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: P1365090

Luminaire Tested: **GSS-SB3D-830-U-SLL**

Issue Date: 02/18/2026

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

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: | P1365090 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 02/18/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB3D-830-U-SLL |
| Description: | GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 3SQUARE 219W 80CRI 3000K FIXTURE w/ 90° Spill Light Eliminator LEFT OPTIC |
| Light Source: | (78) 3000K CCT, 80 CRI LEDS |
| Ballast/Driver: | ELECTRONIC DRIVER |

Luminaire Equipment:

| Sample No. | Condition | Description |
|---|---|---|
| a | good | reflector |
| b | good | lens |
| c | good | housing |
| d | good | cord |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 24383 lumens |
| Efficiency: | N/A |
| Efficacy: | 111.3 lumens/watt |
| Luminous Opening: | Rectangular (W 1.5' x L: 0.5' x H: 0') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B3 - U0 - G4 |

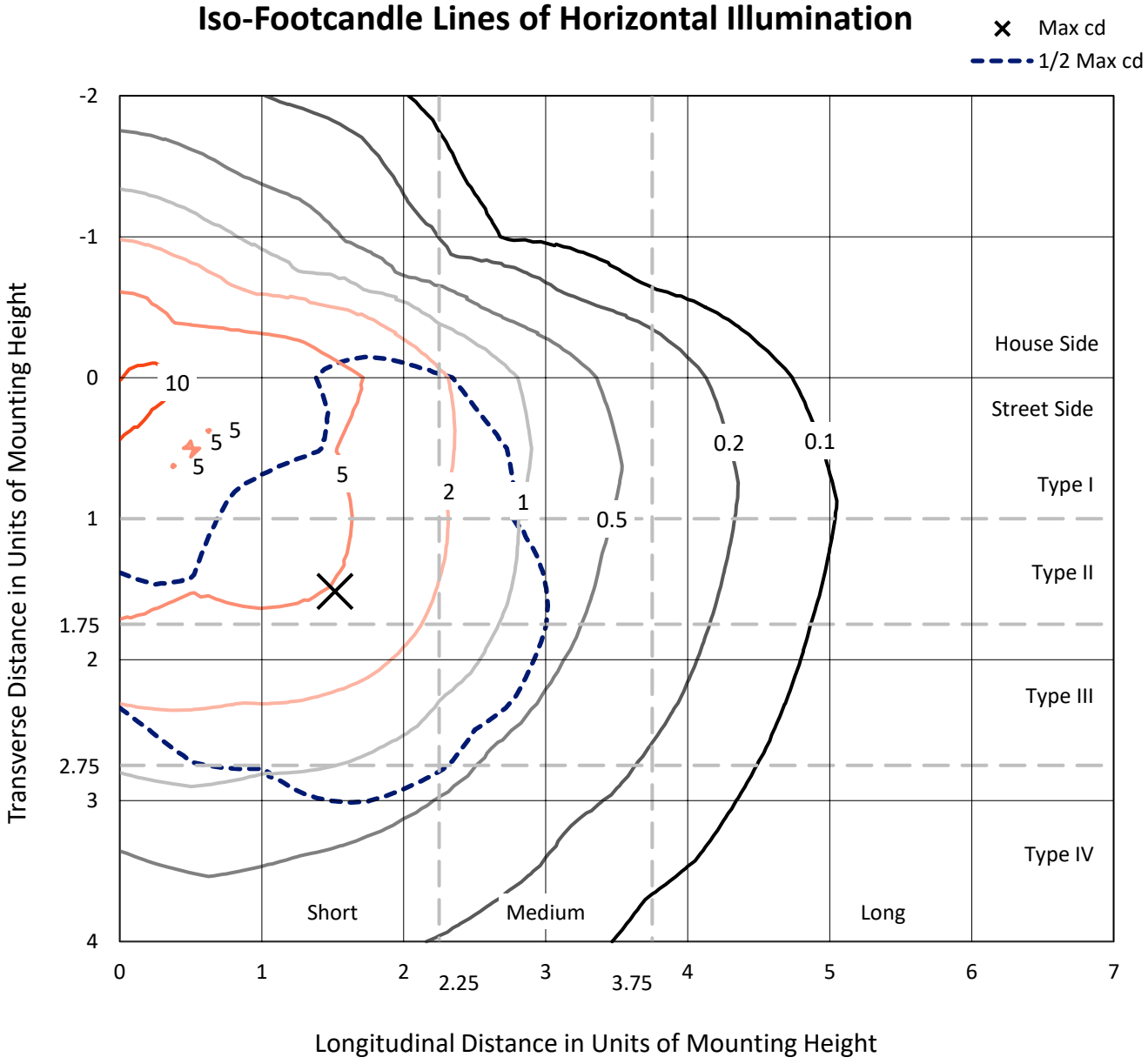
| | |
|---|---|
| Input Watts (W): | 219 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | 2.5% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

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## Iso-Footcandle Lines of Horizontal Illumination



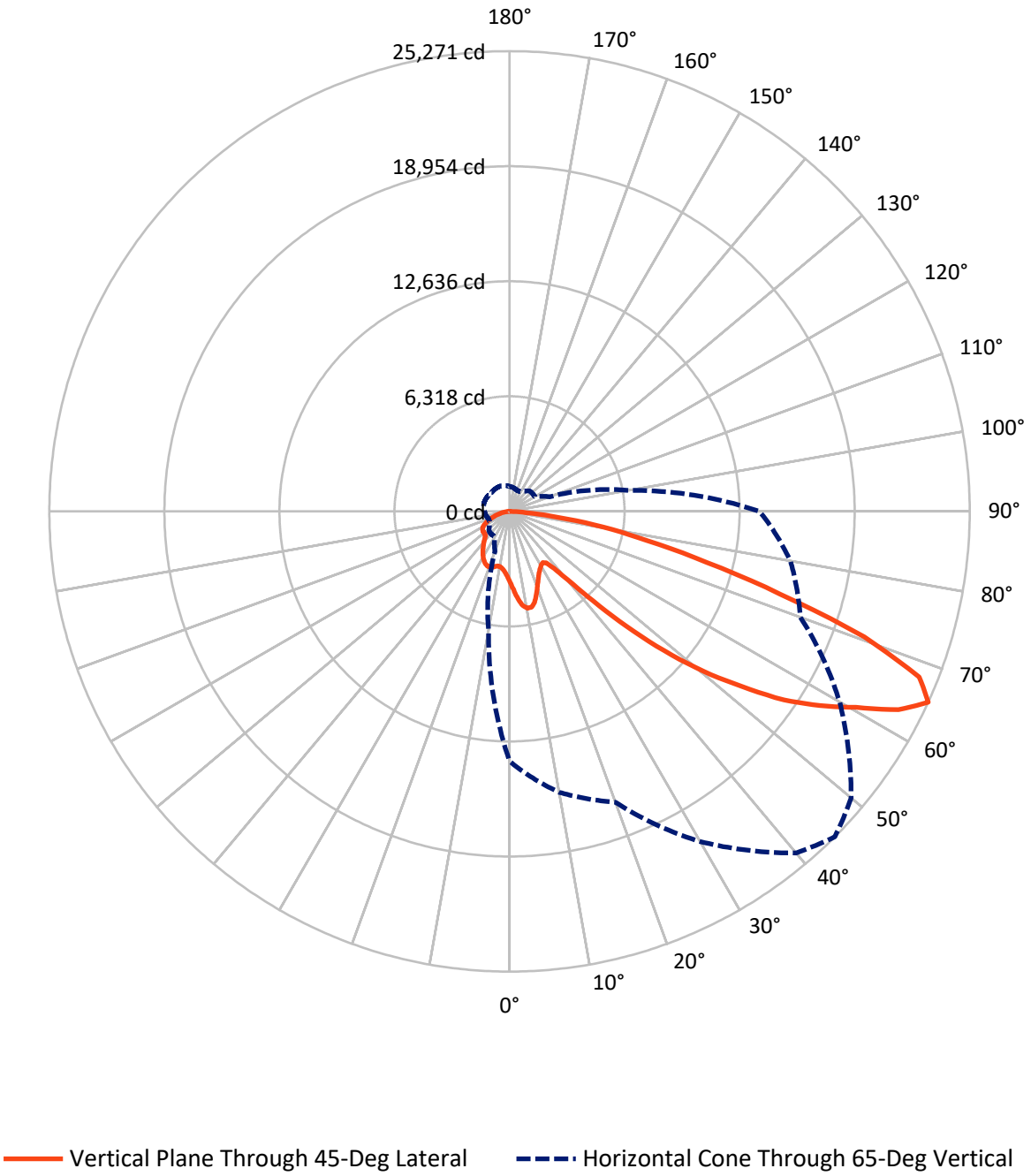

Based on 20 foot mounting height. Maximum calculated value = 12.9 fc
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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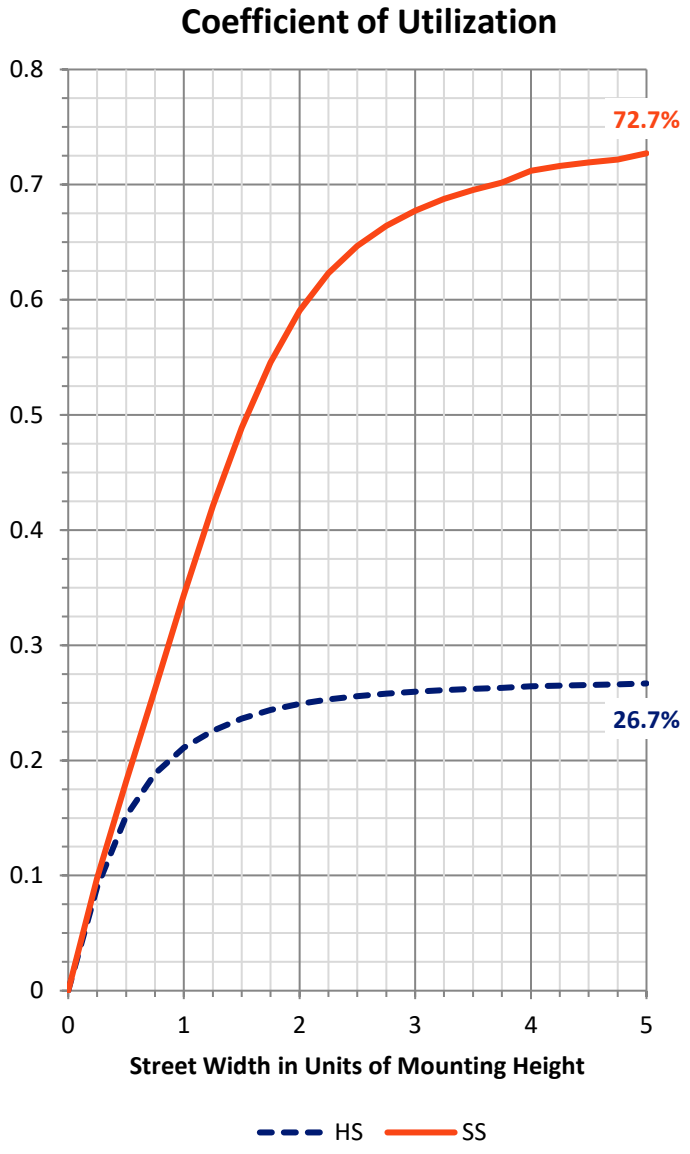
REPORT NUMBER: P1365090
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**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 6559.5 | 0.0 | 6559.5 |
| | % Fixture | 26.9 | 0.0 | 26.9 |
| **Street Side** | Lumens | 17823.4 | 0.0 | 17823.4 |
| | % Fixture | 73.1 | 0.0 | 73.1 |
| **Total** | Lumens | 24383.0 | 0.0 | 24383.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 383.9 | 1.6 |
| 10°-20° | 1176.4 | 4.8 |
| 20°-30° | 1820.8 | 7.5 |
| 30°-40° | 2259.0 | 9.3 |
| 40°-50° | 3303.3 | 13.5 |
| 50°-60° | 5174.3 | 21.2 |
| 60°-70° | 6139.6 | 25.2 |
| 70°-80° | 3580.9 | 14.7 |
| 80°-90° | 544.8 | 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° | 24383.0 | 100.0 |
| 0°-180° | 24383.0 | 100.0 |



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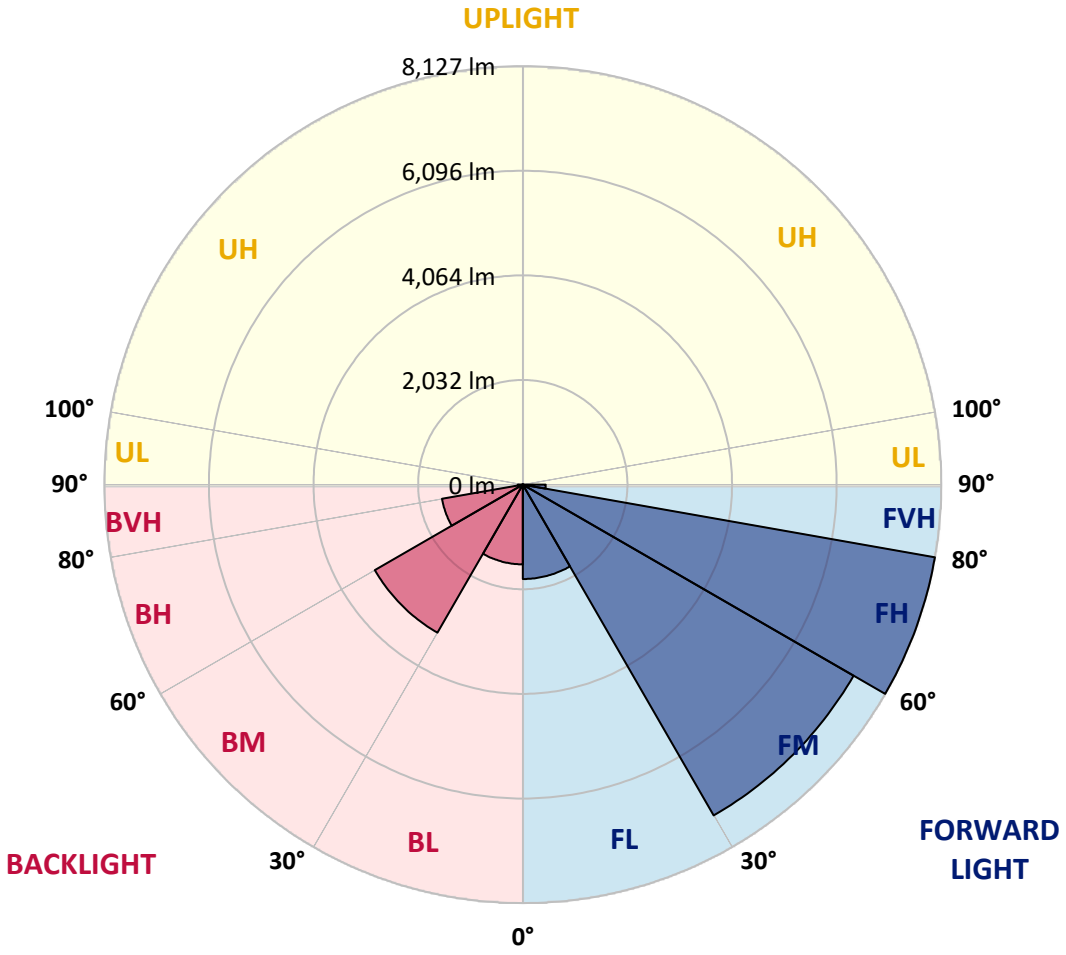
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## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 1832.6 | 7.5 | | | |
| FM | (30°-60°) | 7417.8 | 30.4 | | | |
| FH | (60°-80°) | 8127.5 | 33.3 | | | G4/12000 |
| FVH | (80°-90°) | 445.5 | 1.8 | | | G3/500 |
| BL | (0°-30°) | 1548.5 | 6.4 | B3/2500 | | |
| BM | (30°-60°) | 3318.8 | 13.6 | B3/5000 | | |
| BH | (60°-80°) | 1593.0 | 6.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 99.2 | 0.4 | | | G1/100 |
| 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° | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 | *3887.9* | 3887.9 |
| 2.5° | 4201.0 | 4215.9 | 4230.8 | 4246.9 | 4263.6 | 4273.1 | 4282.7 | 4292.8 | 4302.3 | *4311.3* | 4302.3 |
| 5° | 4487.2 | 4554.6 | 4621.4 | 4666.7 | 4712.0 | 4746.6 | 4781.2 | 4800.9 | 4821.1 | *4824.1* | 4821.1 |
| 7.5° | 4776.4 | 4856.3 | 4936.2 | 5005.4 | 5074.6 | 5118.7 | 5162.8 | 5188.5 | 5214.7 | *5223.6* | 5214.7 |
| 10° | 4958.3 | 5051.9 | 5146.1 | 5212.9 | 5280.3 | 5321.4 | 5362.0 | 5382.2 | 5402.5 | *5408.5* | 5402.5 |
| 12.5° | 5050.7 | 5140.7 | 5230.8 | 5282.7 | 5333.9 | 5360.2 | 5385.8 | 5395.4 | 5403.7 | *5396.6* | 5403.7 |
| 15° | 5095.4 | 5148.5 | 5201.0 | 5223.0 | 5244.5 | 5232.0 | 5218.9 | 5200.4 | 5181.9 | *5170.0* | 5181.9 |
| 17.5° | 5107.4 | 5125.8 | 5144.9 | 5105.0 | 5065.6 | 4994.1 | 4922.5 | 4868.8 | 4815.2 | *4776.4* | 4815.2 |
| 20° | 5146.1 | 5116.3 | 5086.5 | 4980.3 | 4874.8 | 4740.6 | 4606.5 | 4516.4 | 4425.8 | *4370.9* | 4425.8 |
| 22.5° | 5187.9 | 5103.8 | 5019.7 | 4841.4 | 4663.1 | 4479.4 | 4296.4 | 4192.6 | 4089.5 | *4031.0* | 4089.5 |
| 25° | 5253.4 | 5109.1 | 4964.2 | 4723.3 | 4483.0 | 4267.2 | 4051.9 | 3939.2 | 3827.1 | *3762.7* | 3827.1 |
| 27.5° | 5348.9 | 5128.2 | 4907.6 | 4609.4 | 4311.3 | 4077.5 | 3843.2 | 3735.9 | 3628.5 | *3571.9* | 3628.5 |
| 30° | 5483.0 | 5190.2 | 4896.9 | 4540.3 | 4183.1 | 3938.6 | 3694.1 | 3589.2 | 3483.6 | *3422.8* | 3483.6 |
| 32.5° | 5647.0 | 5277.3 | 4907.6 | 4508.1 | 4108.5 | 3859.3 | 3610.6 | 3509.9 | 3409.7 | *3357.2* | 3409.7 |
| 35° | 5924.3 | 5456.2 | 4988.1 | 4545.0 | 4102.6 | 3871.2 | 3640.4 | 3566.5 | 3493.2 | *3464.5* | 3493.2 |
| 37.5° | 6276.1 | 5729.3 | 5181.9 | 4725.7 | 4269.5 | 4112.1 | 3954.7 | 3954.7 | 3954.7 | *3977.4* | 3954.7 |
| 40° | 6794.9 | 6180.7 | 5566.5 | 5134.8 | 4703.7 | 4694.1 | 4685.8 | 4785.9 | 4886.7 | *4931.4* | 4886.7 |
| 42.5° | 7522.4 | 6873.0 | 6224.2 | 5876.0 | 5527.7 | 5736.5 | 5945.2 | 6235.0 | 6524.8 | *6714.4* | 6524.8 |
| 45° | 8425.8 | 7793.7 | 7161.6 | 6918.3 | 6675.6 | 7140.2 | 7604.1 | 8116.3 | 8628.5 | *8992.3* | 8628.5 |
| 47.5° | 9290.4 | 8758.5 | 8226.0 | 8087.1 | 7948.7 | 8721.0 | 9493.2 | 10243.9 | 10994.7 | *11437.1* | 10994.7 |
| 50° | 10292.2 | 9814.0 | 9335.2 | 9308.3 | 9281.5 | 10310.1 | 11338.7 | 12307.7 | 13276.7 | *13816.4* | 13276.7 |
| 52.5° | 11577.3 | 11051.9 | 10526.0 | 10547.4 | 10567.7 | 11789.5 | 13011.4 | 14183.1 | 15354.9 | *15963.1* | 15354.9 |
| 55° | 13112.7 | 12453.8 | 11794.9 | 11791.3 | 11787.8 | 13191.5 | 14596.4 | 16035.8 | 17476.5 | *18288.7* | 17476.5 |
| 57.5° | 14678.0 | 14060.9 | 13443.7 | 13297.0 | 13149.7 | 14617.8 | 16085.3 | 17675.1 | 19265.4 | *20119.3* | 19265.4 |
| 60° | 15852.8 | 15512.9 | 15173.0 | 14938.0 | 14703.7 | 16211.2 | 17719.2 | 19361.4 | 21003.1 | *21854.6* | 21003.1 |
| 62.5° | 15366.8 | 15974.4 | 16582.1 | 16564.8 | 16547.5 | 18174.8 | 19802.1 | 21509.9 | 23218.9 | *23983.4* | 23218.9 |
| 65° | *13726.9* | *14695.9* | *15664.9* | *16331.6* | *16997.7* | *18964.9* | *20931.5* | *22710.9* | *24490.2* | *25271.4* | *24490.2* |
| 67.5° | 12188.5 | 13042.4 | 13896.9 | 14442.5 | 14988.1 | 17204.6 | 19421.7 | 21440.7 | 23459.8 | *24263.7* | 23459.8 |
| 70° | 10715.6 | 11661.3 | 12607.1 | 12997.1 | 13387.0 | 15270.2 | 17152.7 | 18750.2 | 20347.1 | *20662.0* | 20347.1 |
| 72.5° | 9198.0 | 10322.6 | 11447.9 | 11613.0 | 11778.2 | 13148.5 | 14518.8 | 15369.8 | 16220.7 | *15533.7* | 16220.7 |
| 75° | 7531.3 | 8800.3 | 10068.6 | 10178.9 | 10289.2 | 10716.2 | 11143.7 | 11360.2 | 11577.3 | *11186.7* | 11577.3 |
| 77.5° | 5009.0 | 6107.4 | 7206.3 | 7453.8 | 7701.3 | 7985.7 | 8270.8 | 8255.8 | 8240.9 | *7692.3* | 8240.9 |
| 80° | 2939.8 | 3799.1 | 4658.3 | 4690.5 | 4722.7 | 4936.2 | 5149.1 | 5366.7 | 5584.4 | *5235.6* | 5584.4 |
| 82.5° | 1469.9 | 1941.6 | 2413.8 | 2486.6 | 2559.3 | 2689.9 | 2820.5 | 2881.3 | 2942.8 | *2647.6* | 2942.8 |
| 85° | 333.9 | 456.8 | 579.6 | 698.3 | 816.9 | 954.1 | 1091.2 | 1075.7 | 1060.2 | *894.5* | 1060.2 |
| 87.5° | 26.8 | 27.4 | 28.6 | 29.2 | 29.8 | 30.4 | 31.0 | 32.8 | 34.6 | *35.8* | 34.6 |
| 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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CATALOG NUMBER: GSS-SB3D-830-U-SLL

**CANDELA DISTRIBUTION (continued):**

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 |
| 2.5° | 4292.8 | 4282.7 | 4273.1 | 4263.6 | 4246.9 | 4230.8 | 4215.9 | 4201.0 | 4162.8 | 4125.2 | 4090.7 |
| 5° | 4800.9 | 4781.2 | 4746.6 | 4712.0 | 4666.7 | 4621.4 | 4554.6 | 4487.2 | 4419.8 | 4353.0 | 4282.7 |
| 7.5° | 5188.5 | 5162.8 | 5118.7 | 5074.6 | 5005.4 | 4936.2 | 4856.3 | 4776.4 | 4663.1 | 4549.8 | 4443.1 |
| 10° | 5382.2 | 5362.0 | 5321.4 | 5280.3 | 5212.9 | 5146.1 | 5051.9 | 4958.3 | 4822.9 | 4687.0 | 4554.6 |
| 12.5° | 5395.4 | 5385.8 | 5360.2 | 5333.9 | 5282.7 | 5230.8 | 5140.7 | 5050.7 | 4915.9 | 4781.2 | 4632.7 |
| 15° | 5200.4 | 5218.9 | 5232.0 | 5244.5 | 5223.0 | 5201.0 | 5148.5 | 5095.4 | 4958.9 | 4822.9 | 4672.1 |
| 17.5° | 4868.8 | 4922.5 | 4994.1 | 5065.6 | 5105.0 | 5144.9 | 5125.8 | 5107.4 | 4979.7 | 4852.7 | 4691.7 |
| 20° | 4516.4 | 4606.5 | 4740.6 | 4874.8 | 4980.3 | 5086.5 | 5116.3 | 5146.1 | 5017.3 | 4888.5 | 4715.6 |
| 22.5° | 4192.6 | 4296.4 | 4479.4 | 4663.1 | 4841.4 | 5019.7 | 5103.8 | 5187.9 | 5069.8 | 4952.3 | 4762.1 |
| 25° | 3939.2 | 4051.9 | 4267.2 | 4483.0 | 4723.3 | 4964.2 | 5109.1 | 5253.4 | 5151.5 | 5049.5 | 4842.0 |
| 27.5° | 3735.9 | 3843.2 | 4077.5 | 4311.3 | 4609.4 | 4907.6 | 5128.2 | 5348.9 | 5270.7 | 5192.6 | 4958.9 |
| 30° | 3589.2 | 3694.1 | 3938.6 | 4183.1 | 4540.3 | 4896.9 | 5190.2 | 5483.0 | 5421.6 | 5360.8 | 5097.2 |
| 32.5° | 3509.9 | 3610.6 | 3859.3 | 4108.5 | 4508.1 | 4907.6 | 5277.3 | 5647.0 | 5608.8 | 5570.7 | 5260.0 |
| 35° | 3566.5 | 3640.4 | 3871.2 | 4102.6 | 4545.0 | 4988.1 | 5456.2 | 5924.3 | 5876.6 | 5828.9 | 5432.9 |
| 37.5° | 3954.7 | 3954.7 | 4112.1 | 4269.5 | 4725.7 | 5181.9 | 5729.3 | 6276.1 | 6219.5 | 6162.8 | 5644.0 |
| 40° | 4785.9 | 4685.8 | 4694.1 | 4703.7 | 5134.8 | 5566.5 | 6180.7 | 6794.9 | 6683.4 | 6571.3 | 5885.5 |
| 42.5° | 6235.0 | 5945.2 | 5736.5 | 5527.7 | 5876.0 | 6224.2 | 6873.0 | 7522.4 | 7286.3 | 7049.5 | 6152.7 |
| 45° | 8116.3 | 7604.1 | 7140.2 | 6675.6 | 6918.3 | 7161.6 | 7793.7 | 8425.8 | 8047.1 | 7668.5 | 6515.2 |
| 47.5° | 10243.9 | 9493.2 | 8721.0 | 7948.7 | 8087.1 | 8226.0 | 8758.5 | 9290.4 | 8811.0 | 8331.6 | 6887.9 |
| 50° | 12307.7 | 11338.7 | 10310.1 | 9281.5 | 9308.3 | 9335.2 | 9814.0 | 10292.2 | 9642.3 | 8992.3 | 7212.9 |
| 52.5° | 14183.1 | 13011.4 | 11789.5 | 10567.7 | 10547.4 | 10526.0 | 11051.9 | 11577.3 | 10545.1 | 9512.3 | 7366.8 |
| 55° | 16035.8 | 14596.4 | 13191.5 | 11787.8 | 11791.3 | 11794.9 | 12453.8 | 13112.7 | 11452.0 | 9791.3 | 7326.2 |
| 57.5° | 17675.1 | 16085.3 | 14617.8 | 13149.7 | 13297.0 | 13443.7 | 14060.9 | 14678.0 | 12213.5 | 9749.6 | 7105.0 |
| 60° | 19361.4 | 17719.2 | 16211.2 | 14703.7 | 14938.0 | 15173.0 | 15512.9 | 15852.8 | 12554.6 | 9255.8 | 6574.9 |
| 62.5° | 21509.9 | 19802.1 | 18174.8 | 16547.5 | 16564.8 | 16582.1 | 15974.4 | 15366.8 | 11797.9 | 8229.0 | 5706.0 |
| 65° | *22710.9* | *20931.5* | *18964.9* | *16997.7* | *16331.6* | *15664.9* | *14695.9* | *13726.9* | *10175.9* | *6624.9* | *4475.9* |
| 67.5° | 21440.7 | 19421.7 | 17204.6 | 14988.1 | 14442.5 | 13896.9 | 13042.4 | 12188.5 | 8739.4 | 5290.4 | 3483.0 |
| 70° | 18750.2 | 17152.7 | 15270.2 | 13387.0 | 12997.1 | 12607.1 | 11661.3 | 10715.6 | 7424.6 | 4133.6 | 2669.1 |
| 72.5° | 15369.8 | 14518.8 | 13148.5 | 11778.2 | 11613.0 | 11447.9 | 10322.6 | 9198.0 | 6165.2 | 3131.8 | 2006.6 |
| 75° | 11360.2 | 11143.7 | 10716.2 | 10289.2 | 10178.9 | 10068.6 | 8800.3 | 7531.3 | 4922.5 | 2313.7 | 1487.2 |
| 77.5° | 8255.8 | 8270.8 | 7985.7 | 7701.3 | 7453.8 | 7206.3 | 6107.4 | 5009.0 | 3229.6 | 1450.2 | 961.2 |
| 80° | 5366.7 | 5149.1 | 4936.2 | 4722.7 | 4690.5 | 4658.3 | 3799.1 | 2939.8 | 1851.5 | 763.3 | 531.3 |
| 82.5° | 2881.3 | 2820.5 | 2689.9 | 2559.3 | 2486.6 | 2413.8 | 1941.6 | 1469.9 | 927.9 | 386.4 | 285.6 |
| 85° | 1075.7 | 1091.2 | 954.1 | 816.9 | 698.3 | 579.6 | 456.8 | 333.9 | 220.6 | 107.3 | 90.6 |
| 87.5° | 32.8 | 31.0 | 30.4 | 29.8 | 29.2 | 28.6 | 27.4 | 26.8 | 26.2 | 25.0 | 24.4 |
| 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: P1365090
CATALOG NUMBER: GSS-SB3D-830-U-SLL

**CANDELA DISTRIBUTION (continued):**

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 |
| 2.5° | 4056.1 | 4021.5 | 3986.3 | 3952.9 | 3918.9 | 3884.9 | 3855.1 | 3822.9 | 3791.3 | 3766.3 | 3741.8 |
| 5° | 4212.9 | 4144.3 | 4075.7 | 4010.7 | 3946.3 | 3879.0 | 3821.1 | 3763.9 | 3707.8 | 3661.3 | 3614.8 |
| 7.5° | 4336.3 | 4240.9 | 4145.5 | 4060.2 | 3974.4 | 3884.9 | 3815.2 | 3745.4 | 3676.2 | 3616.0 | 3555.2 |
| 10° | 4421.6 | 4304.1 | 4186.1 | 4087.7 | 3989.3 | 3893.9 | 3819.3 | 3746.0 | 3673.2 | 3611.2 | 3549.2 |
| 12.5° | 4484.2 | 4352.4 | 4220.6 | 4112.1 | 4004.2 | 3899.8 | 3827.1 | 3766.3 | 3706.0 | 3662.5 | 3619.6 |
| 15° | 4521.2 | 4379.3 | 4236.7 | 4114.5 | 3992.3 | 3876.0 | 3811.6 | 3772.2 | 3732.9 | 3729.3 | 3725.7 |
| 17.5° | 4530.7 | 4368.5 | 4206.9 | 4064.4 | 3922.5 | 3786.5 | 3731.7 | 3726.3 | 3720.9 | 3780.0 | 3839.0 |
| 20° | 4542.7 | 4352.4 | 4162.2 | 3975.0 | 3787.7 | 3607.6 | 3573.1 | 3607.0 | 3640.4 | 3756.1 | 3871.2 |
| 22.5° | 4572.5 | 4339.9 | 4107.3 | 3872.4 | 3637.5 | 3422.8 | 3390.0 | 3440.1 | 3489.6 | 3640.4 | 3791.3 |
| 25° | 4634.5 | 4338.7 | 4042.9 | 3750.2 | 3457.4 | 3211.1 | 3208.1 | 3262.4 | 3316.6 | 3456.2 | 3595.7 |
| 27.5° | 4725.7 | 4350.0 | 3974.4 | 3624.9 | 3274.9 | 3023.3 | 3038.2 | 3090.1 | 3142.5 | 3246.3 | 3350.0 |
| 30° | 4833.1 | 4374.5 | 3916.5 | 3515.8 | 3115.7 | 2871.2 | 2887.3 | 2927.9 | 2968.4 | 3043.5 | 3118.7 |
| 32.5° | 4949.3 | 4401.9 | 3855.1 | 3420.4 | 2986.3 | 2760.9 | 2760.9 | 2778.2 | 2795.5 | 2844.4 | 2893.3 |
| 35° | 5037.6 | 4395.4 | 3753.7 | 3311.9 | 2869.4 | 2695.3 | 2658.3 | 2644.0 | 2629.7 | 2661.9 | 2694.1 |
| 37.5° | 5125.2 | 4376.9 | 3628.5 | 3191.4 | 2754.9 | 2617.8 | 2547.4 | 2509.3 | 2469.9 | 2485.4 | 2499.7 |
| 40° | 5199.8 | 4335.1 | 3470.5 | 3047.7 | 2624.9 | 2516.4 | 2428.2 | 2370.9 | 2313.7 | 2312.5 | 2310.7 |
| 42.5° | 5254.6 | 4263.0 | 3270.7 | 2876.6 | 2481.8 | 2406.1 | 2297.0 | 2224.2 | 2151.5 | 2143.7 | 2136.0 |
| 45° | 5362.0 | 4213.5 | 3065.0 | 2702.5 | 2340.5 | 2271.9 | 2163.4 | 2088.3 | 2014.3 | 2002.4 | 1990.5 |
| 47.5° | 5444.3 | 4155.7 | 2867.0 | 2529.5 | 2193.2 | 2113.9 | 2012.5 | 1948.7 | 1884.3 | 1877.2 | 1869.4 |
| 50° | 5433.5 | 4057.3 | 2680.4 | 2375.7 | 2070.4 | 1961.8 | 1861.7 | 1809.2 | 1756.1 | 1765.1 | 1774.0 |
| 52.5° | 5220.7 | 3855.7 | 2491.4 | 2237.3 | 1984.5 | 1845.6 | 1738.2 | 1698.9 | 1658.9 | 1686.9 | 1714.4 |
| 55° | 4861.1 | 3588.6 | 2314.9 | 2121.7 | 1927.3 | 1788.9 | 1662.5 | 1618.4 | 1574.2 | 1613.6 | 1653.0 |
| 57.5° | 4460.4 | 3308.9 | 2157.4 | 2023.9 | 1890.3 | 1774.0 | 1619.0 | 1557.0 | 1495.5 | 1534.9 | 1574.2 |
| 60° | 3893.9 | 2955.3 | 2016.7 | 1923.1 | 1829.5 | 1738.2 | 1583.2 | 1505.7 | 1428.2 | 1454.4 | 1480.0 |
| 62.5° | 3183.1 | 2506.9 | 1830.7 | 1778.2 | 1726.3 | 1687.5 | 1539.7 | 1438.3 | 1336.9 | 1340.5 | 1342.9 |
| 65° | *2326.8* | *1970.2* | *1613.0* | *1601.7* | *1590.9* | *1580.2* | *1458.0* | *1348.8* | *1240.3* | *1228.4* | *1216.5* |
| 67.5° | 1675.6 | 1506.3 | 1336.9 | 1368.5 | 1400.1 | 1416.2 | 1332.7 | 1236.7 | 1140.1 | 1115.7 | 1091.2 |
| 70° | 1204.5 | 1144.9 | 1085.3 | 1132.4 | 1179.5 | 1174.7 | 1134.2 | 1076.9 | 1019.7 | 1004.2 | 988.7 |
| 72.5° | 881.3 | 880.1 | 879.6 | 915.3 | 951.1 | 903.4 | 929.0 | 915.9 | 903.4 | 892.1 | 881.3 |
| 75° | 660.7 | 656.5 | 653.0 | 695.3 | 738.2 | 757.3 | 774.0 | 766.8 | 760.3 | 751.9 | 744.2 |
| 77.5° | 472.3 | 475.9 | 478.2 | 524.7 | 571.3 | 626.1 | 629.1 | 613.6 | 597.5 | 589.1 | 579.6 |
| 80° | 299.3 | 302.9 | 305.3 | 354.2 | 402.5 | 480.0 | 477.0 | 458.0 | 438.3 | 431.7 | 424.6 |
| 82.5° | 184.9 | 185.5 | 186.0 | 209.9 | 233.8 | 277.3 | 289.2 | 289.2 | 289.2 | 285.0 | 280.3 |
| 85° | 74.5 | 78.1 | 82.3 | 97.8 | 113.3 | 137.2 | 144.3 | 145.5 | 146.1 | 139.5 | 132.4 |
| 87.5° | 23.9 | 25.0 | 26.8 | 29.8 | 32.8 | 35.8 | 41.7 | 45.3 | 48.9 | 52.5 | 54.9 |
| 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: P1365090
CATALOG NUMBER: GSS-SB3D-830-U-SLL

**CANDELA DISTRIBUTION (continued):**

| | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 |
| 2.5° | 3720.3 | 3698.3 | 3672.6 | 3646.4 | 3627.9 | 3608.8 | 3596.3 | 3583.8 | 3577.8 | 3571.9 | 3567.1 |
| 5° | 3576.6 | 3537.3 | 3502.7 | 3467.5 | 3440.1 | 3412.1 | 3389.4 | 3366.1 | 3356.6 | 3346.5 | 3339.9 |
| 7.5° | 3503.9 | 3452.6 | 3409.7 | 3366.1 | 3325.0 | 3284.4 | 3258.2 | 3232.0 | 3216.5 | 3201.0 | 3189.6 |
| 10° | 3494.9 | 3440.7 | 3384.0 | 3327.4 | 3282.1 | 3236.7 | 3197.4 | 3159.2 | 3137.2 | 3115.7 | 3103.8 |
| 12.5° | 3569.5 | 3519.4 | 3452.0 | 3384.0 | 3322.6 | 3261.8 | 3213.5 | 3165.2 | 3137.8 | 3111.5 | 3093.6 |
| 15° | 3708.4 | 3691.1 | 3628.5 | 3565.9 | 3481.2 | 3396.0 | 3326.8 | 3257.0 | 3218.9 | 3179.5 | 3157.4 |
| 17.5° | 3873.0 | 3907.0 | 3863.5 | 3819.3 | 3700.1 | 3580.8 | 3477.7 | 3375.1 | 3319.0 | 3263.0 | 3243.3 |
| 20° | 3963.0 | 4054.9 | 4050.1 | 4045.9 | 3890.3 | 3734.1 | 3598.7 | 3463.3 | 3388.2 | 3314.3 | 3284.4 |
| 22.5° | 3923.7 | 4056.1 | 4090.1 | 4123.4 | 3970.8 | 3817.5 | 3650.6 | 3483.6 | 3395.4 | 3306.5 | 3278.5 |
| 25° | 3738.2 | 3880.8 | 3944.0 | 4007.2 | 3881.3 | 3755.5 | 3593.3 | 3431.7 | 3338.7 | 3245.1 | 3216.5 |
| 27.5° | 3464.5 | 3579.0 | 3650.0 | 3720.9 | 3644.0 | 3567.1 | 3435.9 | 3304.7 | 3222.4 | 3139.5 | 3109.1 |
| 30° | 3196.2 | 3273.7 | 3330.4 | 3387.0 | 3336.3 | 3285.6 | 3191.4 | 3097.8 | 3036.4 | 2975.6 | 2956.5 |
| 32.5° | 2951.1 | 3008.4 | 3040.0 | 3071.0 | 3031.6 | 2992.3 | 2930.2 | 2868.2 | 2830.1 | 2791.9 | 2779.4 |
| 35° | 2740.6 | 2787.7 | 2811.6 | 2835.4 | 2802.6 | 2769.8 | 2714.4 | 2659.5 | 2632.1 | 2604.7 | 2594.5 |
| 37.5° | 2539.7 | 2579.0 | 2613.0 | 2647.6 | 2623.7 | 2599.9 | 2552.8 | 2505.7 | 2473.5 | 2440.1 | 2422.2 |
| 40° | 2348.8 | 2386.4 | 2429.3 | 2471.7 | 2467.5 | 2462.7 | 2418.0 | 2373.3 | 2326.8 | 2280.9 | 2256.4 |
| 42.5° | 2173.5 | 2211.1 | 2256.4 | 2301.7 | 2310.7 | 2319.6 | 2282.7 | 2245.1 | 2191.4 | 2137.8 | 2100.2 |
| 45° | 2022.7 | 2056.1 | 2105.6 | 2155.6 | 2176.5 | 2197.4 | 2164.0 | 2130.0 | 2069.8 | 2009.5 | 1964.8 |
| 47.5° | 1903.4 | 1938.0 | 1992.9 | 2048.3 | 2070.4 | 2093.0 | 2070.4 | 2048.3 | 1996.4 | 1944.0 | 1904.6 |
| 50° | 1811.6 | 1848.5 | 1891.5 | 1935.0 | 1976.2 | 2016.7 | 2012.5 | 2008.4 | 1967.2 | 1926.1 | 1889.1 |
| 52.5° | 1748.4 | 1783.0 | 1827.7 | 1872.4 | 1915.3 | 1958.9 | 1965.4 | 1972.6 | 1942.8 | 1912.9 | 1880.7 |
| 55° | 1694.1 | 1735.2 | 1777.0 | 1818.7 | 1859.3 | 1899.2 | 1908.2 | 1917.1 | 1895.7 | 1873.6 | 1849.7 |
| 57.5° | 1619.0 | 1663.7 | 1705.4 | 1747.2 | 1794.3 | 1841.4 | 1848.5 | 1855.7 | 1833.0 | 1809.8 | 1791.9 |
| 60° | 1525.9 | 1571.3 | 1614.8 | 1657.7 | 1705.4 | 1753.1 | 1762.7 | 1772.2 | 1754.3 | 1736.4 | 1719.7 |
| 62.5° | 1394.8 | 1446.0 | 1481.8 | 1517.6 | 1562.9 | 1608.8 | 1622.5 | 1636.9 | 1628.5 | 1620.8 | 1601.7 |
| 65° | *1265.4* | *1314.9* | *1342.9* | *1371.5* | *1410.9* | *1450.2* | *1463.9* | *1477.6* | *1473.5* | *1469.9* | *1456.2* |
| 67.5° | 1136.6 | 1181.9 | 1205.1 | 1228.4 | 1255.2 | 1282.1 | 1297.6 | 1313.1 | 1305.3 | 1297.0 | 1282.7 |
| 70° | 1025.6 | 1062.6 | 1082.9 | 1103.2 | 1124.6 | 1146.1 | 1154.4 | 1162.8 | 1150.9 | 1138.9 | 1106.7 |
| 72.5° | 909.4 | 937.4 | 954.7 | 972.0 | 992.3 | 1012.5 | 1017.3 | 1022.7 | 1004.2 | 985.1 | 947.5 |
| 75° | 765.7 | 787.1 | 800.2 | 814.0 | 834.8 | 855.7 | 864.6 | 873.6 | 847.3 | 821.7 | 781.8 |
| 77.5° | 599.3 | 619.0 | 631.5 | 644.0 | 661.3 | 678.6 | 681.0 | 684.6 | 661.9 | 639.2 | 615.4 |
| 80° | 438.9 | 453.2 | 458.0 | 462.1 | 476.4 | 490.2 | 490.2 | 490.2 | 473.5 | 456.2 | 444.2 |
| 82.5° | 277.3 | 274.3 | 268.3 | 262.4 | 276.7 | 291.0 | 295.8 | 301.1 | 293.4 | 286.2 | 273.1 |
| 85° | 124.0 | 114.5 | 112.7 | 110.3 | 109.7 | 108.5 | 112.7 | 116.3 | 114.5 | 113.3 | 108.5 |
| 87.5° | 58.4 | 60.8 | 59.0 | 56.6 | 54.3 | 52.5 | 47.7 | 42.9 | 39.4 | 35.8 | 33.4 |
| 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: P1365090
CATALOG NUMBER: GSS-SB3D-830-U-SLL

**CANDELA DISTRIBUTION (continued):**

| | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 |
| 2.5° | 3562.9 | 3559.9 | 3562.9 | 3567.1 | 3571.9 | 3577.8 | 3583.8 | 3596.3 | 3608.8 | 3627.9 | 3646.4 |
| 5° | 3333.3 | 3327.4 | 3333.3 | 3339.9 | 3346.5 | 3356.6 | 3366.1 | 3389.4 | 3412.1 | 3440.1 | 3467.5 |
| 7.5° | 3178.3 | 3172.3 | 3178.3 | 3189.6 | 3201.0 | 3216.5 | 3232.0 | 3258.2 | 3284.4 | 3325.0 | 3366.1 |
| 10° | 3091.8 | 3082.9 | 3091.8 | 3103.8 | 3115.7 | 3137.2 | 3159.2 | 3197.4 | 3236.7 | 3282.1 | 3327.4 |
| 12.5° | 3075.7 | 3065.0 | 3075.7 | 3093.6 | 3111.5 | 3137.8 | 3165.2 | 3213.5 | 3261.8 | 3322.6 | 3384.0 |
| 15° | 3135.4 | 3118.7 | 3135.4 | 3157.4 | 3179.5 | 3218.9 | 3257.0 | 3326.8 | 3396.0 | 3481.2 | 3565.9 |
| 17.5° | 3223.0 | 3214.1 | 3223.0 | 3243.3 | 3263.0 | 3319.0 | 3375.1 | 3477.7 | 3580.8 | 3700.1 | 3819.3 |
| 20° | 3254.6 | 3243.9 | 3254.6 | 3284.4 | 3314.3 | 3388.2 | 3463.3 | 3598.7 | 3734.1 | 3890.3 | 4045.9 |
| 22.5° | 3249.9 | 3237.9 | 3249.9 | 3278.5 | 3306.5 | 3395.4 | 3483.6 | 3650.6 | 3817.5 | 3970.8 | 4123.4 |
| 25° | 3187.3 | 3178.3 | 3187.3 | 3216.5 | 3245.1 | 3338.7 | 3431.7 | 3593.3 | 3755.5 | 3881.3 | 4007.2 |
| 27.5° | 3078.1 | 3059.0 | 3078.1 | 3109.1 | 3139.5 | 3222.4 | 3304.7 | 3435.9 | 3567.1 | 3644.0 | 3720.9 |
| 30° | 2936.8 | 2927.9 | 2936.8 | 2956.5 | 2975.6 | 3036.4 | 3097.8 | 3191.4 | 3285.6 | 3336.3 | 3387.0 |
| 32.5° | 2766.9 | 2760.9 | 2766.9 | 2779.4 | 2791.9 | 2830.1 | 2868.2 | 2930.2 | 2992.3 | 3031.6 | 3071.0 |
| 35° | 2585.0 | 2576.0 | 2585.0 | 2594.5 | 2604.7 | 2632.1 | 2659.5 | 2714.4 | 2769.8 | 2802.6 | 2835.4 |
| 37.5° | 2404.3 | 2391.2 | 2404.3 | 2422.2 | 2440.1 | 2473.5 | 2505.7 | 2552.8 | 2599.9 | 2623.7 | 2647.6 |
| 40° | 2231.4 | 2218.3 | 2231.4 | 2256.4 | 2280.9 | 2326.8 | 2373.3 | 2418.0 | 2462.7 | 2467.5 | 2471.7 |
| 42.5° | 2063.2 | 2039.4 | 2063.2 | 2100.2 | 2137.8 | 2191.4 | 2245.1 | 2282.7 | 2319.6 | 2310.7 | 2301.7 |
| 45° | 1920.1 | 1890.3 | 1920.1 | 1964.8 | 2009.5 | 2069.8 | 2130.0 | 2164.0 | 2197.4 | 2176.5 | 2155.6 |
| 47.5° | 1865.2 | 1836.6 | 1865.2 | 1904.6 | 1944.0 | 1996.4 | 2048.3 | 2070.4 | 2093.0 | 2070.4 | 2048.3 |
| 50° | 1851.5 | 1824.7 | 1851.5 | 1889.1 | 1926.1 | 1967.2 | 2008.4 | 2012.5 | 2016.7 | 1976.2 | 1935.0 |
| 52.5° | 1848.5 | 1824.7 | 1848.5 | 1880.7 | 1912.9 | 1942.8 | 1972.6 | 1965.4 | 1958.9 | 1915.3 | 1872.4 |
| 55° | 1825.9 | 1806.8 | 1825.9 | 1849.7 | 1873.6 | 1895.7 | 1917.1 | 1908.2 | 1899.2 | 1859.3 | 1818.7 |
| 57.5° | 1774.0 | 1765.1 | 1774.0 | 1791.9 | 1809.8 | 1833.0 | 1855.7 | 1848.5 | 1841.4 | 1794.3 | 1747.2 |
| 60° | 1702.5 | 1687.5 | 1702.5 | 1719.7 | 1736.4 | 1754.3 | 1772.2 | 1762.7 | 1753.1 | 1705.4 | 1657.7 |
| 62.5° | 1583.2 | 1562.3 | 1583.2 | 1601.7 | 1620.8 | 1628.5 | 1636.9 | 1622.5 | 1608.8 | 1562.9 | 1517.6 |
| 65° | *1443.1* | *1419.2* | *1443.1* | *1456.2* | *1469.9* | *1473.5* | *1477.6* | *1463.9* | *1450.2* | *1410.9* | *1371.5* |
| 67.5° | 1268.9 | 1264.2 | 1268.9 | 1282.7 | 1297.0 | 1305.3 | 1313.1 | 1297.6 | 1282.1 | 1255.2 | 1228.4 |
| 70° | 1074.5 | 1037.6 | 1074.5 | 1106.7 | 1138.9 | 1150.9 | 1162.8 | 1154.4 | 1146.1 | 1124.6 | 1103.2 |
| 72.5° | 909.4 | 870.6 | 909.4 | 947.5 | 985.1 | 1004.2 | 1022.7 | 1017.3 | 1012.5 | 992.3 | 972.0 |
| 75° | 742.4 | 715.6 | 742.4 | 781.8 | 821.7 | 847.3 | 873.6 | 864.6 | 855.7 | 834.8 | 814.0 |
| 77.5° | 591.5 | 578.4 | 591.5 | 615.4 | 639.2 | 661.9 | 684.6 | 681.0 | 678.6 | 661.3 | 644.0 |
| 80° | 432.3 | 423.4 | 432.3 | 444.2 | 456.2 | 473.5 | 490.2 | 490.2 | 490.2 | 476.4 | 462.1 |
| 82.5° | 259.4 | 250.4 | 259.4 | 273.1 | 286.2 | 293.4 | 301.1 | 295.8 | 291.0 | 276.7 | 262.4 |
| 85° | 104.4 | 101.4 | 104.4 | 108.5 | 113.3 | 114.5 | 116.3 | 112.7 | 108.5 | 109.7 | 110.3 |
| 87.5° | 31.0 | 29.8 | 31.0 | 33.4 | 35.8 | 39.4 | 42.9 | 47.7 | 52.5 | 54.3 | 56.6 |
| 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

REPORT NUMBER: P1365090
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**CANDELA DISTRIBUTION (continued):**

| | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 |
| 2.5° | 3672.6 | 3698.3 | 3720.3 | 3741.8 | 3766.3 | 3791.3 | 3822.9 | 3855.1 | 3884.9 | 3918.9 | 3952.9 |
| 5° | 3502.7 | 3537.3 | 3576.6 | 3614.8 | 3661.3 | 3707.8 | 3763.9 | 3821.1 | 3879.0 | 3946.3 | 4010.7 |
| 7.5° | 3409.7 | 3452.6 | 3503.9 | 3555.2 | 3616.0 | 3676.2 | 3745.4 | 3815.2 | 3884.9 | 3974.4 | 4060.2 |
| 10° | 3384.0 | 3440.7 | 3494.9 | 3549.2 | 3611.2 | 3673.2 | 3746.0 | 3819.3 | 3893.9 | 3989.3 | 4087.7 |
| 12.5° | 3452.0 | 3519.4 | 3569.5 | 3619.6 | 3662.5 | 3706.0 | 3766.3 | 3827.1 | 3899.8 | 4004.2 | 4112.1 |
| 15° | 3628.5 | 3691.1 | 3708.4 | 3725.7 | 3729.3 | 3732.9 | 3772.2 | 3811.6 | 3876.0 | 3992.3 | 4114.5 |
| 17.5° | 3863.5 | 3907.0 | 3873.0 | 3839.0 | 3780.0 | 3720.9 | 3726.3 | 3731.7 | 3786.5 | 3922.5 | 4064.4 |
| 20° | 4050.1 | 4054.9 | 3963.0 | 3871.2 | 3756.1 | 3640.4 | 3607.0 | 3573.1 | 3607.6 | 3787.7 | 3975.0 |
| 22.5° | 4090.1 | 4056.1 | 3923.7 | 3791.3 | 3640.4 | 3489.6 | 3440.1 | 3390.0 | 3422.8 | 3637.5 | 3872.4 |
| 25° | 3944.0 | 3880.8 | 3738.2 | 3595.7 | 3456.2 | 3316.6 | 3262.4 | 3208.1 | 3211.1 | 3457.4 | 3750.2 |
| 27.5° | 3650.0 | 3579.0 | 3464.5 | 3350.0 | 3246.3 | 3142.5 | 3090.1 | 3038.2 | 3023.3 | 3274.9 | 3624.9 |
| 30° | 3330.4 | 3273.7 | 3196.2 | 3118.7 | 3043.5 | 2968.4 | 2927.9 | 2887.3 | 2871.2 | 3115.7 | 3515.8 |
| 32.5° | 3040.0 | 3008.4 | 2951.1 | 2893.3 | 2844.4 | 2795.5 | 2778.2 | 2760.9 | 2760.9 | 2986.3 | 3420.4 |
| 35° | 2811.6 | 2787.7 | 2740.6 | 2694.1 | 2661.9 | 2629.7 | 2644.0 | 2658.3 | 2695.3 | 2869.4 | 3311.9 |
| 37.5° | 2613.0 | 2579.0 | 2539.7 | 2499.7 | 2485.4 | 2469.9 | 2509.3 | 2547.4 | 2617.8 | 2754.9 | 3191.4 |
| 40° | 2429.3 | 2386.4 | 2348.8 | 2310.7 | 2312.5 | 2313.7 | 2370.9 | 2428.2 | 2516.4 | 2624.9 | 3047.7 |
| 42.5° | 2256.4 | 2211.1 | 2173.5 | 2136.0 | 2143.7 | 2151.5 | 2224.2 | 2297.0 | 2406.1 | 2481.8 | 2876.6 |
| 45° | 2105.6 | 2056.1 | 2022.7 | 1990.5 | 2002.4 | 2014.3 | 2088.3 | 2163.4 | 2271.9 | 2340.5 | 2702.5 |
| 47.5° | 1992.9 | 1938.0 | 1903.4 | 1869.4 | 1877.2 | 1884.3 | 1948.7 | 2012.5 | 2113.9 | 2193.2 | 2529.5 |
| 50° | 1891.5 | 1848.5 | 1811.6 | 1774.0 | 1765.1 | 1756.1 | 1809.2 | 1861.7 | 1961.8 | 2070.4 | 2375.7 |
| 52.5° | 1827.7 | 1783.0 | 1748.4 | 1714.4 | 1686.9 | 1658.9 | 1698.9 | 1738.2 | 1845.6 | 1984.5 | 2237.3 |
| 55° | 1777.0 | 1735.2 | 1694.1 | 1653.0 | 1613.6 | 1574.2 | 1618.4 | 1662.5 | 1788.9 | 1927.3 | 2121.7 |
| 57.5° | 1705.4 | 1663.7 | 1619.0 | 1574.2 | 1534.9 | 1495.5 | 1557.0 | 1619.0 | 1774.0 | 1890.3 | 2023.9 |
| 60° | 1614.8 | 1571.3 | 1525.9 | 1480.0 | 1454.4 | 1428.2 | 1505.7 | 1583.2 | 1738.2 | 1829.5 | 1923.1 |
| 62.5° | 1481.8 | 1446.0 | 1394.8 | 1342.9 | 1340.5 | 1336.9 | 1438.3 | 1539.7 | 1687.5 | 1726.3 | 1778.2 |
| 65° | *1342.9* | *1314.9* | *1265.4* | *1216.5* | *1228.4* | *1240.3* | *1348.8* | *1458.0* | *1580.2* | *1590.9* | *1601.7* |
| 67.5° | 1205.1 | 1181.9 | 1136.6 | 1091.2 | 1115.7 | 1140.1 | 1236.7 | 1332.7 | 1416.2 | 1400.1 | 1368.5 |
| 70° | 1082.9 | 1062.6 | 1025.6 | 988.7 | 1004.2 | 1019.7 | 1076.9 | 1134.2 | 1174.7 | 1179.5 | 1132.4 |
| 72.5° | 954.7 | 937.4 | 909.4 | 881.3 | 892.1 | 903.4 | 915.9 | 929.0 | 903.4 | 951.1 | 915.3 |
| 75° | 800.2 | 787.1 | 765.7 | 744.2 | 751.9 | 760.3 | 766.8 | 774.0 | 757.3 | 738.2 | 695.3 |
| 77.5° | 631.5 | 619.0 | 599.3 | 579.6 | 589.1 | 597.5 | 613.6 | 629.1 | 626.1 | 571.3 | 524.7 |
| 80° | 458.0 | 453.2 | 438.9 | 424.6 | 431.7 | 438.3 | 458.0 | 477.0 | 480.0 | 402.5 | 354.2 |
| 82.5° | 268.3 | 274.3 | 277.3 | 280.3 | 285.0 | 289.2 | 289.2 | 289.2 | 277.3 | 233.8 | 209.9 |
| 85° | 112.7 | 114.5 | 124.0 | 132.4 | 139.5 | 146.1 | 145.5 | 144.3 | 137.2 | 113.3 | 97.8 |
| 87.5° | 59.0 | 60.8 | 58.4 | 54.9 | 52.5 | 48.9 | 45.3 | 41.7 | 35.8 | 32.8 | 29.8 |
| 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
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1365090
CATALOG NUMBER: GSS-SB3D-830-U-SLL

**CANDELA DISTRIBUTION (continued):**

| | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|---|---|---|---|---|---|---|---|
| 0° | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 | 3887.9 |
| 2.5° | 3986.3 | 4021.5 | 4056.1 | 4090.7 | 4125.2 | 4162.8 | 4201.0 |
| 5° | 4075.7 | 4144.3 | 4212.9 | 4282.7 | 4353.0 | 4419.8 | 4487.2 |
| 7.5° | 4145.5 | 4240.9 | 4336.3 | 4443.1 | 4549.8 | 4663.1 | 4776.4 |
| 10° | 4186.1 | 4304.1 | 4421.6 | 4554.6 | 4687.0 | 4822.9 | 4958.3 |
| 12.5° | 4220.6 | 4352.4 | 4484.2 | 4632.7 | 4781.2 | 4915.9 | 5050.7 |
| 15° | 4236.7 | 4379.3 | 4521.2 | 4672.1 | 4822.9 | 4958.9 | 5095.4 |
| 17.5° | 4206.9 | 4368.5 | 4530.7 | 4691.7 | 4852.7 | 4979.7 | 5107.4 |
| 20° | 4162.2 | 4352.4 | 4542.7 | 4715.6 | 4888.5 | 5017.3 | 5146.1 |
| 22.5° | 4107.3 | 4339.9 | 4572.5 | 4762.1 | 4952.3 | 5069.8 | 5187.9 |
| 25° | 4042.9 | 4338.7 | 4634.5 | 4842.0 | 5049.5 | 5151.5 | 5253.4 |
| 27.5° | 3974.4 | 4350.0 | 4725.7 | 4958.9 | 5192.6 | 5270.7 | 5348.9 |
| 30° | 3916.5 | 4374.5 | 4833.1 | 5097.2 | 5360.8 | 5421.6 | 5483.0 |
| 32.5° | 3855.1 | 4401.9 | 4949.3 | 5260.0 | 5570.7 | 5608.8 | 5647.0 |
| 35° | 3753.7 | 4395.4 | 5037.6 | 5432.9 | 5828.9 | 5876.6 | 5924.3 |
| 37.5° | 3628.5 | 4376.9 | 5125.2 | 5644.0 | 6162.8 | 6219.5 | 6276.1 |
| 40° | 3470.5 | 4335.1 | 5199.8 | 5885.5 | 6571.3 | 6683.4 | 6794.9 |
| 42.5° | 3270.7 | 4263.0 | 5254.6 | 6152.7 | 7049.5 | 7286.3 | 7522.4 |
| 45° | 3065.0 | 4213.5 | 5362.0 | 6515.2 | 7668.5 | 8047.1 | 8425.8 |
| 47.5° | 2867.0 | 4155.7 | 5444.3 | 6887.9 | 8331.6 | 8811.0 | 9290.4 |
| 50° | 2680.4 | 4057.3 | 5433.5 | 7212.9 | 8992.3 | 9642.3 | 10292.2 |
| 52.5° | 2491.4 | 3855.7 | 5220.7 | 7366.8 | 9512.3 | 10545.1 | 11577.3 |
| 55° | 2314.9 | 3588.6 | 4861.1 | 7326.2 | 9791.3 | 11452.0 | 13112.7 |
| 57.5° | 2157.4 | 3308.9 | 4460.4 | 7105.0 | 9749.6 | 12213.5 | 14678.0 |
| 60° | 2016.7 | 2955.3 | 3893.9 | 6574.9 | 9255.8 | 12554.6 | 15852.8 |
| 62.5° | 1830.7 | 2506.9 | 3183.1 | 5706.0 | 8229.0 | 11797.9 | 15366.8 |
| 65° | *1613.0* | *1970.2* | *2326.8* | *4475.9* | *6624.9* | *10175.9* | *13726.9* |
| 67.5° | 1336.9 | 1506.3 | 1675.6 | 3483.0 | 5290.4 | 8739.4 | 12188.5 |
| 70° | 1085.3 | 1144.9 | 1204.5 | 2669.1 | 4133.6 | 7424.6 | 10715.6 |
| 72.5° | 879.6 | 880.1 | 881.3 | 2006.6 | 3131.8 | 6165.2 | 9198.0 |
| 75° | 653.0 | 656.5 | 660.7 | 1487.2 | 2313.7 | 4922.5 | 7531.3 |
| 77.5° | 478.2 | 475.9 | 472.3 | 961.2 | 1450.2 | 3229.6 | 5009.0 |
| 80° | 305.3 | 302.9 | 299.3 | 531.3 | 763.3 | 1851.5 | 2939.8 |
| 82.5° | 186.0 | 185.5 | 184.9 | 285.6 | 386.4 | 927.9 | 1469.9 |
| 85° | 82.3 | 78.1 | 74.5 | 90.6 | 107.3 | 220.6 | 333.9 |
| 87.5° | 26.8 | 25.0 | 23.9 | 24.4 | 25.0 | 26.2 | 26.8 |
| 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: SP1-2407-184-9

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-830-U-5WQ

Data in this report applies to families of products including GSS-SB1A-830-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

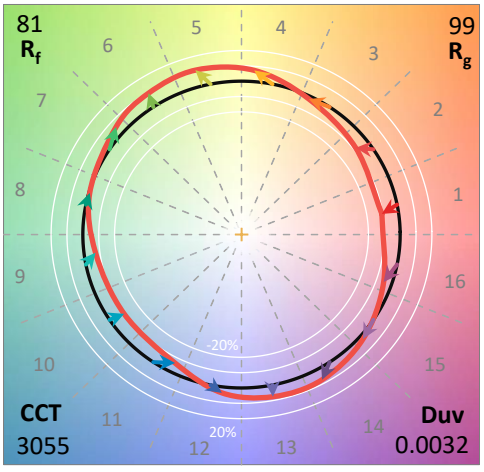
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2407-184-9 |
| 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-830-U-5WQ** |
| Description: | GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 3000K CCT 26 LEDS |

## Spectral Parameters

| | |
|---|---|
| CCT (K): | 3055 |
| CIE u': | 0.2475 |
| CIE v': | 0.5247 |
| Duv: | 0.0032 |
| CIE x: | 0.4377 |
| CIE y: | 0.4124 |
| CIE z: | 0.1499 |
| Peak Wavelength (nm): | 604 |
| Dominant Wavelength (nm): | 581 |
| Purity: | 55.16339 |
| Rf: | 81.5 |
| Rg: | 99.2 |

| | |
|---|---|
| CRI (Ra): | 80.9 |
| R1: | 79.5 |
| R2: | 85.6 |
| R3: | 92.1 |
| R4: | 82.4 |
| R5: | 78.9 |
| R6: | 81.7 |
| R7: | 85.1 |
| R8: | 61.9 |
| R9: | 6.8 |
| R10: | 67.1 |
| R11: | 82.5 |
| R12: | 63.4 |
| R13: | 80.2 |
| R14: | 95.1 |
| R15: | 71.7 |




## Test Conditions

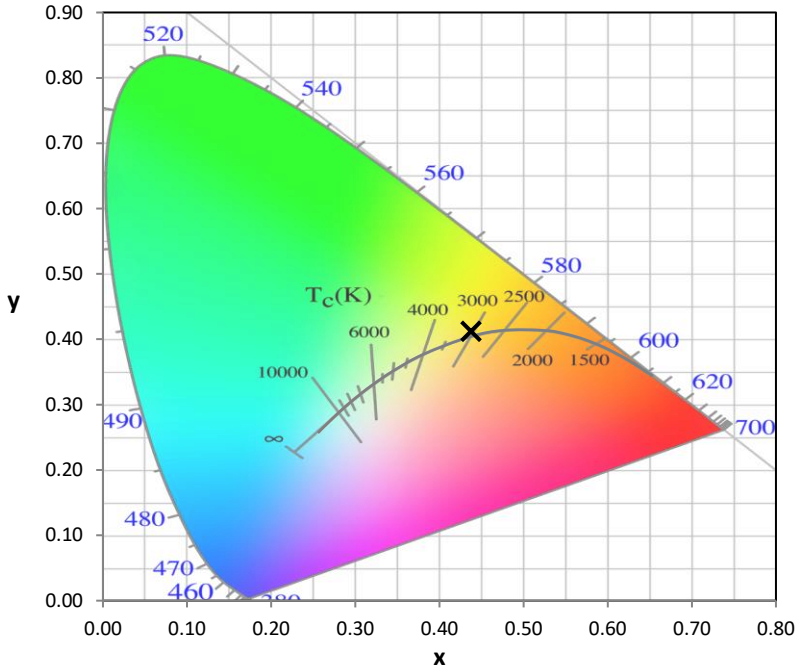
| | |
|---|---|
| Stabilization Time: | 20M |
| Operation Time: | 1H 20M |
| Sphere Temperature (°C): | 25.2 |

REPORT NUMBER: SP1-2407-184-9

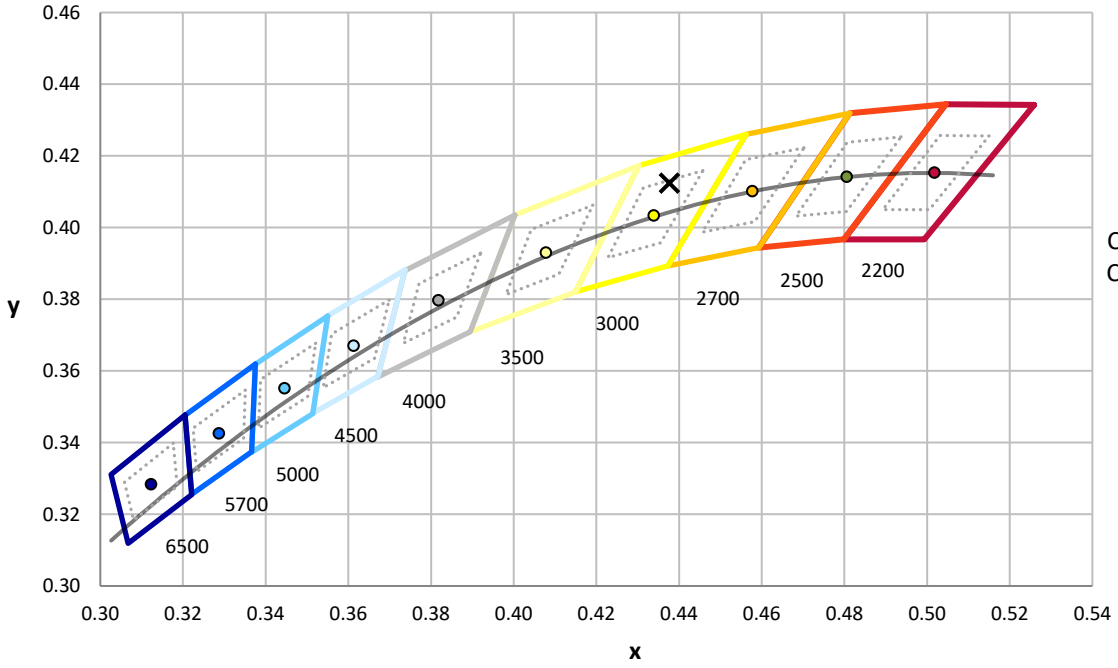
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC 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: SP1-2407-184-9

## CIE 1931 Chromaticity Diagram




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

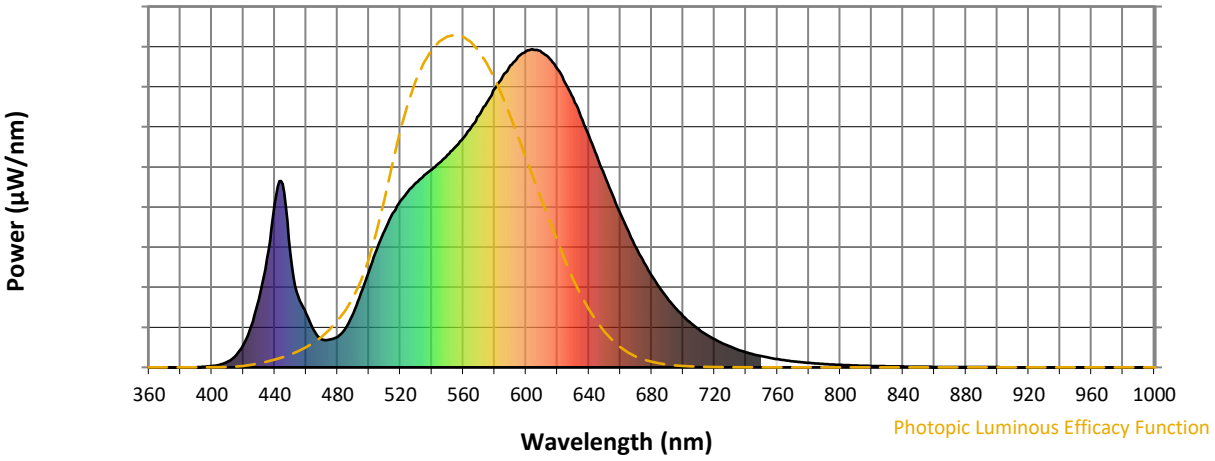



CCT = 3055K
CIE x = 0.4377
CIE y = 0.4124
Duv = 0.0032

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-9

## Photopic Flux vs. Wavelength

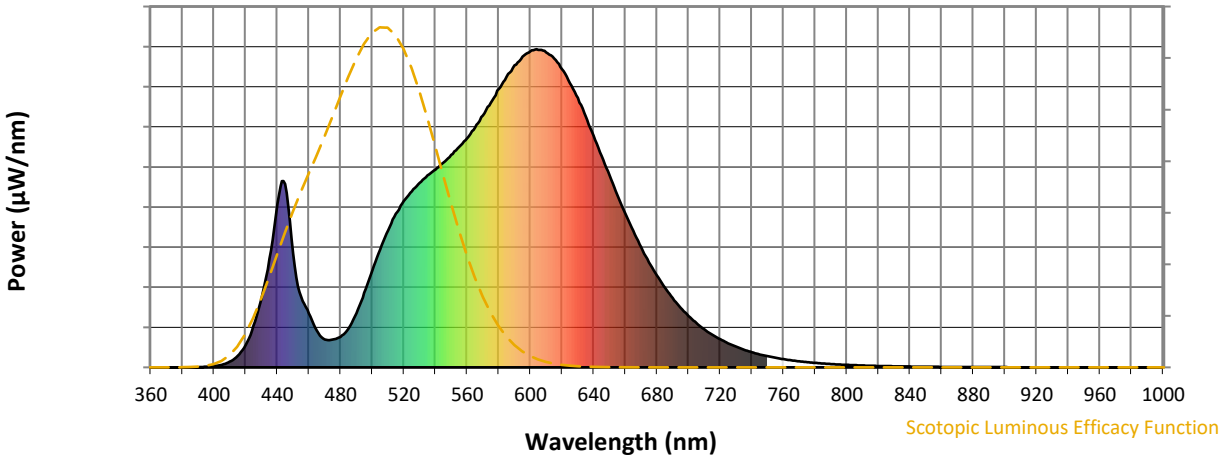



## Photopic Lumens: NR

| 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 | 170 | NR | 620 | 938 | NR | 750 | 35 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 234 | NR | 625 | 894 | NR | 755 | 30 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 302 | NR | 630 | 847 | NR | 760 | 26 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 371 | NR | 635 | 788 | NR | 765 | 22 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 431 | NR | 640 | 728 | NR | 770 | 19 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 482 | NR | 645 | 665 | NR | 775 | 16 | NR | 905 | 1 | NR |
| 390 | 0 | NR | 520 | 523 | NR | 650 | 603 | NR | 780 | 14 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 553 | NR | 655 | 542 | NR | 785 | 12 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 580 | NR | 660 | 484 | NR | 790 | 11 | NR | 920 | 0 | NR |
| 405 | 8 | NR | 535 | 603 | NR | 665 | 430 | NR | 795 | 9 | NR | 925 | 0 | NR |
| 410 | 18 | NR | 540 | 622 | NR | 670 | 377 | NR | 800 | 8 | NR | 930 | 0 | NR |
| 415 | 36 | NR | 545 | 644 | NR | 675 | 330 | NR | 805 | 7 | NR | 935 | 0 | NR |
| 420 | 71 | NR | 550 | 668 | NR | 680 | 289 | NR | 810 | 6 | NR | 940 | 0 | NR |
| 425 | 131 | NR | 555 | 693 | NR | 685 | 250 | NR | 815 | 5 | NR | 945 | 0 | NR |
| 430 | 215 | NR | 560 | 720 | NR | 690 | 218 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 341 | NR | 565 | 754 | NR | 695 | 188 | NR | 825 | 4 | NR | 955 | 0 | NR |
| 440 | 514 | NR | 570 | 792 | NR | 700 | 161 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 576 | NR | 575 | 832 | NR | 705 | 139 | NR | 835 | 3 | NR | 965 | 0 | NR |
| 450 | 358 | NR | 580 | 875 | NR | 710 | 119 | NR | 840 | 3 | NR | 970 | 0 | NR |
| 455 | 222 | NR | 585 | 913 | NR | 715 | 102 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 170 | NR | 590 | 950 | NR | 720 | 88 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 115 | NR | 595 | 977 | NR | 725 | 76 | NR | 855 | 2 | NR | 985 | 0 | NR |
| 470 | 88 | NR | 600 | 994 | NR | 730 | 65 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 87 | NR | 605 | 997 | NR | 735 | 56 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 96 | NR | 610 | 990 | NR | 740 | 47 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 122 | NR | 615 | 971 | NR | 745 | 41 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2407-184-9

## Scotopic Flux vs. Wavelength

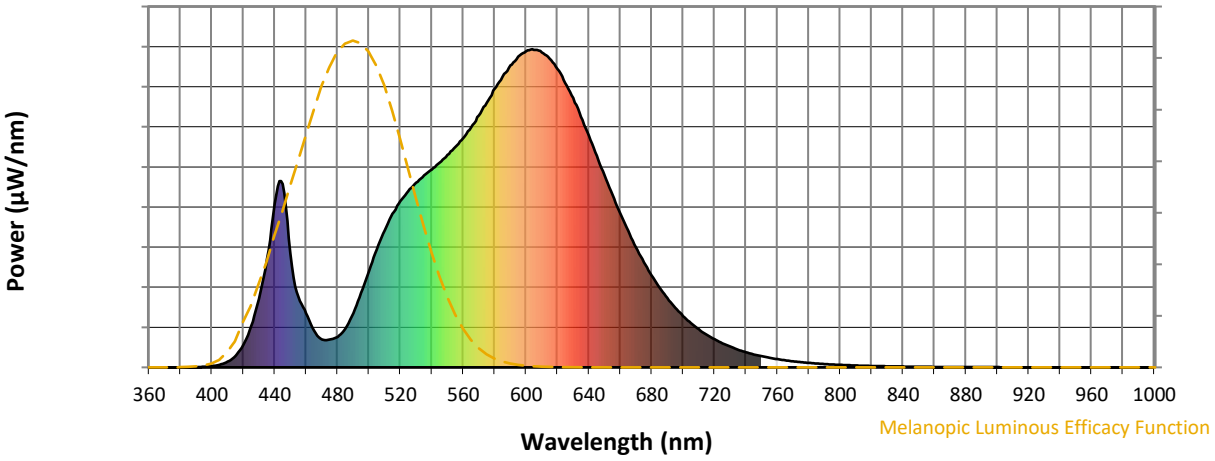



**Scotopic Lumens: NR** **S/P: 1.28**

| 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 | 170 | NR | 620 | 938 | NR | 750 | 35 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 234 | NR | 625 | 894 | NR | 755 | 30 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 302 | NR | 630 | 847 | NR | 760 | 26 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 371 | NR | 635 | 788 | NR | 765 | 22 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 431 | NR | 640 | 728 | NR | 770 | 19 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 482 | NR | 645 | 665 | NR | 775 | 16 | NR | 905 | 1 | NR |
| 390 | 0 | NR | 520 | 523 | NR | 650 | 603 | NR | 780 | 14 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 553 | NR | 655 | 542 | NR | 785 | 12 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 580 | NR | 660 | 484 | NR | 790 | 11 | NR | 920 | 0 | NR |
| 405 | 8 | NR | 535 | 603 | NR | 665 | 430 | NR | 795 | 9 | NR | 925 | 0 | NR |
| 410 | 18 | NR | 540 | 622 | NR | 670 | 377 | NR | 800 | 8 | NR | 930 | 0 | NR |
| 415 | 36 | NR | 545 | 644 | NR | 675 | 330 | NR | 805 | 7 | NR | 935 | 0 | NR |
| 420 | 71 | NR | 550 | 668 | NR | 680 | 289 | NR | 810 | 6 | NR | 940 | 0 | NR |
| 425 | 131 | NR | 555 | 693 | NR | 685 | 250 | NR | 815 | 5 | NR | 945 | 0 | NR |
| 430 | 215 | NR | 560 | 720 | NR | 690 | 218 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 341 | NR | 565 | 754 | NR | 695 | 188 | NR | 825 | 4 | NR | 955 | 0 | NR |
| 440 | 514 | NR | 570 | 792 | NR | 700 | 161 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 576 | NR | 575 | 832 | NR | 705 | 139 | NR | 835 | 3 | NR | 965 | 0 | NR |
| 450 | 358 | NR | 580 | 875 | NR | 710 | 119 | NR | 840 | 3 | NR | 970 | 0 | NR |
| 455 | 222 | NR | 585 | 913 | NR | 715 | 102 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 170 | NR | 590 | 950 | NR | 720 | 88 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 115 | NR | 595 | 977 | NR | 725 | 76 | NR | 855 | 2 | NR | 985 | 0 | NR |
| 470 | 88 | NR | 600 | 994 | NR | 730 | 65 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 87 | NR | 605 | 997 | NR | 735 | 56 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 96 | NR | 610 | 990 | NR | 740 | 47 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 122 | NR | 615 | 971 | NR | 745 | 41 | NR | 875 | 1 | NR | | | |

REPORT NUMBER: SP1-2407-184-9

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 2.33**

| 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 | 170 | NR | 620 | 938 | NR | 750 | 35 | NR | 880 | 1 | NR |
| 365 | 0 | NR | 495 | 234 | NR | 625 | 894 | NR | 755 | 30 | NR | 885 | 1 | NR |
| 370 | 0 | NR | 500 | 302 | NR | 630 | 847 | NR | 760 | 26 | NR | 890 | 1 | NR |
| 375 | 0 | NR | 505 | 371 | NR | 635 | 788 | NR | 765 | 22 | NR | 895 | 1 | NR |
| 380 | 0 | NR | 510 | 431 | NR | 640 | 728 | NR | 770 | 19 | NR | 900 | 1 | NR |
| 385 | 0 | NR | 515 | 482 | NR | 645 | 665 | NR | 775 | 16 | NR | 905 | 1 | NR |
| 390 | 0 | NR | 520 | 523 | NR | 650 | 603 | NR | 780 | 14 | NR | 910 | 0 | NR |
| 395 | 2 | NR | 525 | 553 | NR | 655 | 542 | NR | 785 | 12 | NR | 915 | 0 | NR |
| 400 | 4 | NR | 530 | 580 | NR | 660 | 484 | NR | 790 | 11 | NR | 920 | 0 | NR |
| 405 | 8 | NR | 535 | 603 | NR | 665 | 430 | NR | 795 | 9 | NR | 925 | 0 | NR |
| 410 | 18 | NR | 540 | 622 | NR | 670 | 377 | NR | 800 | 8 | NR | 930 | 0 | NR |
| 415 | 36 | NR | 545 | 644 | NR | 675 | 330 | NR | 805 | 7 | NR | 935 | 0 | NR |
| 420 | 71 | NR | 550 | 668 | NR | 680 | 289 | NR | 810 | 6 | NR | 940 | 0 | NR |
| 425 | 131 | NR | 555 | 693 | NR | 685 | 250 | NR | 815 | 5 | NR | 945 | 0 | NR |
| 430 | 215 | NR | 560 | 720 | NR | 690 | 218 | NR | 820 | 4 | NR | 950 | 0 | NR |
| 435 | 341 | NR | 565 | 754 | NR | 695 | 188 | NR | 825 | 4 | NR | 955 | 0 | NR |
| 440 | 514 | NR | 570 | 792 | NR | 700 | 161 | NR | 830 | 3 | NR | 960 | 0 | NR |
| 445 | 576 | NR | 575 | 832 | NR | 705 | 139 | NR | 835 | 3 | NR | 965 | 0 | NR |
| 450 | 358 | NR | 580 | 875 | NR | 710 | 119 | NR | 840 | 3 | NR | 970 | 0 | NR |
| 455 | 222 | NR | 585 | 913 | NR | 715 | 102 | NR | 845 | 2 | NR | 975 | 0 | NR |
| 460 | 170 | NR | 590 | 950 | NR | 720 | 88 | NR | 850 | 2 | NR | 980 | 0 | NR |
| 465 | 115 | NR | 595 | 977 | NR | 725 | 76 | NR | 855 | 2 | NR | 985 | 0 | NR |
| 470 | 88 | NR | 600 | 994 | NR | 730 | 65 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 87 | NR | 605 | 997 | NR | 735 | 56 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 96 | NR | 610 | 990 | NR | 740 | 47 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 122 | NR | 615 | 971 | NR | 745 | 41 | NR | 875 | 1 | NR | | | |

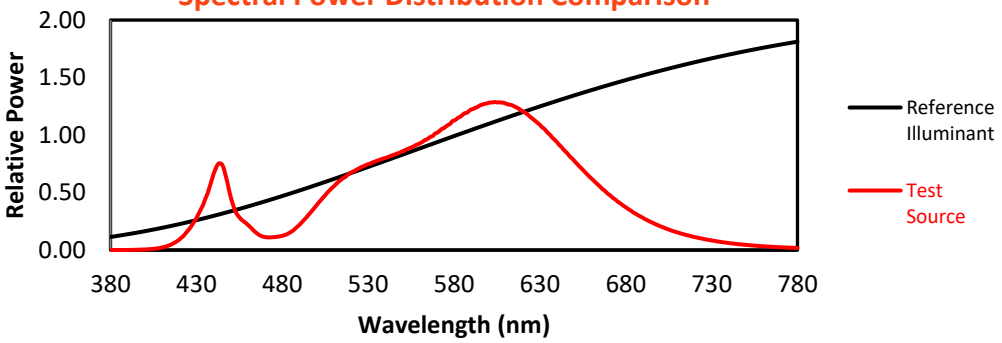
REPORT NUMBER: SP1-2407-184-9

# TM-30-18

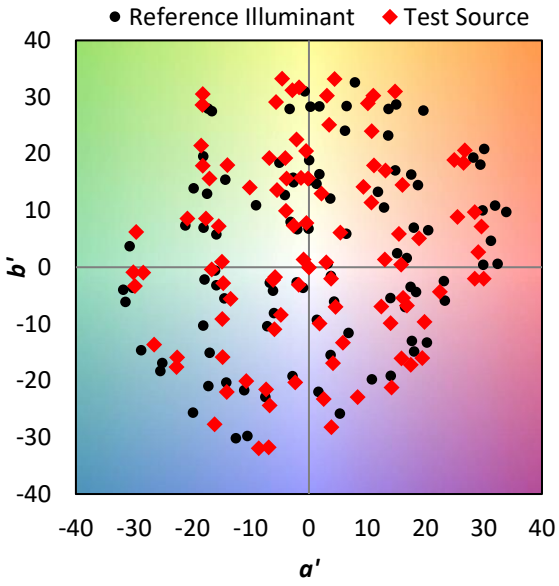
## Summary

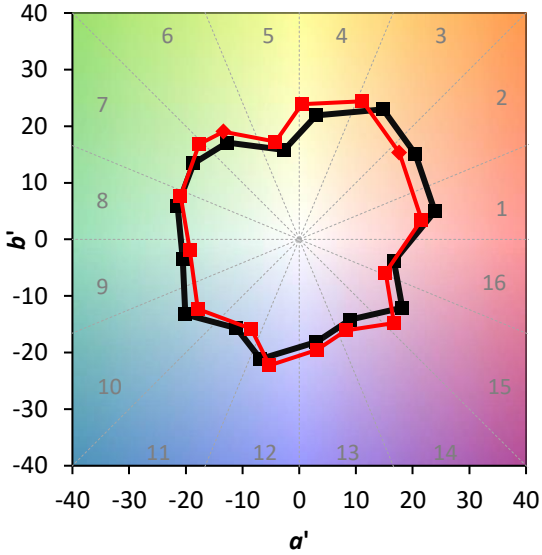
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$R_g$ = 99.2
CIE $R_a$ = 80.9
$R_9$ = 6.8

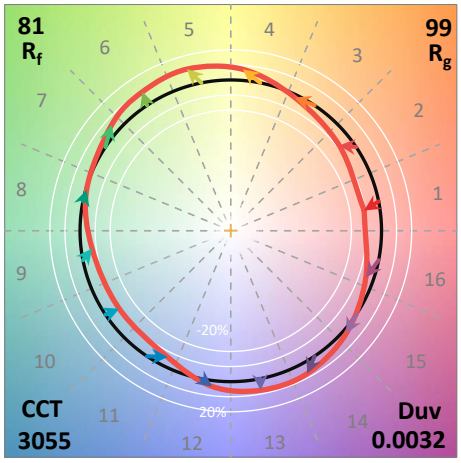
## Spectral Power Distribution Comparison

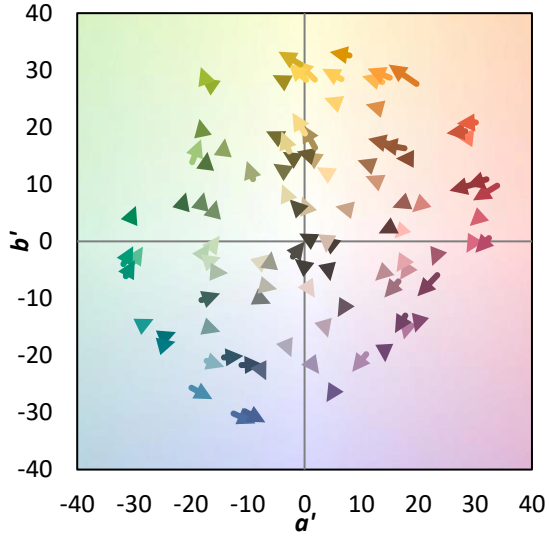



## Color Vector Graphics



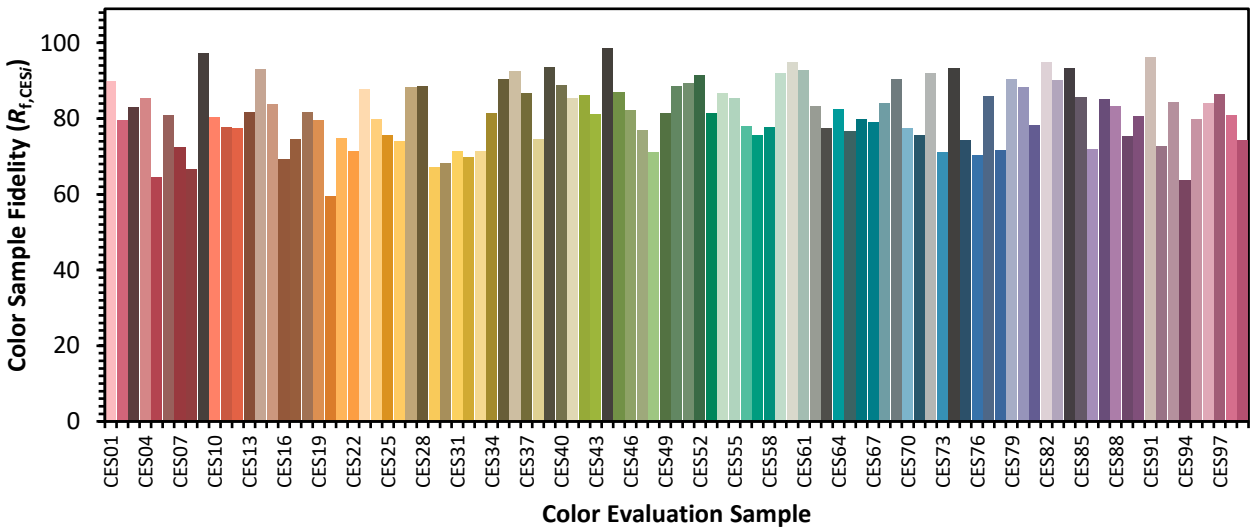



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## Individual Sample Fidelity Index ($R_{f,i}$)

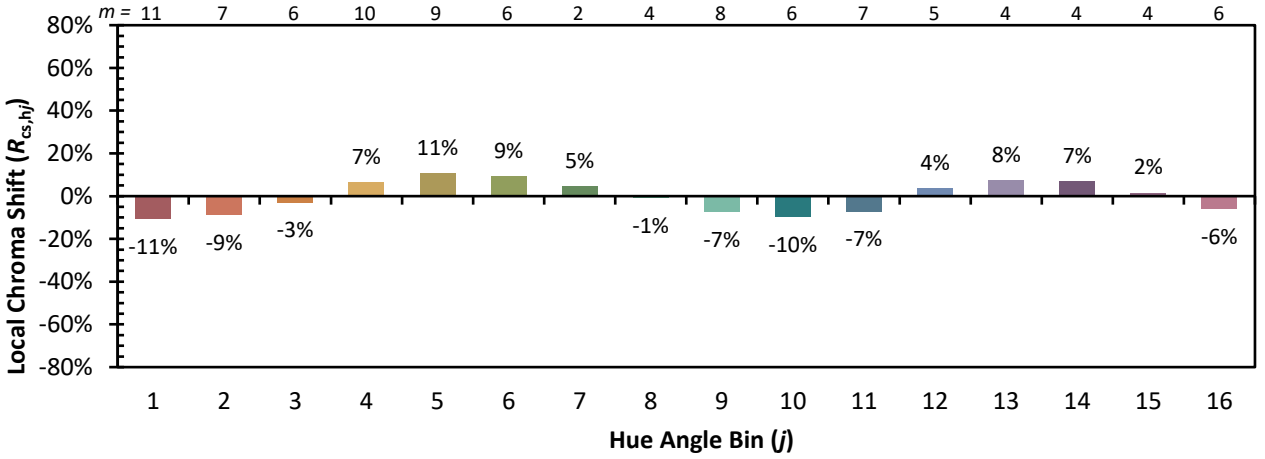
| | | | |
|---|---|---|---|
| CES01 = 86 | CES26 = 74 | CES51 = 89 | CES76 = 70 |
| CES02 = 63 | CES27 = 88 | CES52 = 91 | CES77 = 86 |
| CES03 = 31 | CES28 = 89 | CES53 = 81 | CES78 = 72 |
| CES04 = 70 | CES29 = 67 | CES54 = 87 | CES79 = 90 |
| CES05 = 50 | CES30 = 68 | CES55 = 85 | CES80 = 88 |
| CES06 = 51 | CES31 = 71 | CES56 = 78 | CES81 = 78 |
| CES07 = 42 | CES32 = 70 | CES57 = 76 | CES82 = 95 |
| CES08 = 41 | CES33 = 71 | CES58 = 78 | CES83 = 90 |
| CES09 = 29 | CES34 = 82 | CES59 = 92 | CES84 = 93 |
| CES10 = 76 | CES35 = 90 | CES60 = 95 | CES85 = 86 |
| CES11 = 59 | CES36 = 93 | CES61 = 93 | CES86 = 72 |
| CES12 = 65 | CES37 = 87 | CES62 = 83 | CES87 = 85 |
| CES13 = 43 | CES38 = 75 | CES63 = 77 | CES88 = 83 |
| CES14 = 74 | CES39 = 94 | CES64 = 83 | CES89 = 75 |
| CES15 = 71 | CES40 = 89 | CES65 = 77 | CES90 = 81 |
| CES16 = 47 | CES41 = 85 | CES66 = 80 | CES91 = 96 |
| CES17 = 50 | CES42 = 86 | CES67 = 79 | CES92 = 73 |
| CES18 = 56 | CES43 = 81 | CES68 = 84 | CES93 = 84 |
| CES19 = 72 | CES44 = 99 | CES69 = 90 | CES94 = 64 |
| CES20 = 66 | CES45 = 87 | CES70 = 77 | CES95 = 80 |
| CES21 = 87 | CES46 = 82 | CES71 = 76 | CES96 = 84 |
| CES22 = 79 | CES47 = 77 | CES72 = 92 | CES97 = 87 |
| CES23 = 92 | CES48 = 71 | CES73 = 71 | CES98 = 81 |
| CES24 = 91 | CES49 = 81 | CES74 = 93 | CES99 = 74 |
| CES25 = 72 | CES50 = 89 | CES75 = 74 | |

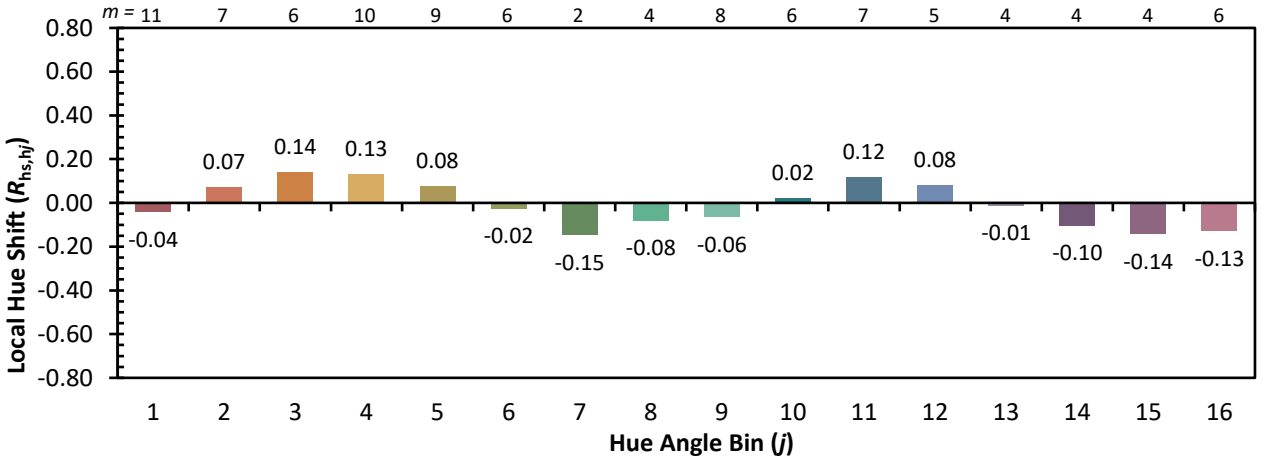


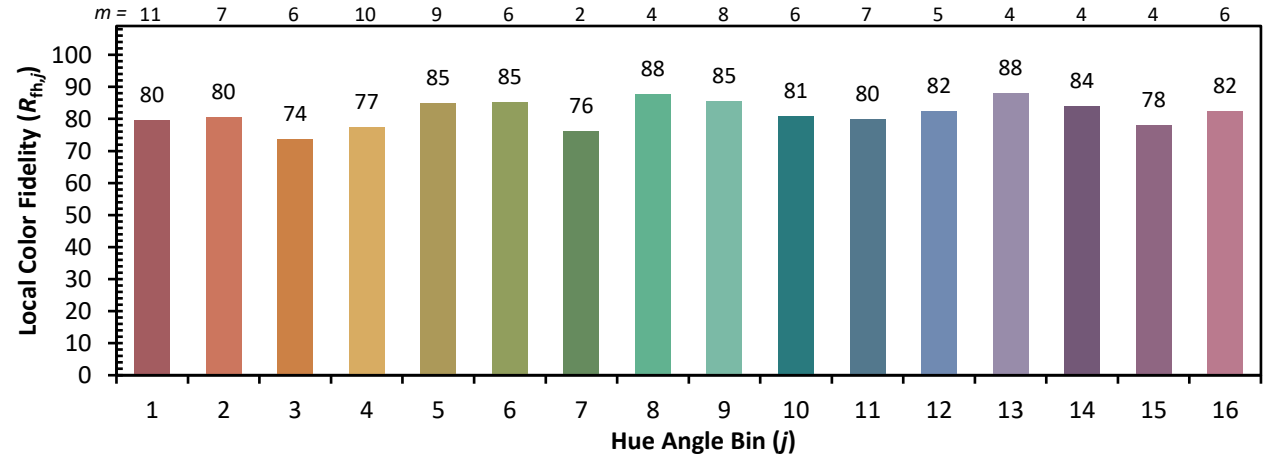
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## Color Rendition by Hue-Angle Bin



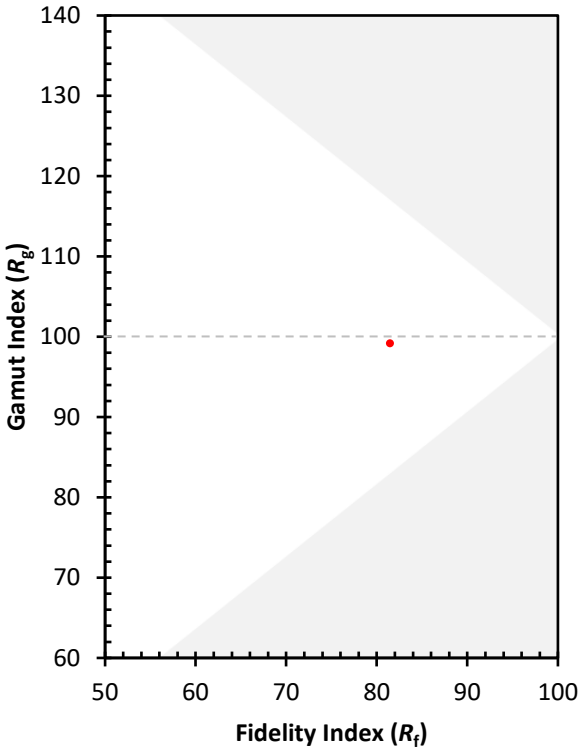



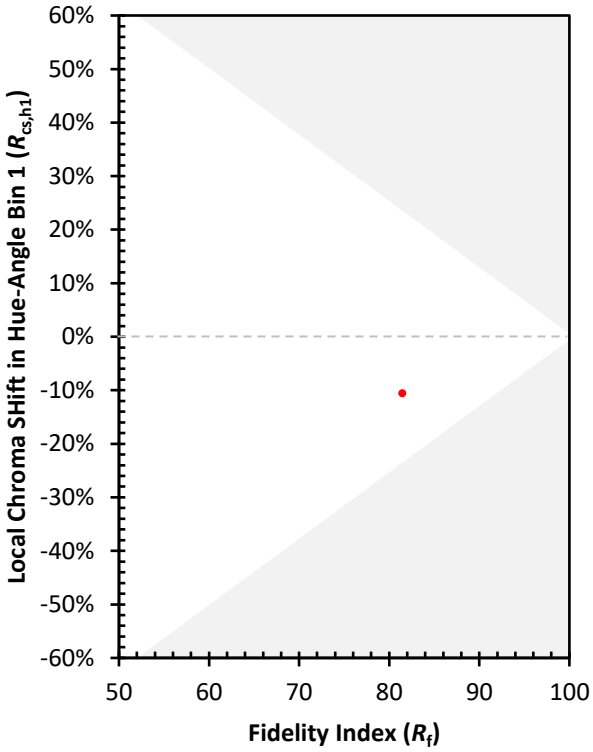



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## Measure Comparisons




(END OF REPORT)