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: P1364901

Luminaire Tested: **GSS-SB4C-740-U-SLL**

Issue Date: 02/18/2026

Report Generated By 670245763

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: | P1364901 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 02/18/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB4C-740-U-SLL |
| Description: | GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 204W 70CRI 4000K FIXTURE w/ 90° Spill Light Eliminator LEFT OPTIC |
| Light Source: | (104) 4000K CCT, 70 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 29048.8 lumens |
| Efficiency: | N/A |
| Efficacy: | 142.4 lumens/watt |
| Luminous Opening: | Rectangular (W 1.5' x L: 1' x H: 0') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B3 - U0 - G4 |

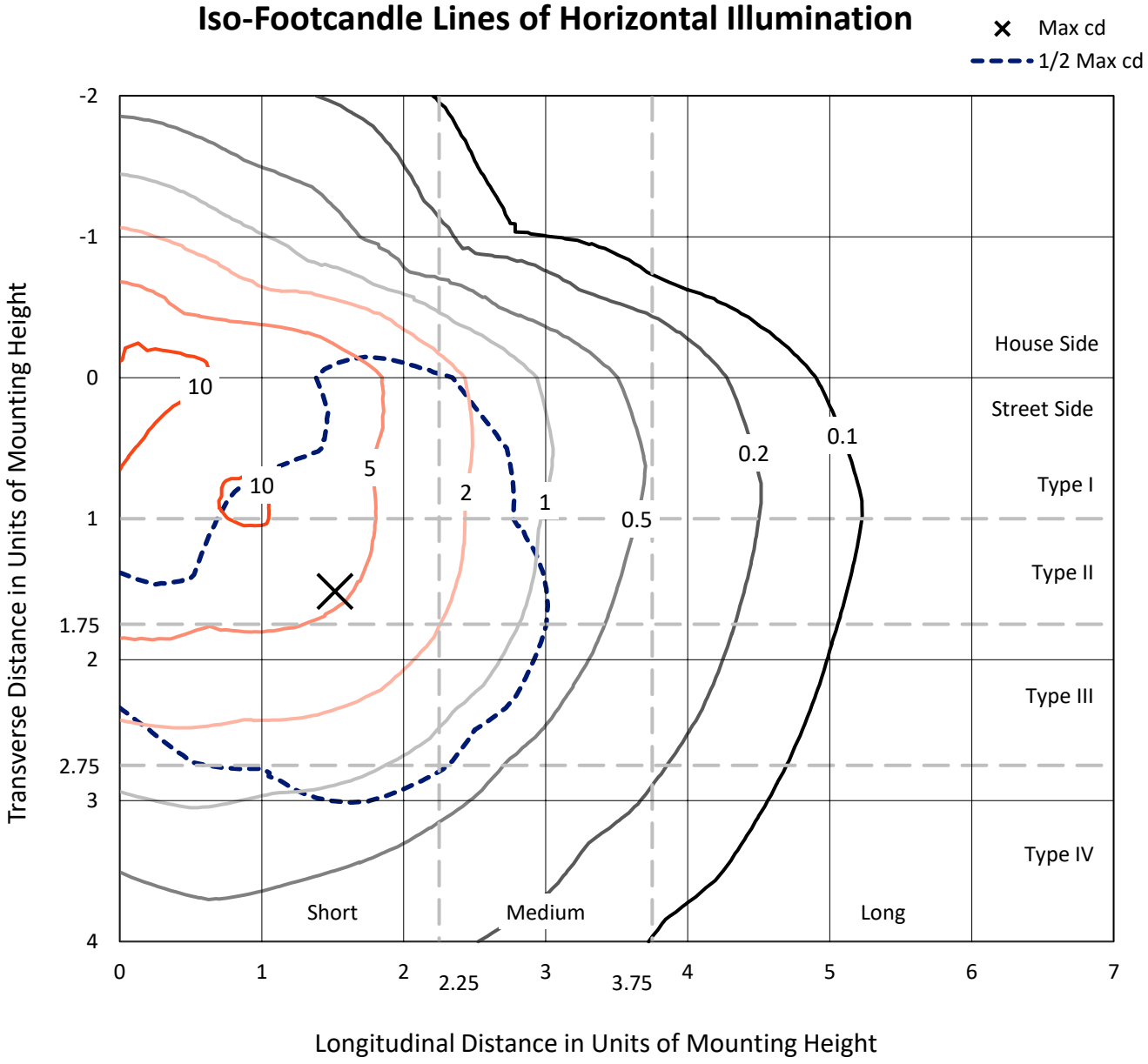
| | |
|---|---|
| Input Watts (W): | 204 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | 9.5% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

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## Iso-Footcandle Lines of Horizontal Illumination



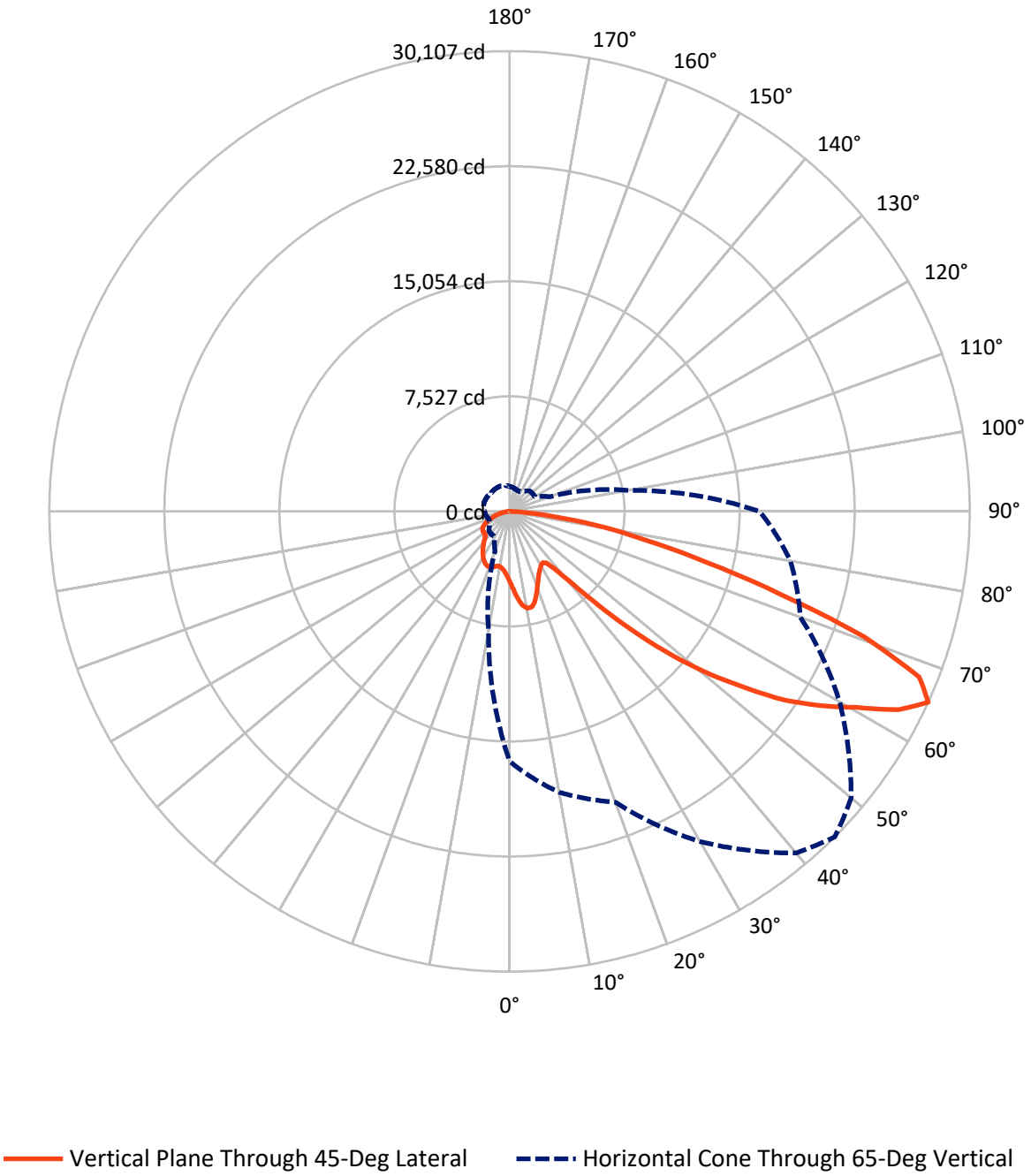

Based on 20 foot mounting height. Maximum calculated value = 15.4 fc
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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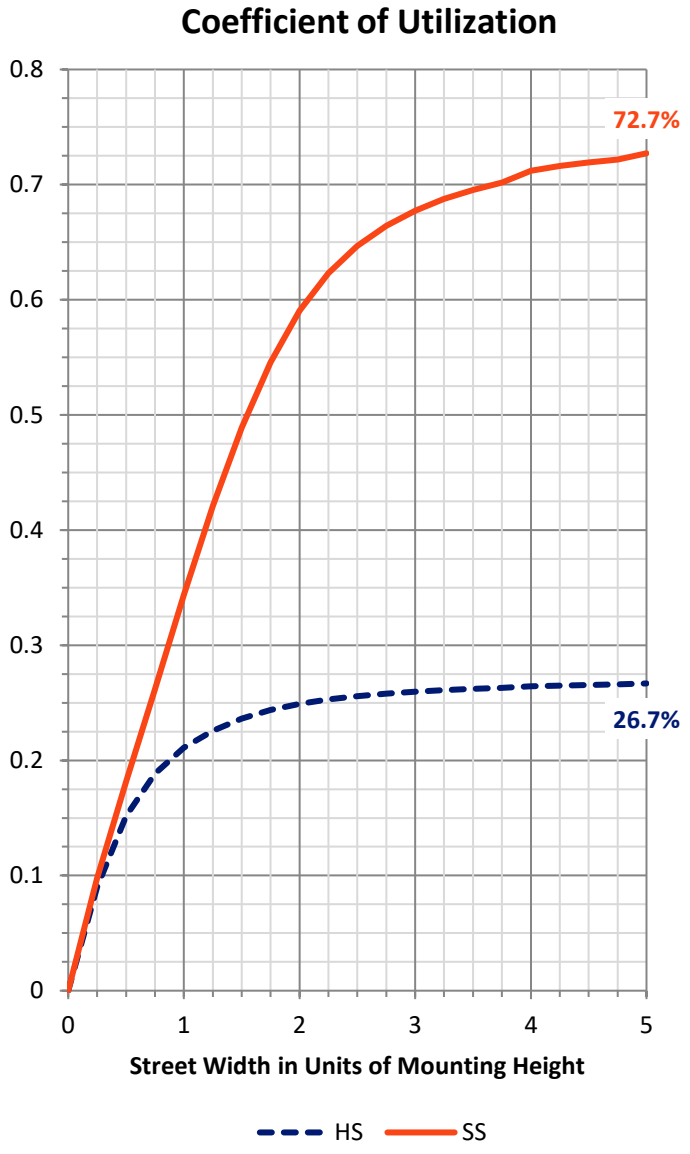
REPORT NUMBER: P1364901
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 7814.8 | 0.0 | 7814.8 |
| | % Fixture | 26.9 | 0.0 | 26.9 |
| **Street Side** | Lumens | 21234.1 | 0.0 | 21234.1 |
| | % Fixture | 73.1 | 0.0 | 73.1 |
| **Total** | Lumens | 29048.8 | 0.0 | 29048.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 457.4 | 1.6 |
| 10°-20° | 1401.6 | 4.8 |
| 20°-30° | 2169.2 | 7.5 |
| 30°-40° | 2691.3 | 9.3 |
| 40°-50° | 3935.5 | 13.5 |
| 50°-60° | 6164.4 | 21.2 |
| 60°-70° | 7314.5 | 25.2 |
| 70°-80° | 4266.2 | 14.7 |
| 80°-90° | 649.0 | 2.2 |
| 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° | 29048.8 | 100.0 |
| 0°-180° | 29048.8 | 100.0 |



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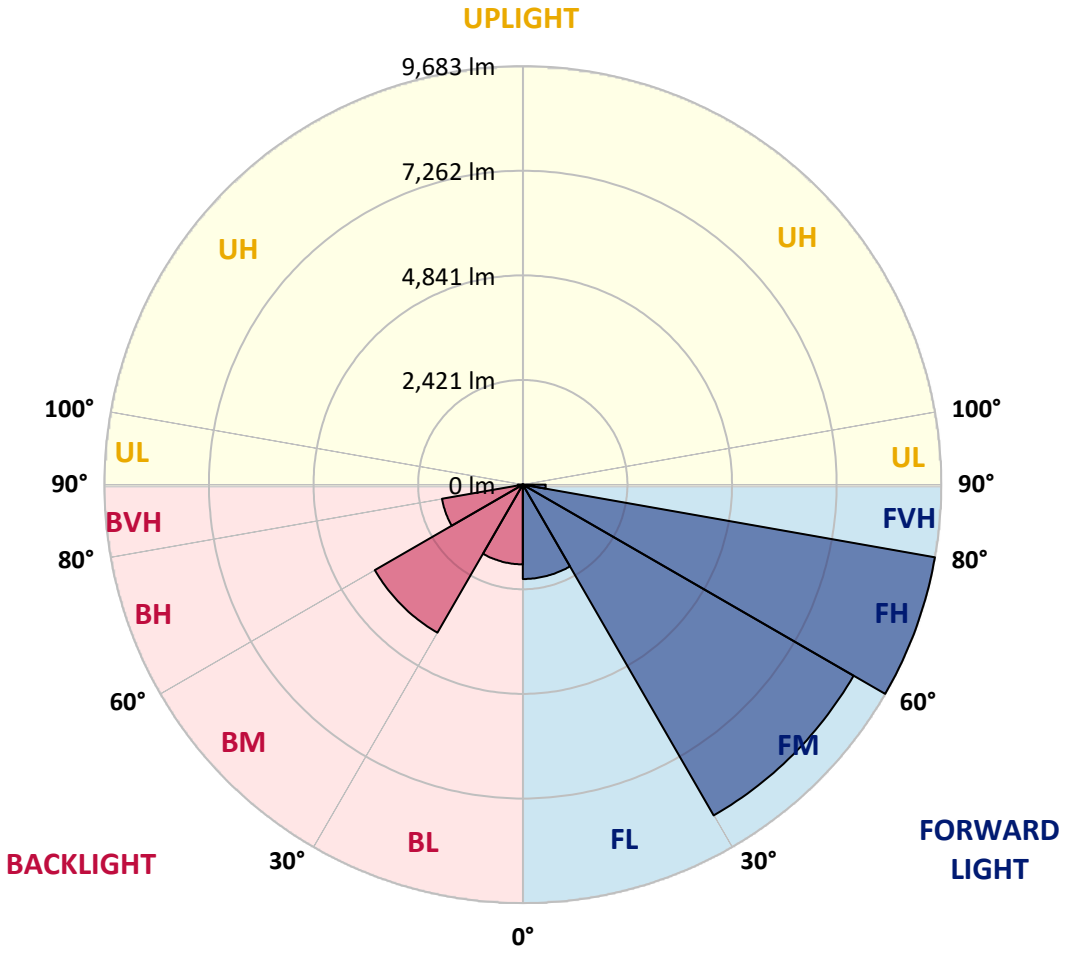
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## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 2183.3 | 7.5 | | | |
| FM | (30°-60°) | 8837.3 | 30.4 | | | |
| FH | (60°-80°) | 9682.7 | 33.3 | | | G4/12000 |
| FVH | (80°-90°) | 530.8 | 1.8 | | | G4/750 |
| BL | (0°-30°) | 1844.8 | 6.4 | B3/2500 | | |
| BM | (30°-60°) | 3953.9 | 13.6 | B3/5000 | | |
| BH | (60°-80°) | 1897.9 | 6.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 118.2 | 0.4 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

**BUG Rating: B3-U0-G4**
Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 | *4631.9* | 4631.9 |
| 2.5° | 5004.9 | 5022.6 | 5040.4 | 5059.6 | 5079.5 | 5090.8 | 5102.2 | 5114.3 | 5125.6 | *5136.3* | 5125.6 |
| 5° | 5345.9 | 5426.1 | 5505.7 | 5559.7 | 5613.7 | 5654.9 | 5696.1 | 5719.5 | 5743.7 | *5747.2* | 5743.7 |
| 7.5° | 5690.4 | 5785.6 | 5880.8 | 5963.2 | 6045.6 | 6098.2 | 6150.8 | 6181.3 | 6212.6 | *6223.2* | 6212.6 |
| 10° | 5907.1 | 6018.6 | 6130.9 | 6210.4 | 6290.7 | 6339.7 | 6388.0 | 6412.2 | 6436.3 | *6443.4* | 6436.3 |
| 12.5° | 6017.2 | 6124.5 | 6231.7 | 6293.5 | 6354.6 | 6385.9 | 6416.4 | 6427.8 | 6437.8 | *6429.2* | 6437.8 |
| 15° | 6070.5 | 6133.7 | 6196.2 | 6222.5 | 6248.1 | 6233.2 | 6217.5 | 6195.5 | 6173.5 | *6159.3* | 6173.5 |
| 17.5° | 6084.7 | 6106.7 | 6129.4 | 6081.8 | 6035.0 | 5949.7 | 5864.5 | 5800.5 | 5736.6 | *5690.4* | 5736.6 |
| 20° | 6130.9 | 6095.3 | 6059.8 | 5933.4 | 5807.6 | 5647.8 | 5487.9 | 5380.7 | 5272.7 | *5207.3* | 5272.7 |
| 22.5° | 6180.6 | 6080.4 | 5980.3 | 5767.8 | 5555.4 | 5336.6 | 5118.5 | 4994.9 | 4872.0 | *4802.4* | 4872.0 |
| 25° | 6258.7 | 6086.8 | 5914.2 | 5627.2 | 5340.9 | 5083.7 | 4827.3 | 4693.0 | 4559.4 | *4482.7* | 4559.4 |
| 27.5° | 6372.4 | 6109.5 | 5846.7 | 5491.5 | 5136.3 | 4857.8 | 4578.6 | 4450.7 | 4322.9 | *4255.4* | 4322.9 |
| 30° | 6532.2 | 6183.4 | 5833.9 | 5409.1 | 4983.5 | 4692.3 | 4401.0 | 4276.0 | 4150.2 | *4077.8* | 4150.2 |
| 32.5° | 6727.6 | 6287.2 | 5846.7 | 5370.7 | 4894.7 | 4597.8 | 4301.5 | 4181.5 | 4062.1 | *3999.6* | 4062.1 |
| 35° | 7058.0 | 6500.3 | 5942.6 | 5414.8 | 4887.6 | 4612.0 | 4337.1 | 4249.0 | 4161.6 | *4127.5* | 4161.6 |
| 37.5° | 7477.1 | 6825.6 | 6173.5 | 5630.0 | 5086.6 | 4899.0 | 4711.5 | 4711.5 | 4711.5 | *4738.5* | 4711.5 |
| 40° | 8095.2 | 7363.4 | 6631.7 | 6117.4 | 5603.7 | 5592.4 | 5582.4 | 5701.8 | 5821.8 | *5875.1* | 5821.8 |
| 42.5° | 8961.9 | 8188.2 | 7415.3 | 7000.4 | 6585.5 | 6834.2 | 7082.8 | 7428.1 | 7773.3 | *7999.2* | 7773.3 |
| 45° | 10038.1 | 9285.1 | 8532.1 | 8242.2 | 7953.1 | 8506.5 | 9059.2 | 9669.4 | 10279.7 | *10713.0* | 10279.7 |
| 47.5° | 11068.2 | 10434.5 | 9800.1 | 9634.6 | 9469.8 | 10389.8 | 11309.8 | 12204.2 | 13098.6 | *13625.7* | 13098.6 |
| 50° | 12261.7 | 11692.0 | 11121.5 | 11089.5 | 11057.6 | 12283.0 | 13508.5 | 14662.9 | 15817.3 | *16460.3* | 15817.3 |
| 52.5° | 13792.7 | 13166.8 | 12540.2 | 12565.8 | 12589.9 | 14045.6 | 15501.2 | 16897.2 | 18293.1 | *19017.7* | 18293.1 |
| 55° | 15622.0 | 14837.0 | 14052.0 | 14047.7 | 14043.4 | 15715.8 | 17389.5 | 19104.4 | 20820.8 | *21788.4* | 20820.8 |
| 57.5° | 17486.8 | 16751.5 | 16016.3 | 15841.5 | 15666.0 | 17415.1 | 19163.4 | 21057.3 | 22952.0 | *23969.3* | 22952.0 |
| 60° | 18886.3 | 18481.4 | 18076.5 | 17796.6 | 17517.4 | 19313.3 | 21109.9 | 23066.4 | 25022.2 | *26036.6* | 25022.2 |
| 62.5° | 18307.3 | 19031.2 | 19755.2 | 19734.6 | 19714.0 | 21652.7 | 23591.4 | 25626.0 | 27662.1 | *28572.8* | 27662.1 |
| 65° | *16353.7* | *17508.1* | *18662.5* | *19456.8* | *20250.3* | *22594.0* | *24936.9* | *27056.8* | *29176.7* | *30107.3* | *29176.7* |
| 67.5° | 14520.8 | 15538.1 | 16556.2 | 17206.2 | 17856.2 | 20496.8 | 23138.1 | 25543.6 | 27949.1 | *28906.7* | 27949.1 |
| 70° | 12766.1 | 13892.8 | 15019.5 | 15484.2 | 15948.8 | 18192.3 | 20435.0 | 22338.2 | 24240.7 | *24615.8* | 24240.7 |
| 72.5° | 10958.1 | 12298.0 | 13638.5 | 13835.3 | 14032.1 | 15664.6 | 17297.1 | 18310.9 | 19324.6 | *18506.3* | 19324.6 |
| 75° | 8972.5 | 10484.3 | 11995.3 | 12126.7 | 12258.2 | 12766.8 | 13276.2 | 13534.1 | 13792.7 | *13327.3* | 13792.7 |
| 77.5° | 5967.5 | 7276.0 | 8585.3 | 8880.2 | 9175.0 | 9513.8 | 9853.4 | 9835.7 | 9817.9 | *9164.3* | 9817.9 |
| 80° | 3502.3 | 4526.0 | 5549.7 | 5588.1 | 5626.5 | 5880.8 | 6134.4 | 6393.7 | 6653.0 | *6237.4* | 6653.0 |
| 82.5° | 1751.2 | 2313.1 | 2875.8 | 2962.4 | 3049.1 | 3204.7 | 3360.3 | 3432.7 | 3505.9 | *3154.2* | 3505.9 |
| 85° | 397.8 | 544.2 | 690.5 | 831.9 | 973.3 | 1136.7 | 1300.1 | 1281.6 | 1263.1 | *1065.6* | 1263.1 |
| 87.5° | 32.0 | 32.7 | 34.1 | 34.8 | 35.5 | 36.2 | 36.9 | 39.1 | 41.2 | *42.6* | 41.2 |
| 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° | 95° | 100° | 105° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 |
| 2.5° | 5114.3 | 5102.2 | 5090.8 | 5079.5 | 5059.6 | 5040.4 | 5022.6 | 5004.9 | 4959.4 | 4914.6 | 4873.4 |
| 5° | 5719.5 | 5696.1 | 5654.9 | 5613.7 | 5559.7 | 5505.7 | 5426.1 | 5345.9 | 5265.6 | 5186.0 | 5102.2 |
| 7.5° | 6181.3 | 6150.8 | 6098.2 | 6045.6 | 5963.2 | 5880.8 | 5785.6 | 5690.4 | 5555.4 | 5420.4 | 5293.3 |
| 10° | 6412.2 | 6388.0 | 6339.7 | 6290.7 | 6210.4 | 6130.9 | 6018.6 | 5907.1 | 5745.8 | 5583.8 | 5426.1 |
| 12.5° | 6427.8 | 6416.4 | 6385.9 | 6354.6 | 6293.5 | 6231.7 | 6124.5 | 6017.2 | 5856.6 | 5696.1 | 5519.2 |
| 15° | 6195.5 | 6217.5 | 6233.2 | 6248.1 | 6222.5 | 6196.2 | 6133.7 | 6070.5 | 5907.8 | 5745.8 | 5566.1 |
| 17.5° | 5800.5 | 5864.5 | 5949.7 | 6035.0 | 6081.8 | 6129.4 | 6106.7 | 6084.7 | 5932.7 | 5781.3 | 5589.5 |
| 20° | 5380.7 | 5487.9 | 5647.8 | 5807.6 | 5933.4 | 6059.8 | 6095.3 | 6130.9 | 5977.4 | 5824.0 | 5617.9 |
| 22.5° | 4994.9 | 5118.5 | 5336.6 | 5555.4 | 5767.8 | 5980.3 | 6080.4 | 6180.6 | 6039.9 | 5900.0 | 5673.4 |
| 25° | 4693.0 | 4827.3 | 5083.7 | 5340.9 | 5627.2 | 5914.2 | 6086.8 | 6258.7 | 6137.3 | 6015.8 | 5768.6 |
| 27.5° | 4450.7 | 4578.6 | 4857.8 | 5136.3 | 5491.5 | 5846.7 | 6109.5 | 6372.4 | 6279.3 | 6186.3 | 5907.8 |
| 30° | 4276.0 | 4401.0 | 4692.3 | 4983.5 | 5409.1 | 5833.9 | 6183.4 | 6532.2 | 6459.1 | 6386.6 | 6072.6 |
| 32.5° | 4181.5 | 4301.5 | 4597.8 | 4894.7 | 5370.7 | 5846.7 | 6287.2 | 6727.6 | 6682.1 | 6636.7 | 6266.6 |
| 35° | 4249.0 | 4337.1 | 4612.0 | 4887.6 | 5414.8 | 5942.6 | 6500.3 | 7058.0 | 7001.1 | 6944.3 | 6472.6 |
| 37.5° | 4711.5 | 4711.5 | 4899.0 | 5086.6 | 5630.0 | 6173.5 | 6825.6 | 7477.1 | 7409.6 | 7342.1 | 6724.1 |
| 40° | 5701.8 | 5582.4 | 5592.4 | 5603.7 | 6117.4 | 6631.7 | 7363.4 | 8095.2 | 7962.3 | 7828.7 | 7011.8 |
| 42.5° | 7428.1 | 7082.8 | 6834.2 | 6585.5 | 7000.4 | 7415.3 | 8188.2 | 8961.9 | 8680.5 | 8398.5 | 7330.0 |
| 45° | 9669.4 | 9059.2 | 8506.5 | 7953.1 | 8242.2 | 8532.1 | 9285.1 | 10038.1 | 9587.0 | 9135.9 | 7762.0 |
| 47.5° | 12204.2 | 11309.8 | 10389.8 | 9469.8 | 9634.6 | 9800.1 | 10434.5 | 11068.2 | 10497.1 | 9925.9 | 8206.0 |
| 50° | 14662.9 | 13508.5 | 12283.0 | 11057.6 | 11089.5 | 11121.5 | 11692.0 | 12261.7 | 11487.4 | 10713.0 | 8593.2 |
| 52.5° | 16897.2 | 15501.2 | 14045.6 | 12589.9 | 12565.8 | 12540.2 | 13166.8 | 13792.7 | 12562.9 | 11332.5 | 8776.4 |
| 55° | 19104.4 | 17389.5 | 15715.8 | 14043.4 | 14047.7 | 14052.0 | 14837.0 | 15622.0 | 13643.5 | 11665.0 | 8728.1 |
| 57.5° | 21057.3 | 19163.4 | 17415.1 | 15666.0 | 15841.5 | 16016.3 | 16751.5 | 17486.8 | 14550.7 | 11615.2 | 8464.6 |
| 60° | 23066.4 | 21109.9 | 19313.3 | 17517.4 | 17796.6 | 18076.5 | 18481.4 | 18886.3 | 14957.0 | 11027.0 | 7833.0 |
| 62.5° | 25626.0 | 23591.4 | 21652.7 | 19714.0 | 19734.6 | 19755.2 | 19031.2 | 18307.3 | 14055.5 | 9803.7 | 6797.9 |
| 65° | *27056.8* | *24936.9* | *22594.0* | *20250.3* | *19456.8* | *18662.5* | *17508.1* | *16353.7* | *12123.2* | *7892.7* | *5332.4* |
| 67.5° | 25543.6 | 23138.1 | 20496.8 | 17856.2 | 17206.2 | 16556.2 | 15538.1 | 14520.8 | 10411.8 | 6302.8 | 4149.5 |
| 70° | 22338.2 | 20435.0 | 18192.3 | 15948.8 | 15484.2 | 15019.5 | 13892.8 | 12766.1 | 8845.3 | 4924.6 | 3179.8 |
| 72.5° | 18310.9 | 17297.1 | 15664.6 | 14032.1 | 13835.3 | 13638.5 | 12298.0 | 10958.1 | 7345.0 | 3731.1 | 2390.5 |
| 75° | 13534.1 | 13276.2 | 12766.8 | 12258.2 | 12126.7 | 11995.3 | 10484.3 | 8972.5 | 5864.5 | 2756.4 | 1771.8 |
| 77.5° | 9835.7 | 9853.4 | 9513.8 | 9175.0 | 8880.2 | 8585.3 | 7276.0 | 5967.5 | 3847.6 | 1727.7 | 1145.2 |
| 80° | 6393.7 | 6134.4 | 5880.8 | 5626.5 | 5588.1 | 5549.7 | 4526.0 | 3502.3 | 2205.8 | 909.3 | 633.0 |
| 82.5° | 3432.7 | 3360.3 | 3204.7 | 3049.1 | 2962.4 | 2875.8 | 2313.1 | 1751.2 | 1105.4 | 460.3 | 340.3 |
| 85° | 1281.6 | 1300.1 | 1136.7 | 973.3 | 831.9 | 690.5 | 544.2 | 397.8 | 262.9 | 127.9 | 108.0 |
| 87.5° | 39.1 | 36.9 | 36.2 | 35.5 | 34.8 | 34.1 | 32.7 | 32.0 | 31.3 | 29.8 | 29.1 |
| 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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REPORT NUMBER: P1364901
CATALOG NUMBER: GSS-SB4C-740-U-SLL

**CANDELA DISTRIBUTION (continued):**

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 |
| 2.5° | 4832.2 | 4791.0 | 4749.1 | 4709.3 | 4668.8 | 4628.3 | 4592.8 | 4554.5 | 4516.8 | 4487.0 | 4457.8 |
| 5° | 5019.1 | 4937.4 | 4855.7 | 4778.2 | 4701.5 | 4621.2 | 4552.3 | 4484.1 | 4417.3 | 4361.9 | 4306.5 |
| 7.5° | 5166.1 | 5052.5 | 4938.8 | 4837.2 | 4734.9 | 4628.3 | 4545.2 | 4462.1 | 4379.7 | 4307.9 | 4235.5 |
| 10° | 5267.7 | 5127.8 | 4987.1 | 4869.9 | 4752.7 | 4639.0 | 4550.2 | 4462.8 | 4376.1 | 4302.3 | 4228.4 |
| 12.5° | 5342.3 | 5185.3 | 5028.3 | 4899.0 | 4770.4 | 4646.1 | 4559.4 | 4487.0 | 4415.2 | 4363.4 | 4312.2 |
| 15° | 5386.3 | 5217.3 | 5047.5 | 4901.8 | 4756.2 | 4617.7 | 4541.0 | 4494.1 | 4447.2 | 4442.9 | 4438.7 |
| 17.5° | 5397.7 | 5204.5 | 5012.0 | 4842.2 | 4673.1 | 4511.1 | 4445.8 | 4439.4 | 4433.0 | 4503.3 | 4573.6 |
| 20° | 5411.9 | 5185.3 | 4958.7 | 4735.6 | 4512.5 | 4298.0 | 4256.8 | 4297.3 | 4337.1 | 4474.9 | 4612.0 |
| 22.5° | 5447.4 | 5170.4 | 4893.3 | 4613.4 | 4333.5 | 4077.8 | 4038.7 | 4098.4 | 4157.3 | 4337.1 | 4516.8 |
| 25° | 5521.3 | 5169.0 | 4816.6 | 4467.8 | 4119.0 | 3825.6 | 3822.0 | 3886.7 | 3951.3 | 4117.6 | 4283.8 |
| 27.5° | 5630.0 | 5182.5 | 4734.9 | 4318.6 | 3901.6 | 3601.8 | 3619.6 | 3681.4 | 3743.9 | 3867.5 | 3991.1 |
| 30° | 5757.9 | 5211.6 | 4666.0 | 4188.6 | 3711.9 | 3420.6 | 3439.8 | 3488.1 | 3536.4 | 3625.9 | 3715.5 |
| 32.5° | 5896.4 | 5244.3 | 4592.8 | 4074.9 | 3557.7 | 3289.2 | 3289.2 | 3309.8 | 3330.4 | 3388.7 | 3446.9 |
| 35° | 6001.6 | 5236.5 | 4472.0 | 3945.6 | 3418.5 | 3211.1 | 3167.0 | 3150.0 | 3132.9 | 3171.3 | 3209.6 |
| 37.5° | 6106.0 | 5214.4 | 4322.9 | 3802.1 | 3282.1 | 3118.7 | 3034.9 | 2989.4 | 2942.5 | 2961.0 | 2978.1 |
| 40° | 6194.8 | 5164.7 | 4134.6 | 3630.9 | 3127.2 | 2997.9 | 2892.8 | 2824.6 | 2756.4 | 2755.0 | 2752.8 |
| 42.5° | 6260.2 | 5078.7 | 3896.6 | 3427.0 | 2956.7 | 2866.5 | 2736.5 | 2649.8 | 2563.2 | 2553.9 | 2544.7 |
| 45° | 6388.0 | 5019.8 | 3651.5 | 3219.6 | 2788.4 | 2706.7 | 2577.4 | 2487.9 | 2399.8 | 2385.6 | 2371.4 |
| 47.5° | 6486.1 | 4950.9 | 3415.7 | 3013.6 | 2612.9 | 2518.4 | 2397.6 | 2321.6 | 2244.9 | 2236.4 | 2227.1 |
| 50° | 6473.3 | 4833.6 | 3193.3 | 2830.3 | 2466.6 | 2337.3 | 2217.9 | 2155.4 | 2092.2 | 2102.8 | 2113.5 |
| 52.5° | 6219.7 | 4593.5 | 2968.1 | 2665.5 | 2364.3 | 2198.7 | 2070.9 | 2024.0 | 1976.4 | 2009.8 | 2042.4 |
| 55° | 5791.3 | 4275.3 | 2757.8 | 2527.6 | 2296.1 | 2131.2 | 1980.6 | 1928.1 | 1875.5 | 1922.4 | 1969.3 |
| 57.5° | 5313.9 | 3942.1 | 2570.3 | 2411.1 | 2252.0 | 2113.5 | 1928.8 | 1854.9 | 1781.7 | 1828.6 | 1875.5 |
| 60° | 4639.0 | 3520.8 | 2402.6 | 2291.1 | 2179.5 | 2070.9 | 1886.1 | 1793.8 | 1701.4 | 1732.7 | 1763.2 |
| 62.5° | 3792.2 | 2986.6 | 2181.0 | 2118.5 | 2056.6 | 2010.5 | 1834.3 | 1713.5 | 1592.7 | 1597.0 | 1599.8 |
| 65° | *2772.0* | *2347.2* | *1921.7* | *1908.2* | *1895.4* | *1882.6* | *1737.0* | *1607.0* | *1477.7* | *1463.5* | *1449.2* |
| 67.5° | 1996.3 | 1794.5 | 1592.7 | 1630.4 | 1668.0 | 1687.2 | 1587.8 | 1473.4 | 1358.3 | 1329.2 | 1300.1 |
| 70° | 1435.0 | 1364.0 | 1293.0 | 1349.1 | 1405.2 | 1399.5 | 1351.2 | 1283.0 | 1214.8 | 1196.3 | 1177.9 |
| 72.5° | 1050.0 | 1048.6 | 1047.9 | 1090.5 | 1133.1 | 1076.3 | 1106.8 | 1091.2 | 1076.3 | 1062.8 | 1050.0 |
| 75° | 787.1 | 782.2 | 777.9 | 828.3 | 879.5 | 902.2 | 922.1 | 913.6 | 905.8 | 895.8 | 886.6 |
| 77.5° | 562.6 | 566.9 | 569.8 | 625.2 | 680.6 | 745.9 | 749.5 | 731.0 | 711.8 | 701.9 | 690.5 |
| 80° | 356.6 | 360.9 | 363.7 | 422.0 | 479.5 | 571.9 | 568.3 | 545.6 | 522.2 | 514.3 | 505.8 |
| 82.5° | 220.2 | 220.9 | 221.6 | 250.1 | 278.5 | 330.3 | 344.6 | 344.6 | 344.6 | 339.6 | 333.9 |
| 85° | 88.8 | 93.1 | 98.0 | 116.5 | 135.0 | 163.4 | 171.9 | 173.3 | 174.1 | 166.2 | 157.7 |
| 87.5° | 28.4 | 29.8 | 32.0 | 35.5 | 39.1 | 42.6 | 49.7 | 54.0 | 58.3 | 62.5 | 65.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1364901
CATALOG NUMBER: GSS-SB4C-740-U-SLL

**CANDELA DISTRIBUTION (continued):**

| | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 |
| 2.5° | 4432.3 | 4406.0 | 4375.4 | 4344.2 | 4322.2 | 4299.4 | 4284.5 | 4269.6 | 4262.5 | 4255.4 | 4249.7 |
| 5° | 4261.1 | 4214.2 | 4173.0 | 4131.1 | 4098.4 | 4065.0 | 4038.0 | 4010.3 | 3998.9 | 3986.8 | 3979.0 |
| 7.5° | 4174.4 | 4113.3 | 4062.1 | 4010.3 | 3961.3 | 3913.0 | 3881.7 | 3850.4 | 3832.0 | 3813.5 | 3800.0 |
| 10° | 4163.7 | 4099.1 | 4031.6 | 3964.1 | 3910.1 | 3856.1 | 3809.2 | 3763.8 | 3737.5 | 3711.9 | 3697.7 |
| 12.5° | 4252.5 | 4192.9 | 4112.6 | 4031.6 | 3958.4 | 3886.0 | 3828.4 | 3770.9 | 3738.2 | 3706.9 | 3685.6 |
| 15° | 4418.1 | 4397.5 | 4322.9 | 4248.3 | 4147.4 | 4045.8 | 3963.4 | 3880.3 | 3834.8 | 3787.9 | 3761.6 |
| 17.5° | 4614.1 | 4654.6 | 4602.8 | 4550.2 | 4408.1 | 4266.0 | 4143.1 | 4020.9 | 3954.2 | 3887.4 | 3863.9 |
| 20° | 4721.4 | 4830.8 | 4825.1 | 4820.2 | 4634.7 | 4448.6 | 4287.3 | 4126.1 | 4036.6 | 3948.5 | 3913.0 |
| 22.5° | 4674.5 | 4832.2 | 4872.7 | 4912.5 | 4730.6 | 4548.1 | 4349.1 | 4150.2 | 4045.1 | 3939.2 | 3905.8 |
| 25° | 4453.6 | 4623.4 | 4698.7 | 4774.0 | 4624.1 | 4474.2 | 4280.9 | 4088.4 | 3977.6 | 3866.1 | 3832.0 |
| 27.5° | 4127.5 | 4263.9 | 4348.4 | 4433.0 | 4341.3 | 4249.7 | 4093.4 | 3937.1 | 3839.1 | 3740.3 | 3704.1 |
| 30° | 3807.8 | 3900.2 | 3967.7 | 4035.1 | 3974.8 | 3914.4 | 3802.1 | 3690.6 | 3617.4 | 3545.0 | 3522.2 |
| 32.5° | 3515.8 | 3584.0 | 3621.7 | 3658.6 | 3611.7 | 3564.9 | 3491.0 | 3417.1 | 3371.6 | 3326.2 | 3311.2 |
| 35° | 3265.1 | 3321.2 | 3349.6 | 3378.0 | 3338.9 | 3299.9 | 3233.8 | 3168.4 | 3135.8 | 3103.1 | 3091.0 |
| 37.5° | 3025.6 | 3072.5 | 3113.0 | 3154.2 | 3125.8 | 3097.4 | 3041.3 | 2985.2 | 2946.8 | 2907.0 | 2885.7 |
| 40° | 2798.3 | 2843.1 | 2894.2 | 2944.7 | 2939.7 | 2934.0 | 2880.7 | 2827.4 | 2772.0 | 2717.3 | 2688.2 |
| 42.5° | 2589.5 | 2634.2 | 2688.2 | 2742.2 | 2752.8 | 2763.5 | 2719.5 | 2674.7 | 2610.8 | 2546.8 | 2502.1 |
| 45° | 2409.7 | 2449.5 | 2508.5 | 2568.1 | 2593.0 | 2617.9 | 2578.1 | 2537.6 | 2465.8 | 2394.1 | 2340.8 |
| 47.5° | 2267.6 | 2308.8 | 2374.2 | 2440.3 | 2466.6 | 2493.5 | 2466.6 | 2440.3 | 2378.5 | 2315.9 | 2269.1 |
| 50° | 2158.2 | 2202.3 | 2253.4 | 2305.3 | 2354.3 | 2402.6 | 2397.6 | 2392.7 | 2343.7 | 2294.6 | 2250.6 |
| 52.5° | 2082.9 | 2124.1 | 2177.4 | 2230.7 | 2281.8 | 2333.7 | 2341.5 | 2350.0 | 2314.5 | 2279.0 | 2240.6 |
| 55° | 2018.3 | 2067.3 | 2117.0 | 2166.8 | 2215.1 | 2262.7 | 2273.3 | 2284.0 | 2258.4 | 2232.1 | 2203.7 |
| 57.5° | 1928.8 | 1982.1 | 2031.8 | 2081.5 | 2137.6 | 2193.8 | 2202.3 | 2210.8 | 2183.8 | 2156.1 | 2134.8 |
| 60° | 1817.9 | 1871.9 | 1923.8 | 1974.9 | 2031.8 | 2088.6 | 2100.0 | 2111.3 | 2090.0 | 2068.7 | 2048.8 |
| 62.5° | 1661.7 | 1722.8 | 1765.4 | 1808.0 | 1862.0 | 1916.7 | 1933.0 | 1950.1 | 1940.1 | 1930.9 | 1908.2 |
| 65° | *1507.5* | *1566.5* | *1599.8* | *1633.9* | *1680.8* | *1727.7* | *1744.1* | *1760.4* | *1755.4* | *1751.2* | *1734.8* |
| 67.5° | 1354.0 | 1408.0 | 1435.7 | 1463.5 | 1495.4 | 1527.4 | 1545.9 | 1564.3 | 1555.1 | 1545.1 | 1528.1 |
| 70° | 1221.9 | 1266.0 | 1290.1 | 1314.3 | 1339.8 | 1365.4 | 1375.4 | 1385.3 | 1371.1 | 1356.9 | 1318.5 |
| 72.5° | 1083.4 | 1116.8 | 1137.4 | 1158.0 | 1182.1 | 1206.3 | 1212.0 | 1218.4 | 1196.3 | 1173.6 | 1128.8 |
| 75° | 912.2 | 937.7 | 953.4 | 969.7 | 994.6 | 1019.4 | 1030.1 | 1040.8 | 1009.5 | 978.9 | 931.4 |
| 77.5° | 714.0 | 737.4 | 752.3 | 767.2 | 787.8 | 808.4 | 811.3 | 815.6 | 788.6 | 761.6 | 733.1 |
| 80° | 522.9 | 539.9 | 545.6 | 550.6 | 567.6 | 584.0 | 584.0 | 584.0 | 564.1 | 543.5 | 529.3 |
| 82.5° | 330.3 | 326.8 | 319.7 | 312.6 | 329.6 | 346.7 | 352.4 | 358.8 | 349.5 | 341.0 | 325.4 |
| 85° | 147.8 | 136.4 | 134.3 | 131.4 | 130.7 | 129.3 | 134.3 | 138.5 | 136.4 | 135.0 | 129.3 |
| 87.5° | 69.6 | 72.5 | 70.3 | 67.5 | 64.6 | 62.5 | 56.8 | 51.1 | 46.9 | 42.6 | 39.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

REPORT NUMBER: P1364901
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**CANDELA DISTRIBUTION (continued):**

| | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 |
| 2.5° | 4244.7 | 4241.2 | 4244.7 | 4249.7 | 4255.4 | 4262.5 | 4269.6 | 4284.5 | 4299.4 | 4322.2 | 4344.2 |
| 5° | 3971.2 | 3964.1 | 3971.2 | 3979.0 | 3986.8 | 3998.9 | 4010.3 | 4038.0 | 4065.0 | 4098.4 | 4131.1 |
| 7.5° | 3786.5 | 3779.4 | 3786.5 | 3800.0 | 3813.5 | 3832.0 | 3850.4 | 3881.7 | 3913.0 | 3961.3 | 4010.3 |
| 10° | 3683.5 | 3672.8 | 3683.5 | 3697.7 | 3711.9 | 3737.5 | 3763.8 | 3809.2 | 3856.1 | 3910.1 | 3964.1 |
| 12.5° | 3664.3 | 3651.5 | 3664.3 | 3685.6 | 3706.9 | 3738.2 | 3770.9 | 3828.4 | 3886.0 | 3958.4 | 4031.6 |
| 15° | 3735.4 | 3715.5 | 3735.4 | 3761.6 | 3787.9 | 3834.8 | 3880.3 | 3963.4 | 4045.8 | 4147.4 | 4248.3 |
| 17.5° | 3839.8 | 3829.1 | 3839.8 | 3863.9 | 3887.4 | 3954.2 | 4020.9 | 4143.1 | 4266.0 | 4408.1 | 4550.2 |
| 20° | 3877.4 | 3864.6 | 3877.4 | 3913.0 | 3948.5 | 4036.6 | 4126.1 | 4287.3 | 4448.6 | 4634.7 | 4820.2 |
| 22.5° | 3871.7 | 3857.5 | 3871.7 | 3905.8 | 3939.2 | 4045.1 | 4150.2 | 4349.1 | 4548.1 | 4730.6 | 4912.5 |
| 25° | 3797.2 | 3786.5 | 3797.2 | 3832.0 | 3866.1 | 3977.6 | 4088.4 | 4280.9 | 4474.2 | 4624.1 | 4774.0 |
| 27.5° | 3667.2 | 3644.4 | 3667.2 | 3704.1 | 3740.3 | 3839.1 | 3937.1 | 4093.4 | 4249.7 | 4341.3 | 4433.0 |
| 30° | 3498.8 | 3488.1 | 3498.8 | 3522.2 | 3545.0 | 3617.4 | 3690.6 | 3802.1 | 3914.4 | 3974.8 | 4035.1 |
| 32.5° | 3296.3 | 3289.2 | 3296.3 | 3311.2 | 3326.2 | 3371.6 | 3417.1 | 3491.0 | 3564.9 | 3611.7 | 3658.6 |
| 35° | 3079.6 | 3069.0 | 3079.6 | 3091.0 | 3103.1 | 3135.8 | 3168.4 | 3233.8 | 3299.9 | 3338.9 | 3378.0 |
| 37.5° | 2864.4 | 2848.8 | 2864.4 | 2885.7 | 2907.0 | 2946.8 | 2985.2 | 3041.3 | 3097.4 | 3125.8 | 3154.2 |
| 40° | 2658.4 | 2642.7 | 2658.4 | 2688.2 | 2717.3 | 2772.0 | 2827.4 | 2880.7 | 2934.0 | 2939.7 | 2944.7 |
| 42.5° | 2458.0 | 2429.6 | 2458.0 | 2502.1 | 2546.8 | 2610.8 | 2674.7 | 2719.5 | 2763.5 | 2752.8 | 2742.2 |
| 45° | 2287.5 | 2252.0 | 2287.5 | 2340.8 | 2394.1 | 2465.8 | 2537.6 | 2578.1 | 2617.9 | 2593.0 | 2568.1 |
| 47.5° | 2222.2 | 2188.1 | 2222.2 | 2269.1 | 2315.9 | 2378.5 | 2440.3 | 2466.6 | 2493.5 | 2466.6 | 2440.3 |
| 50° | 2205.8 | 2173.9 | 2205.8 | 2250.6 | 2294.6 | 2343.7 | 2392.7 | 2397.6 | 2402.6 | 2354.3 | 2305.3 |
| 52.5° | 2202.3 | 2173.9 | 2202.3 | 2240.6 | 2279.0 | 2314.5 | 2350.0 | 2341.5 | 2333.7 | 2281.8 | 2230.7 |
| 55° | 2175.3 | 2152.6 | 2175.3 | 2203.7 | 2232.1 | 2258.4 | 2284.0 | 2273.3 | 2262.7 | 2215.1 | 2166.8 |
| 57.5° | 2113.5 | 2102.8 | 2113.5 | 2134.8 | 2156.1 | 2183.8 | 2210.8 | 2202.3 | 2193.8 | 2137.6 | 2081.5 |
| 60° | 2028.2 | 2010.5 | 2028.2 | 2048.8 | 2068.7 | 2090.0 | 2111.3 | 2100.0 | 2088.6 | 2031.8 | 1974.9 |
| 62.5° | 1886.1 | 1861.3 | 1886.1 | 1908.2 | 1930.9 | 1940.1 | 1950.1 | 1933.0 | 1916.7 | 1862.0 | 1808.0 |
| 65° | *1719.2* | *1690.8* | *1719.2* | *1734.8* | *1751.2* | *1755.4* | *1760.4* | *1744.1* | *1727.7* | *1680.8* | *1633.9* |
| 67.5° | 1511.8 | 1506.1 | 1511.8 | 1528.1 | 1545.1 | 1555.1 | 1564.3 | 1545.9 | 1527.4 | 1495.4 | 1463.5 |
| 70° | 1280.2 | 1236.1 | 1280.2 | 1318.5 | 1356.9 | 1371.1 | 1385.3 | 1375.4 | 1365.4 | 1339.8 | 1314.3 |
| 72.5° | 1083.4 | 1037.2 | 1083.4 | 1128.8 | 1173.6 | 1196.3 | 1218.4 | 1212.0 | 1206.3 | 1182.1 | 1158.0 |
| 75° | 884.5 | 852.5 | 884.5 | 931.4 | 978.9 | 1009.5 | 1040.8 | 1030.1 | 1019.4 | 994.6 | 969.7 |
| 77.5° | 704.7 | 689.1 | 704.7 | 733.1 | 761.6 | 788.6 | 815.6 | 811.3 | 808.4 | 787.8 | 767.2 |
| 80° | 515.0 | 504.4 | 515.0 | 529.3 | 543.5 | 564.1 | 584.0 | 584.0 | 584.0 | 567.6 | 550.6 |
| 82.5° | 309.0 | 298.4 | 309.0 | 325.4 | 341.0 | 349.5 | 358.8 | 352.4 | 346.7 | 329.6 | 312.6 |
| 85° | 124.3 | 120.8 | 124.3 | 129.3 | 135.0 | 136.4 | 138.5 | 134.3 | 129.3 | 130.7 | 131.4 |
| 87.5° | 36.9 | 35.5 | 36.9 | 39.8 | 42.6 | 46.9 | 51.1 | 56.8 | 62.5 | 64.6 | 67.5 |
| 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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Scaled Data Report

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**CANDELA DISTRIBUTION (continued):**

| | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 |
| 2.5° | 4375.4 | 4406.0 | 4432.3 | 4457.8 | 4487.0 | 4516.8 | 4554.5 | 4592.8 | 4628.3 | 4668.8 | 4709.3 |
| 5° | 4173.0 | 4214.2 | 4261.1 | 4306.5 | 4361.9 | 4417.3 | 4484.1 | 4552.3 | 4621.2 | 4701.5 | 4778.2 |
| 7.5° | 4062.1 | 4113.3 | 4174.4 | 4235.5 | 4307.9 | 4379.7 | 4462.1 | 4545.2 | 4628.3 | 4734.9 | 4837.2 |
| 10° | 4031.6 | 4099.1 | 4163.7 | 4228.4 | 4302.3 | 4376.1 | 4462.8 | 4550.2 | 4639.0 | 4752.7 | 4869.9 |
| 12.5° | 4112.6 | 4192.9 | 4252.5 | 4312.2 | 4363.4 | 4415.2 | 4487.0 | 4559.4 | 4646.1 | 4770.4 | 4899.0 |
| 15° | 4322.9 | 4397.5 | 4418.1 | 4438.7 | 4442.9 | 4447.2 | 4494.1 | 4541.0 | 4617.7 | 4756.2 | 4901.8 |
| 17.5° | 4602.8 | 4654.6 | 4614.1 | 4573.6 | 4503.3 | 4433.0 | 4439.4 | 4445.8 | 4511.1 | 4673.1 | 4842.2 |
| 20° | 4825.1 | 4830.8 | 4721.4 | 4612.0 | 4474.9 | 4337.1 | 4297.3 | 4256.8 | 4298.0 | 4512.5 | 4735.6 |
| 22.5° | 4872.7 | 4832.2 | 4674.5 | 4516.8 | 4337.1 | 4157.3 | 4098.4 | 4038.7 | 4077.8 | 4333.5 | 4613.4 |
| 25° | 4698.7 | 4623.4 | 4453.6 | 4283.8 | 4117.6 | 3951.3 | 3886.7 | 3822.0 | 3825.6 | 4119.0 | 4467.8 |
| 27.5° | 4348.4 | 4263.9 | 4127.5 | 3991.1 | 3867.5 | 3743.9 | 3681.4 | 3619.6 | 3601.8 | 3901.6 | 4318.6 |
| 30° | 3967.7 | 3900.2 | 3807.8 | 3715.5 | 3625.9 | 3536.4 | 3488.1 | 3439.8 | 3420.6 | 3711.9 | 4188.6 |
| 32.5° | 3621.7 | 3584.0 | 3515.8 | 3446.9 | 3388.7 | 3330.4 | 3309.8 | 3289.2 | 3289.2 | 3557.7 | 4074.9 |
| 35° | 3349.6 | 3321.2 | 3265.1 | 3209.6 | 3171.3 | 3132.9 | 3150.0 | 3167.0 | 3211.1 | 3418.5 | 3945.6 |
| 37.5° | 3113.0 | 3072.5 | 3025.6 | 2978.1 | 2961.0 | 2942.5 | 2989.4 | 3034.9 | 3118.7 | 3282.1 | 3802.1 |
| 40° | 2894.2 | 2843.1 | 2798.3 | 2752.8 | 2755.0 | 2756.4 | 2824.6 | 2892.8 | 2997.9 | 3127.2 | 3630.9 |
| 42.5° | 2688.2 | 2634.2 | 2589.5 | 2544.7 | 2553.9 | 2563.2 | 2649.8 | 2736.5 | 2866.5 | 2956.7 | 3427.0 |
| 45° | 2508.5 | 2449.5 | 2409.7 | 2371.4 | 2385.6 | 2399.8 | 2487.9 | 2577.4 | 2706.7 | 2788.4 | 3219.6 |
| 47.5° | 2374.2 | 2308.8 | 2267.6 | 2227.1 | 2236.4 | 2244.9 | 2321.6 | 2397.6 | 2518.4 | 2612.9 | 3013.6 |
| 50° | 2253.4 | 2202.3 | 2158.2 | 2113.5 | 2102.8 | 2092.2 | 2155.4 | 2217.9 | 2337.3 | 2466.6 | 2830.3 |
| 52.5° | 2177.4 | 2124.1 | 2082.9 | 2042.4 | 2009.8 | 1976.4 | 2024.0 | 2070.9 | 2198.7 | 2364.3 | 2665.5 |
| 55° | 2117.0 | 2067.3 | 2018.3 | 1969.3 | 1922.4 | 1875.5 | 1928.1 | 1980.6 | 2131.2 | 2296.1 | 2527.6 |
| 57.5° | 2031.8 | 1982.1 | 1928.8 | 1875.5 | 1828.6 | 1781.7 | 1854.9 | 1928.8 | 2113.5 | 2252.0 | 2411.1 |
| 60° | 1923.8 | 1871.9 | 1817.9 | 1763.2 | 1732.7 | 1701.4 | 1793.8 | 1886.1 | 2070.9 | 2179.5 | 2291.1 |
| 62.5° | 1765.4 | 1722.8 | 1661.7 | 1599.8 | 1597.0 | 1592.7 | 1713.5 | 1834.3 | 2010.5 | 2056.6 | 2118.5 |
| 65° | *1599.8* | *1566.5* | *1507.5* | *1449.2* | *1463.5* | *1477.7* | *1607.0* | *1737.0* | *1882.6* | *1895.4* | *1908.2* |
| 67.5° | 1435.7 | 1408.0 | 1354.0 | 1300.1 | 1329.2 | 1358.3 | 1473.4 | 1587.8 | 1687.2 | 1668.0 | 1630.4 |
| 70° | 1290.1 | 1266.0 | 1221.9 | 1177.9 | 1196.3 | 1214.8 | 1283.0 | 1351.2 | 1399.5 | 1405.2 | 1349.1 |
| 72.5° | 1137.4 | 1116.8 | 1083.4 | 1050.0 | 1062.8 | 1076.3 | 1091.2 | 1106.8 | 1076.3 | 1133.1 | 1090.5 |
| 75° | 953.4 | 937.7 | 912.2 | 886.6 | 895.8 | 905.8 | 913.6 | 922.1 | 902.2 | 879.5 | 828.3 |
| 77.5° | 752.3 | 737.4 | 714.0 | 690.5 | 701.9 | 711.8 | 731.0 | 749.5 | 745.9 | 680.6 | 625.2 |
| 80° | 545.6 | 539.9 | 522.9 | 505.8 | 514.3 | 522.2 | 545.6 | 568.3 | 571.9 | 479.5 | 422.0 |
| 82.5° | 319.7 | 326.8 | 330.3 | 333.9 | 339.6 | 344.6 | 344.6 | 344.6 | 330.3 | 278.5 | 250.1 |
| 85° | 134.3 | 136.4 | 147.8 | 157.7 | 166.2 | 174.1 | 173.3 | 171.9 | 163.4 | 135.0 | 116.5 |
| 87.5° | 70.3 | 72.5 | 69.6 | 65.4 | 62.5 | 58.3 | 54.0 | 49.7 | 42.6 | 39.1 | 35.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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: P1364901
CATALOG NUMBER: GSS-SB4C-740-U-SLL

**CANDELA DISTRIBUTION (continued):**

| | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|---|---|---|---|---|---|---|---|
| 0° | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 | 4631.9 |
| 2.5° | 4749.1 | 4791.0 | 4832.2 | 4873.4 | 4914.6 | 4959.4 | 5004.9 |
| 5° | 4855.7 | 4937.4 | 5019.1 | 5102.2 | 5186.0 | 5265.6 | 5345.9 |
| 7.5° | 4938.8 | 5052.5 | 5166.1 | 5293.3 | 5420.4 | 5555.4 | 5690.4 |
| 10° | 4987.1 | 5127.8 | 5267.7 | 5426.1 | 5583.8 | 5745.8 | 5907.1 |
| 12.5° | 5028.3 | 5185.3 | 5342.3 | 5519.2 | 5696.1 | 5856.6 | 6017.2 |
| 15° | 5047.5 | 5217.3 | 5386.3 | 5566.1 | 5745.8 | 5907.8 | 6070.5 |
| 17.5° | 5012.0 | 5204.5 | 5397.7 | 5589.5 | 5781.3 | 5932.7 | 6084.7 |
| 20° | 4958.7 | 5185.3 | 5411.9 | 5617.9 | 5824.0 | 5977.4 | 6130.9 |
| 22.5° | 4893.3 | 5170.4 | 5447.4 | 5673.4 | 5900.0 | 6039.9 | 6180.6 |
| 25° | 4816.6 | 5169.0 | 5521.3 | 5768.6 | 6015.8 | 6137.3 | 6258.7 |
| 27.5° | 4734.9 | 5182.5 | 5630.0 | 5907.8 | 6186.3 | 6279.3 | 6372.4 |
| 30° | 4666.0 | 5211.6 | 5757.9 | 6072.6 | 6386.6 | 6459.1 | 6532.2 |
| 32.5° | 4592.8 | 5244.3 | 5896.4 | 6266.6 | 6636.7 | 6682.1 | 6727.6 |
| 35° | 4472.0 | 5236.5 | 6001.6 | 6472.6 | 6944.3 | 7001.1 | 7058.0 |
| 37.5° | 4322.9 | 5214.4 | 6106.0 | 6724.1 | 7342.1 | 7409.6 | 7477.1 |
| 40° | 4134.6 | 5164.7 | 6194.8 | 7011.8 | 7828.7 | 7962.3 | 8095.2 |
| 42.5° | 3896.6 | 5078.7 | 6260.2 | 7330.0 | 8398.5 | 8680.5 | 8961.9 |
| 45° | 3651.5 | 5019.8 | 6388.0 | 7762.0 | 9135.9 | 9587.0 | 10038.1 |
| 47.5° | 3415.7 | 4950.9 | 6486.1 | 8206.0 | 9925.9 | 10497.1 | 11068.2 |
| 50° | 3193.3 | 4833.6 | 6473.3 | 8593.2 | 10713.0 | 11487.4 | 12261.7 |
| 52.5° | 2968.1 | 4593.5 | 6219.7 | 8776.4 | 11332.5 | 12562.9 | 13792.7 |
| 55° | 2757.8 | 4275.3 | 5791.3 | 8728.1 | 11665.0 | 13643.5 | 15622.0 |
| 57.5° | 2570.3 | 3942.1 | 5313.9 | 8464.6 | 11615.2 | 14550.7 | 17486.8 |
| 60° | 2402.6 | 3520.8 | 4639.0 | 7833.0 | 11027.0 | 14957.0 | 18886.3 |
| 62.5° | 2181.0 | 2986.6 | 3792.2 | 6797.9 | 9803.7 | 14055.5 | 18307.3 |
| 65° | *1921.7* | *2347.2* | *2772.0* | *5332.4* | *7892.7* | *12123.2* | *16353.7* |
| 67.5° | 1592.7 | 1794.5 | 1996.3 | 4149.5 | 6302.8 | 10411.8 | 14520.8 |
| 70° | 1293.0 | 1364.0 | 1435.0 | 3179.8 | 4924.6 | 8845.3 | 12766.1 |
| 72.5° | 1047.9 | 1048.6 | 1050.0 | 2390.5 | 3731.1 | 7345.0 | 10958.1 |
| 75° | 777.9 | 782.2 | 787.1 | 1771.8 | 2756.4 | 5864.5 | 8972.5 |
| 77.5° | 569.8 | 566.9 | 562.6 | 1145.2 | 1727.7 | 3847.6 | 5967.5 |
| 80° | 363.7 | 360.9 | 356.6 | 633.0 | 909.3 | 2205.8 | 3502.3 |
| 82.5° | 221.6 | 220.9 | 220.2 | 340.3 | 460.3 | 1105.4 | 1751.2 |
| 85° | 98.0 | 93.1 | 88.8 | 108.0 | 127.9 | 262.9 | 397.8 |
| 87.5° | 32.0 | 29.8 | 28.4 | 29.1 | 29.8 | 31.3 | 32.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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: SP1-2407-184-1

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-740-U-5WQ

Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

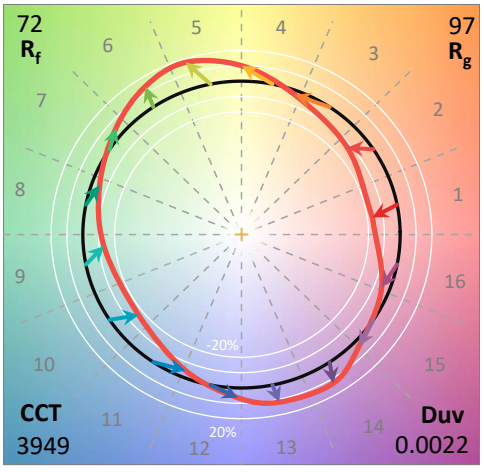
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2407-184-1 |
| Test Lab: | COOPER LIGHTING SOLUTIONS |
| Photometer: | SP1 - 76IN SPHERE |
| Measurement Geometry: | 4π |
| Issue Date: | 10/15/2024 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | McGraw-Edison |
| Catalog Number: | **GSS-SB1A-740-U-5WQ** |
| Description: | GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 4000K CCT 26 LEDS |

## Spectral Parameters

| | | | | | |
|---|---|---|---|---|---|
| CCT (K): | 3949 | CRI (Ra): | 70.7 | | |
| CIE u': | 0.2248 | R1: | 68.0 | R9: | -36.7 |
| CIE v': | 0.5053 | R2: | 76.0 | R10: | 45.1 |
| Duv: | 0.0022 | R3: | 84.3 | R11: | 70.7 |
| CIE x: | 0.3844 | R4: | 72.0 | R12: | 47.1 |
| CIE y: | 0.3840 | R5: | 68.6 | R13: | 68.5 |
| CIE z: | 0.2316 | R6: | 68.3 | R14: | 91.1 |
| Peak Wavelength (nm): | 440 | R7: | 77.9 | R15: | 58.7 |
| Dominant Wavelength (nm): | 578 | R8: | 50.3 | | |
| Purity: | 30.60026 | | | | |
| Rf: | 71.8 | | | | |
| Rg: | 96.5 | | | | |




## Test Conditions

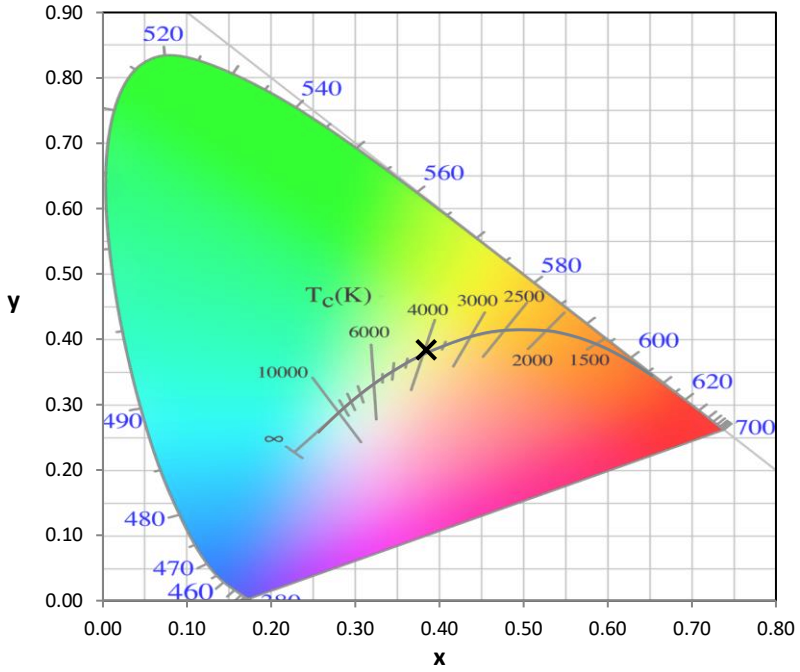
| | |
|---|---|
| Stabilization Time: | 34M |
| Operation Time: | 1H 34M |
| Sphere Temperature (°C): | 25.2 |

REPORT NUMBER: SP1-2407-184-1

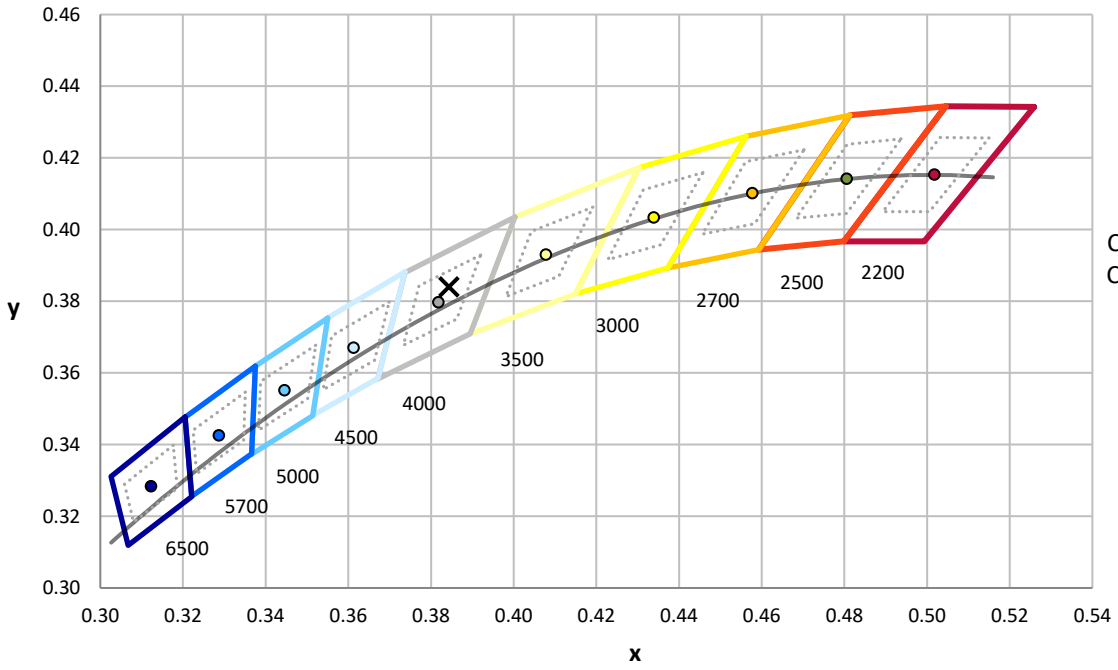
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC Power Source | IN0208 | 10/24/2023 | 10/24/2024 |
| Sphere Thermometer | IN0085 | 10/24/2023 | 10/24/2024 |
| Room Thermometer | IN0046 | 10/24/2023 | 10/24/2024 |

REPORT NUMBER: SP1-2407-184-1

## CIE 1931 Chromaticity Diagram




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

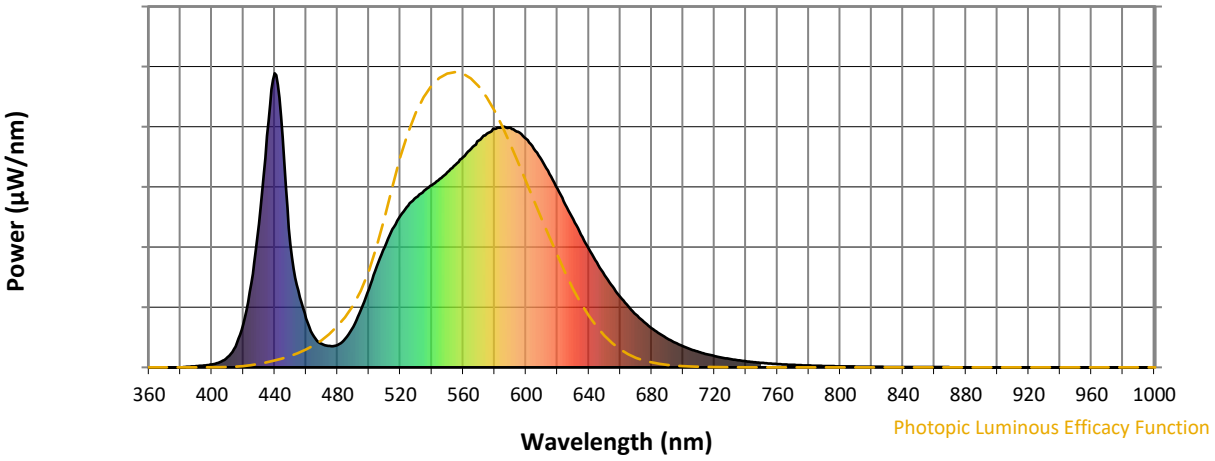



CCT = 3949K
CIE x = 0.3844
CIE y = 0.3840
Duv = 0.0022

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-1

## Photopic Flux vs. Wavelength

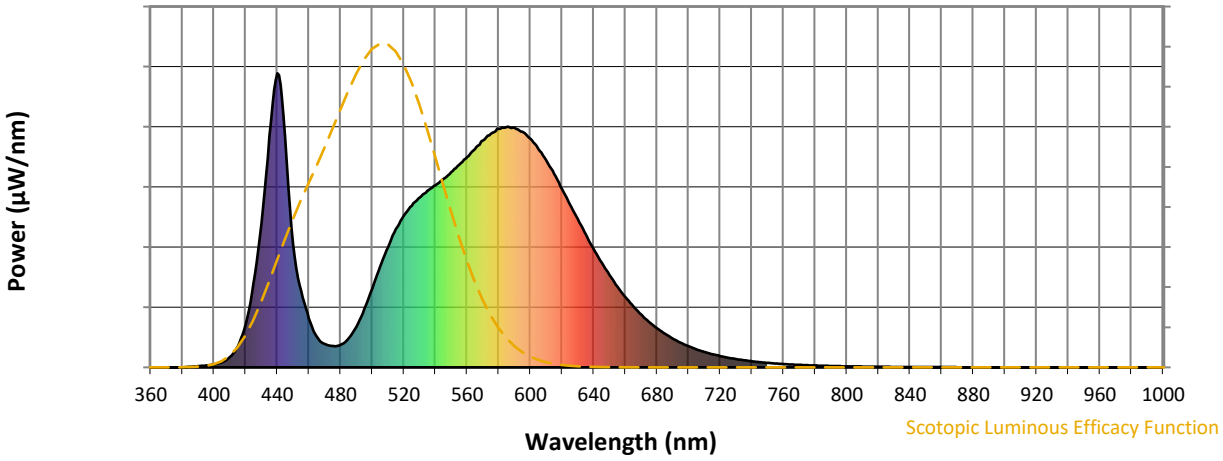



## Photopic Lumens: NR

| 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 | 139 | NR | 620 | 607 | NR | 750 | 15 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 198 | NR | 625 | 554 | NR | 755 | 13 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 267 | NR | 630 | 504 | NR | 760 | 11 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 343 | NR | 635 | 452 | NR | 765 | 10 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 410 | NR | 640 | 403 | NR | 770 | 8 | NR | 900 | 0 | NR |
| 385 | 2 | NR | 515 | 470 | NR | 645 | 357 | NR | 775 | 7 | NR | 905 | 0 | NR |
| 390 | 4 | NR | 520 | 516 | NR | 650 | 314 | NR | 780 | 6 | NR | 910 | 0 | NR |
| 395 | 7 | NR | 525 | 550 | NR | 655 | 275 | NR | 785 | 5 | NR | 915 | 0 | NR |
| 400 | 10 | NR | 530 | 578 | NR | 660 | 240 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 17 | NR | 535 | 601 | NR | 665 | 208 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 35 | NR | 540 | 620 | NR | 670 | 179 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 70 | NR | 545 | 641 | NR | 675 | 155 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 147 | NR | 550 | 664 | NR | 680 | 133 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 285 | NR | 555 | 689 | NR | 685 | 114 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 487 | NR | 560 | 715 | NR | 690 | 98 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 787 | NR | 565 | 743 | NR | 695 | 84 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 1000 | NR | 570 | 771 | NR | 700 | 72 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 783 | NR | 575 | 794 | NR | 705 | 61 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 417 | NR | 580 | 811 | NR | 710 | 52 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 261 | NR | 585 | 817 | NR | 715 | 45 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 167 | NR | 590 | 815 | NR | 720 | 39 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 104 | NR | 595 | 801 | NR | 725 | 33 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 79 | NR | 600 | 777 | NR | 730 | 28 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 73 | NR | 605 | 744 | NR | 735 | 24 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 76 | NR | 610 | 704 | NR | 740 | 21 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 98 | NR | 615 | 657 | NR | 745 | 18 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2407-184-1

## Scotopic Flux vs. Wavelength

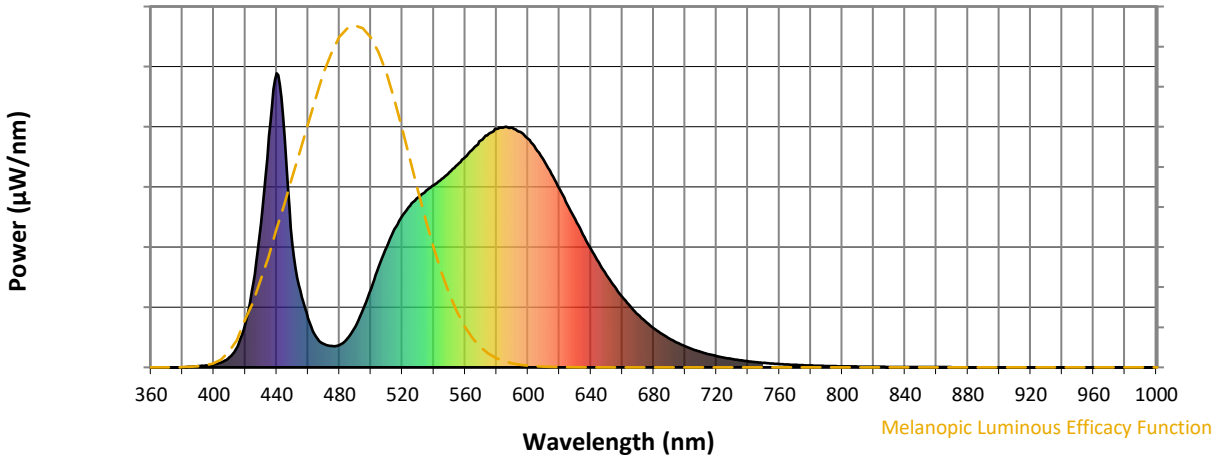



**Scotopic Lumens: NR** **S/P: 1.47**

| 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 | 139 | NR | 620 | 607 | NR | 750 | 15 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 198 | NR | 625 | 554 | NR | 755 | 13 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 267 | NR | 630 | 504 | NR | 760 | 11 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 343 | NR | 635 | 452 | NR | 765 | 10 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 410 | NR | 640 | 403 | NR | 770 | 8 | NR | 900 | 0 | NR |
| 385 | 2 | NR | 515 | 470 | NR | 645 | 357 | NR | 775 | 7 | NR | 905 | 0 | NR |
| 390 | 4 | NR | 520 | 516 | NR | 650 | 314 | NR | 780 | 6 | NR | 910 | 0 | NR |
| 395 | 7 | NR | 525 | 550 | NR | 655 | 275 | NR | 785 | 5 | NR | 915 | 0 | NR |
| 400 | 10 | NR | 530 | 578 | NR | 660 | 240 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 17 | NR | 535 | 601 | NR | 665 | 208 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 35 | NR | 540 | 620 | NR | 670 | 179 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 70 | NR | 545 | 641 | NR | 675 | 155 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 147 | NR | 550 | 664 | NR | 680 | 133 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 285 | NR | 555 | 689 | NR | 685 | 114 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 487 | NR | 560 | 715 | NR | 690 | 98 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 787 | NR | 565 | 743 | NR | 695 | 84 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 1000 | NR | 570 | 771 | NR | 700 | 72 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 783 | NR | 575 | 794 | NR | 705 | 61 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 417 | NR | 580 | 811 | NR | 710 | 52 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 261 | NR | 585 | 817 | NR | 715 | 45 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 167 | NR | 590 | 815 | NR | 720 | 39 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 104 | NR | 595 | 801 | NR | 725 | 33 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 79 | NR | 600 | 777 | NR | 730 | 28 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 73 | NR | 605 | 744 | NR | 735 | 24 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 76 | NR | 610 | 704 | NR | 740 | 21 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 98 | NR | 615 | 657 | NR | 745 | 18 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2407-184-1

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 2.78**

| 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 | 139 | NR | 620 | 607 | NR | 750 | 15 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 198 | NR | 625 | 554 | NR | 755 | 13 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 267 | NR | 630 | 504 | NR | 760 | 11 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 343 | NR | 635 | 452 | NR | 765 | 10 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 410 | NR | 640 | 403 | NR | 770 | 8 | NR | 900 | 0 | NR |
| 385 | 2 | NR | 515 | 470 | NR | 645 | 357 | NR | 775 | 7 | NR | 905 | 0 | NR |
| 390 | 4 | NR | 520 | 516 | NR | 650 | 314 | NR | 780 | 6 | NR | 910 | 0 | NR |
| 395 | 7 | NR | 525 | 550 | NR | 655 | 275 | NR | 785 | 5 | NR | 915 | 0 | NR |
| 400 | 10 | NR | 530 | 578 | NR | 660 | 240 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 17 | NR | 535 | 601 | NR | 665 | 208 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 35 | NR | 540 | 620 | NR | 670 | 179 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 70 | NR | 545 | 641 | NR | 675 | 155 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 147 | NR | 550 | 664 | NR | 680 | 133 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 285 | NR | 555 | 689 | NR | 685 | 114 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 487 | NR | 560 | 715 | NR | 690 | 98 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 787 | NR | 565 | 743 | NR | 695 | 84 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 1000 | NR | 570 | 771 | NR | 700 | 72 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 783 | NR | 575 | 794 | NR | 705 | 61 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 417 | NR | 580 | 811 | NR | 710 | 52 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 261 | NR | 585 | 817 | NR | 715 | 45 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 167 | NR | 590 | 815 | NR | 720 | 39 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 104 | NR | 595 | 801 | NR | 725 | 33 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 79 | NR | 600 | 777 | NR | 730 | 28 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 73 | NR | 605 | 744 | NR | 735 | 24 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 76 | NR | 610 | 704 | NR | 740 | 21 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 98 | NR | 615 | 657 | NR | 745 | 18 | NR | 875 | 1 | NR | | | |

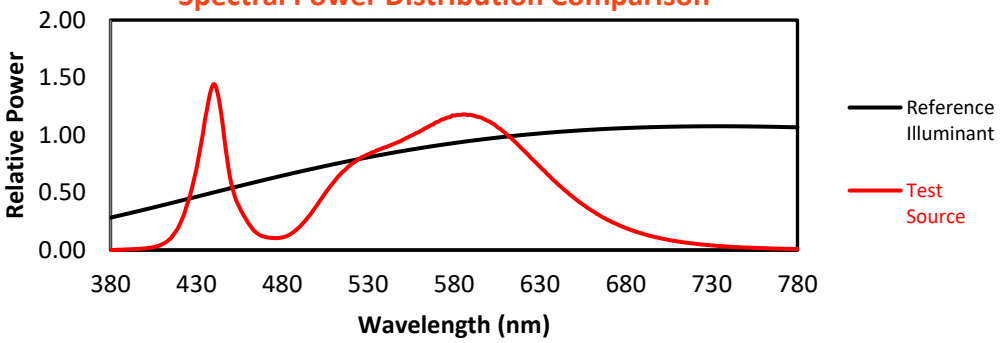
REPORT NUMBER: SP1-2407-184-1

# TM-30-18

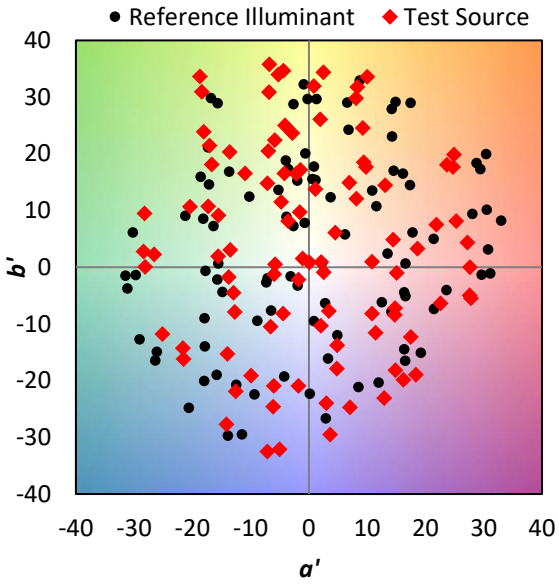
## Summary

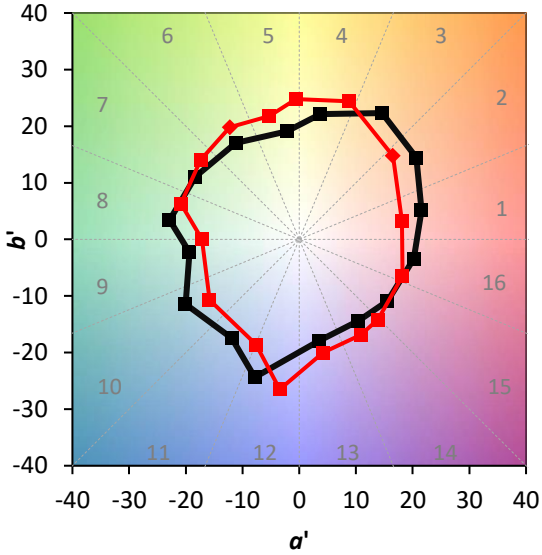
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$R_g$ = 96.5
CIE $R_a$ = 70.7
$R_9$ = -36.7

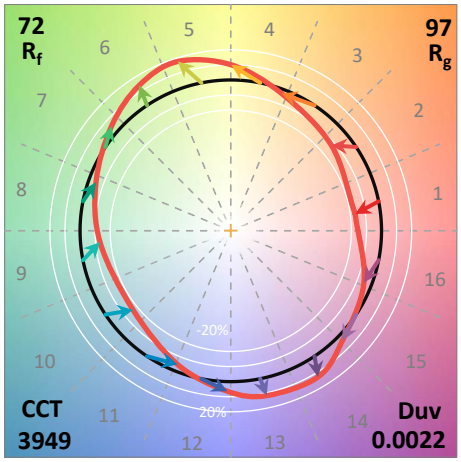
## Spectral Power Distribution Comparison

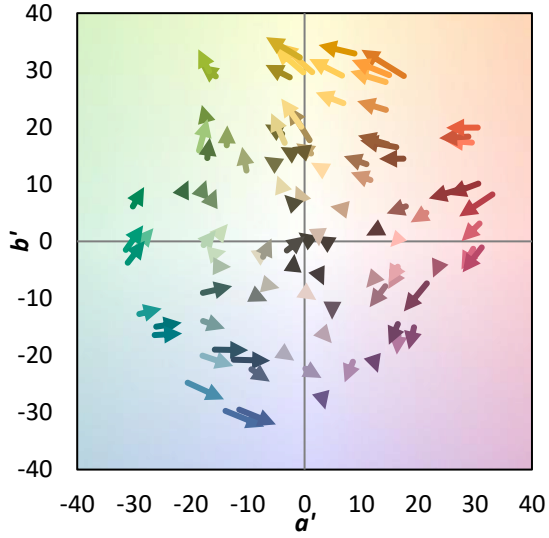



## Color Vector Graphics



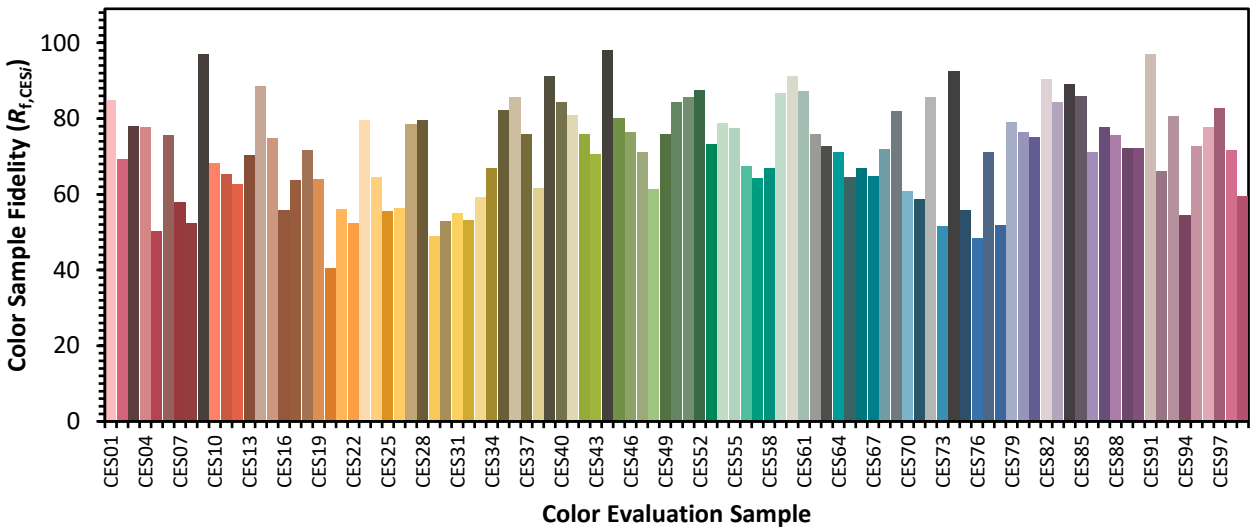



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**Individual Sample Fidelity Index ($R_{f,i}$)**

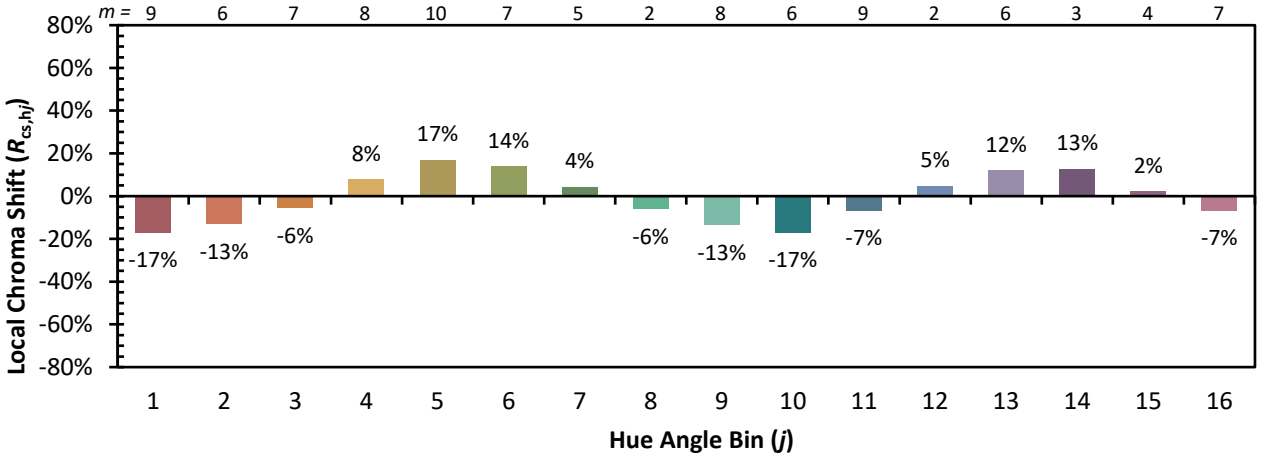
| | | | |
|---|---|---|---|
| CES01 = 85 | CES26 = 56 | CES51 = 86 | CES76 = 48 |
| CES02 = 61 | CES27 = 79 | CES52 = 88 | CES77 = 71 |
| CES03 = 30 | CES28 = 80 | CES53 = 73 | CES78 = 52 |
| CES04 = 70 | CES29 = 49 | CES54 = 79 | CES79 = 79 |
| CES05 = 47 | CES30 = 53 | CES55 = 77 | CES80 = 77 |
| CES06 = 50 | CES31 = 55 | CES56 = 67 | CES81 = 75 |
| CES07 = 40 | CES32 = 53 | CES57 = 64 | CES82 = 90 |
| CES08 = 39 | CES33 = 59 | CES58 = 67 | CES83 = 84 |
| CES09 = 29 | CES34 = 67 | CES59 = 87 | CES84 = 89 |
| CES10 = 74 | CES35 = 82 | CES60 = 91 | CES85 = 86 |
| CES11 = 57 | CES36 = 86 | CES61 = 87 | CES86 = 71 |
| CES12 = 63 | CES37 = 76 | CES62 = 76 | CES87 = 78 |
| CES13 = 42 | CES38 = 62 | CES63 = 73 | CES88 = 76 |
| CES14 = 74 | CES39 = 91 | CES64 = 71 | CES89 = 72 |
| CES15 = 71 | CES40 = 84 | CES65 = 64 | CES90 = 72 |
| CES16 = 46 | CES41 = 81 | CES66 = 67 | CES91 = 97 |
| CES17 = 49 | CES42 = 76 | CES67 = 65 | CES92 = 66 |
| CES18 = 56 | CES43 = 71 | CES68 = 72 | CES93 = 81 |
| CES19 = 72 | CES44 = 98 | CES69 = 82 | CES94 = 55 |
| CES20 = 65 | CES45 = 80 | CES70 = 61 | CES95 = 73 |
| CES21 = 86 | CES46 = 76 | CES71 = 59 | CES96 = 78 |
| CES22 = 78 | CES47 = 71 | CES72 = 86 | CES97 = 83 |
| CES23 = 92 | CES48 = 61 | CES73 = 52 | CES98 = 72 |
| CES24 = 91 | CES49 = 76 | CES74 = 93 | CES99 = 60 |
| CES25 = 72 | CES50 = 84 | CES75 = 56 | |

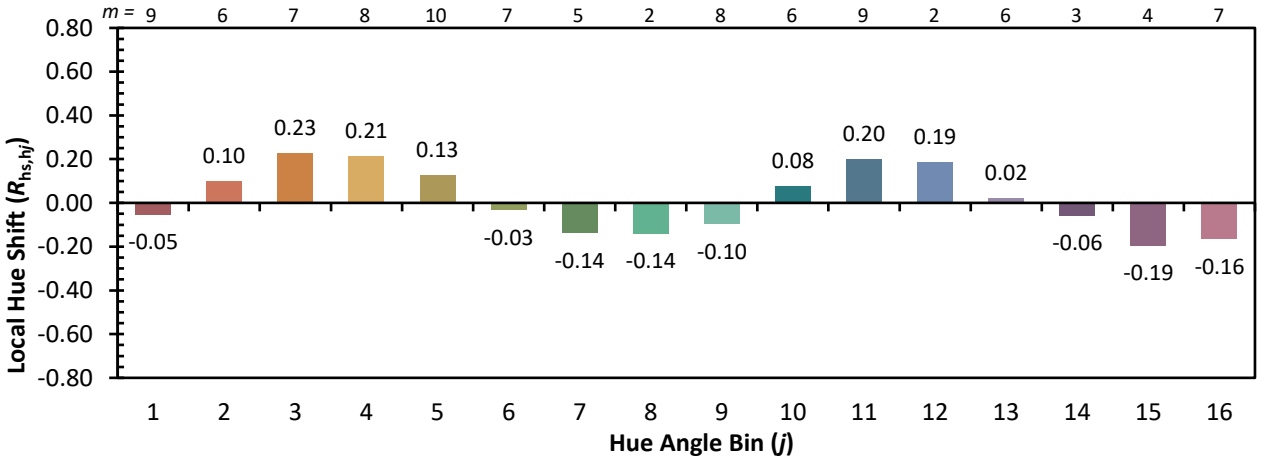


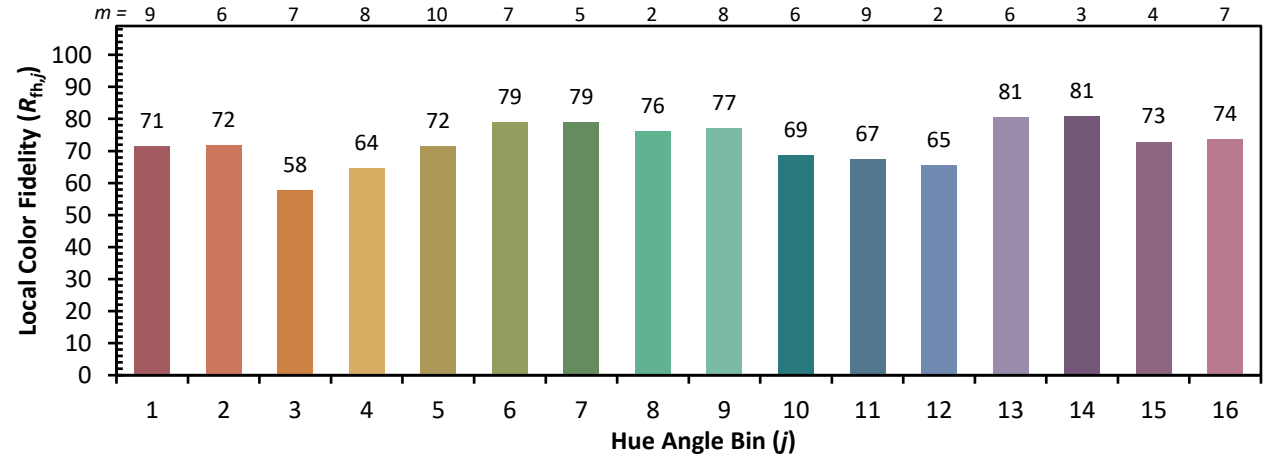
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## Color Rendition by Hue-Angle Bin



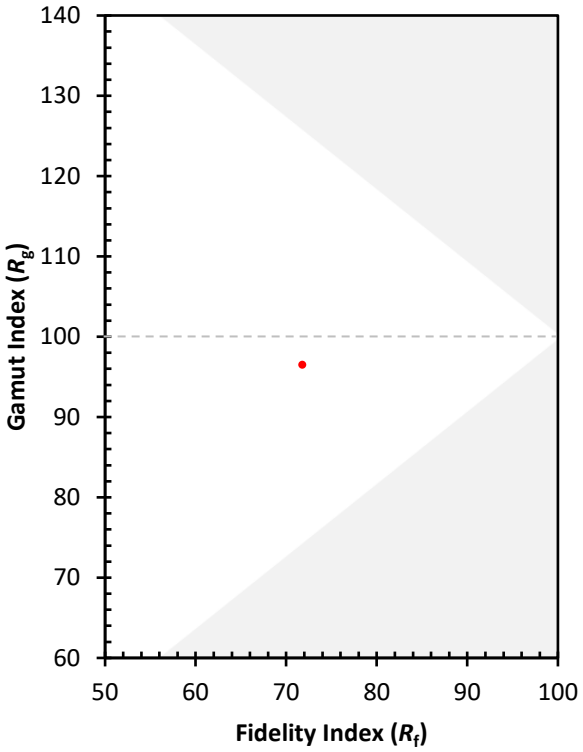



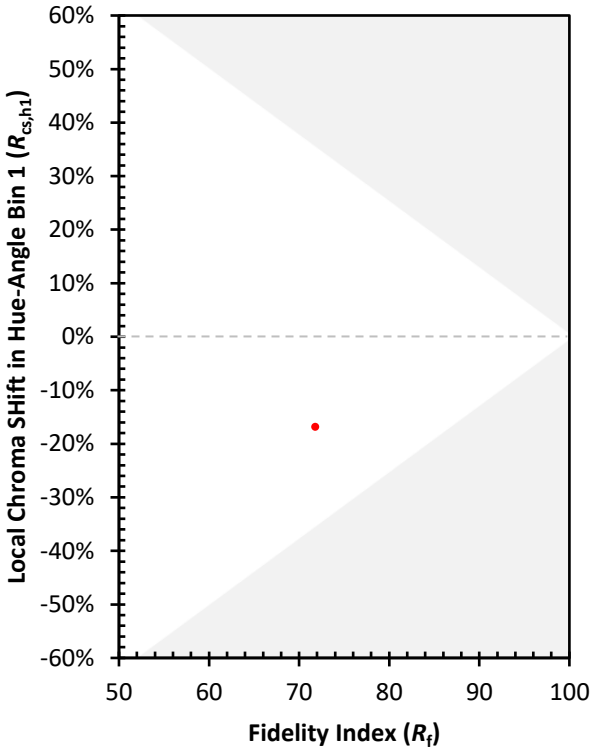



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## Measure Comparisons




(END OF REPORT)