

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: P588358

Luminaire Tested: **GAT-CA6-LED-100-730-U-55-5-X-X**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588358  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2107-308-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 11/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GAT-CA6-LED-100-730-U-55-5-X-X  
Description: GENERATIONS SERIES AVENUE WITH NO CAGE AND TYPE V REFRACTOR  
Light Source: (6) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13379 lumens  
Efficiency: N/A  
Efficacy: 129.0 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B4 - U4 - G5

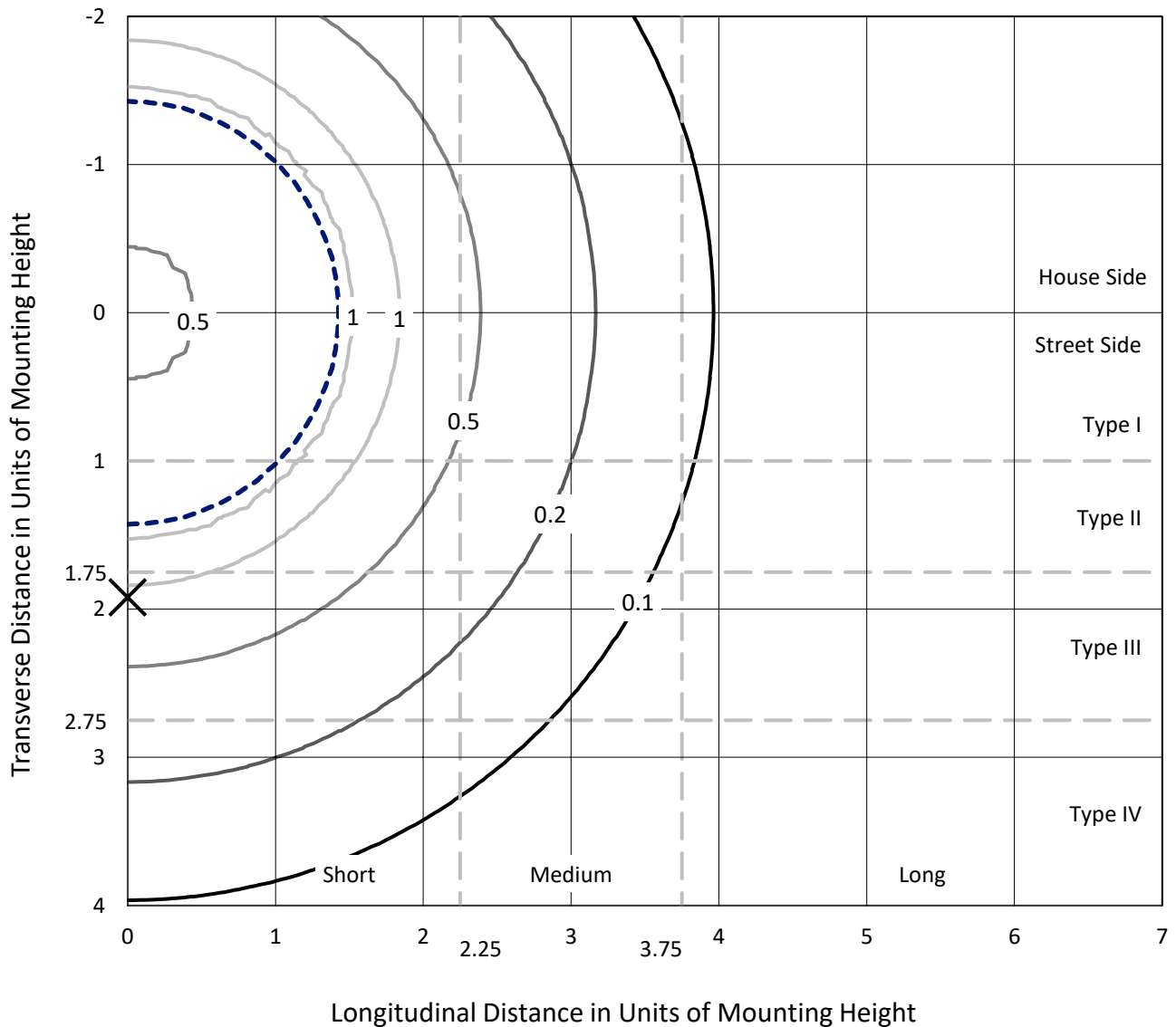
Input Watts (W): 103.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

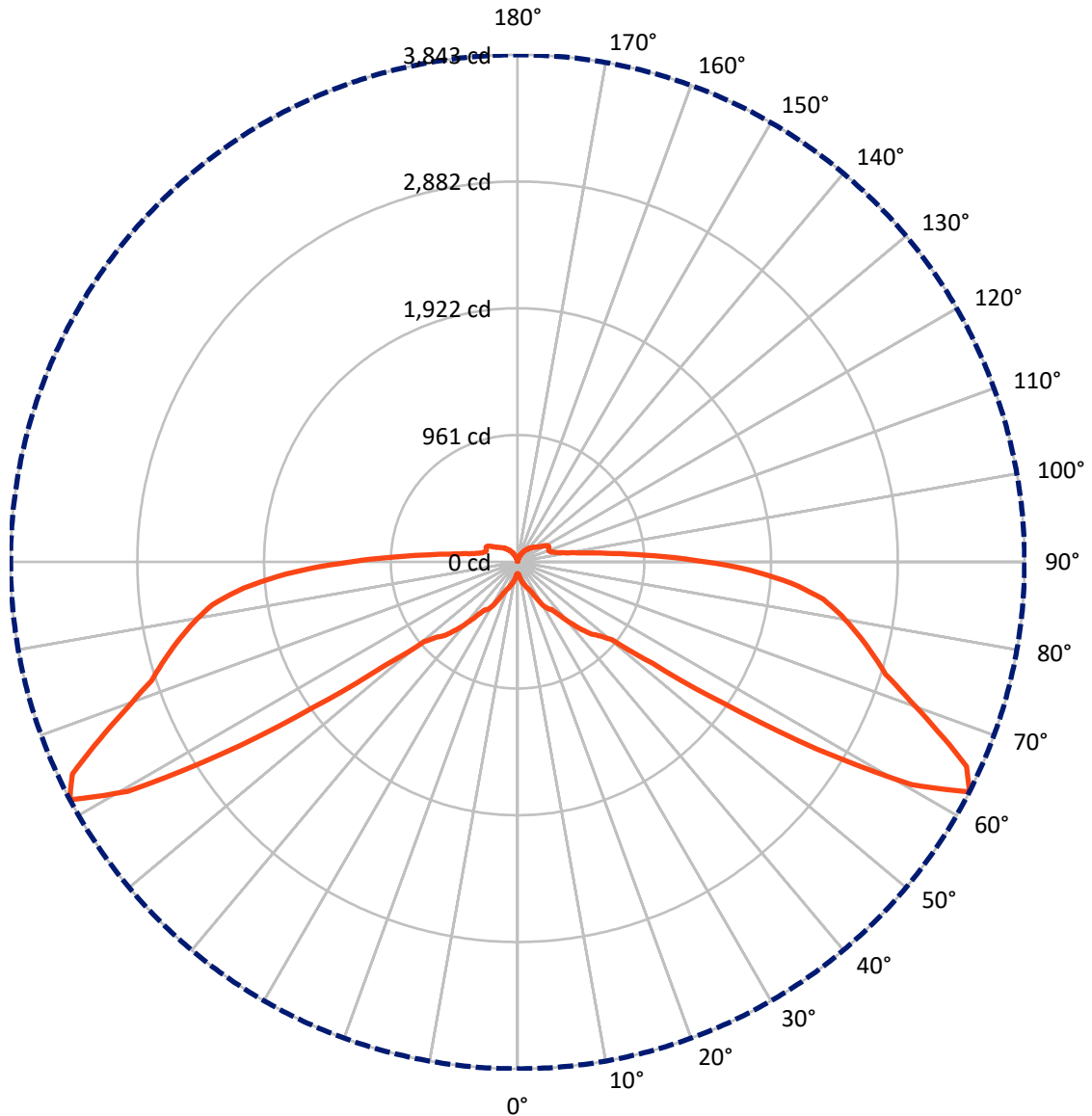
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1.1 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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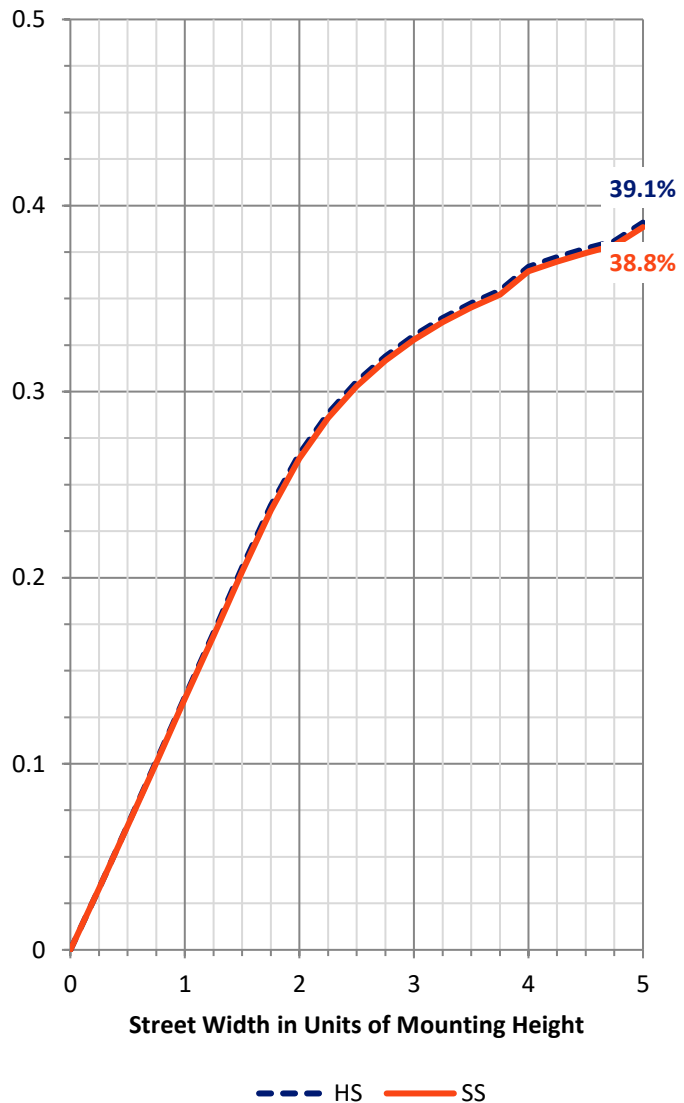
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5807.5   | 882.0  | 6689.5  |
|                    | % Fixture | 43.4     | 6.6    | 50.0    |
| <b>Street Side</b> | Lumens    | 5807.5   | 882.0  | 6689.5  |
|                    | % Fixture | 43.4     | 6.6    | 50.0    |
| <b>Total</b>       | Lumens    | 11615.0  | 1764.0 | 13379.0 |
|                    | % Fixture | 86.8     | 13.2   | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 11.0    | 0.1       |
| 10°-20°   | 50.7    | 0.4       |
| 20°-30°   | 131.8   | 1.0       |
| 30°-40°   | 296.5   | 2.2       |
| 40°-50°   | 599.0   | 4.5       |
| 50°-60°   | 1824.0  | 13.6      |
| 60°-70°   | 3548.8  | 26.5      |
| 70°-80°   | 2947.0  | 22.0      |
| 80°-90°   | 2206.3  | 16.5      |
| 90°-100°  | 808.0   | 6.0       |
| 100°-110° | 304.2   | 2.3       |
| 110°-120° | 253.6   | 1.9       |
| 120°-130° | 178.6   | 1.3       |
| 130°-140° | 115.8   | 0.9       |
| 140°-150° | 67.0    | 0.5       |
| 150°-160° | 28.9    | 0.2       |
| 160°-170° | 7.3     | 0.1       |
| 170°-180° | 0.6     | 0.0       |
| 0°-90°    | 11615.0 | 86.8      |
| 0°-180°   | 13379.0 | 100.0     |

**Coefficient of Utilization**



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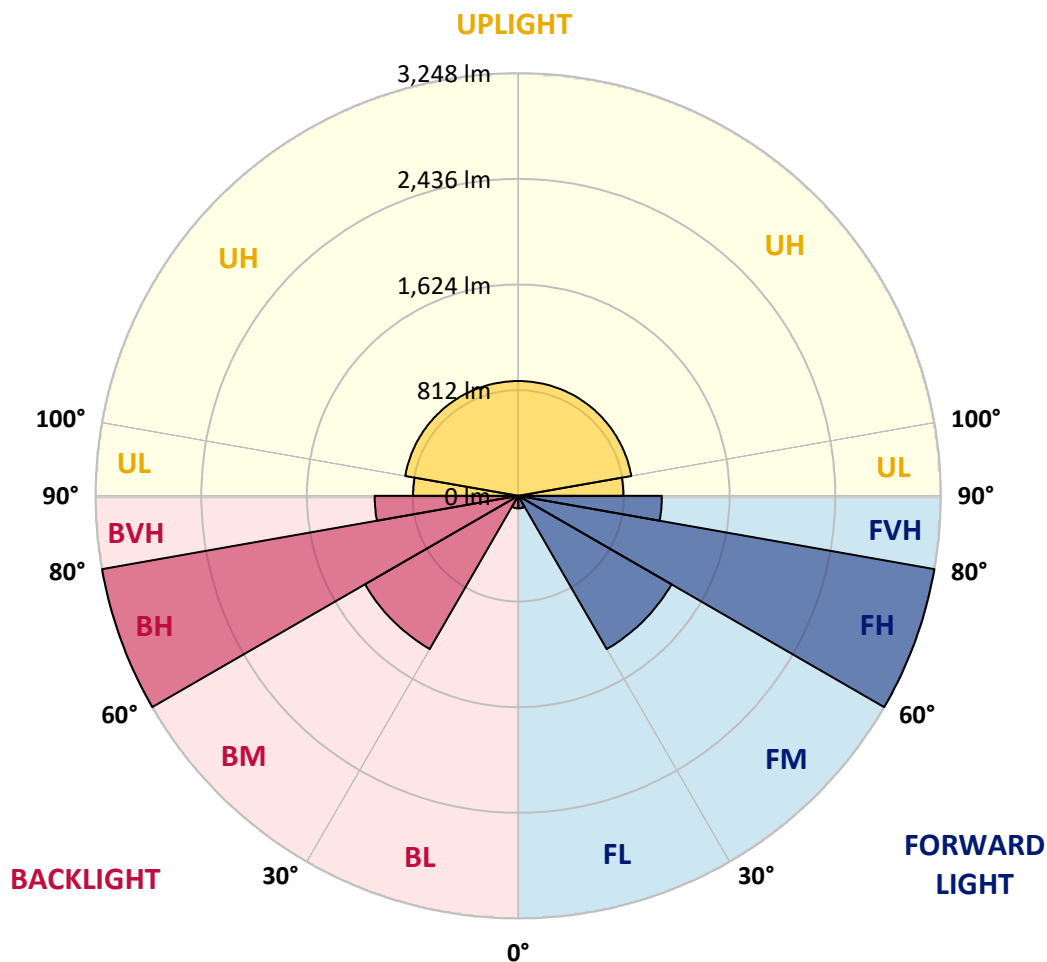
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |         |         |
|----------------|--------|-----------|-------------------------|---------|---------|
|                |        |           | B                       | U       | G       |
| FL (0°-30°)    | 96.8   | 0.7       |                         |         |         |
| FM (30°-60°)   | 1359.7 | 10.2      |                         |         |         |
| FH (60°-80°)   | 3247.9 | 24.3      |                         |         | G2/5000 |
| FVH (80°-90°)  | 1103.2 | 8.2       |                         |         | G5      |
| BL (0°-30°)    | 96.8   | 0.7       | B0/110                  |         |         |
| BM (30°-60°)   | 1359.7 | 10.2      | B2/2500                 |         |         |
| BH (60°-80°)   | 3247.9 | 24.3      | B4/5000                 |         | G2/5000 |
| BVH (80°-90°)  | 1103.2 | 8.2       |                         |         | G5      |
| UL (90°-100°)  | 808.0  | 6.0       |                         | U4/1000 |         |
| UH (100°-180°) | 882.0  | 6.6       |                         | U4/1000 |         |

**BUG Rating: B4-U4-G5**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     |
|--------|--------|
| 0°     | 89.2   |
| 2.5°   | 91.0   |
| 5°     | 101.7  |
| 7.5°   | 121.3  |
| 10°    | 139.1  |
| 12.5°  | 156.9  |
| 15°    | 174.8  |
| 17.5°  | 192.6  |
| 20°    | 214.0  |
| 22.5°  | 230.1  |
| 25°    | 263.9  |
| 27.5°  | 324.6  |
| 30°    | 385.2  |
| 32.5°  | 426.2  |
| 35°    | 444.1  |
| 37.5°  | 510.1  |
| 40°    | 599.2  |
| 42.5°  | 692.0  |
| 45°    | 781.1  |
| 47.5°  | 838.2  |
| 50°    | 930.9  |
| 52.5°  | 1276.9 |
| 55°    | 1894.0 |
| 57.5°  | 2682.2 |
| 60°    | 3427.7 |
| 62.5°  | 3843.2 |
| 65°    | 3739.8 |
| 67.5°  | 3438.4 |
| 70°    | 3154.8 |
| 72.5°  | 2915.9 |
| 75°    | 2776.8 |
| 77.5°  | 2635.9 |
| 80°    | 2491.4 |
| 82.5°  | 2336.3 |
| 85°    | 2086.6 |
| 87.5°  | 1754.9 |
| 90°    | 1341.1 |
| 92.5°  | 955.9  |
| 95°    | 665.2  |
| 97.5°  | 481.5  |
| 100°   | 369.2  |
| 102.5° | 306.7  |
| 105°   | 274.6  |
| 107.5° | 256.8  |
| 110°   | 251.5  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    |
|--------|-------|
| 112.5° | 255.0 |
| 115°   | 262.2 |
| 117.5° | 258.6 |
| 120°   | 240.8 |
| 122.5° | 214.0 |
| 125°   | 194.4 |
| 127.5° | 180.1 |
| 130°   | 169.4 |
| 132.5° | 158.7 |
| 135°   | 149.8 |
| 137.5° | 139.1 |
| 140°   | 126.6 |
| 142.5° | 115.9 |
| 145°   | 107.0 |
| 147.5° | 96.3  |
| 150°   | 82.0  |
| 152.5° | 71.3  |
| 155°   | 60.6  |
| 157.5° | 51.7  |
| 160°   | 41.0  |
| 162.5° | 32.1  |
| 165°   | 23.2  |
| 167.5° | 16.1  |
| 170°   | 10.7  |
| 172.5° | 5.4   |
| 175°   | 3.6   |
| 177.5° | 5.4   |
| 180°   | 5.4   |

(END OF REPORT)