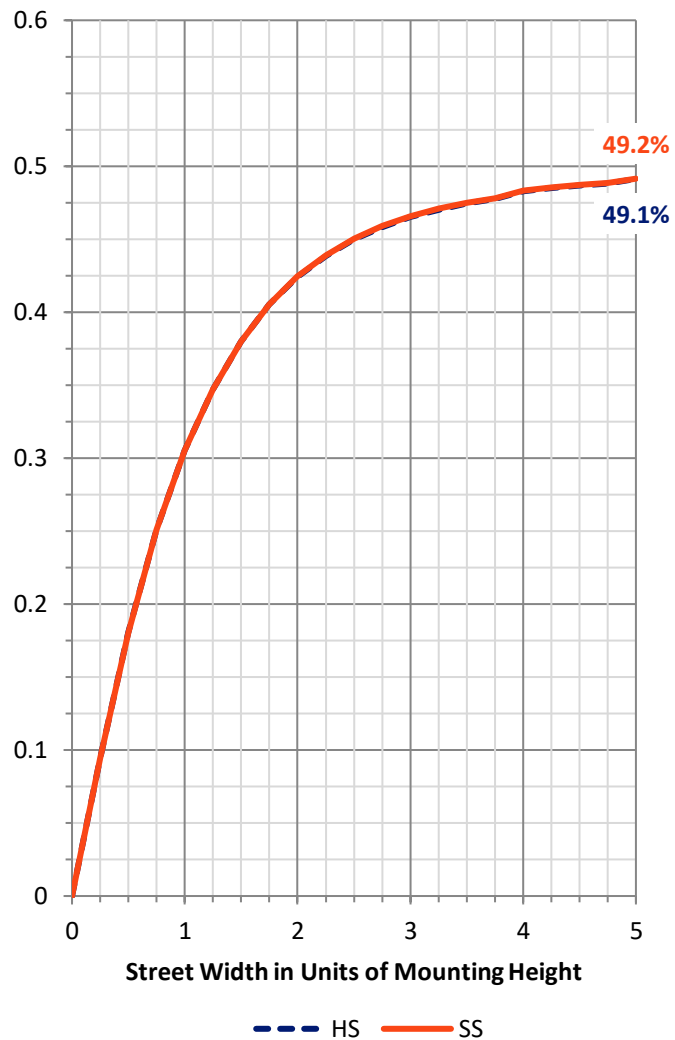
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2640.2   | 21.1   | 2661.3 |
|                    | % Fixture | 49.6     | 0.4    | 50.0   |
| <b>Street Side</b> | Lumens    | 2640.2   | 21.1   | 2661.3 |
|                    | % Fixture | 49.6     | 0.4    | 50.0   |
| <b>Total</b>       | Lumens    | 5280.4   | 42.2   | 5322.6 |
|                    | % Fixture | 99.2     | 0.8    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 94.4   | 1.8       |
| 10°-20°   | 293.4  | 5.5       |
| 20°-30°   | 504.9  | 9.5       |
| 30°-40°   | 689.1  | 12.9      |
| 40°-50°   | 832.3  | 15.6      |
| 50°-60°   | 991.5  | 18.6      |
| 60°-70°   | 1038.7 | 19.5      |
| 70°-80°   | 682.7  | 12.8      |
| 80°-90°   | 153.3  | 2.9       |
| 90°-100°  | 24.2   | 0.5       |
| 100°-110° | 13.2   | 0.2       |
| 110°-120° | 4.3    | 0.1       |
| 120°-130° | 0.5    | 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°    | 5280.4 | 99.2      |
| 0°-180°   | 5322.6 | 100.0     |

**Coefficient of Utilization**

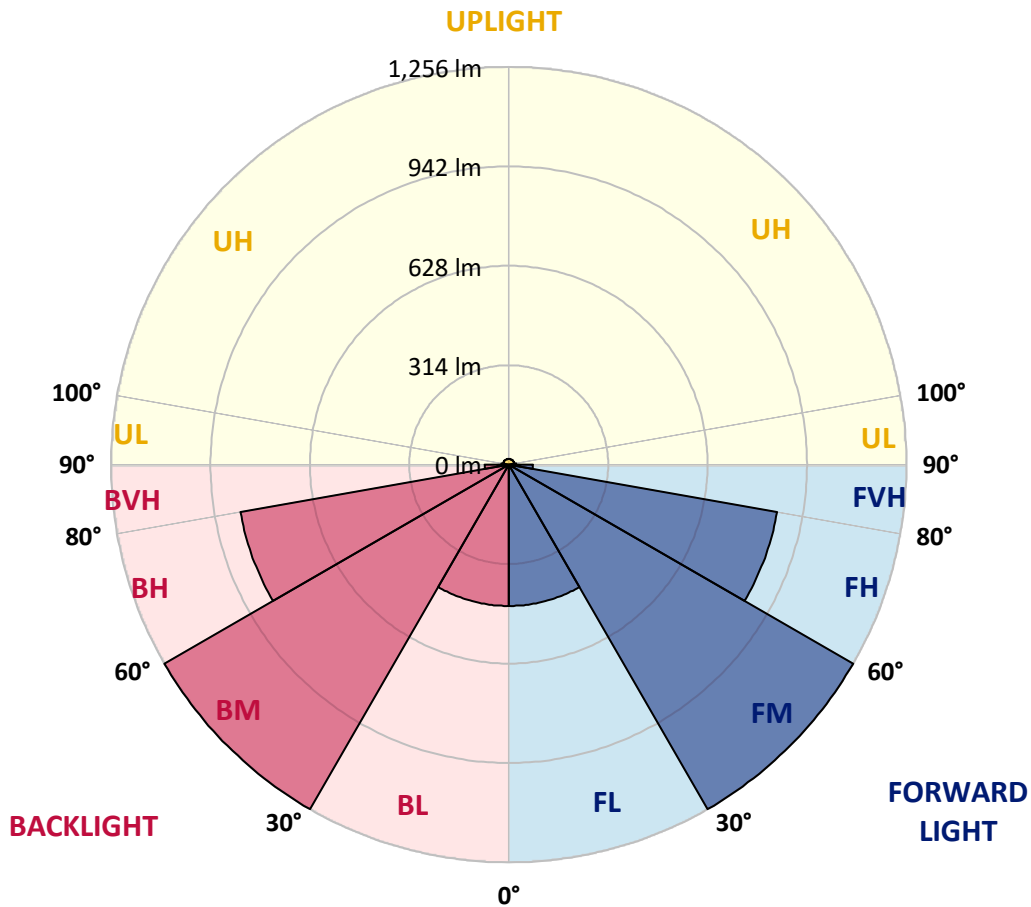


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |       |         |
|----------------|--------|-----------|-------------------------|-------|---------|
|                |        |           | B                       | U     | G       |
| FL (0°-30°)    | 446.4  | 8.4       |                         |       |         |
| FM (30°-60°)   | 1256.5 | 23.6      |                         |       |         |
| FH (60°-80°)   | 860.7  | 16.2      |                         |       | G1/1800 |
| FVH (80°-90°)  | 76.6   | 1.4       |                         |       | G1/100  |
| BL (0°-30°)    | 446.4  | 8.4       | B1/500                  |       |         |
| BM (30°-60°)   | 1256.5 | 23.6      | B2/2500                 |       |         |
| BH (60°-80°)   | 860.7  | 16.2      | B2/1000                 |       | G1/1800 |
| BVH (80°-90°)  | 76.6   | 1.4       |                         |       | G1/100  |
| UL (90°-100°)  | 24.2   | 0.5       |                         | U2/50 |         |
| UH (100°-180°) | 18.0   | 0.3       |                         | U2/50 |         |

**BUG Rating: B2-U2-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°   | 22.5° | 45°  | 67.5° | 90°  |
|--------|------|-------|------|-------|------|
| 0°     | 961  | 961   | 961  | 961   | 961  |
| 2.5°   | 966  | 967   | 970  | 975   | 976  |
| 5°     | 974  | 978   | 983  | 991   | 997  |
| 7.5°   | 982  | 991   | 995  | 994   | 993  |
| 10°    | 996  | 1015  | 1003 | 1000  | 995  |
| 12.5°  | 1006 | 1032  | 1013 | 1010  | 1012 |
| 15°    | 1026 | 1044  | 1028 | 1030  | 1034 |
| 17.5°  | 1049 | 1049  | 1044 | 1046  | 1049 |
| 20°    | 1066 | 1066  | 1064 | 1056  | 1056 |
| 22.5°  | 1092 | 1079  | 1082 | 1072  | 1083 |
| 25°    | 1092 | 1101  | 1098 | 1096  | 1087 |
| 27.5°  | 1099 | 1099  | 1103 | 1102  | 1091 |
| 30°    | 1090 | 1107  | 1109 | 1102  | 1105 |
| 32.5°  | 1081 | 1108  | 1114 | 1099  | 1097 |
| 35°    | 1076 | 1113  | 1115 | 1101  | 1071 |
| 37.5°  | 1073 | 1096  | 1104 | 1091  | 1068 |
| 40°    | 1071 | 1088  | 1101 | 1083  | 1087 |
| 42.5°  | 1089 | 1079  | 1095 | 1080  | 1099 |
| 45°    | 1080 | 1084  | 1084 | 1064  | 1056 |
| 47.5°  | 1082 | 1066  | 1066 | 1046  | 1074 |
| 50°    | 1069 | 1056  | 1051 | 1055  | 1099 |
| 52.5°  | 1283 | 1062  | 1051 | 1120  | 1042 |
| 55°    | 1203 | 1135  | 1058 | 1094  | 1220 |
| 57.5°  | 1169 | 1129  | 1069 | 1125  | 1059 |
| 60°    | 1124 | 1116  | 1096 | 1122  | 1100 |
| 62.5°  | 1073 | 1103  | 1120 | 1090  | 1022 |
| 65°    | 1030 | 1061  | 1104 | 1038  | 1056 |
| 67.5°  | 990  | 1017  | 1045 | 1019  | 953  |
| 70°    | 923  | 940   | 960  | 943   | 901  |
| 72.5°  | 788  | 817   | 829  | 826   | 778  |
| 75°    | 625  | 653   | 682  | 656   | 630  |
| 77.5°  | 463  | 471   | 504  | 486   | 488  |
| 80°    | 335  | 333   | 337  | 347   | 329  |
| 82.5°  | 203  | 217   | 224  | 219   | 204  |
| 85°    | 92   | 102   | 112  | 115   | 106  |
| 87.5°  | 54   | 56    | 54   | 58    | 58   |
| 90°    | 30   | 32    | 30   | 35    | 32   |
| 92.5°  | 23   | 23    | 19   | 23    | 24   |
| 95°    | 22   | 20    | 17   | 21    | 24   |
| 97.5°  | 25   | 22    | 17   | 22    | 24   |
| 100°   | 20   | 18    | 13   | 19    | 21   |
| 102.5° | 19   | 16    | 10   | 16    | 18   |
| 105°   | 15   | 12    | 8    | 13    | 16   |
| 107.5° | 13   | 10    | 5    | 11    | 13   |
| 110°   | 12   | 8     | 4    | 8     | 12   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|----|-------|-----|-------|-----|
| 112.5° | 8  | 5     | 3   | 6     | 9   |
| 115°   | 5  | 4     | 2   | 4     | 6   |
| 117.5° | 4  | 3     | 1   | 3     | 4   |
| 120°   | 3  | 2     | 0   | 2     | 3   |
| 122.5° | 3  | 1     | 0   | 1     | 2   |
| 125°   | 1  | 0     | 0   | 0     | 1   |
| 127.5° | 0  | 0     | 0   | 0     | 0   |
| 130°   | 0  | 0     | 0   | 0     | 0   |
| 132.5° | 0  | 0     | 0   | 0     | 0   |
| 135°   | 0  | 0     | 0   | 0     | 0   |
| 137.5° | 0  | 0     | 0   | 0     | 0   |
| 140°   | 0  | 0     | 0   | 0     | 0   |
| 142.5° | 0  | 0     | 0   | 0     | 0   |
| 145°   | 0  | 0     | 0   | 0     | 0   |
| 147.5° | 0  | 0     | 0   | 0     | 0   |
| 150°   | 0  | 0     | 0   | 0     | 0   |
| 152.5° | 0  | 0     | 0   | 0     | 0   |
| 155°   | 0  | 0     | 0   | 0     | 0   |
| 157.5° | 0  | 0     | 0   | 0     | 0   |
| 160°   | 0  | 0     | 0   | 0     | 0   |
| 162.5° | 0  | 0     | 0   | 0     | 0   |
| 165°   | 0  | 0     | 0   | 0     | 0   |
| 167.5° | 0  | 0     | 0   | 0     | 0   |
| 170°   | 0  | 0     | 0   | 0     | 0   |
| 172.5° | 0  | 0     | 0   | 0     | 0   |
| 175°   | 0  | 0     | 0   | 0     | 0   |
| 177.5° | 0  | 0     | 0   | 0     | 0   |
| 180°   | 0  | 0     | 0   | 0     | 0   |

(END OF REPORT)