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: McGRAW-EDISON

Report Number: P436897

Luminaire Tested: **TT-D6-735-U-5MQ-PM-HSS**

Issue Date: 12/2/2020

Report Generated By 670246001

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | P436897 |
| | TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2010-017-1) |
| Test Lab: | INNOVATION CENTER |
| Issue Date: | 12/2/2020 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | TT-D6-735-U-5MQ-PM-HSS |
| Description: | TOPTIER LED SITE LUMINAIRE |
| | 3500K, 70 CRI LEDS AND MEDIUM DISTRIBUTION WITH HOUSE SIDE SHIELD |
| Light Source: | - |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 10544.1 lumens |
| Efficiency: | N/A |
| Efficacy: | 100.2 lumens/watt |
| Luminous Opening: | Circular (Dia: 1.12' x H: 0') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B2 - U2 - G3 |

| | |
|---|---|
| Input Watts (W): | 105.2 |
| 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: | 28.75 FT |

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REPORT NUMBER: P436897
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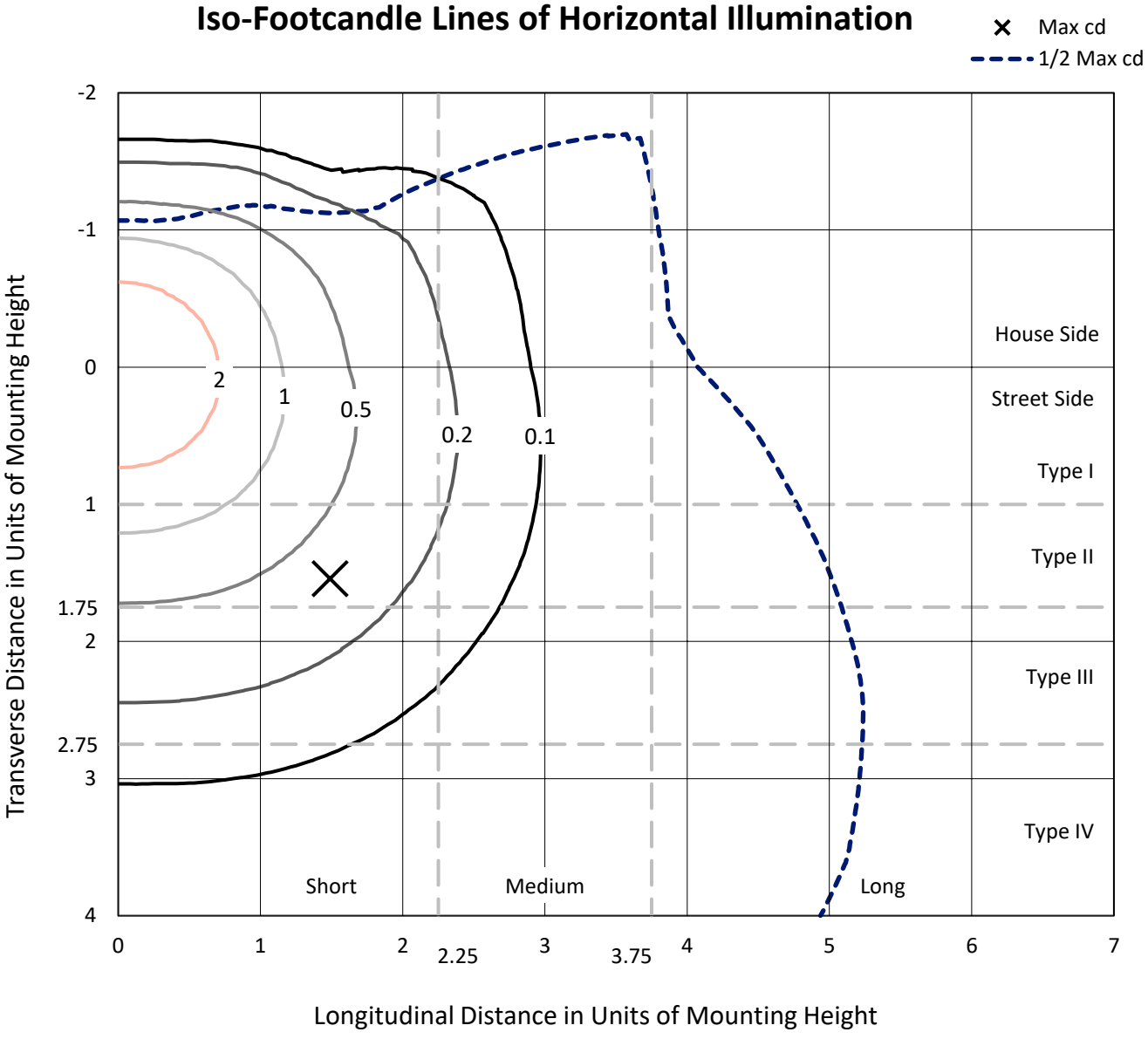
## Iso-Footcandle Lines of Horizontal Illumination




Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
Type IV - Short - N/A

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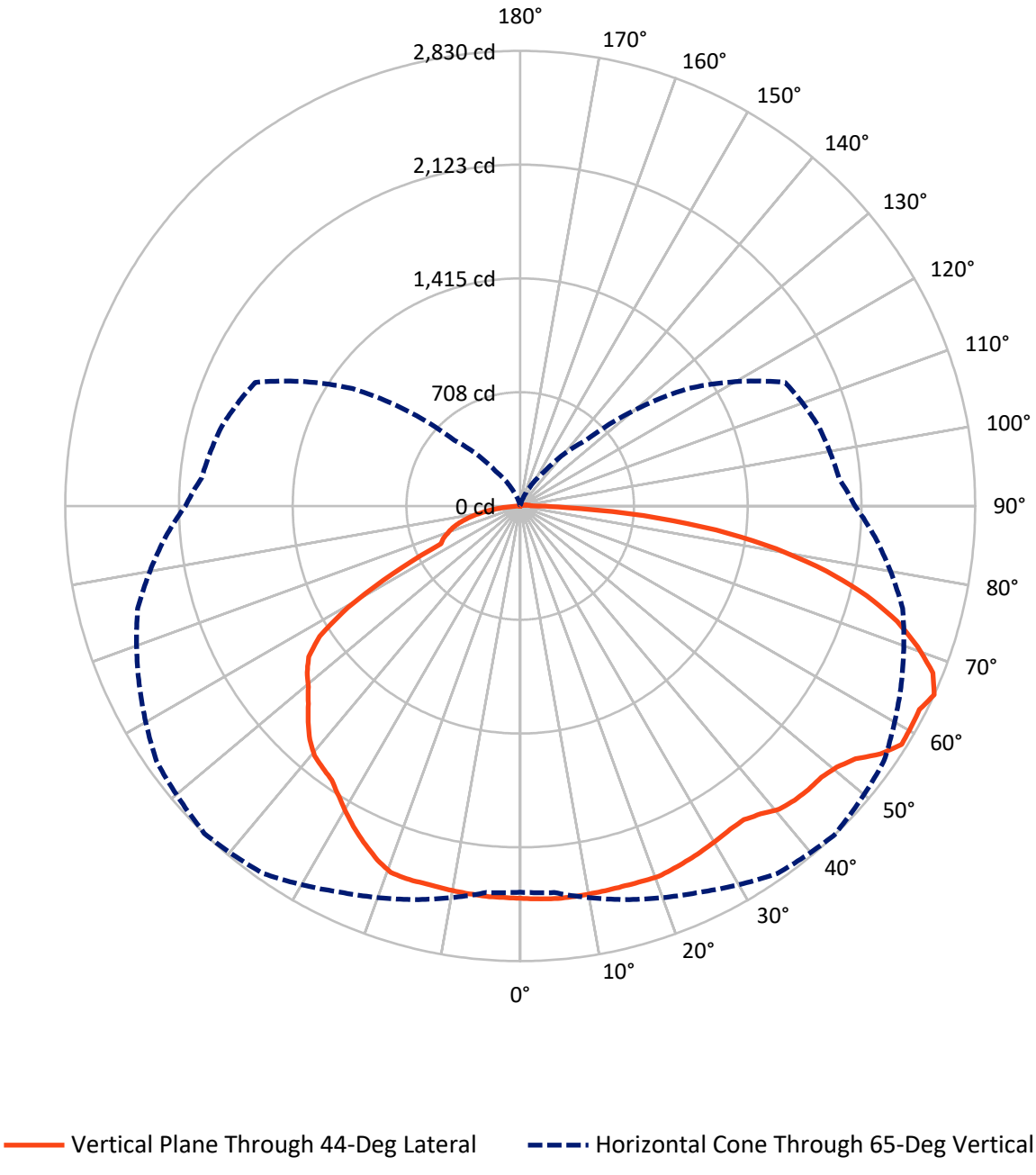
## Luminous Intensity Polar Plot



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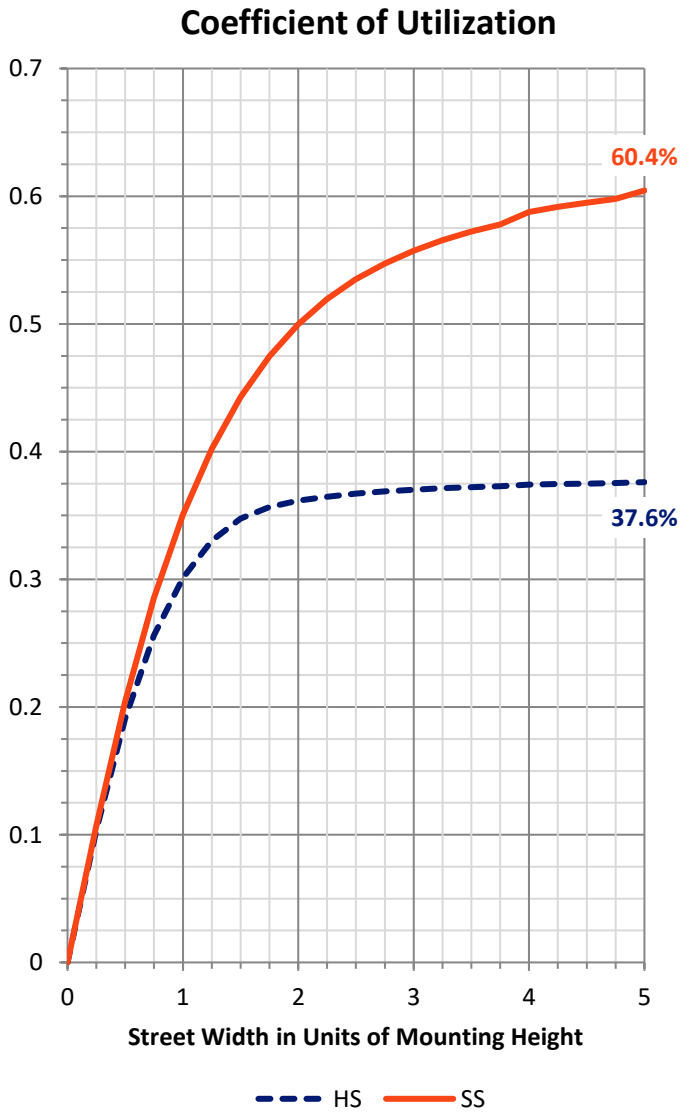
**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 3992.4 | 2.8 | 3995.3 |
| | % Fixture | 37.9 | 0.0 | 37.9 |
| **Street Side** | Lumens | 6513.0 | 35.8 | 6548.8 |
| | % Fixture | 61.8 | 0.3 | 62.1 |
| **Total** | Lumens | 10505.5 | 38.7 | 10544.1 |
| | % Fixture | 99.6 | 0.4 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 233.1 | 2.2 |
| 10°-20° | 690.0 | 6.5 |
| 20°-30° | 1098.0 | 10.4 |
| 30°-40° | 1406.8 | 13.3 |
| 40°-50° | 1666.6 | 15.8 |
| 50°-60° | 1825.3 | 17.3 |
| 60°-70° | 1735.0 | 16.5 |
| 70°-80° | 1381.4 | 13.1 |
| 80°-90° | 469.3 | 4.5 |
| 90°-100° | 24.7 | 0.2 |
| 100°-110° | 8.1 | 0.1 |
| 110°-120° | 1.8 | 0.0 |
| 120°-130° | 1.1 | 0.0 |
| 130°-140° | 0.9 | 0.0 |
| 140°-150° | 0.8 | 0.0 |
| 150°-160° | 0.6 | 0.0 |
| 160°-170° | 0.4 | 0.0 |
| 170°-180° | 0.1 | 0.0 |
| 0°-90° | 10505.5 | 99.6 |
| 0°-180° | 10544.1 | 100.0 |



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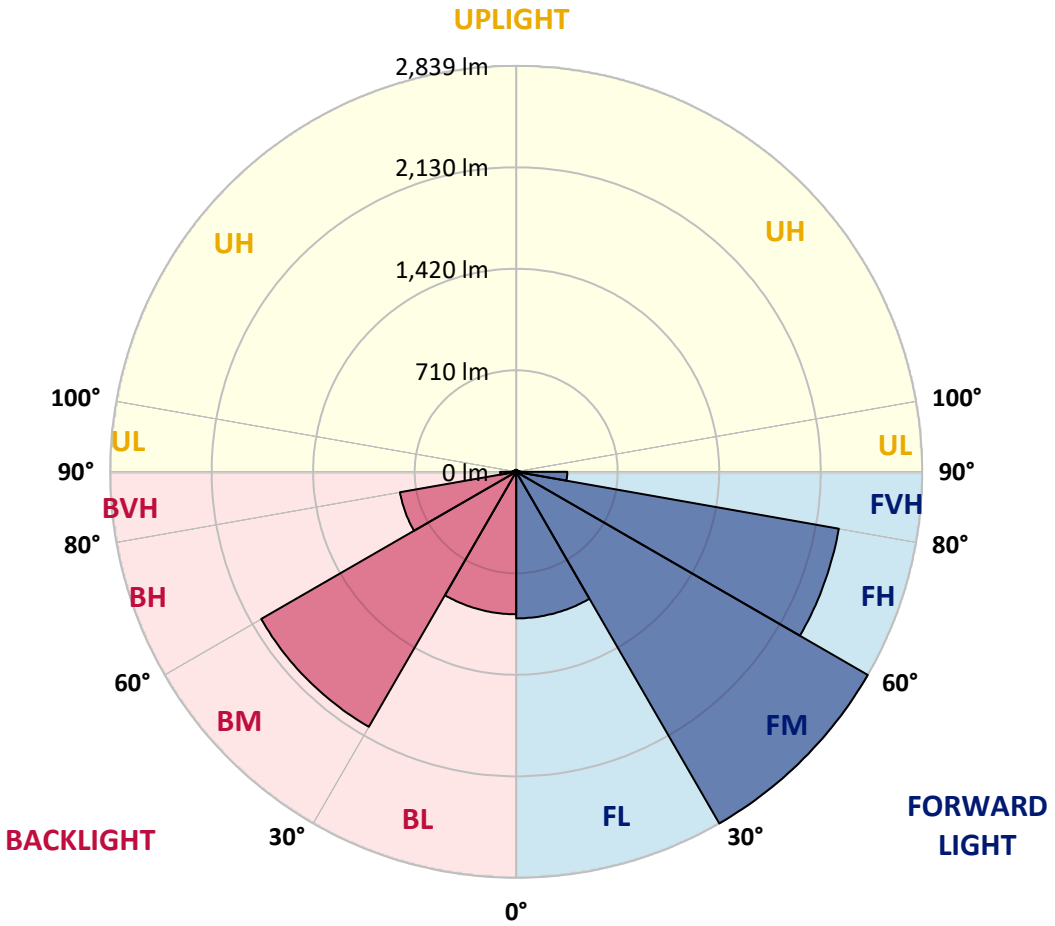
## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 1024.9 | 9.7 | | | |
| FM | (30°-60°) | 2839.4 | 26.9 | | | |
| FH | (60°-80°) | 2291.3 | 21.7 | | | G2/5000 |
| FVH | (80°-90°) | 357.4 | 3.4 | | | G3/500 |
| BL | (0°-30°) | 996.2 | 9.4 | B2/1000 | | |
| BM | (30°-60°) | 2059.3 | 19.5 | B2/2500 | | |
| BH | (60°-80°) | 825.0 | 7.8 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 111.8 | 1.1 | | | G2/225 |
| UL | (90°-100°) | 24.7 | 0.2 | | U2/50 | |
| UH | (100°-180°) | 13.9 | 0.1 | | U2/50 | |

**BUG Rating: B2-U2-G3**
Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 44° | 45° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 2440.9 | 2440.9 | 2440.9 | 2440.9 | 2440.9 | 2440.9 | 2440.9 | 2440.9 | 2440.9 | 2440.9 | 2440.9 |
| 2.5° | 2450.2 | 2448.3 | 2448.3 | 2448.3 | 2448.3 | 2446.5 | 2448.3 | 2444.6 | 2446.5 | 2440.9 | 2440.9 |
| 5° | 2455.8 | 2452.0 | 2453.9 | 2453.9 | 2453.9 | 2452.0 | 2453.9 | 2448.3 | 2450.2 | 2442.7 | 2440.9 |
| 7.5° | 2457.6 | 2455.8 | 2455.8 | 2455.8 | 2455.8 | 2452.0 | 2453.9 | 2450.2 | 2448.3 | 2442.7 | 2439.0 |
| 10° | 2457.6 | 2455.8 | 2455.8 | 2455.8 | 2453.9 | 2450.2 | 2452.0 | 2446.5 | 2446.5 | 2439.0 | 2435.3 |
| 12.5° | 2457.6 | 2455.8 | 2457.6 | 2453.9 | 2453.9 | 2450.2 | 2450.2 | 2444.6 | 2444.6 | 2435.3 | 2431.5 |
| 15° | 2455.8 | 2453.9 | 2453.9 | 2455.8 | 2453.9 | 2450.2 | 2450.2 | 2444.6 | 2442.7 | 2431.5 | 2427.8 |
| 17.5° | 2453.9 | 2452.0 | 2453.9 | 2455.8 | 2457.6 | 2453.9 | 2455.8 | 2446.5 | 2442.7 | 2431.5 | 2426.0 |
| 20° | 2455.8 | 2453.9 | 2455.8 | 2459.5 | 2459.5 | 2459.5 | 2459.5 | 2450.2 | 2442.7 | 2431.5 | 2422.2 |
| 22.5° | 2450.2 | 2450.2 | 2450.2 | 2450.2 | 2453.9 | 2448.3 | 2448.3 | 2442.7 | 2433.4 | 2424.1 | 2414.8 |
| 25° | 2437.1 | 2437.1 | 2439.0 | 2440.9 | 2440.9 | 2437.1 | 2435.3 | 2429.7 | 2422.2 | 2411.1 | 2399.9 |
| 27.5° | 2422.2 | 2422.2 | 2424.1 | 2424.1 | 2427.8 | 2424.1 | 2422.2 | 2414.8 | 2407.3 | 2394.3 | 2381.2 |
| 30° | 2405.5 | 2405.5 | 2405.5 | 2409.2 | 2411.1 | 2411.1 | 2409.2 | 2399.9 | 2390.6 | 2375.6 | 2358.9 |
| 32.5° | 2386.8 | 2386.8 | 2392.4 | 2396.1 | 2398.0 | 2398.0 | 2398.0 | 2386.8 | 2375.6 | 2357.0 | 2332.8 |
| 35° | 2371.9 | 2371.9 | 2379.4 | 2392.4 | 2399.9 | 2396.1 | 2394.3 | 2386.8 | 2370.1 | 2349.6 | 2310.4 |
| 37.5° | 2381.2 | 2381.2 | 2398.0 | 2416.6 | 2433.4 | 2429.7 | 2429.7 | 2416.6 | 2394.3 | 2360.7 | 2312.3 |
| 40° | 2403.6 | 2405.5 | 2431.5 | 2455.8 | 2476.3 | 2480.0 | 2480.0 | 2465.1 | 2431.5 | 2388.7 | 2321.6 |
| 42.5° | 2409.2 | 2412.9 | 2439.0 | 2474.4 | 2493.0 | 2502.4 | 2502.4 | 2481.9 | 2446.5 | 2396.1 | 2317.9 |
| 45° | 2409.2 | 2411.1 | 2440.9 | 2478.1 | 2507.9 | 2515.4 | 2515.4 | 2493.0 | 2448.3 | 2399.9 | 2304.8 |
| 47.5° | 2409.2 | 2407.3 | 2433.4 | 2485.6 | 2515.4 | 2521.0 | 2521.0 | 2496.8 | 2453.9 | 2392.4 | 2286.2 |
| 50° | 2403.6 | 2412.9 | 2452.0 | 2493.0 | 2545.2 | 2552.7 | 2550.8 | 2524.7 | 2465.1 | 2401.7 | 2271.3 |
| 52.5° | 2416.6 | 2414.8 | 2466.9 | 2548.9 | 2595.5 | 2612.3 | 2614.1 | 2580.6 | 2519.1 | 2427.8 | 2262.0 |
| 55° | 2470.7 | 2472.5 | 2522.8 | 2617.9 | 2688.7 | 2720.4 | 2716.6 | 2673.8 | 2586.2 | 2480.0 | 2288.1 |
| 57.5° | 2489.3 | 2507.9 | 2580.6 | 2662.6 | 2770.7 | 2798.6 | 2798.6 | 2746.4 | 2640.2 | 2521.0 | 2306.7 |
| 60° | 2452.0 | 2459.5 | 2548.9 | 2688.7 | 2787.4 | 2793.0 | 2794.9 | 2757.6 | 2645.8 | 2498.6 | 2269.4 |
| 62.5° | 2442.7 | 2457.6 | 2526.6 | 2683.1 | 2746.4 | 2787.4 | 2785.6 | 2735.3 | 2640.2 | 2481.9 | 2256.4 |
| 65° | 2401.7 | 2412.9 | 2534.0 | 2649.5 | 2789.3 | 2830.3 | 2821.0 | 2763.2 | 2616.0 | 2463.2 | 2215.4 |
| 67.5° | 2317.9 | 2329.1 | 2440.9 | 2603.0 | 2729.7 | 2768.8 | 2778.1 | 2711.0 | 2558.2 | 2375.6 | 2127.8 |
| 70° | 2178.1 | 2194.9 | 2308.6 | 2466.9 | 2601.1 | 2623.5 | 2619.7 | 2578.7 | 2426.0 | 2230.3 | 1999.3 |
| 72.5° | 1982.5 | 2008.6 | 2152.1 | 2303.0 | 2418.5 | 2452.0 | 2437.1 | 2390.6 | 2265.7 | 2055.2 | 1824.1 |
| 75° | 1775.7 | 1799.9 | 1913.6 | 2083.1 | 2204.2 | 2226.6 | 2215.4 | 2159.5 | 2032.8 | 1826.0 | 1617.3 |
| 77.5° | 1550.2 | 1570.7 | 1667.6 | 1840.9 | 1930.3 | 1949.0 | 1954.6 | 1880.0 | 1760.8 | 1574.5 | 1388.1 |
| 80° | 1246.5 | 1255.8 | 1386.3 | 1499.9 | 1578.2 | 1615.4 | 1611.7 | 1555.8 | 1436.6 | 1281.9 | 1095.6 |
| 82.5° | 920.4 | 927.9 | 1028.5 | 1125.4 | 1196.2 | 1229.7 | 1211.1 | 1155.2 | 1060.2 | 927.9 | 786.3 |
| 85° | 564.6 | 551.5 | 633.5 | 706.2 | 749.0 | 771.4 | 752.8 | 721.1 | 637.2 | 532.9 | 434.1 |
| 87.5° | 203.1 | 191.9 | 229.2 | 240.4 | 288.8 | 281.4 | 298.1 | 240.4 | 193.8 | 137.9 | 96.9 |
| 90° | 89.4 | 89.4 | 87.6 | 83.8 | 76.4 | 68.9 | 67.1 | 55.9 | 41.0 | 26.1 | 9.3 |
| 92.5° | 82.0 | 82.0 | 80.1 | 76.4 | 68.9 | 61.5 | 61.5 | 50.3 | 37.3 | 24.2 | 9.3 |
| 95° | 68.9 | 68.9 | 67.1 | 63.4 | 57.8 | 52.2 | 52.2 | 41.0 | 31.7 | 20.5 | 7.5 |
| 97.5° | 54.0 | 54.0 | 52.2 | 50.3 | 44.7 | 41.0 | 41.0 | 33.5 | 24.2 | 14.9 | 5.6 |
| 100° | 41.0 | 41.0 | 39.1 | 37.3 | 35.4 | 31.7 | 29.8 | 24.2 | 18.6 | 11.2 | 3.7 |
| 102.5° | 29.8 | 29.8 | 29.8 | 27.9 | 24.2 | 22.4 | 22.4 | 18.6 | 13.0 | 9.3 | 3.7 |
| 105° | 20.5 | 20.5 | 20.5 | 18.6 | 16.8 | 14.9 | 14.9 | 13.0 | 9.3 | 5.6 | 1.9 |
| 107.5° | 13.0 | 13.0 | 13.0 | 13.0 | 11.2 | 9.3 | 9.3 | 7.5 | 5.6 | 3.7 | 1.9 |
| 110° | 7.5 | 5.6 | 7.5 | 7.5 | 7.5 | 5.6 | 5.6 | 3.7 | 3.7 | 1.9 | 1.9 |

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**CANDELA DISTRIBUTION (continued):**

| | 0° | 5° | 15° | 25° | 35° | 44° | 45° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 112.5° | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | *3.7* | 3.7 | 1.9 | 1.9 | 1.9 | 1.9 |
| 115° | 1.9 | 1.9 | 1.9 | 3.7 | 3.7 | *1.9* | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 117.5° | 0.0 | 1.9 | 1.9 | 1.9 | 1.9 | *1.9* | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 120° | 0.0 | 0.0 | 1.9 | 1.9 | 1.9 | *1.9* | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 122.5° | 0.0 | 0.0 | 0.0 | 1.9 | 1.9 | *1.9* | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 125° | 0.0 | 0.0 | 0.0 | 1.9 | 1.9 | *1.9* | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 127.5° | 0.0 | 0.0 | 0.0 | 1.9 | 1.9 | *1.9* | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 130° | 0.0 | 0.0 | 0.0 | 1.9 | 1.9 | *1.9* | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 132.5° | 0.0 | 0.0 | 0.0 | 1.9 | 1.9 | *1.9* | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | *1.9* | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | *1.9* | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 140° | 0.0 | 1.9 | 1.9 | 0.0 | 0.0 | *1.9* | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 142.5° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | *1.9* | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 145° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | *1.9* | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 147.5° | 1.9 | 1.9 | 0.0 | 0.0 | 1.9 | *1.9* | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 150° | 1.9 | 1.9 | 1.9 | 0.0 | 0.0 | *1.9* | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 152.5° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | *1.9* | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 155° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | *1.9* | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 157.5° | 1.9 | 1.9 | 1.9 | 0.0 | 1.9 | *1.9* | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 160° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | *1.9* | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 162.5° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | *1.9* | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 165° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | *1.9* | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 167.5° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | *1.9* | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 170° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | *1.9* | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 172.5° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | *1.9* | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 175° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | *1.9* | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 177.5° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | *1.9* | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 180° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | *1.9* | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |

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**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 2440.9 | 2440.9 | 2440.9 | 2440.9 | 2440.9 | 2440.9 | 2440.9 | 2440.9 | 2440.9 | 2440.9 | 2440.9 |
| 2.5° | 2440.9 | 2439.0 | 2437.1 | 2439.0 | 2437.1 | 2437.1 | 2435.3 | 2435.3 | 2433.4 | 2433.4 | 2431.5 |
| 5° | 2440.9 | 2439.0 | 2437.1 | 2439.0 | 2435.3 | 2437.1 | 2437.1 | 2435.3 | 2433.4 | 2431.5 | 2429.7 |
| 7.5° | 2439.0 | 2439.0 | 2435.3 | 2437.1 | 2433.4 | 2433.4 | 2431.5 | 2431.5 | 2429.7 | 2429.7 | 2427.8 |
| 10° | 2435.3 | 2433.4 | 2433.4 | 2433.4 | 2429.7 | 2429.7 | 2427.8 | 2426.0 | 2426.0 | 2424.1 | 2422.2 |
| 12.5° | 2431.5 | 2429.7 | 2427.8 | 2427.8 | 2426.0 | 2424.1 | 2422.2 | 2422.2 | 2420.4 | 2418.5 | 2416.6 |
| 15° | 2426.0 | 2424.1 | 2424.1 | 2424.1 | 2422.2 | 2422.2 | 2420.4 | 2418.5 | 2414.8 | 2412.9 | 2411.1 |
| 17.5° | 2424.1 | 2422.2 | 2424.1 | 2424.1 | 2422.2 | 2424.1 | 2420.4 | 2416.6 | 2412.9 | 2411.1 | 2409.2 |
| 20° | 2422.2 | 2422.2 | 2422.2 | 2420.4 | 2418.5 | 2416.6 | 2414.8 | 2412.9 | 2411.1 | 2409.2 | 2407.3 |
| 22.5° | 2412.9 | 2411.1 | 2407.3 | 2396.1 | 2383.1 | 2373.8 | 2371.9 | 2375.6 | 2375.6 | 2375.6 | 2370.1 |
| 25° | 2396.1 | 2390.6 | 2375.6 | 2355.2 | 2332.8 | 2317.9 | 2308.6 | 2308.6 | 2306.7 | 2303.0 | 2301.1 |
| 27.5° | 2375.6 | 2364.5 | 2338.4 | 2312.3 | 2280.6 | 2262.0 | 2239.6 | 2226.6 | 2221.0 | 2219.1 | 2215.4 |
| 30° | 2347.7 | 2330.9 | 2297.4 | 2263.9 | 2224.7 | 2198.6 | 2163.2 | 2140.9 | 2127.8 | 2122.2 | 2118.5 |
| 32.5° | 2314.2 | 2297.4 | 2258.3 | 2217.3 | 2170.7 | 2133.4 | 2088.7 | 2053.3 | 2029.1 | 2017.9 | 2012.3 |
| 35° | 2291.8 | 2267.6 | 2222.9 | 2174.4 | 2127.8 | 2073.8 | 2019.8 | 1971.3 | 1934.1 | 1921.0 | 1913.6 |
| 37.5° | 2282.5 | 2260.1 | 2211.7 | 2163.2 | 2111.1 | 2045.9 | 1982.5 | 1913.6 | 1863.3 | 1840.9 | 1833.4 |
| 40° | 2288.1 | 2260.1 | 2206.1 | 2153.9 | 2092.4 | 2019.8 | 1935.9 | 1850.2 | 1785.0 | 1753.3 | 1745.9 |
| 42.5° | 2275.0 | 2243.4 | 2180.0 | 2124.1 | 2047.7 | 1965.7 | 1863.3 | 1764.5 | 1676.9 | 1650.8 | 1639.7 |
| 45° | 2252.7 | 2213.5 | 2144.6 | 2073.8 | 1993.7 | 1893.1 | 1786.9 | 1660.2 | 1555.8 | 1524.1 | 1514.8 |
| 47.5° | 2230.3 | 2176.3 | 2094.3 | 2029.1 | 1932.2 | 1814.8 | 1690.0 | 1548.4 | 1417.9 | 1386.3 | 1380.7 |
| 50° | 2196.8 | 2146.5 | 2058.9 | 1982.5 | 1883.8 | 1747.7 | 1606.1 | 1429.1 | 1281.9 | 1227.9 | 1213.0 |
| 52.5° | 2181.9 | 2116.7 | 2032.8 | 1973.2 | 1853.9 | 1699.3 | 1520.4 | 1330.4 | 1118.0 | 1050.9 | 1036.0 |
| 55° | 2196.8 | 2114.8 | 2025.4 | 1967.6 | 1829.7 | 1637.8 | 1417.9 | 1175.7 | 929.8 | 859.0 | 838.5 |
| 57.5° | 2170.7 | 2099.9 | 2010.5 | 1945.2 | 1766.4 | 1511.1 | 1268.9 | 957.7 | 702.4 | 611.1 | 603.7 |
| 60° | 2137.2 | 2036.5 | 1952.7 | 1893.1 | 1634.1 | 1272.6 | 987.5 | 682.0 | 423.0 | 344.7 | 329.8 |
| 62.5° | 2124.1 | 2019.8 | 1922.9 | 1850.2 | 1457.1 | 935.4 | 601.8 | 344.7 | 175.1 | 123.0 | 111.8 |
| 65° | *2083.1* | *1990.0* | *1921.0* | *1818.5* | *1272.6* | *577.6* | *259.0* | *102.5* | *7.5* | *5.6* | *5.6* |
| 67.5° | 2004.9 | 1909.8 | 1863.3 | 1803.6 | 1254.0 | 551.5 | 234.8 | 93.2 | 3.7 | 0.0 | 0.0 |
| 70° | 1870.7 | 1796.2 | 1764.5 | 1732.8 | 1199.9 | 510.5 | 214.3 | 83.8 | 1.9 | 0.0 | 0.0 |
| 72.5° | 1693.7 | 1643.4 | 1637.8 | 1634.1 | 1121.7 | 471.4 | 191.9 | 74.5 | 1.9 | 0.0 | 0.0 |
| 75° | 1516.7 | 1455.2 | 1464.5 | 1486.9 | 1024.8 | 417.4 | 165.8 | 65.2 | 1.9 | 0.0 | 0.0 |
| 77.5° | 1293.1 | 1248.4 | 1270.7 | 1308.0 | 898.1 | 354.0 | 136.0 | 52.2 | 1.9 | 0.0 | 0.0 |
| 80° | 1017.3 | 987.5 | 1037.8 | 1071.4 | 734.1 | 281.4 | 102.5 | 37.3 | 0.0 | 0.0 | 0.0 |
| 82.5° | 722.9 | 706.2 | 752.8 | 795.6 | 545.9 | 199.4 | 70.8 | 24.2 | 0.0 | 0.0 | 0.0 |
| 85° | 389.4 | 380.1 | 424.8 | 471.4 | 327.9 | 113.7 | 35.4 | 11.2 | 0.0 | 0.0 | 0.0 |
| 87.5° | 96.9 | 89.4 | 91.3 | 109.9 | 80.1 | 24.2 | 5.6 | 1.9 | 0.0 | 0.0 | 0.0 |
| 90° | 1.9 | 1.9 | 1.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 1.9 | 1.9 | 1.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 1.9 | 1.9 | 1.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 1.9 | 1.9 | 1.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 1.9 | 1.9 | 1.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P436897
CATALOG NUMBER: TT-D6-735-U-5MQ-PM-HSS

**CANDELA DISTRIBUTION (continued):**

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 112.5° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

# LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2411-284-1

Test Date: 11/15/2024

Luminaire Tested: TTN-D0-735-U-WQ

Data in this report applies to families of products including TT-D* and TTN-D*

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

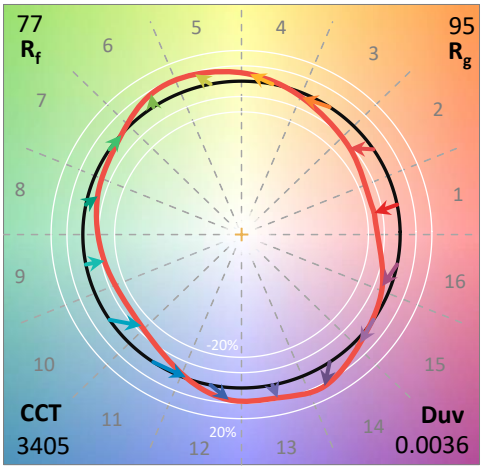
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2411-284-1 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP1 - 76IN SPHERE |
| Measurement Geometry: | 4π |
| Issue Date: | 11/15/2024 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | MCGRAW EDISON |
| Catalog Number: | **TTN-D0-735-U-WQ** |
| Description: | TOPTIER NANO LED PARKING GARAGE LUMINAIRE. 3500K, 70 CRI LEDS AND WIDE DISTRIBUTION |

## Spectral Parameters

| | |
|---|---|
| CCT (K): | 3405 |
| CIE u': | 0.2365 |
| CIE v': | 0.5180 |
| Duv: | 0.0036 |
| CIE x: | 0.4148 |
| CIE y: | 0.4038 |
| CIE z: | 0.1814 |
| Peak Wavelength (nm): | 596 |
| Dominant Wavelength (nm): | 579 |
| Purity: | 45.70672 |
| Rf: | 76.6 |
| Rg: | 95.4 |

| | |
|---|---|
| CRI (Ra): | 73.9 |
| R1: | 71.3 |
| R2: | 80.3 |
| R3: | 87.8 |
| R4: | 73.2 |
| R5: | 69.8 |
| R6: | 71.8 |
| R7: | 82.8 |
| R8: | 54.1 |
| R9: | -18.0 |
| R10: | 53.1 |
| R11: | 68.6 |
| R12: | 42.6 |
| R13: | 72.5 |
| R14: | 92.7 |
| R15: | 64.3 |




## Test Conditions

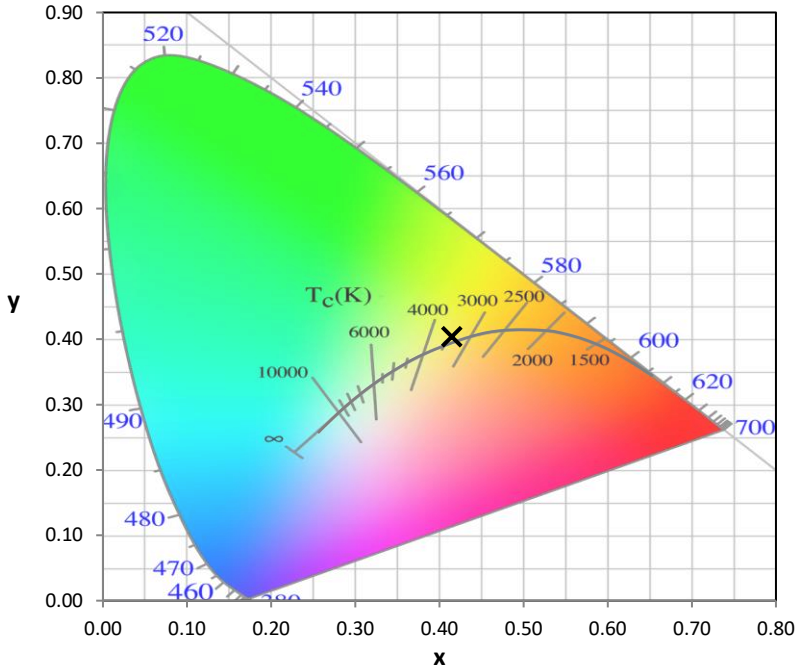
| | |
|---|---|
| Stabilization Time: | 38M |
| Operation Time: | 1H 38M |
| Sphere Temperature (°C): | 24.9 |

REPORT NUMBER: SP1-2411-284-1

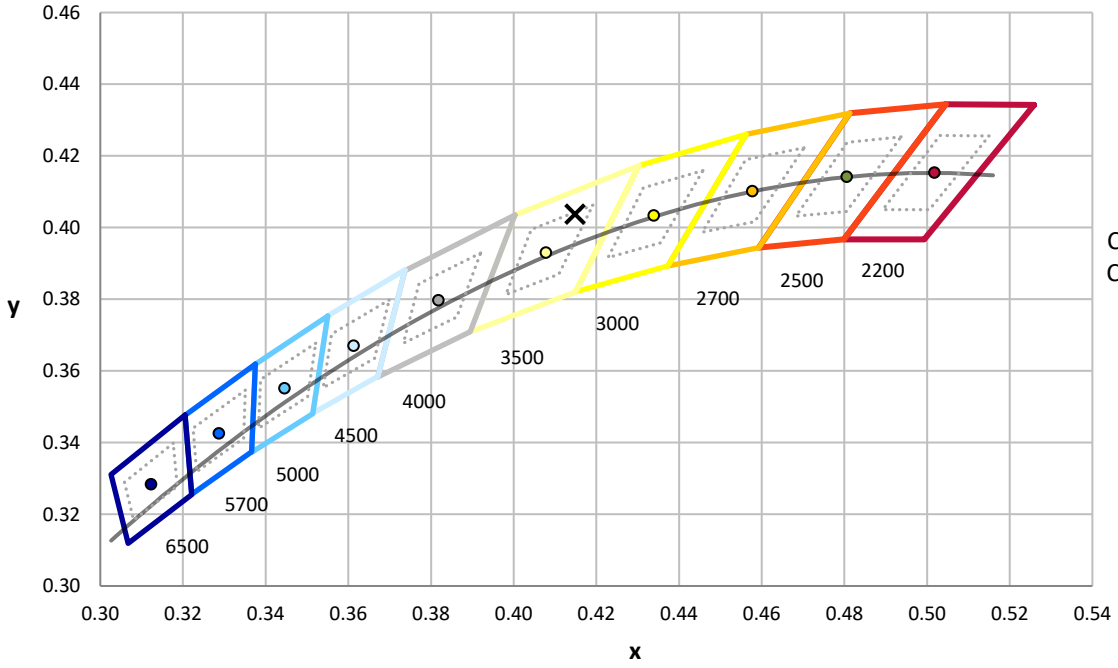
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/22/2024 | 10/22/2025 |
| DC Power Source | IN0208 | 10/22/2024 | 10/22/2025 |
| Sphere Thermometer | IN0085 | 10/22/2024 | 10/22/2025 |
| Room Thermometer | IN0046 | 10/22/2024 | 10/22/2025 |

REPORT NUMBER: SP1-2411-284-1

## CIE 1931 Chromaticity Diagram




## CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles

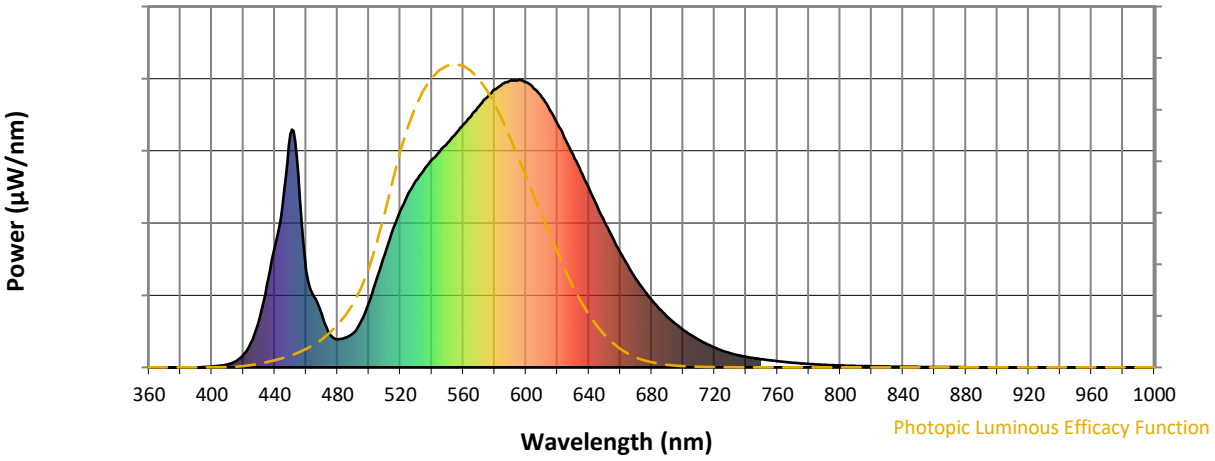



CCT = 3405K
CIE x = 0.4148
CIE y = 0.4038
Duv = 0.0036

Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2411-284-1

## Photopic Flux vs. Wavelength

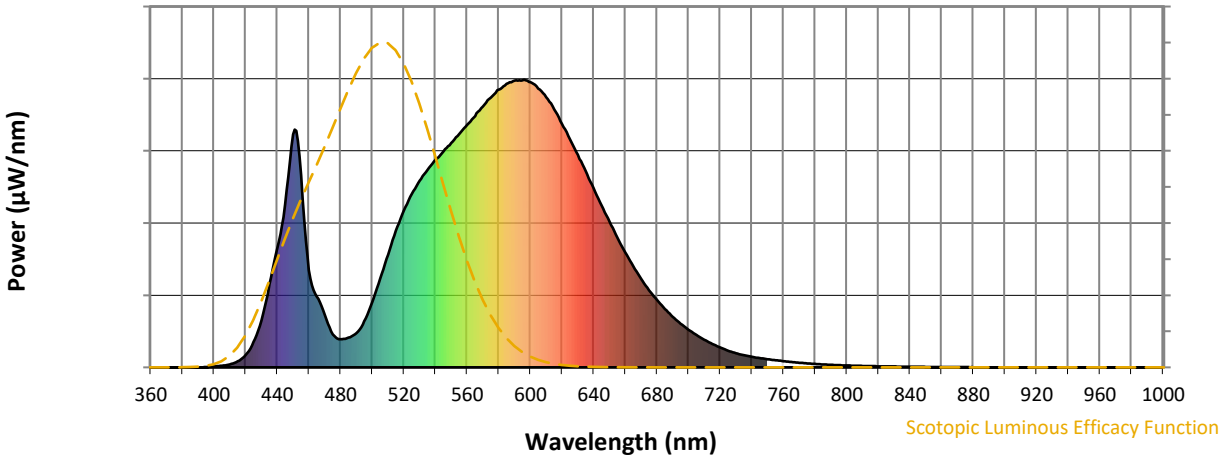



## Photopic Lumens: NR

| λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 0 | NR | 490 | 119 | NR | 620 | 846 | NR | 750 | 28 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 160 | NR | 625 | 793 | NR | 755 | 25 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 225 | NR | 630 | 739 | NR | 760 | 22 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 308 | NR | 635 | 681 | NR | 765 | 19 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 392 | NR | 640 | 623 | NR | 770 | 16 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 474 | NR | 645 | 563 | NR | 775 | 14 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 545 | NR | 650 | 506 | NR | 780 | 12 | NR | 910 | 0 | NR |
| 395 | 1 | NR | 525 | 603 | NR | 655 | 451 | NR | 785 | 10 | NR | 915 | 0 | NR |
| 400 | 3 | NR | 530 | 649 | NR | 660 | 399 | NR | 790 | 9 | NR | 920 | 0 | NR |
| 405 | 5 | NR | 535 | 687 | NR | 665 | 352 | NR | 795 | 8 | NR | 925 | 0 | NR |
| 410 | 11 | NR | 540 | 721 | NR | 670 | 307 | NR | 800 | 6 | NR | 930 | 0 | NR |
| 415 | 21 | NR | 545 | 751 | NR | 675 | 268 | NR | 805 | 6 | NR | 935 | 0 | NR |
| 420 | 43 | NR | 550 | 779 | NR | 680 | 234 | NR | 810 | 5 | NR | 940 | 0 | NR |
| 425 | 88 | NR | 555 | 811 | NR | 685 | 203 | NR | 815 | 4 | NR | 945 | 0 | NR |
| 430 | 163 | NR | 560 | 843 | NR | 690 | 176 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 288 | NR | 565 | 873 | NR | 695 | 152 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 416 | NR | 570 | 907 | NR | 700 | 131 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 566 | NR | 575 | 938 | NR | 705 | 112 | NR | 835 | 3 | NR | 965 | 0 | NR |
| 450 | 810 | NR | 580 | 965 | NR | 710 | 96 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 669 | NR | 585 | 986 | NR | 715 | 81 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 338 | NR | 590 | 997 | NR | 720 | 69 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 246 | NR | 595 | 997 | NR | 725 | 58 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 182 | NR | 600 | 991 | NR | 730 | 49 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 115 | NR | 605 | 968 | NR | 735 | 42 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 97 | NR | 610 | 939 | NR | 740 | 37 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 103 | NR | 615 | 896 | NR | 745 | 32 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2411-284-1

## Scotopic Flux vs. Wavelength

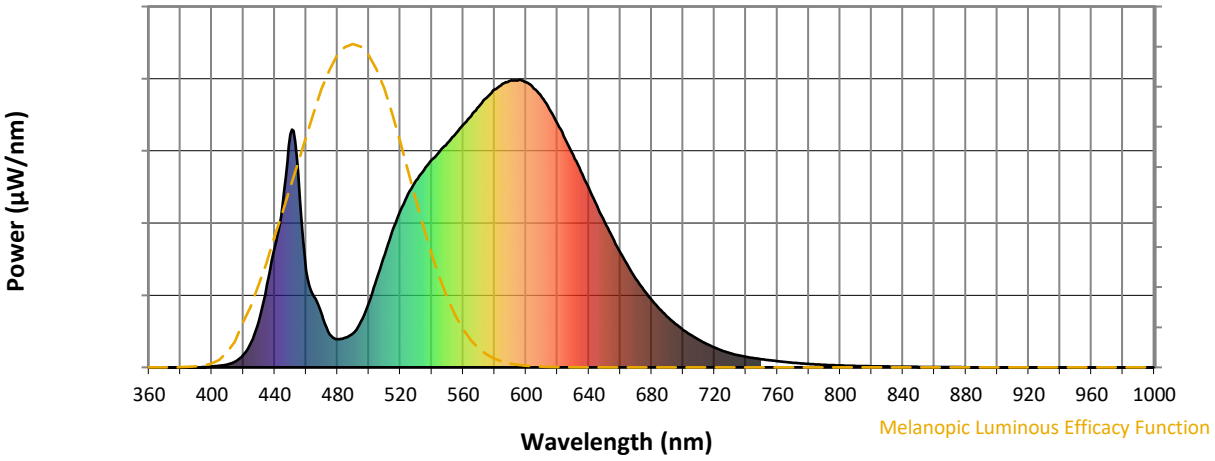



**Scotopic Lumens: NR** **S/P: 1.33**

| λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 0 | NR | 490 | 119 | NR | 620 | 846 | NR | 750 | 28 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 160 | NR | 625 | 793 | NR | 755 | 25 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 225 | NR | 630 | 739 | NR | 760 | 22 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 308 | NR | 635 | 681 | NR | 765 | 19 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 392 | NR | 640 | 623 | NR | 770 | 16 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 474 | NR | 645 | 563 | NR | 775 | 14 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 545 | NR | 650 | 506 | NR | 780 | 12 | NR | 910 | 0 | NR |
| 395 | 1 | NR | 525 | 603 | NR | 655 | 451 | NR | 785 | 10 | NR | 915 | 0 | NR |
| 400 | 3 | NR | 530 | 649 | NR | 660 | 399 | NR | 790 | 9 | NR | 920 | 0 | NR |
| 405 | 5 | NR | 535 | 687 | NR | 665 | 352 | NR | 795 | 8 | NR | 925 | 0 | NR |
| 410 | 11 | NR | 540 | 721 | NR | 670 | 307 | NR | 800 | 6 | NR | 930 | 0 | NR |
| 415 | 21 | NR | 545 | 751 | NR | 675 | 268 | NR | 805 | 6 | NR | 935 | 0 | NR |
| 420 | 43 | NR | 550 | 779 | NR | 680 | 234 | NR | 810 | 5 | NR | 940 | 0 | NR |
| 425 | 88 | NR | 555 | 811 | NR | 685 | 203 | NR | 815 | 4 | NR | 945 | 0 | NR |
| 430 | 163 | NR | 560 | 843 | NR | 690 | 176 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 288 | NR | 565 | 873 | NR | 695 | 152 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 416 | NR | 570 | 907 | NR | 700 | 131 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 566 | NR | 575 | 938 | NR | 705 | 112 | NR | 835 | 3 | NR | 965 | 0 | NR |
| 450 | 810 | NR | 580 | 965 | NR | 710 | 96 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 669 | NR | 585 | 986 | NR | 715 | 81 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 338 | NR | 590 | 997 | NR | 720 | 69 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 246 | NR | 595 | 997 | NR | 725 | 58 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 182 | NR | 600 | 991 | NR | 730 | 49 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 115 | NR | 605 | 968 | NR | 735 | 42 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 97 | NR | 610 | 939 | NR | 740 | 37 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 103 | NR | 615 | 896 | NR | 745 | 32 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2411-284-1

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 2.47**

| λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) | λ (nm) | Power W^/nm | Lumens (ϕ/nm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 0 | NR | 490 | 119 | NR | 620 | 846 | NR | 750 | 28 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 160 | NR | 625 | 793 | NR | 755 | 25 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 225 | NR | 630 | 739 | NR | 760 | 22 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 308 | NR | 635 | 681 | NR | 765 | 19 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 392 | NR | 640 | 623 | NR | 770 | 16 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 474 | NR | 645 | 563 | NR | 775 | 14 | NR | 905 | 0 | NR |
| 390 | 0 | NR | 520 | 545 | NR | 650 | 506 | NR | 780 | 12 | NR | 910 | 0 | NR |
| 395 | 1 | NR | 525 | 603 | NR | 655 | 451 | NR | 785 | 10 | NR | 915 | 0 | NR |
| 400 | 3 | NR | 530 | 649 | NR | 660 | 399 | NR | 790 | 9 | NR | 920 | 0 | NR |
| 405 | 5 | NR | 535 | 687 | NR | 665 | 352 | NR | 795 | 8 | NR | 925 | 0 | NR |
| 410 | 11 | NR | 540 | 721 | NR | 670 | 307 | NR | 800 | 6 | NR | 930 | 0 | NR |
| 415 | 21 | NR | 545 | 751 | NR | 675 | 268 | NR | 805 | 6 | NR | 935 | 0 | NR |
| 420 | 43 | NR | 550 | 779 | NR | 680 | 234 | NR | 810 | 5 | NR | 940 | 0 | NR |
| 425 | 88 | NR | 555 | 811 | NR | 685 | 203 | NR | 815 | 4 | NR | 945 | 0 | NR |
| 430 | 163 | NR | 560 | 843 | NR | 690 | 176 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 288 | NR | 565 | 873 | NR | 695 | 152 | NR | 825 | 3 | NR | 955 | 0 | NR |
| 440 | 416 | NR | 570 | 907 | NR | 700 | 131 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 566 | NR | 575 | 938 | NR | 705 | 112 | NR | 835 | 3 | NR | 965 | 0 | NR |
| 450 | 810 | NR | 580 | 965 | NR | 710 | 96 | NR | 840 | 2 | NR | 970 | 0 | NR |
| 455 | 669 | NR | 585 | 986 | NR | 715 | 81 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 338 | NR | 590 | 997 | NR | 720 | 69 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 246 | NR | 595 | 997 | NR | 725 | 58 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 182 | NR | 600 | 991 | NR | 730 | 49 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 115 | NR | 605 | 968 | NR | 735 | 42 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 97 | NR | 610 | 939 | NR | 740 | 37 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 103 | NR | 615 | 896 | NR | 745 | 32 | NR | 875 | 1 | NR | | | |

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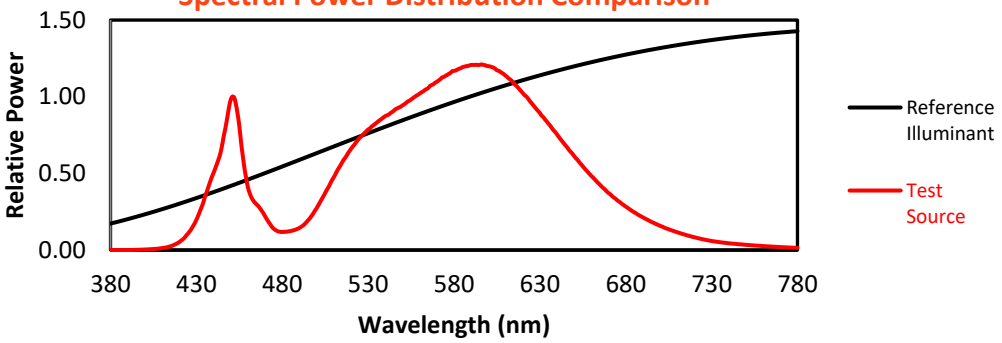
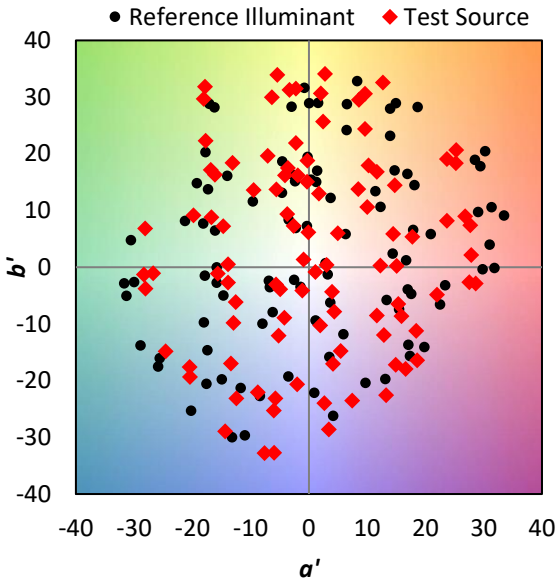
## Summary

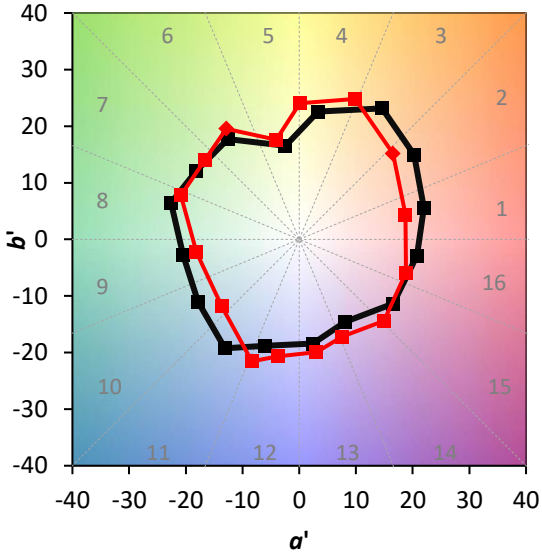
$R_f$ = 76.6
$R_g$ = 95.4
CIE $R_a$ = 73.9
$R_9$ = -18.0

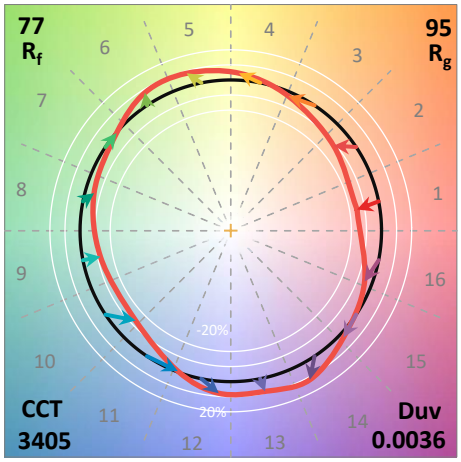
## Spectral Power Distribution Comparison

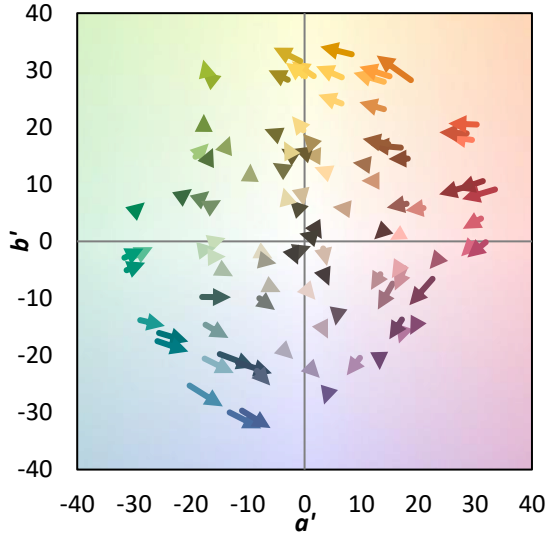



## Color Vector Graphics



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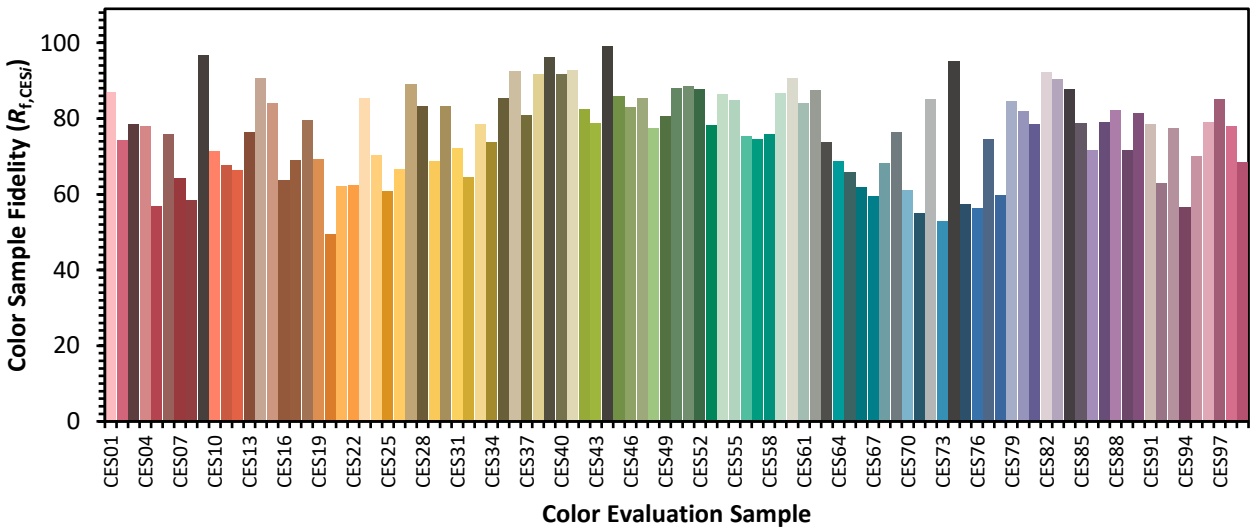
## Individual Sample Fidelity Index ($R_{f,i}$)

| | | | |
|---|---|---|---|
| CES01 = 86 | CES26 = 67 | CES51 = 88 | CES76 = 56 |
| CES02 = 62 | CES27 = 89 | CES52 = 88 | CES77 = 75 |
| CES03 = 31 | CES28 = 83 | CES53 = 78 | CES78 = 60 |
| CES04 = 70 | CES29 = 69 | CES54 = 86 | CES79 = 85 |
| CES05 = 48 | CES30 = 83 | CES55 = 85 | CES80 = 82 |
| CES06 = 51 | CES31 = 72 | CES56 = 75 | CES81 = 78 |
| CES07 = 41 | CES32 = 65 | CES57 = 75 | CES82 = 92 |
| CES08 = 40 | CES33 = 78 | CES58 = 76 | CES83 = 90 |
| CES09 = 29 | CES34 = 74 | CES59 = 87 | CES84 = 88 |
| CES10 = 75 | CES35 = 86 | CES60 = 91 | CES85 = 79 |
| CES11 = 58 | CES36 = 93 | CES61 = 84 | CES86 = 72 |
| CES12 = 64 | CES37 = 81 | CES62 = 88 | CES87 = 79 |
| CES13 = 43 | CES38 = 92 | CES63 = 74 | CES88 = 82 |
| CES14 = 74 | CES39 = 96 | CES64 = 69 | CES89 = 72 |
| CES15 = 71 | CES40 = 92 | CES65 = 66 | CES90 = 82 |
| CES16 = 47 | CES41 = 93 | CES66 = 62 | CES91 = 79 |
| CES17 = 50 | CES42 = 83 | CES67 = 60 | CES92 = 63 |
| CES18 = 56 | CES43 = 79 | CES68 = 68 | CES93 = 77 |
| CES19 = 72 | CES44 = 99 | CES69 = 76 | CES94 = 56 |
| CES20 = 65 | CES45 = 86 | CES70 = 61 | CES95 = 70 |
| CES21 = 86 | CES46 = 83 | CES71 = 55 | CES96 = 79 |
| CES22 = 79 | CES47 = 85 | CES72 = 85 | CES97 = 85 |
| CES23 = 92 | CES48 = 78 | CES73 = 53 | CES98 = 78 |
| CES24 = 91 | CES49 = 81 | CES74 = 95 | CES99 = 68 |
| CES25 = 72 | CES50 = 88 | CES75 = 57 | |



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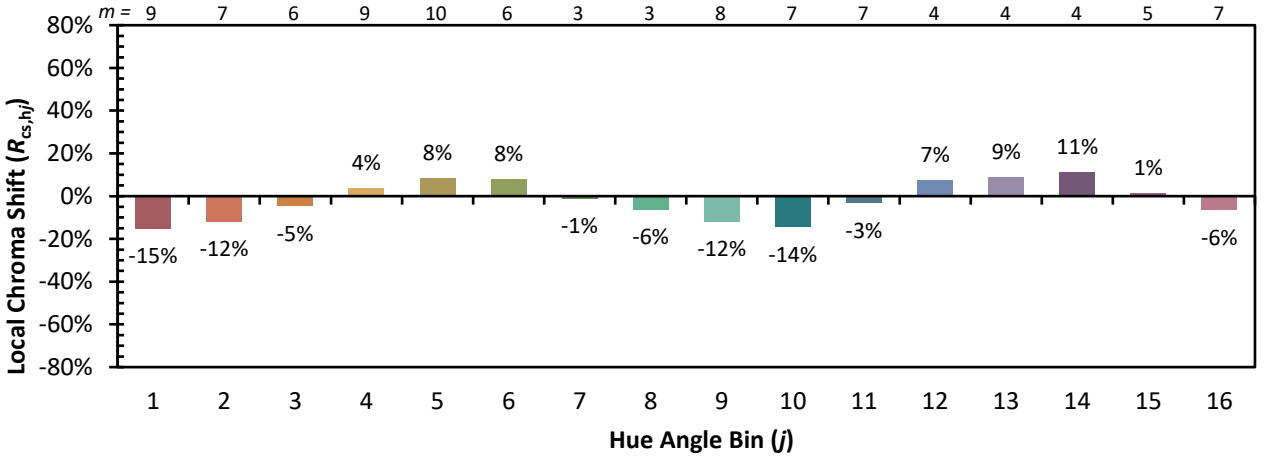
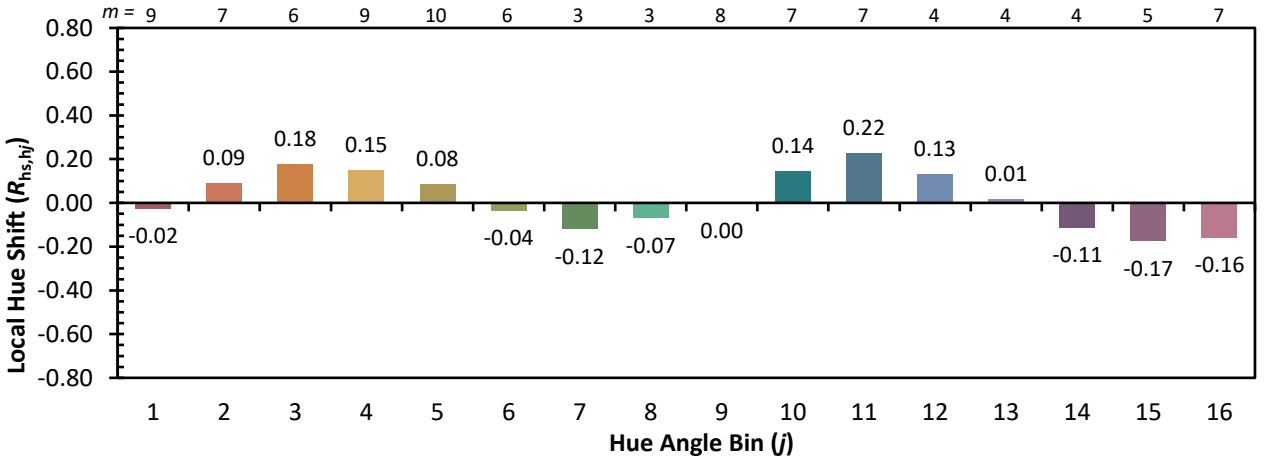
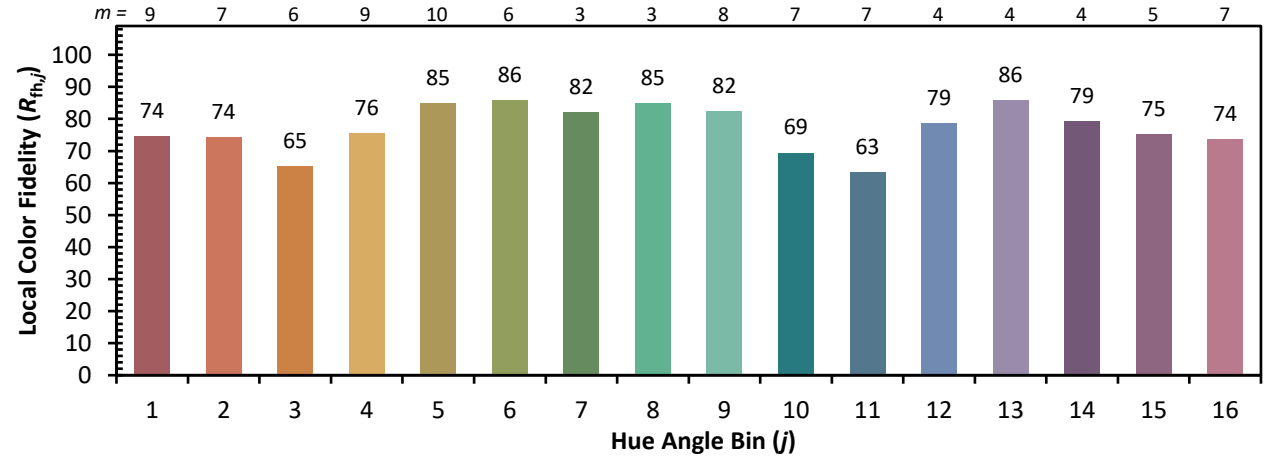
## Color Rendition by Hue-Angle Bin



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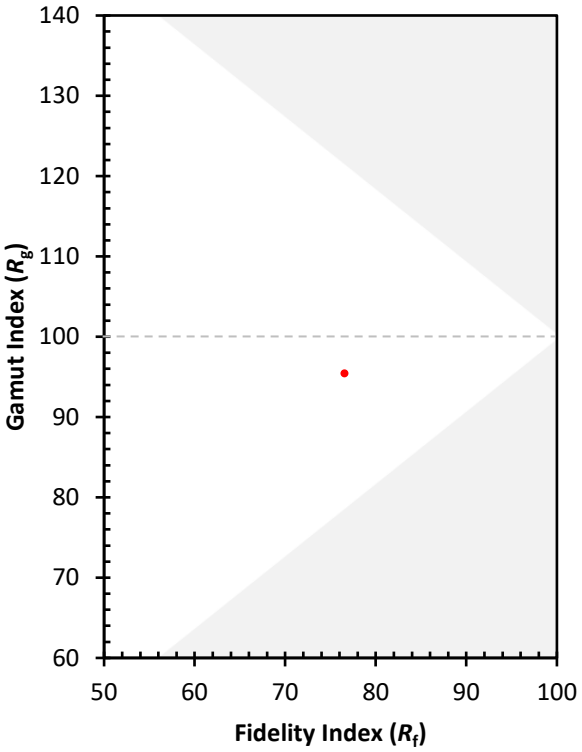
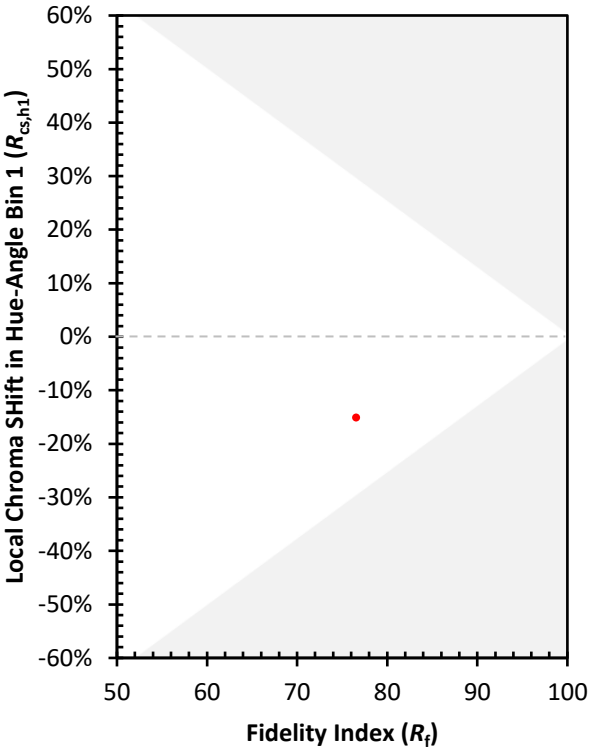
### Measure Comparisons




(END OF REPORT)