

**TYPE C GONIOPHOTOMETER DISTRIBUTION TESTING**

**REPORT NO. 104553588CRT-001**

| Test Configuration | Tested Model No.      | Pass/Fail/NA |
|--------------------|-----------------------|--------------|
| 5                  | 9x4 30W Red With Trim | NA           |

**PHOTOMETRIC AND ELECTRICAL MEASUREMENTS (25°C +/- 1°C)**

| Base Orientation | Input Voltage (Vac) | Input Current (mA) | Input Power (W) | Input Power Factor ( ) |
|------------------|---------------------|--------------------|-----------------|------------------------|
| Up               | 120.02              | 161.5              | 19.02           | 0.981                  |
|                  | 200.09              | 102.0              | 19.05           | 0.933                  |
|                  | 239.97              | 89.0               | 19.12           | 0.896                  |
|                  | 276.92              | 80.9               | 19.28           | 0.860                  |

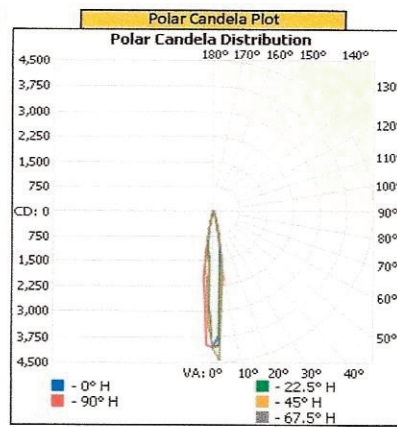
| Light Output (lm) | Lumen Efficacy (lm/W) |
|-------------------|-----------------------|
| 364.7             | 19.2                  |

Photometrics taken at 120Vac Input

**INTENSITY SUMMARY - CANDELA**

| Angle | 0    | 22.5 | 45   | 67.5 | 90   |
|-------|------|------|------|------|------|
| 0     | 4042 | 4042 | 4042 | 4042 | 4042 |
| 5     | 2120 | 2119 | 2405 | 2789 | 2617 |
| 10    | 1040 | 1085 | 1280 | 1206 | 1146 |
| 15    | 433  | 478  | 382  | 307  | 244  |
| 20    | 192  | 187  | 96   | 22   | 36   |
| 25    | 114  | 76   | 19   | 52   | 77   |
| 30    | 42   | 34   | 18   | 41   | 57   |
| 35    | 28   | 20   | 19   | 29   | 35   |
| 40    | 26   | 18   | 17   | 23   | 26   |
| 45    | 22   | 16   | 16   | 19   | 19   |
| 50    | 17   | 15   | 15   | 15   | 15   |
| 55    | 14   | 13   | 13   | 13   | 13   |
| 60    | 11   | 11   | 11   | 11   | 11   |
| 65    | 9    | 9    | 9    | 9    | 9    |
| 70    | 7    | 7    | 6    | 6    | 6    |
| 75    | 5    | 4    | 4    | 4    | 4    |
| 80    | 2    | 2    | 2    | 2    | 2    |
| 85    | 0    | 0    | 0    | 0    | 0    |
| 90    | 0    | 0    | 0    | 0    | 0    |
| 95    | 0    | 0    | 0    | 0    | 0    |
| 100   | 0    | 0    | 0    | 0    | 0    |
| 105   | 0    | 0    | 0    | 0    | 0    |
| 110   | 0    | 0    | 0    | 0    | 0    |
| 115   | 0    | 0    | 0    | 0    | 0    |
| 120   | 0    | 0    | 0    | 0    | 0    |
| 125   | 0    | 0    | 0    | 0    | 0    |
| 130   | 0    | 0    | 0    | 0    | 0    |
| 135   | 0    | 0    | 0    | 0    | 0    |
| 140   | 0    | 0    | 0    | 0    | 0    |
| 145   | 0    | 0    | 0    | 0    | 0    |
| 150   | 0    | 0    | 0    | 0    | 0    |
| 155   | 0    | 0    | 0    | 0    | 0    |
| 160   | 0    | 0    | 0    | 0    | 0    |
| 165   | 0    | 0    | 0    | 0    | 0    |
| 170   | 0    | 0    | 0    | 0    | 0    |
| 175   | 0    | 0    | 0    | 0    | 0    |
| 180   | 0    | 0    | 0    | 0    | 0    |

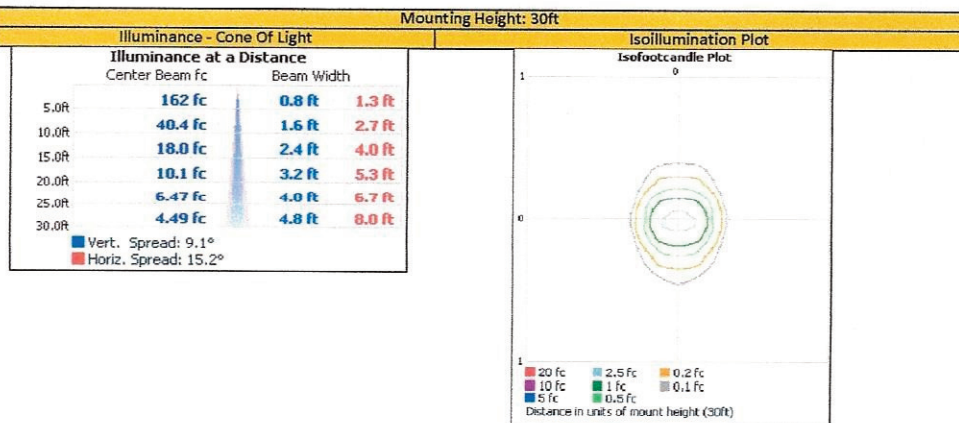
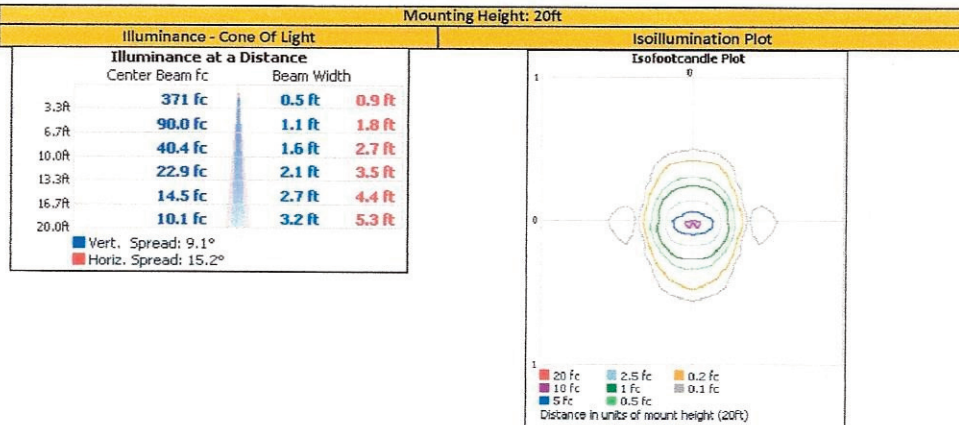
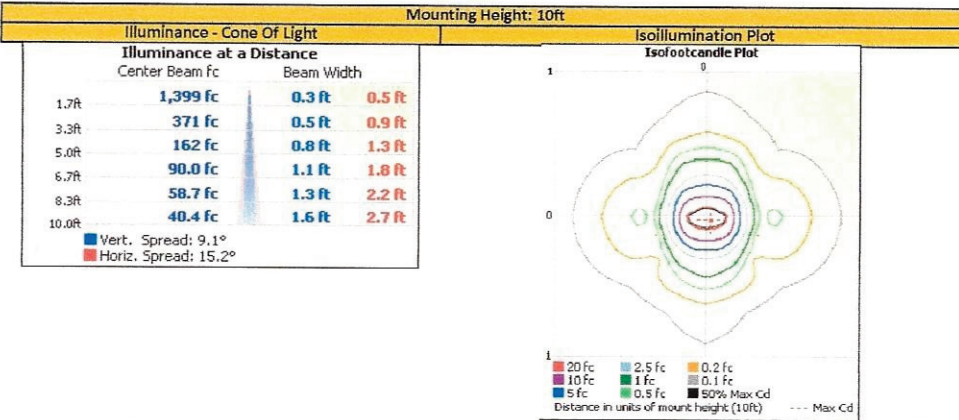
Entire luminous intensity matrix found in .IES file



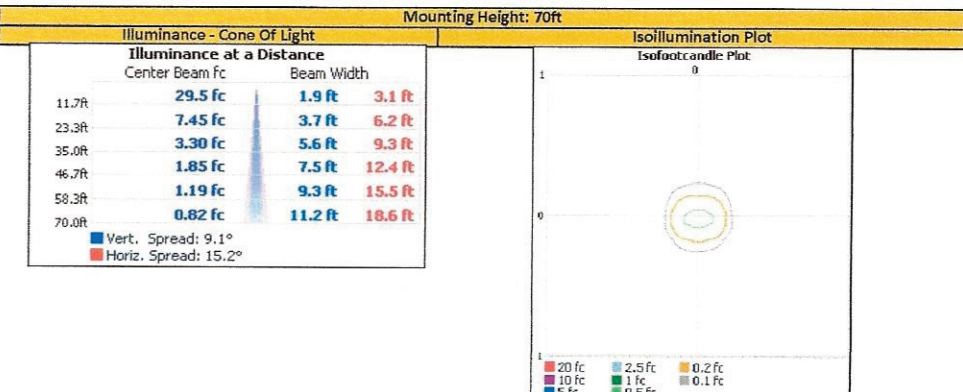
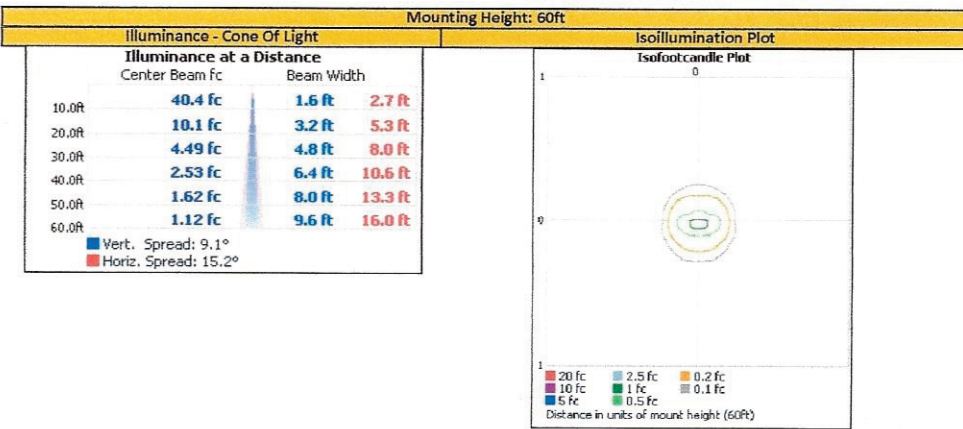
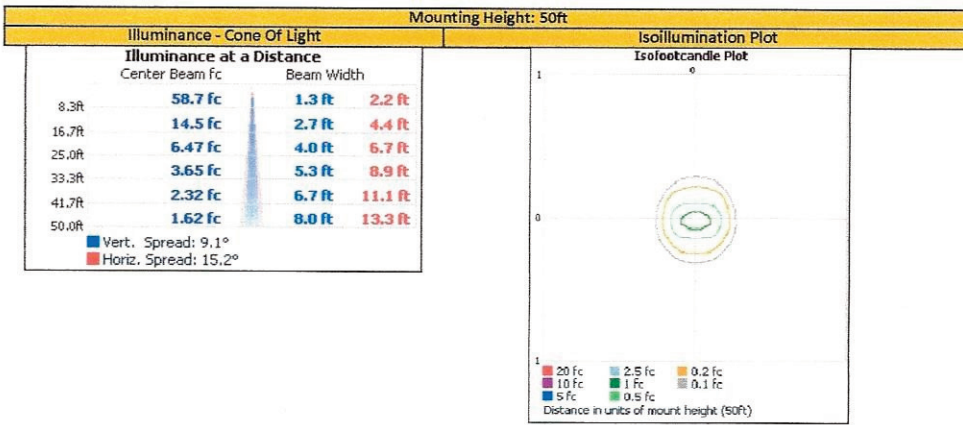
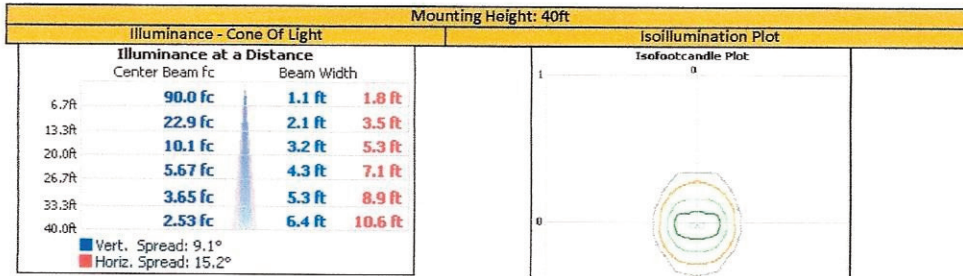
ILLUMINANCE SUMMARY

ZONAL LUMENS

| Zonal Lumen Summary |        |           |         |        |       |
|---------------------|--------|-----------|---------|--------|-------|
| Zone                | Lumens | Luminaire | Zone    | Lumens | Total |
| 0-30                | 310.9  | 85.3%     | 0-10    | 179.3  | 49.2% |
| 0-40                | 326.6  | 89.6%     | 10-20   | 104.8  | 28.7% |
| 0-60                | 351.6  | 96.4%     | 20-30   | 26.8   | 7.4%  |
| 60-90               | 13.0   | 3.6%      | 30-40   | 15.7   | 4.3%  |
| 70-100              | 4.6    | 1.3%      | 40-50   | 13.6   | 3.7%  |
| 90-120              | 0.0    | 0.0%      | 50-60   | 11.4   | 3.1%  |
| 0-90                | 364.7  | 100.0%    | 60-70   | 8.4    | 2.3%  |
| 90-180              | 0.0    | 0.0%      | 70-80   | 4.2    | 1.2%  |
| 0-180               | 364.7  | 100.0%    | 80-90   | 0.4    | 0.1%  |
|                     |        |           | 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%  |

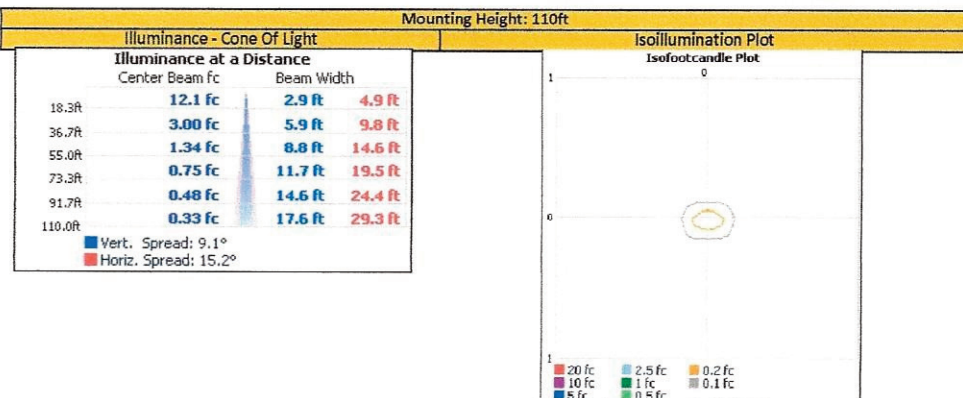
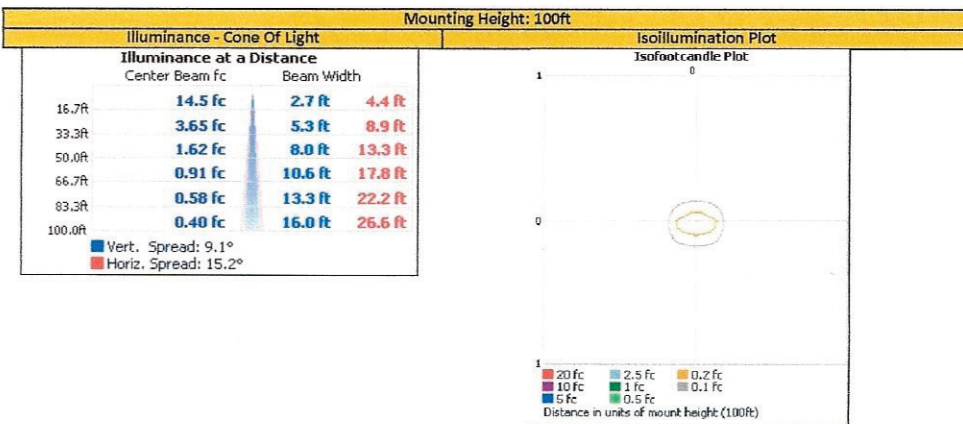
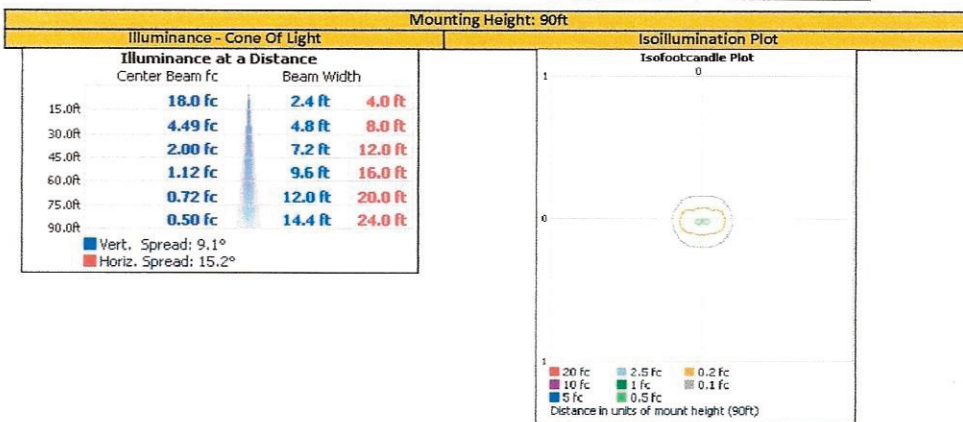
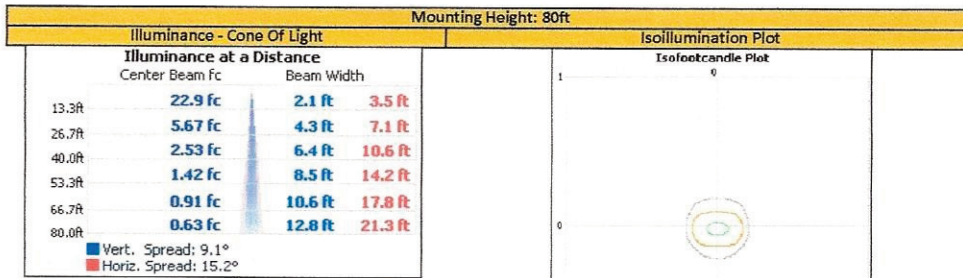


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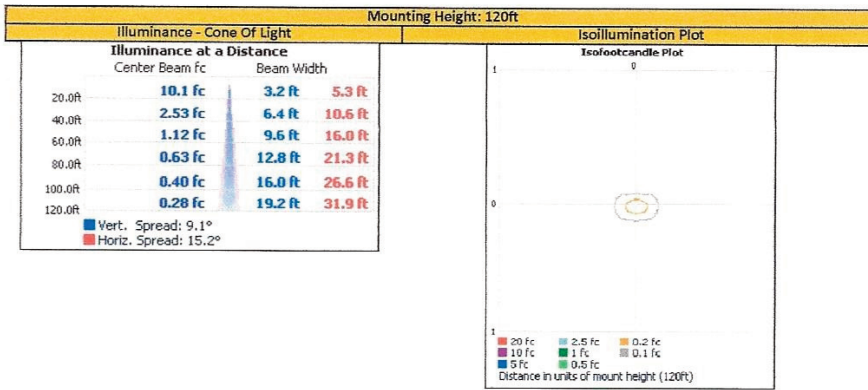




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IMAGE



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## Product Description

**Company:** AMERICAN BUSINESS CORPORATION

**Product Information:** Trade Name(s): ABC123LEDS.

LED Fixed Luminaires, Model Nos. FZ-15W may be followed by -C; followed by -2000K, -2200K, -2700K, -3000K, -3500K, -4000K, -4500K, -5000K, -5500K, -5700K, -6000K, -6500K, -G, -B, -R, -Y or -A. FZ-30W may be followed by -C; followed by -2000K, -2200K, -2700K, -3000K, -3500K, -4000K, -4500K, -5000K, -5500K, -5700K, -6000K, -6500K, -G, -B, -R, -Y or -A. FZ-60W may be followed by -C; followed by -2000K, -2200K, -2700K, -3000K, -3500K, -4000K, -4500K, -5000K, -5500K, -5700K, -6000K, -6500K, -G, -B, -R, -Y or -A.

**Evaluated to the following:** A representative sample of the listed devices have been tested, investigated and found to comply with the requirements of the Standard(s) for Luminaires (UL-1598) and are identified with the ETL Listed Mark.

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