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: P1365164

Luminaire Tested: **GSS-SB4B-850-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: | P1365164 |
| Test Lab: | INNOVATION CENTER(G1) |
| Issue Date: | 02/18/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GSS-SB4B-850-U-SLL |
| Description: | GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 148W 80CRI 5000K FIXTURE w/ 90° Spill Light Eliminator LEFT OPTIC |
| Light Source: | (104) 5000K 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: | 19913.6 lumens |
| Efficiency: | N/A |
| Efficacy: | 134.6 lumens/watt |
| Luminous Opening: | Rectangular (W 1.5' x L: 1' x H: 0') |
| IES Classification: | Type IV - Short |
| BUG Rating: | B3 - U0 - G3 |

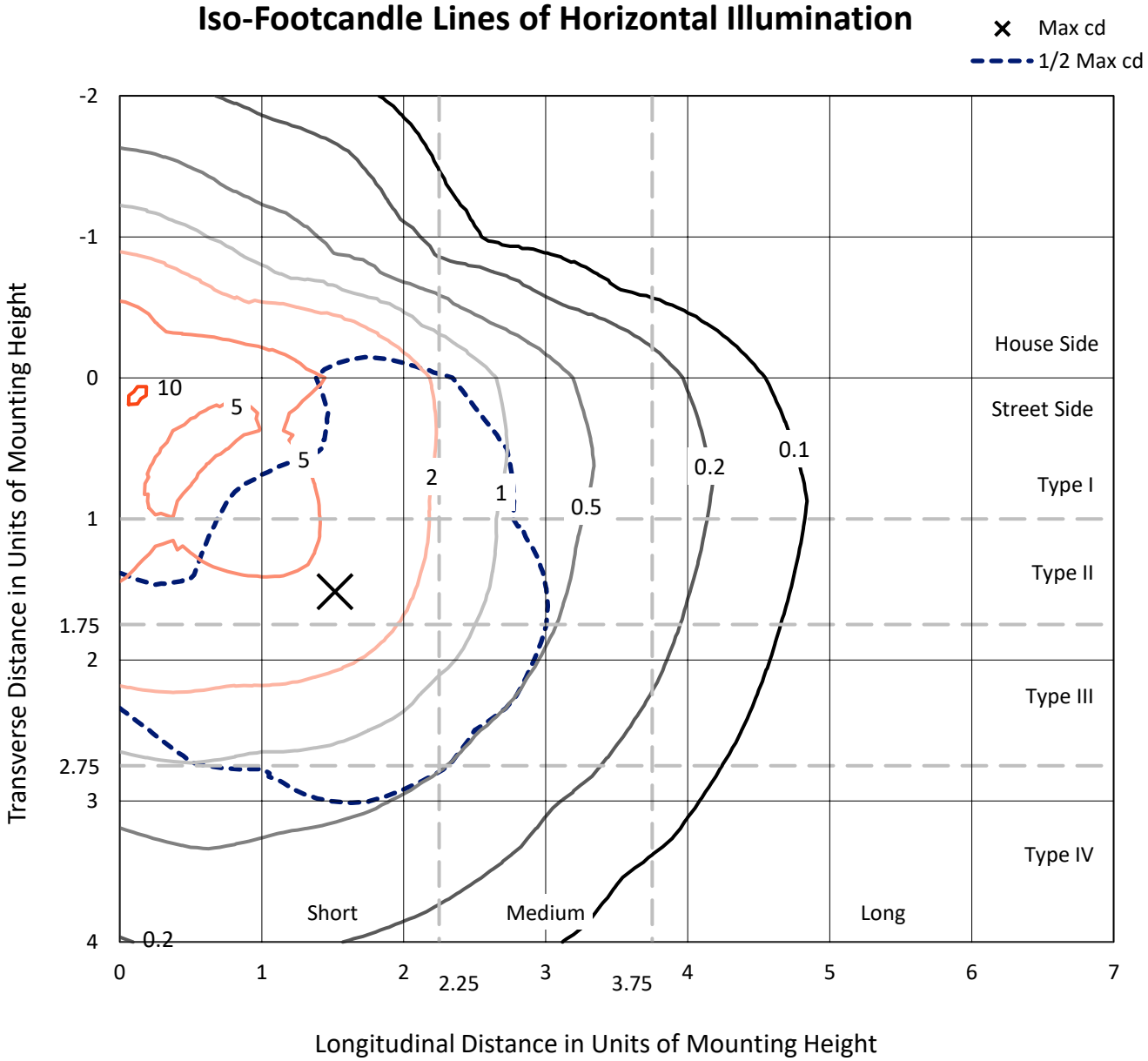
| | |
|---|---|
| Input Watts (W): | 148 |
| Input Voltage (V): | 120 |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | 0.98 |
| Total Harmonic Distortion (THDi): | 13.6% |
| Frequency (hertz): | 60 |
| Stabilization Time: | NR |
| Operation Time: | NR |
| Ambient Temperature (°C): | NR |
| Test Distance: | 28.75 FT |

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## Iso-Footcandle Lines of Horizontal Illumination



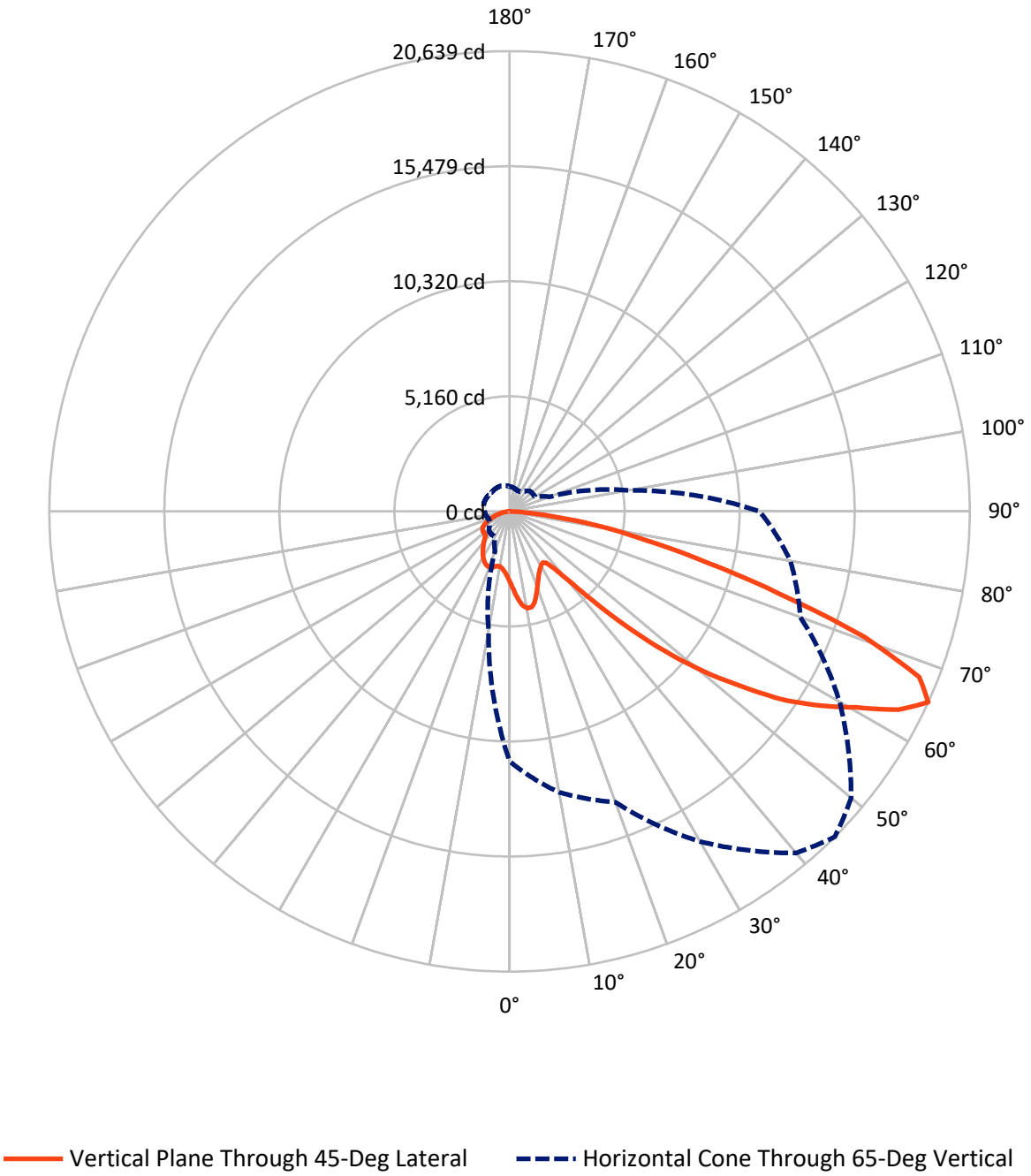

Based on 20 foot mounting height. Maximum calculated value = 10.5 fc
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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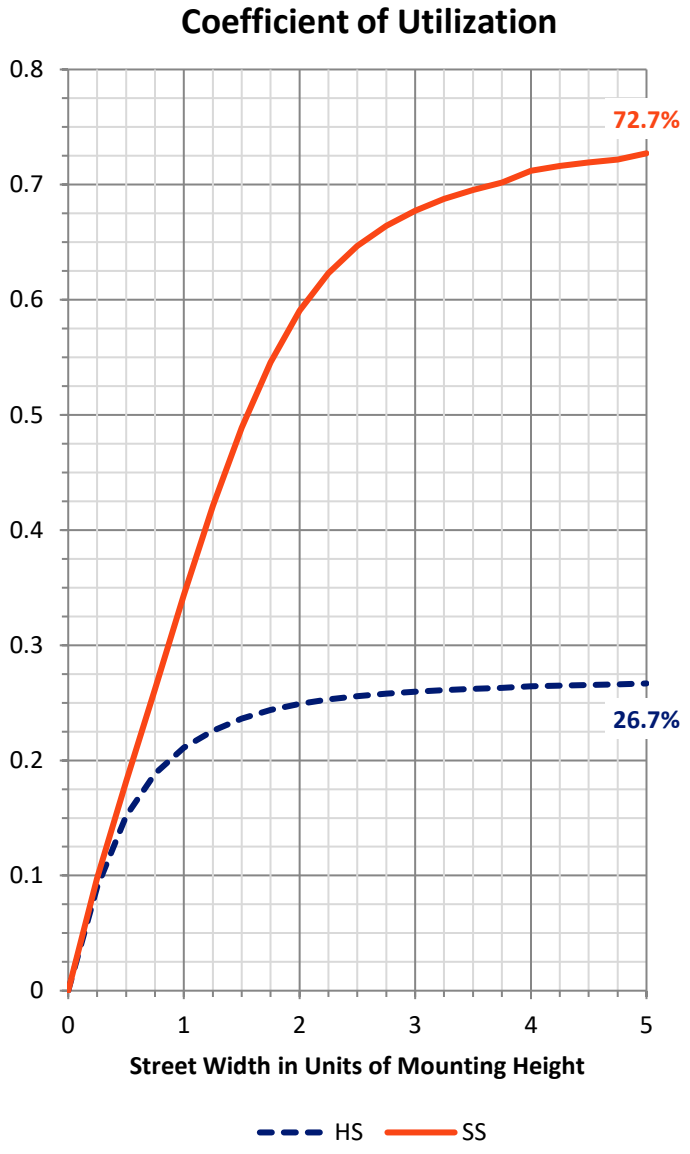
REPORT NUMBER: P1365164
CATALOG NUMBER: GSS-SB4B-850-U-SLL

**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 5357.2 | 0.0 | 5357.2 |
| | % Fixture | 26.9 | 0.0 | 26.9 |
| **Street Side** | Lumens | 14556.4 | 0.0 | 14556.4 |
| | % Fixture | 73.1 | 0.0 | 73.1 |
| **Total** | Lumens | 19913.6 | 0.0 | 19913.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 313.5 | 1.6 |
| 10°-20° | 960.8 | 4.8 |
| 20°-30° | 1487.0 | 7.5 |
| 30°-40° | 1844.9 | 9.3 |
| 40°-50° | 2697.8 | 13.5 |
| 50°-60° | 4225.8 | 21.2 |
| 60°-70° | 5014.2 | 25.2 |
| 70°-80° | 2924.5 | 14.7 |
| 80°-90° | 444.9 | 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° | 19913.6 | 100.0 |
| 0°-180° | 19913.6 | 100.0 |



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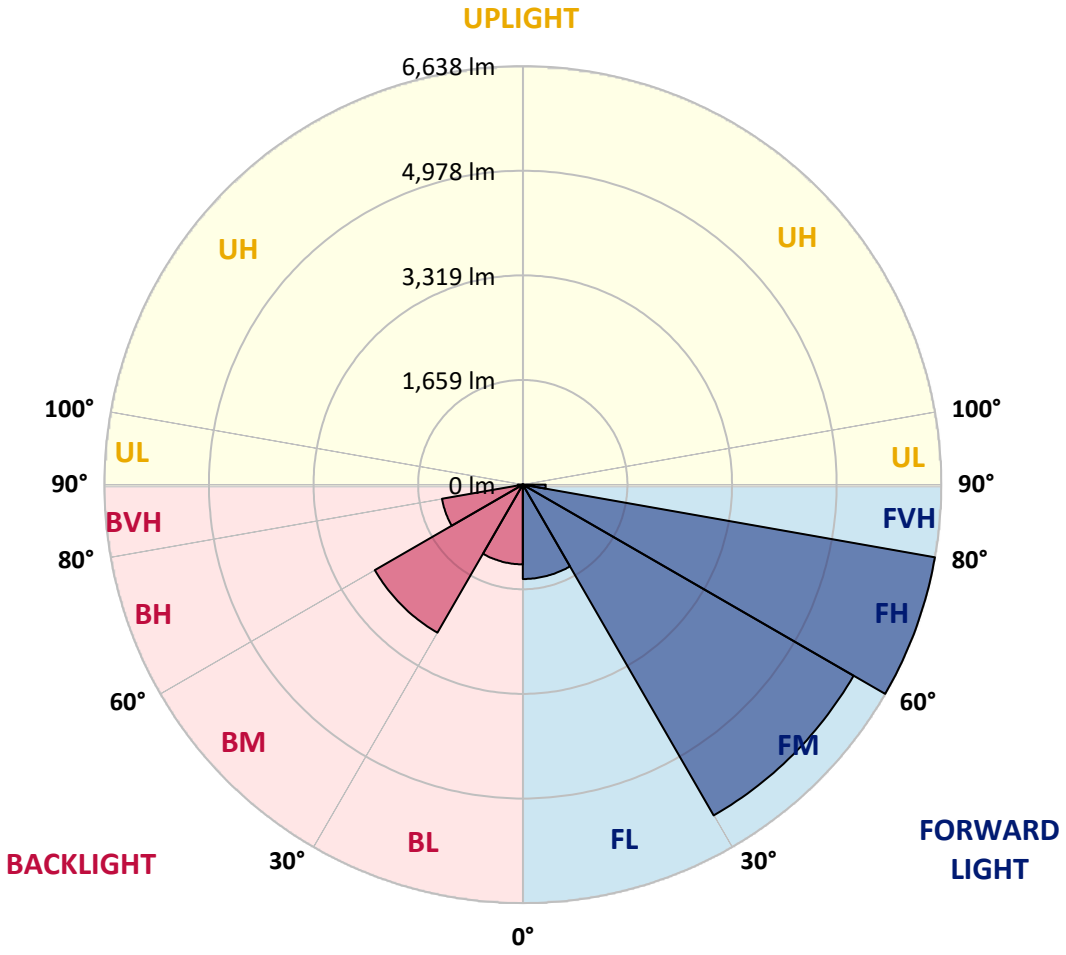
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## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 1496.7 | 7.5 | | | |
| FM | (30°-60°) | 6058.1 | 30.4 | | | |
| FH | (60°-80°) | 6637.7 | 33.3 | | | G3/7500 |
| FVH | (80°-90°) | 363.9 | 1.8 | | | G3/500 |
| BL | (0°-30°) | 1264.7 | 6.4 | B3/2500 | | |
| BM | (30°-60°) | 2710.4 | 13.6 | B3/5000 | | |
| BH | (60°-80°) | 1301.0 | 6.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 81.0 | 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-G3**
Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 | *3175.3* | 3175.3 |
| 2.5° | 3430.9 | 3443.1 | 3455.3 | 3468.4 | 3482.1 | 3489.9 | 3497.6 | 3505.9 | 3513.7 | *3521.0* | 3513.7 |
| 5° | 3664.7 | 3719.7 | 3774.3 | 3811.3 | 3848.3 | 3876.5 | 3904.8 | 3920.9 | 3937.4 | *3939.8* | 3937.4 |
| 7.5° | 3900.9 | 3966.1 | 4031.4 | 4087.9 | 4144.4 | 4180.4 | 4216.5 | 4237.4 | 4258.8 | *4266.1* | 4258.8 |
| 10° | 4049.4 | 4125.9 | 4202.8 | 4257.4 | 4312.4 | 4346.0 | 4379.1 | 4395.7 | 4412.2 | *4417.1* | 4412.2 |
| 12.5° | 4124.9 | 4198.4 | 4272.0 | 4314.4 | 4356.2 | 4377.7 | 4398.6 | 4406.4 | 4413.2 | *4407.4* | 4413.2 |
| 15° | 4161.4 | 4204.8 | 4247.6 | 4265.7 | 4283.2 | 4273.0 | 4262.2 | 4247.1 | 4232.0 | *4222.3* | 4232.0 |
| 17.5° | 4171.2 | 4186.3 | 4201.9 | 4169.2 | 4137.1 | 4078.6 | 4020.2 | 3976.4 | 3932.5 | *3900.9* | 3932.5 |
| 20° | 4202.8 | 4178.5 | 4154.1 | 4067.4 | 3981.2 | 3871.7 | 3762.1 | 3688.6 | 3614.5 | *3569.7* | 3614.5 |
| 22.5° | 4236.9 | 4168.3 | 4099.6 | 3954.0 | 3808.4 | 3658.4 | 3508.9 | 3424.1 | 3339.9 | *3292.1* | 3339.9 |
| 25° | 4290.5 | 4172.6 | 4054.3 | 3857.5 | 3661.3 | 3485.0 | 3309.2 | 3217.1 | 3125.6 | *3073.0* | 3125.6 |
| 27.5° | 4368.4 | 4188.2 | 4008.0 | 3764.5 | 3521.0 | 3330.1 | 3138.7 | 3051.1 | 2963.4 | *2917.1* | 2963.4 |
| 30° | 4478.0 | 4238.9 | 3999.3 | 3708.0 | 3416.3 | 3216.6 | 3017.0 | 2931.3 | 2845.1 | *2795.4* | 2845.1 |
| 32.5° | 4611.9 | 4310.0 | 4008.0 | 3681.7 | 3355.4 | 3151.9 | 2948.8 | 2866.5 | 2784.7 | *2741.8* | 2784.7 |
| 35° | 4838.4 | 4456.1 | 4073.8 | 3711.9 | 3350.6 | 3161.6 | 2973.1 | 2912.8 | 2852.9 | *2829.5* | 2852.9 |
| 37.5° | 5125.7 | 4679.1 | 4232.0 | 3859.5 | 3486.9 | 3358.4 | 3229.8 | 3229.8 | 3229.8 | *3248.3* | 3229.8 |
| 40° | 5549.4 | 5047.8 | 4546.2 | 4193.6 | 3841.5 | 3833.7 | 3826.9 | 3908.7 | 3991.0 | *4027.5* | 3991.0 |
| 42.5° | 6143.5 | 5613.2 | 5083.3 | 4798.9 | 4514.5 | 4685.0 | 4855.4 | 5092.1 | 5328.8 | *5483.6* | 5328.8 |
| 45° | 6881.3 | 6365.1 | 5848.9 | 5650.2 | 5452.0 | 5831.4 | 6210.3 | 6628.6 | 7046.9 | *7344.0* | 7046.9 |
| 47.5° | 7587.5 | 7153.1 | 6718.2 | 6604.7 | 6491.7 | 7122.4 | 7753.1 | 8366.2 | 8979.3 | *9340.7* | 8979.3 |
| 50° | 8405.7 | 8015.1 | 7624.0 | 7602.1 | 7580.2 | 8420.3 | 9260.3 | 10051.7 | 10843.1 | *11283.8* | 10843.1 |
| 52.5° | 9455.1 | 9026.1 | 8596.6 | 8614.1 | 8630.7 | 9628.5 | 10626.4 | 11583.3 | 12540.3 | *13037.0* | 12540.3 |
| 55° | 10709.2 | 10171.0 | 9632.9 | 9630.0 | 9627.1 | 10773.5 | 11920.8 | 13096.5 | 14273.1 | *14936.4* | 14273.1 |
| 57.5° | 11987.6 | 11483.5 | 10979.5 | 10859.7 | 10739.4 | 11938.4 | 13136.9 | 14435.2 | 15734.1 | *16431.5* | 15734.1 |
| 60° | 12947.0 | 12669.4 | 12391.8 | 12199.9 | 12008.5 | 13239.6 | 14471.3 | 15812.5 | 17153.2 | *17848.6* | 17153.2 |
| 62.5° | 12550.0 | 13046.3 | 13542.6 | 13528.4 | 13514.3 | 14843.3 | 16172.4 | 17567.1 | 18962.9 | *19587.2* | 18962.9 |
| 65° | *11210.8* | *12002.2* | *12793.5* | *13338.0* | *13882.0* | *15488.6* | *17094.7* | *18548.0* | *20001.2* | *20639.1* | *20001.2* |
| 67.5° | 9954.3 | 10651.7 | 11349.6 | 11795.2 | 12240.8 | 14051.0 | 15861.7 | 17510.6 | 19159.6 | *19816.1* | 19159.6 |
| 70° | 8751.4 | 9523.8 | 10296.2 | 10614.7 | 10933.2 | 12471.2 | 14008.6 | 15313.3 | 16617.5 | *16874.6* | 16617.5 |
| 72.5° | 7512.0 | 8430.5 | 9349.5 | 9484.4 | 9619.3 | 10738.4 | 11857.5 | 12552.5 | 13247.4 | *12686.4* | 13247.4 |
| 75° | 6150.8 | 7187.2 | 8223.0 | 8313.1 | 8403.2 | 8751.9 | 9101.1 | 9277.9 | 9455.1 | *9136.2* | 9455.1 |
| 77.5° | 4090.8 | 4987.9 | 5885.4 | 6087.5 | 6289.6 | 6521.9 | 6754.7 | 6742.5 | 6730.4 | *6282.3* | 6730.4 |
| 80° | 2400.9 | 3102.7 | 3804.5 | 3830.8 | 3857.1 | 4031.4 | 4205.3 | 4383.0 | 4560.8 | *4275.9* | 4560.8 |
| 82.5° | 1200.5 | 1585.7 | 1971.4 | 2030.8 | 2090.2 | 2196.9 | 2303.5 | 2353.2 | 2403.4 | *2162.3* | 2403.4 |
| 85° | 272.7 | 373.0 | 473.4 | 570.3 | 667.2 | 779.2 | 891.2 | 878.6 | 865.9 | *730.5* | 865.9 |
| 87.5° | 21.9 | 22.4 | 23.4 | 23.9 | 24.4 | 24.8 | 25.3 | 26.8 | 28.2 | *29.2* | 28.2 |
| 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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REPORT NUMBER: P1365164
CATALOG NUMBER: GSS-SB4B-850-U-SLL

**CANDELA DISTRIBUTION (continued):**

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 |
| 2.5° | 3505.9 | 3497.6 | 3489.9 | 3482.1 | 3468.4 | 3455.3 | 3443.1 | 3430.9 | 3399.8 | 3369.1 | 3340.8 |
| 5° | 3920.9 | 3904.8 | 3876.5 | 3848.3 | 3811.3 | 3774.3 | 3719.7 | 3664.7 | 3609.7 | 3555.1 | 3497.6 |
| 7.5° | 4237.4 | 4216.5 | 4180.4 | 4144.4 | 4087.9 | 4031.4 | 3966.1 | 3900.9 | 3808.4 | 3715.8 | 3628.7 |
| 10° | 4395.7 | 4379.1 | 4346.0 | 4312.4 | 4257.4 | 4202.8 | 4125.9 | 4049.4 | 3938.9 | 3827.8 | 3719.7 |
| 12.5° | 4406.4 | 4398.6 | 4377.7 | 4356.2 | 4314.4 | 4272.0 | 4198.4 | 4124.9 | 4014.8 | 3904.8 | 3783.5 |
| 15° | 4247.1 | 4262.2 | 4273.0 | 4283.2 | 4265.7 | 4247.6 | 4204.8 | 4161.4 | 4049.9 | 3938.9 | 3815.7 |
| 17.5° | 3976.4 | 4020.2 | 4078.6 | 4137.1 | 4169.2 | 4201.9 | 4186.3 | 4171.2 | 4067.0 | 3963.2 | 3831.7 |
| 20° | 3688.6 | 3762.1 | 3871.7 | 3981.2 | 4067.4 | 4154.1 | 4178.5 | 4202.8 | 4097.6 | 3992.4 | 3851.2 |
| 22.5° | 3424.1 | 3508.9 | 3658.4 | 3808.4 | 3954.0 | 4099.6 | 4168.3 | 4236.9 | 4140.5 | 4044.6 | 3889.2 |
| 25° | 3217.1 | 3309.2 | 3485.0 | 3661.3 | 3857.5 | 4054.3 | 4172.6 | 4290.5 | 4207.2 | 4123.9 | 3954.5 |
| 27.5° | 3051.1 | 3138.7 | 3330.1 | 3521.0 | 3764.5 | 4008.0 | 4188.2 | 4368.4 | 4304.6 | 4240.8 | 4049.9 |
| 30° | 2931.3 | 3017.0 | 3216.6 | 3416.3 | 3708.0 | 3999.3 | 4238.9 | 4478.0 | 4427.8 | 4378.1 | 4162.9 |
| 32.5° | 2866.5 | 2948.8 | 3151.9 | 3355.4 | 3681.7 | 4008.0 | 4310.0 | 4611.9 | 4580.7 | 4549.6 | 4295.8 |
| 35° | 2912.8 | 2973.1 | 3161.6 | 3350.6 | 3711.9 | 4073.8 | 4456.1 | 4838.4 | 4799.4 | 4760.4 | 4437.1 |
| 37.5° | 3229.8 | 3229.8 | 3358.4 | 3486.9 | 3859.5 | 4232.0 | 4679.1 | 5125.7 | 5079.4 | 5033.2 | 4609.5 |
| 40° | 3908.7 | 3826.9 | 3833.7 | 3841.5 | 4193.6 | 4546.2 | 5047.8 | 5549.4 | 5458.3 | 5366.8 | 4806.7 |
| 42.5° | 5092.1 | 4855.4 | 4685.0 | 4514.5 | 4798.9 | 5083.3 | 5613.2 | 6143.5 | 5950.7 | 5757.3 | 5024.9 |
| 45° | 6628.6 | 6210.3 | 5831.4 | 5452.0 | 5650.2 | 5848.9 | 6365.1 | 6881.3 | 6572.1 | 6262.8 | 5321.0 |
| 47.5° | 8366.2 | 7753.1 | 7122.4 | 6491.7 | 6604.7 | 6718.2 | 7153.1 | 7587.5 | 7195.9 | 6804.4 | 5625.4 |
| 50° | 10051.7 | 9260.3 | 8420.3 | 7580.2 | 7602.1 | 7624.0 | 8015.1 | 8405.7 | 7874.8 | 7344.0 | 5890.8 |
| 52.5° | 11583.3 | 10626.4 | 9628.5 | 8630.7 | 8614.1 | 8596.6 | 9026.1 | 9455.1 | 8612.1 | 7768.7 | 6016.4 |
| 55° | 13096.5 | 11920.8 | 10773.5 | 9627.1 | 9630.0 | 9632.9 | 10171.0 | 10709.2 | 9352.9 | 7996.6 | 5983.3 |
| 57.5° | 14435.2 | 13136.9 | 11938.4 | 10739.4 | 10859.7 | 10979.5 | 11483.5 | 11987.6 | 9974.8 | 7962.5 | 5802.6 |
| 60° | 15812.5 | 14471.3 | 13239.6 | 12008.5 | 12199.9 | 12391.8 | 12669.4 | 12947.0 | 10253.3 | 7559.2 | 5369.7 |
| 62.5° | 17567.1 | 16172.4 | 14843.3 | 13514.3 | 13528.4 | 13542.6 | 13046.3 | 12550.0 | 9635.3 | 6720.6 | 4660.1 |
| 65° | *18548.0* | *17094.7* | *15488.6* | *13882.0* | *13338.0* | *12793.5* | *12002.2* | *11210.8* | *8310.7* | *5410.6* | *3655.4* |
| 67.5° | 17510.6 | 15861.7 | 14051.0 | 12240.8 | 11795.2 | 11349.6 | 10651.7 | 9954.3 | 7137.5 | 4320.7 | 2844.6 |
| 70° | 15313.3 | 14008.6 | 12471.2 | 10933.2 | 10614.7 | 10296.2 | 9523.8 | 8751.4 | 6063.7 | 3375.9 | 2179.8 |
| 72.5° | 12552.5 | 11857.5 | 10738.4 | 9619.3 | 9484.4 | 9349.5 | 8430.5 | 7512.0 | 5035.1 | 2557.7 | 1638.8 |
| 75° | 9277.9 | 9101.1 | 8751.9 | 8403.2 | 8313.1 | 8223.0 | 7187.2 | 6150.8 | 4020.2 | 1889.6 | 1214.6 |
| 77.5° | 6742.5 | 6754.7 | 6521.9 | 6289.6 | 6087.5 | 5885.4 | 4987.9 | 4090.8 | 2637.6 | 1184.4 | 785.0 |
| 80° | 4383.0 | 4205.3 | 4031.4 | 3857.1 | 3830.8 | 3804.5 | 3102.7 | 2400.9 | 1512.1 | 623.4 | 433.9 |
| 82.5° | 2353.2 | 2303.5 | 2196.9 | 2090.2 | 2030.8 | 1971.4 | 1585.7 | 1200.5 | 757.8 | 315.6 | 233.3 |
| 85° | 878.6 | 891.2 | 779.2 | 667.2 | 570.3 | 473.4 | 373.0 | 272.7 | 180.2 | 87.7 | 74.0 |
| 87.5° | 26.8 | 25.3 | 24.8 | 24.4 | 23.9 | 23.4 | 22.4 | 21.9 | 21.4 | 20.5 | 20.0 |
| 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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CATALOG NUMBER: GSS-SB4B-850-U-SLL

**CANDELA DISTRIBUTION (continued):**

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 |
| 2.5° | 3312.6 | 3284.3 | 3255.6 | 3228.3 | 3200.6 | 3172.8 | 3148.5 | 3122.2 | 3096.4 | 3075.9 | 3055.9 |
| 5° | 3440.7 | 3384.7 | 3328.7 | 3275.6 | 3223.0 | 3167.9 | 3120.7 | 3074.0 | 3028.2 | 2990.2 | 2952.2 |
| 7.5° | 3541.5 | 3463.6 | 3385.6 | 3316.0 | 3245.9 | 3172.8 | 3115.8 | 3058.9 | 3002.4 | 2953.2 | 2903.5 |
| 10° | 3611.1 | 3515.2 | 3418.8 | 3338.4 | 3258.0 | 3180.1 | 3119.2 | 3059.3 | 2999.9 | 2949.3 | 2898.6 |
| 12.5° | 3662.3 | 3554.6 | 3447.0 | 3358.4 | 3270.2 | 3185.0 | 3125.6 | 3075.9 | 3026.7 | 2991.2 | 2956.1 |
| 15° | 3692.5 | 3576.5 | 3460.1 | 3360.3 | 3260.5 | 3165.5 | 3112.9 | 3080.8 | 3048.6 | 3045.7 | 3042.8 |
| 17.5° | 3700.2 | 3567.8 | 3435.8 | 3319.4 | 3203.5 | 3092.5 | 3047.7 | 3043.3 | 3038.9 | 3087.1 | 3135.3 |
| 20° | 3710.0 | 3554.6 | 3399.3 | 3246.4 | 3093.4 | 2946.4 | 2918.1 | 2945.9 | 2973.1 | 3067.6 | 3161.6 |
| 22.5° | 3734.3 | 3544.4 | 3354.5 | 3162.6 | 2970.7 | 2795.4 | 2768.6 | 2809.5 | 2849.9 | 2973.1 | 3096.4 |
| 25° | 3785.0 | 3543.4 | 3301.9 | 3062.8 | 2823.6 | 2622.5 | 2620.1 | 2664.4 | 2708.7 | 2822.7 | 2936.6 |
| 27.5° | 3859.5 | 3552.7 | 3245.9 | 2960.5 | 2674.6 | 2469.1 | 2481.3 | 2523.6 | 2566.5 | 2651.2 | 2736.0 |
| 30° | 3947.2 | 3572.6 | 3198.6 | 2871.4 | 2544.6 | 2344.9 | 2358.1 | 2391.2 | 2424.3 | 2485.7 | 2547.0 |
| 32.5° | 4042.1 | 3595.0 | 3148.5 | 2793.4 | 2438.9 | 2254.8 | 2254.8 | 2268.9 | 2283.1 | 2323.0 | 2362.9 |
| 35° | 4114.2 | 3589.7 | 3065.7 | 2704.8 | 2343.5 | 2201.2 | 2171.1 | 2159.4 | 2147.7 | 2174.0 | 2200.3 |
| 37.5° | 4185.8 | 3574.6 | 2963.4 | 2606.4 | 2249.9 | 2137.9 | 2080.5 | 2049.3 | 2017.2 | 2029.8 | 2041.5 |
| 40° | 4246.7 | 3540.5 | 2834.4 | 2489.1 | 2143.8 | 2055.1 | 1983.1 | 1936.3 | 1889.6 | 1888.6 | 1887.1 |
| 42.5° | 4291.5 | 3481.6 | 2671.2 | 2349.3 | 2026.9 | 1965.1 | 1875.9 | 1816.5 | 1757.1 | 1750.8 | 1744.4 |
| 45° | 4379.1 | 3441.2 | 2503.2 | 2207.1 | 1911.5 | 1855.5 | 1766.8 | 1705.5 | 1645.1 | 1635.4 | 1625.6 |
| 47.5° | 4446.3 | 3393.9 | 2341.5 | 2065.9 | 1791.2 | 1726.4 | 1643.6 | 1591.5 | 1538.9 | 1533.1 | 1526.8 |
| 50° | 4437.6 | 3313.6 | 2189.1 | 1940.2 | 1690.9 | 1602.2 | 1520.4 | 1477.6 | 1434.2 | 1441.5 | 1448.8 |
| 52.5° | 4263.7 | 3149.0 | 2034.7 | 1827.2 | 1620.7 | 1507.3 | 1419.6 | 1387.5 | 1354.8 | 1377.7 | 1400.1 |
| 55° | 3970.0 | 2930.8 | 1890.5 | 1732.8 | 1574.0 | 1461.0 | 1357.8 | 1321.7 | 1285.7 | 1317.8 | 1350.0 |
| 57.5° | 3642.8 | 2702.4 | 1762.0 | 1652.9 | 1543.8 | 1448.8 | 1322.2 | 1271.6 | 1221.4 | 1253.5 | 1285.7 |
| 60° | 3180.1 | 2413.6 | 1647.0 | 1570.6 | 1494.1 | 1419.6 | 1293.0 | 1229.7 | 1166.4 | 1187.8 | 1208.7 |
| 62.5° | 2599.6 | 2047.4 | 1495.1 | 1452.2 | 1409.9 | 1378.2 | 1257.4 | 1174.6 | 1091.9 | 1094.8 | 1096.7 |
| 65° | *1900.3* | *1609.1* | *1317.3* | *1308.1* | *1299.3* | *1290.6* | *1190.7* | *1101.6* | *1013.0* | *1003.2* | *993.5* |
| 67.5° | 1368.5 | 1230.2 | 1091.9 | 1117.7 | 1143.5 | 1156.6 | 1088.4 | 1010.0 | 931.1 | 911.2 | 891.2 |
| 70° | 983.7 | 935.0 | 886.3 | 924.8 | 963.3 | 959.4 | 926.3 | 879.5 | 832.8 | 820.1 | 807.4 |
| 72.5° | 719.8 | 718.8 | 718.3 | 747.5 | 776.8 | 737.8 | 758.7 | 748.0 | 737.8 | 728.6 | 719.8 |
| 75° | 539.6 | 536.2 | 533.3 | 567.8 | 602.9 | 618.5 | 632.1 | 626.3 | 620.9 | 614.1 | 607.8 |
| 77.5° | 385.7 | 388.6 | 390.6 | 428.6 | 466.5 | 511.4 | 513.8 | 501.1 | 488.0 | 481.2 | 473.4 |
| 80° | 244.5 | 247.4 | 249.3 | 289.3 | 328.7 | 392.0 | 389.6 | 374.0 | 357.9 | 352.6 | 346.7 |
| 82.5° | 151.0 | 151.5 | 151.9 | 171.4 | 190.9 | 226.5 | 236.2 | 236.2 | 236.2 | 232.8 | 228.9 |
| 85° | 60.9 | 63.8 | 67.2 | 79.9 | 92.5 | 112.0 | 117.9 | 118.8 | 119.3 | 114.0 | 108.1 |
| 87.5° | 19.5 | 20.5 | 21.9 | 24.4 | 26.8 | 29.2 | 34.1 | 37.0 | 39.9 | 42.9 | 44.8 |
| 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: P1365164
CATALOG NUMBER: GSS-SB4B-850-U-SLL

**CANDELA DISTRIBUTION (continued):**

| | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 |
| 2.5° | 3038.4 | 3020.4 | 2999.4 | 2978.0 | 2962.9 | 2947.3 | 2937.1 | 2926.9 | 2922.0 | 2917.1 | 2913.2 |
| 5° | 2921.0 | 2888.9 | 2860.7 | 2831.9 | 2809.5 | 2786.6 | 2768.1 | 2749.1 | 2741.3 | 2733.1 | 2727.7 |
| 7.5° | 2861.6 | 2819.7 | 2784.7 | 2749.1 | 2715.5 | 2682.4 | 2661.0 | 2639.6 | 2626.9 | 2614.2 | 2605.0 |
| 10° | 2854.3 | 2810.0 | 2763.7 | 2717.5 | 2680.5 | 2643.4 | 2611.3 | 2580.1 | 2562.1 | 2544.6 | 2534.8 |
| 12.5° | 2915.2 | 2874.3 | 2819.3 | 2763.7 | 2713.6 | 2663.9 | 2624.5 | 2585.0 | 2562.6 | 2541.2 | 2526.6 |
| 15° | 3028.7 | 3014.5 | 2963.4 | 2912.3 | 2843.1 | 2773.5 | 2717.0 | 2660.0 | 2628.8 | 2596.7 | 2578.7 |
| 17.5° | 3163.1 | 3190.8 | 3155.3 | 3119.2 | 3021.8 | 2924.4 | 2840.2 | 2756.4 | 2710.7 | 2664.9 | 2648.8 |
| 20° | 3236.6 | 3311.6 | 3307.7 | 3304.3 | 3177.2 | 3049.6 | 2939.1 | 2828.5 | 2767.1 | 2706.8 | 2682.4 |
| 22.5° | 3204.5 | 3312.6 | 3340.3 | 3367.6 | 3242.9 | 3117.8 | 2981.4 | 2845.1 | 2773.0 | 2700.4 | 2677.5 |
| 25° | 3053.0 | 3169.4 | 3221.0 | 3272.7 | 3169.9 | 3067.1 | 2934.7 | 2802.7 | 2726.7 | 2650.3 | 2626.9 |
| 27.5° | 2829.5 | 2923.0 | 2980.9 | 3038.9 | 2976.1 | 2913.2 | 2806.1 | 2699.0 | 2631.8 | 2564.1 | 2539.2 |
| 30° | 2610.3 | 2673.6 | 2719.9 | 2766.2 | 2724.8 | 2683.4 | 2606.4 | 2530.0 | 2479.8 | 2430.1 | 2414.6 |
| 32.5° | 2410.2 | 2456.9 | 2482.7 | 2508.1 | 2475.9 | 2443.8 | 2393.1 | 2342.5 | 2311.3 | 2280.1 | 2269.9 |
| 35° | 2238.3 | 2276.7 | 2296.2 | 2315.7 | 2288.9 | 2262.1 | 2216.8 | 2172.0 | 2149.6 | 2127.2 | 2118.9 |
| 37.5° | 2074.1 | 2106.3 | 2134.0 | 2162.3 | 2142.8 | 2123.3 | 2084.9 | 2046.4 | 2020.1 | 1992.8 | 1978.2 |
| 40° | 1918.3 | 1949.0 | 1984.0 | 2018.6 | 2015.2 | 2011.3 | 1974.8 | 1938.3 | 1900.3 | 1862.8 | 1842.8 |
| 42.5° | 1775.1 | 1805.8 | 1842.8 | 1879.8 | 1887.1 | 1894.4 | 1864.2 | 1833.6 | 1789.7 | 1745.9 | 1715.2 |
| 45° | 1651.9 | 1679.2 | 1719.6 | 1760.5 | 1777.6 | 1794.6 | 1767.3 | 1739.6 | 1690.4 | 1641.2 | 1604.7 |
| 47.5° | 1554.5 | 1582.8 | 1627.6 | 1672.9 | 1690.9 | 1709.4 | 1690.9 | 1672.9 | 1630.5 | 1587.6 | 1555.5 |
| 50° | 1479.5 | 1509.7 | 1544.8 | 1580.3 | 1613.9 | 1647.0 | 1643.6 | 1640.2 | 1606.6 | 1573.0 | 1542.8 |
| 52.5° | 1427.9 | 1456.1 | 1492.7 | 1529.2 | 1564.3 | 1599.8 | 1605.2 | 1611.0 | 1586.7 | 1562.3 | 1536.0 |
| 55° | 1383.6 | 1417.2 | 1451.3 | 1485.4 | 1518.5 | 1551.1 | 1558.4 | 1565.7 | 1548.2 | 1530.2 | 1510.7 |
| 57.5° | 1322.2 | 1358.7 | 1392.8 | 1426.9 | 1465.4 | 1503.9 | 1509.7 | 1515.6 | 1497.0 | 1478.1 | 1463.4 |
| 60° | 1246.2 | 1283.3 | 1318.8 | 1353.9 | 1392.8 | 1431.8 | 1439.6 | 1447.4 | 1432.8 | 1418.2 | 1404.5 |
| 62.5° | 1139.1 | 1181.0 | 1210.2 | 1239.4 | 1276.4 | 1313.9 | 1325.1 | 1336.8 | 1330.0 | 1323.7 | 1308.1 |
| 65° | *1033.4* | *1073.8* | *1096.7* | *1120.1* | *1152.2* | *1184.4* | *1195.6* | *1206.8* | *1203.4* | *1200.5* | *1189.3* |
| 67.5° | 928.2 | 965.2 | 984.2 | 1003.2 | 1025.1 | 1047.1 | 1059.7 | 1072.4 | 1066.0 | 1059.2 | 1047.5 |
| 70° | 837.6 | 867.8 | 884.4 | 901.0 | 918.5 | 936.0 | 942.8 | 949.7 | 939.9 | 930.2 | 903.9 |
| 72.5° | 742.7 | 765.6 | 779.7 | 793.8 | 810.4 | 826.9 | 830.8 | 835.2 | 820.1 | 804.5 | 773.8 |
| 75° | 625.3 | 642.8 | 653.6 | 664.8 | 681.8 | 698.8 | 706.2 | 713.5 | 692.0 | 671.1 | 638.5 |
| 77.5° | 489.4 | 505.5 | 515.7 | 526.0 | 540.1 | 554.2 | 556.2 | 559.1 | 540.6 | 522.1 | 502.6 |
| 80° | 358.4 | 370.1 | 374.0 | 377.4 | 389.1 | 400.3 | 400.3 | 400.3 | 386.7 | 372.6 | 362.8 |
| 82.5° | 226.5 | 224.0 | 219.2 | 214.3 | 226.0 | 237.7 | 241.6 | 245.9 | 239.6 | 233.8 | 223.0 |
| 85° | 101.3 | 93.5 | 92.0 | 90.1 | 89.6 | 88.6 | 92.0 | 95.0 | 93.5 | 92.5 | 88.6 |
| 87.5° | 47.7 | 49.7 | 48.2 | 46.3 | 44.3 | 42.9 | 39.0 | 35.1 | 32.1 | 29.2 | 27.3 |
| 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: P1365164
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**CANDELA DISTRIBUTION (continued):**

| | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 |
| 2.5° | 2909.8 | 2907.4 | 2909.8 | 2913.2 | 2917.1 | 2922.0 | 2926.9 | 2937.1 | 2947.3 | 2962.9 | 2978.0 |
| 5° | 2722.3 | 2717.5 | 2722.3 | 2727.7 | 2733.1 | 2741.3 | 2749.1 | 2768.1 | 2786.6 | 2809.5 | 2831.9 |
| 7.5° | 2595.7 | 2590.9 | 2595.7 | 2605.0 | 2614.2 | 2626.9 | 2639.6 | 2661.0 | 2682.4 | 2715.5 | 2749.1 |
| 10° | 2525.1 | 2517.8 | 2525.1 | 2534.8 | 2544.6 | 2562.1 | 2580.1 | 2611.3 | 2643.4 | 2680.5 | 2717.5 |
| 12.5° | 2512.0 | 2503.2 | 2512.0 | 2526.6 | 2541.2 | 2562.6 | 2585.0 | 2624.5 | 2663.9 | 2713.6 | 2763.7 |
| 15° | 2560.7 | 2547.0 | 2560.7 | 2578.7 | 2596.7 | 2628.8 | 2660.0 | 2717.0 | 2773.5 | 2843.1 | 2912.3 |
| 17.5° | 2632.2 | 2624.9 | 2632.2 | 2648.8 | 2664.9 | 2710.7 | 2756.4 | 2840.2 | 2924.4 | 3021.8 | 3119.2 |
| 20° | 2658.1 | 2649.3 | 2658.1 | 2682.4 | 2706.8 | 2767.1 | 2828.5 | 2939.1 | 3049.6 | 3177.2 | 3304.3 |
| 22.5° | 2654.2 | 2644.4 | 2654.2 | 2677.5 | 2700.4 | 2773.0 | 2845.1 | 2981.4 | 3117.8 | 3242.9 | 3367.6 |
| 25° | 2603.0 | 2595.7 | 2603.0 | 2626.9 | 2650.3 | 2726.7 | 2802.7 | 2934.7 | 3067.1 | 3169.9 | 3272.7 |
| 27.5° | 2513.9 | 2498.3 | 2513.9 | 2539.2 | 2564.1 | 2631.8 | 2699.0 | 2806.1 | 2913.2 | 2976.1 | 3038.9 |
| 30° | 2398.5 | 2391.2 | 2398.5 | 2414.6 | 2430.1 | 2479.8 | 2530.0 | 2606.4 | 2683.4 | 2724.8 | 2766.2 |
| 32.5° | 2259.7 | 2254.8 | 2259.7 | 2269.9 | 2280.1 | 2311.3 | 2342.5 | 2393.1 | 2443.8 | 2475.9 | 2508.1 |
| 35° | 2111.2 | 2103.8 | 2111.2 | 2118.9 | 2127.2 | 2149.6 | 2172.0 | 2216.8 | 2262.1 | 2288.9 | 2315.7 |
| 37.5° | 1963.6 | 1952.9 | 1963.6 | 1978.2 | 1992.8 | 2020.1 | 2046.4 | 2084.9 | 2123.3 | 2142.8 | 2162.3 |
| 40° | 1822.4 | 1811.6 | 1822.4 | 1842.8 | 1862.8 | 1900.3 | 1938.3 | 1974.8 | 2011.3 | 2015.2 | 2018.6 |
| 42.5° | 1685.0 | 1665.5 | 1685.0 | 1715.2 | 1745.9 | 1789.7 | 1833.6 | 1864.2 | 1894.4 | 1887.1 | 1879.8 |
| 45° | 1568.1 | 1543.8 | 1568.1 | 1604.7 | 1641.2 | 1690.4 | 1739.6 | 1767.3 | 1794.6 | 1777.6 | 1760.5 |
| 47.5° | 1523.3 | 1500.0 | 1523.3 | 1555.5 | 1587.6 | 1630.5 | 1672.9 | 1690.9 | 1709.4 | 1690.9 | 1672.9 |
| 50° | 1512.1 | 1490.2 | 1512.1 | 1542.8 | 1573.0 | 1606.6 | 1640.2 | 1643.6 | 1647.0 | 1613.9 | 1580.3 |
| 52.5° | 1509.7 | 1490.2 | 1509.7 | 1536.0 | 1562.3 | 1586.7 | 1611.0 | 1605.2 | 1599.8 | 1564.3 | 1529.2 |
| 55° | 1491.2 | 1475.6 | 1491.2 | 1510.7 | 1530.2 | 1548.2 | 1565.7 | 1558.4 | 1551.1 | 1518.5 | 1485.4 |
| 57.5° | 1448.8 | 1441.5 | 1448.8 | 1463.4 | 1478.1 | 1497.0 | 1515.6 | 1509.7 | 1503.9 | 1465.4 | 1426.9 |
| 60° | 1390.4 | 1378.2 | 1390.4 | 1404.5 | 1418.2 | 1432.8 | 1447.4 | 1439.6 | 1431.8 | 1392.8 | 1353.9 |
| 62.5° | 1293.0 | 1275.9 | 1293.0 | 1308.1 | 1323.7 | 1330.0 | 1336.8 | 1325.1 | 1313.9 | 1276.4 | 1239.4 |
| 65° | *1178.5* | *1159.1* | *1178.5* | *1189.3* | *1200.5* | *1203.4* | *1206.8* | *1195.6* | *1184.4* | *1152.2* | *1120.1* |
| 67.5° | 1036.3 | 1032.4 | 1036.3 | 1047.5 | 1059.2 | 1066.0 | 1072.4 | 1059.7 | 1047.1 | 1025.1 | 1003.2 |
| 70° | 877.6 | 847.4 | 877.6 | 903.9 | 930.2 | 939.9 | 949.7 | 942.8 | 936.0 | 918.5 | 901.0 |
| 72.5° | 742.7 | 711.0 | 742.7 | 773.8 | 804.5 | 820.1 | 835.2 | 830.8 | 826.9 | 810.4 | 793.8 |
| 75° | 606.3 | 584.4 | 606.3 | 638.5 | 671.1 | 692.0 | 713.5 | 706.2 | 698.8 | 681.8 | 664.8 |
| 77.5° | 483.1 | 472.4 | 483.1 | 502.6 | 522.1 | 540.6 | 559.1 | 556.2 | 554.2 | 540.1 | 526.0 |
| 80° | 353.1 | 345.8 | 353.1 | 362.8 | 372.6 | 386.7 | 400.3 | 400.3 | 400.3 | 389.1 | 377.4 |
| 82.5° | 211.8 | 204.5 | 211.8 | 223.0 | 233.8 | 239.6 | 245.9 | 241.6 | 237.7 | 226.0 | 214.3 |
| 85° | 85.2 | 82.8 | 85.2 | 88.6 | 92.5 | 93.5 | 95.0 | 92.0 | 88.6 | 89.6 | 90.1 |
| 87.5° | 25.3 | 24.4 | 25.3 | 27.3 | 29.2 | 32.1 | 35.1 | 39.0 | 42.9 | 44.3 | 46.3 |
| 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° | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 |
| 2.5° | 2999.4 | 3020.4 | 3038.4 | 3055.9 | 3075.9 | 3096.4 | 3122.2 | 3148.5 | 3172.8 | 3200.6 | 3228.3 |
| 5° | 2860.7 | 2888.9 | 2921.0 | 2952.2 | 2990.2 | 3028.2 | 3074.0 | 3120.7 | 3167.9 | 3223.0 | 3275.6 |
| 7.5° | 2784.7 | 2819.7 | 2861.6 | 2903.5 | 2953.2 | 3002.4 | 3058.9 | 3115.8 | 3172.8 | 3245.9 | 3316.0 |
| 10° | 2763.7 | 2810.0 | 2854.3 | 2898.6 | 2949.3 | 2999.9 | 3059.3 | 3119.2 | 3180.1 | 3258.0 | 3338.4 |
| 12.5° | 2819.3 | 2874.3 | 2915.2 | 2956.1 | 2991.2 | 3026.7 | 3075.9 | 3125.6 | 3185.0 | 3270.2 | 3358.4 |
| 15° | 2963.4 | 3014.5 | 3028.7 | 3042.8 | 3045.7 | 3048.6 | 3080.8 | 3112.9 | 3165.5 | 3260.5 | 3360.3 |
| 17.5° | 3155.3 | 3190.8 | 3163.1 | 3135.3 | 3087.1 | 3038.9 | 3043.3 | 3047.7 | 3092.5 | 3203.5 | 3319.4 |
| 20° | 3307.7 | 3311.6 | 3236.6 | 3161.6 | 3067.6 | 2973.1 | 2945.9 | 2918.1 | 2946.4 | 3093.4 | 3246.4 |
| 22.5° | 3340.3 | 3312.6 | 3204.5 | 3096.4 | 2973.1 | 2849.9 | 2809.5 | 2768.6 | 2795.4 | 2970.7 | 3162.6 |
| 25° | 3221.0 | 3169.4 | 3053.0 | 2936.6 | 2822.7 | 2708.7 | 2664.4 | 2620.1 | 2622.5 | 2823.6 | 3062.8 |
| 27.5° | 2980.9 | 2923.0 | 2829.5 | 2736.0 | 2651.2 | 2566.5 | 2523.6 | 2481.3 | 2469.1 | 2674.6 | 2960.5 |
| 30° | 2719.9 | 2673.6 | 2610.3 | 2547.0 | 2485.7 | 2424.3 | 2391.2 | 2358.1 | 2344.9 | 2544.6 | 2871.4 |
| 32.5° | 2482.7 | 2456.9 | 2410.2 | 2362.9 | 2323.0 | 2283.1 | 2268.9 | 2254.8 | 2254.8 | 2438.9 | 2793.4 |
| 35° | 2296.2 | 2276.7 | 2238.3 | 2200.3 | 2174.0 | 2147.7 | 2159.4 | 2171.1 | 2201.2 | 2343.5 | 2704.8 |
| 37.5° | 2134.0 | 2106.3 | 2074.1 | 2041.5 | 2029.8 | 2017.2 | 2049.3 | 2080.5 | 2137.9 | 2249.9 | 2606.4 |
| 40° | 1984.0 | 1949.0 | 1918.3 | 1887.1 | 1888.6 | 1889.6 | 1936.3 | 1983.1 | 2055.1 | 2143.8 | 2489.1 |
| 42.5° | 1842.8 | 1805.8 | 1775.1 | 1744.4 | 1750.8 | 1757.1 | 1816.5 | 1875.9 | 1965.1 | 2026.9 | 2349.3 |
| 45° | 1719.6 | 1679.2 | 1651.9 | 1625.6 | 1635.4 | 1645.1 | 1705.5 | 1766.8 | 1855.5 | 1911.5 | 2207.1 |
| 47.5° | 1627.6 | 1582.8 | 1554.5 | 1526.8 | 1533.1 | 1538.9 | 1591.5 | 1643.6 | 1726.4 | 1791.2 | 2065.9 |
| 50° | 1544.8 | 1509.7 | 1479.5 | 1448.8 | 1441.5 | 1434.2 | 1477.6 | 1520.4 | 1602.2 | 1690.9 | 1940.2 |
| 52.5° | 1492.7 | 1456.1 | 1427.9 | 1400.1 | 1377.7 | 1354.8 | 1387.5 | 1419.6 | 1507.3 | 1620.7 | 1827.2 |
| 55° | 1451.3 | 1417.2 | 1383.6 | 1350.0 | 1317.8 | 1285.7 | 1321.7 | 1357.8 | 1461.0 | 1574.0 | 1732.8 |
| 57.5° | 1392.8 | 1358.7 | 1322.2 | 1285.7 | 1253.5 | 1221.4 | 1271.6 | 1322.2 | 1448.8 | 1543.8 | 1652.9 |
| 60° | 1318.8 | 1283.3 | 1246.2 | 1208.7 | 1187.8 | 1166.4 | 1229.7 | 1293.0 | 1419.6 | 1494.1 | 1570.6 |
| 62.5° | 1210.2 | 1181.0 | 1139.1 | 1096.7 | 1094.8 | 1091.9 | 1174.6 | 1257.4 | 1378.2 | 1409.9 | 1452.2 |
| 65° | *1096.7* | *1073.8* | *1033.4* | *993.5* | *1003.2* | *1013.0* | *1101.6* | *1190.7* | *1290.6* | *1299.3* | *1308.1* |
| 67.5° | 984.2 | 965.2 | 928.2 | 891.2 | 911.2 | 931.1 | 1010.0 | 1088.4 | 1156.6 | 1143.5 | 1117.7 |
| 70° | 884.4 | 867.8 | 837.6 | 807.4 | 820.1 | 832.8 | 879.5 | 926.3 | 959.4 | 963.3 | 924.8 |
| 72.5° | 779.7 | 765.6 | 742.7 | 719.8 | 728.6 | 737.8 | 748.0 | 758.7 | 737.8 | 776.8 | 747.5 |
| 75° | 653.6 | 642.8 | 625.3 | 607.8 | 614.1 | 620.9 | 626.3 | 632.1 | 618.5 | 602.9 | 567.8 |
| 77.5° | 515.7 | 505.5 | 489.4 | 473.4 | 481.2 | 488.0 | 501.1 | 513.8 | 511.4 | 466.5 | 428.6 |
| 80° | 374.0 | 370.1 | 358.4 | 346.7 | 352.6 | 357.9 | 374.0 | 389.6 | 392.0 | 328.7 | 289.3 |
| 82.5° | 219.2 | 224.0 | 226.5 | 228.9 | 232.8 | 236.2 | 236.2 | 236.2 | 226.5 | 190.9 | 171.4 |
| 85° | 92.0 | 93.5 | 101.3 | 108.1 | 114.0 | 119.3 | 118.8 | 117.9 | 112.0 | 92.5 | 79.9 |
| 87.5° | 48.2 | 49.7 | 47.7 | 44.8 | 42.9 | 39.9 | 37.0 | 34.1 | 29.2 | 26.8 | 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 |

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

Scaled Data Report

REPORT NUMBER: P1365164
CATALOG NUMBER: GSS-SB4B-850-U-SLL

**CANDELA DISTRIBUTION (continued):**

| | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|---|---|---|---|---|---|---|---|
| 0° | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 | 3175.3 |
| 2.5° | 3255.6 | 3284.3 | 3312.6 | 3340.8 | 3369.1 | 3399.8 | 3430.9 |
| 5° | 3328.7 | 3384.7 | 3440.7 | 3497.6 | 3555.1 | 3609.7 | 3664.7 |
| 7.5° | 3385.6 | 3463.6 | 3541.5 | 3628.7 | 3715.8 | 3808.4 | 3900.9 |
| 10° | 3418.8 | 3515.2 | 3611.1 | 3719.7 | 3827.8 | 3938.9 | 4049.4 |
| 12.5° | 3447.0 | 3554.6 | 3662.3 | 3783.5 | 3904.8 | 4014.8 | 4124.9 |
| 15° | 3460.1 | 3576.5 | 3692.5 | 3815.7 | 3938.9 | 4049.9 | 4161.4 |
| 17.5° | 3435.8 | 3567.8 | 3700.2 | 3831.7 | 3963.2 | 4067.0 | 4171.2 |
| 20° | 3399.3 | 3554.6 | 3710.0 | 3851.2 | 3992.4 | 4097.6 | 4202.8 |
| 22.5° | 3354.5 | 3544.4 | 3734.3 | 3889.2 | 4044.6 | 4140.5 | 4236.9 |
| 25° | 3301.9 | 3543.4 | 3785.0 | 3954.5 | 4123.9 | 4207.2 | 4290.5 |
| 27.5° | 3245.9 | 3552.7 | 3859.5 | 4049.9 | 4240.8 | 4304.6 | 4368.4 |
| 30° | 3198.6 | 3572.6 | 3947.2 | 4162.9 | 4378.1 | 4427.8 | 4478.0 |
| 32.5° | 3148.5 | 3595.0 | 4042.1 | 4295.8 | 4549.6 | 4580.7 | 4611.9 |
| 35° | 3065.7 | 3589.7 | 4114.2 | 4437.1 | 4760.4 | 4799.4 | 4838.4 |
| 37.5° | 2963.4 | 3574.6 | 4185.8 | 4609.5 | 5033.2 | 5079.4 | 5125.7 |
| 40° | 2834.4 | 3540.5 | 4246.7 | 4806.7 | 5366.8 | 5458.3 | 5549.4 |
| 42.5° | 2671.2 | 3481.6 | 4291.5 | 5024.9 | 5757.3 | 5950.7 | 6143.5 |
| 45° | 2503.2 | 3441.2 | 4379.1 | 5321.0 | 6262.8 | 6572.1 | 6881.3 |
| 47.5° | 2341.5 | 3393.9 | 4446.3 | 5625.4 | 6804.4 | 7195.9 | 7587.5 |
| 50° | 2189.1 | 3313.6 | 4437.6 | 5890.8 | 7344.0 | 7874.8 | 8405.7 |
| 52.5° | 2034.7 | 3149.0 | 4263.7 | 6016.4 | 7768.7 | 8612.1 | 9455.1 |
| 55° | 1890.5 | 2930.8 | 3970.0 | 5983.3 | 7996.6 | 9352.9 | 10709.2 |
| 57.5° | 1762.0 | 2702.4 | 3642.8 | 5802.6 | 7962.5 | 9974.8 | 11987.6 |
| 60° | 1647.0 | 2413.6 | 3180.1 | 5369.7 | 7559.2 | 10253.3 | 12947.0 |
| 62.5° | 1495.1 | 2047.4 | 2599.6 | 4660.1 | 6720.6 | 9635.3 | 12550.0 |
| 65° | *1317.3* | *1609.1* | *1900.3* | *3655.4* | *5410.6* | *8310.7* | *11210.8* |
| 67.5° | 1091.9 | 1230.2 | 1368.5 | 2844.6 | 4320.7 | 7137.5 | 9954.3 |
| 70° | 886.3 | 935.0 | 983.7 | 2179.8 | 3375.9 | 6063.7 | 8751.4 |
| 72.5° | 718.3 | 718.8 | 719.8 | 1638.8 | 2557.7 | 5035.1 | 7512.0 |
| 75° | 533.3 | 536.2 | 539.6 | 1214.6 | 1889.6 | 4020.2 | 6150.8 |
| 77.5° | 390.6 | 388.6 | 385.7 | 785.0 | 1184.4 | 2637.6 | 4090.8 |
| 80° | 249.3 | 247.4 | 244.5 | 433.9 | 623.4 | 1512.1 | 2400.9 |
| 82.5° | 151.9 | 151.5 | 151.0 | 233.3 | 315.6 | 757.8 | 1200.5 |
| 85° | 67.2 | 63.8 | 60.9 | 74.0 | 87.7 | 180.2 | 272.7 |
| 87.5° | 21.9 | 20.5 | 19.5 | 20.0 | 20.5 | 21.4 | 21.9 |
| 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: SP1-2407-184-12

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-850-U-5WQ

Data in this report applies to families of products including GSS-SB1A-850-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

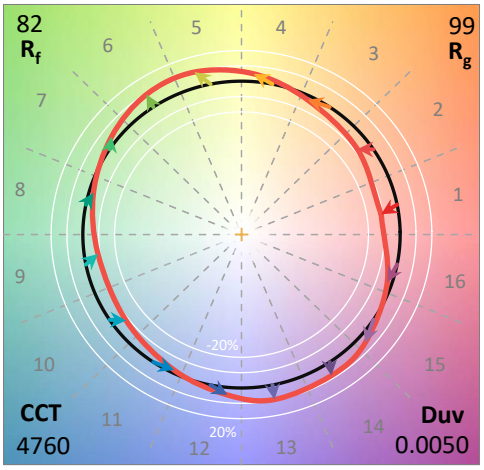
## Test Information

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | SP1-2407-184-12 |
| 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-850-U-5WQ** |
| Description: | GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 5000K CCT 26 LEDS |

## Spectral Parameters

| | |
|---|---|
| CCT (K): | 4760 |
| CIE u': | 0.2107 |
| CIE v': | 0.4939 |
| Duv: | 0.0050 |
| CIE x: | 0.3537 |
| CIE y: | 0.3685 |
| CIE z: | 0.2779 |
| Peak Wavelength (nm): | 443 |
| Dominant Wavelength (nm): | 571 |
| Purity: | 16.69598 |
| Rf: | 82 |
| Rg: | 99.4 |

| | |
|---|---|
| CRI (Ra): | 81.1 |
| R1: | 79.8 |
| R2: | 83.5 |
| R3: | 87.9 |
| R4: | 83.1 |
| R5: | 80.5 |
| R6: | 79.1 |
| R7: | 86.1 |
| R8: | 69.0 |
| R9: | 8.7 |
| R10: | 62.4 |
| R11: | 83.8 |
| R12: | 63.0 |
| R13: | 79.9 |
| R14: | 93.3 |
| R15: | 72.7 |




## Test Conditions

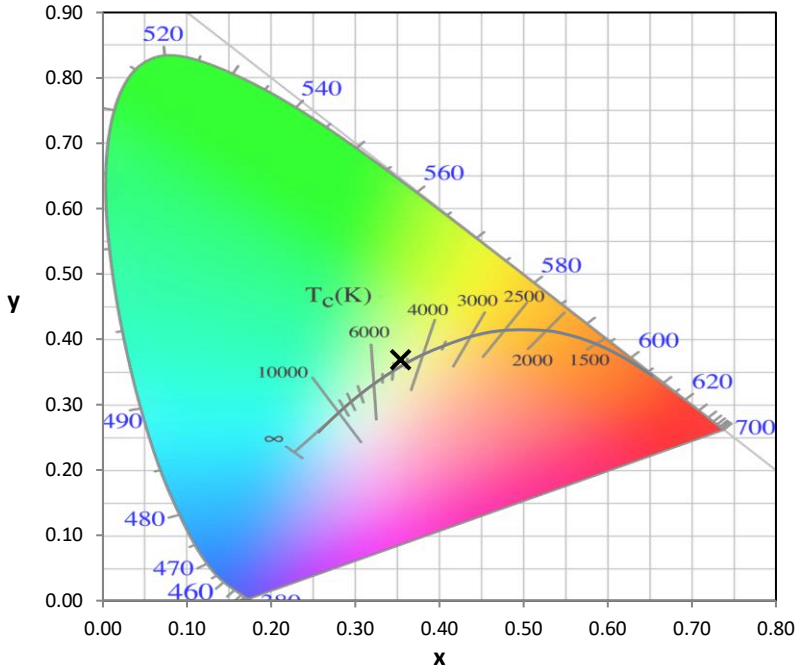
| | |
|---|---|
| Stabilization Time: | 21M |
| Operation Time: | 1H 21M |
| Sphere Temperature (°C): | 25.2 |

REPORT NUMBER: SP1-2407-184-12

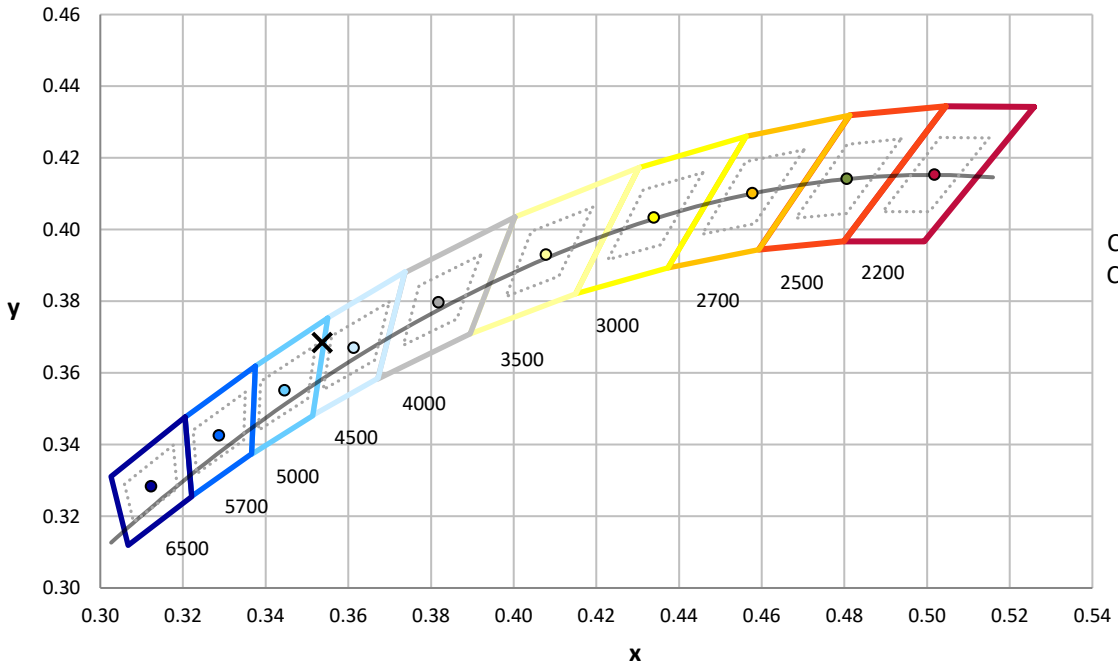
| Measurement and Test Equipment | | | |
|---|---|---|---|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC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

## CIE 1931 Chromaticity Diagram




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

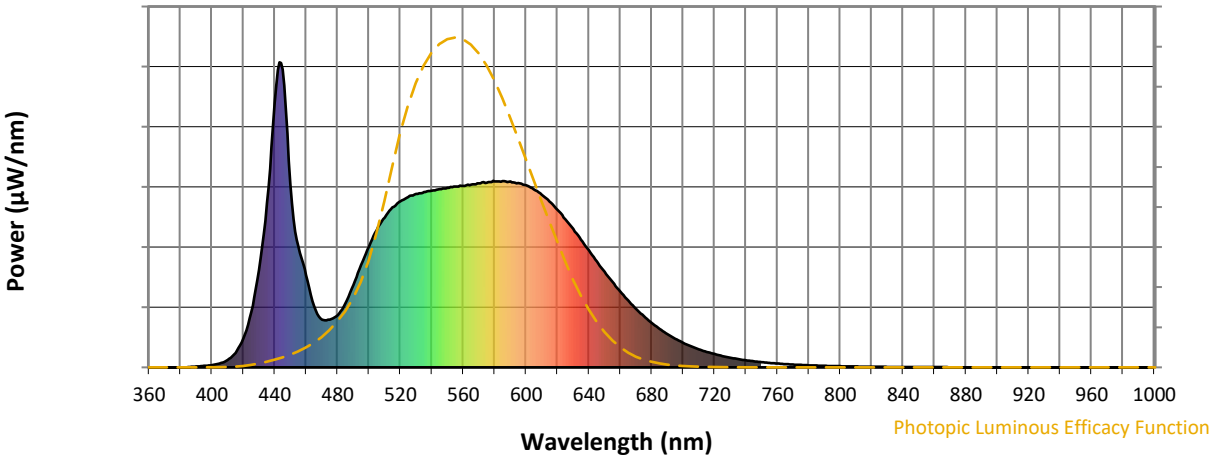



CCT = 4760K
CIE x = 0.3537
CIE y = 0.3685
Duv = 0.0050

Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-12

## Photopic Flux vs. Wavelength

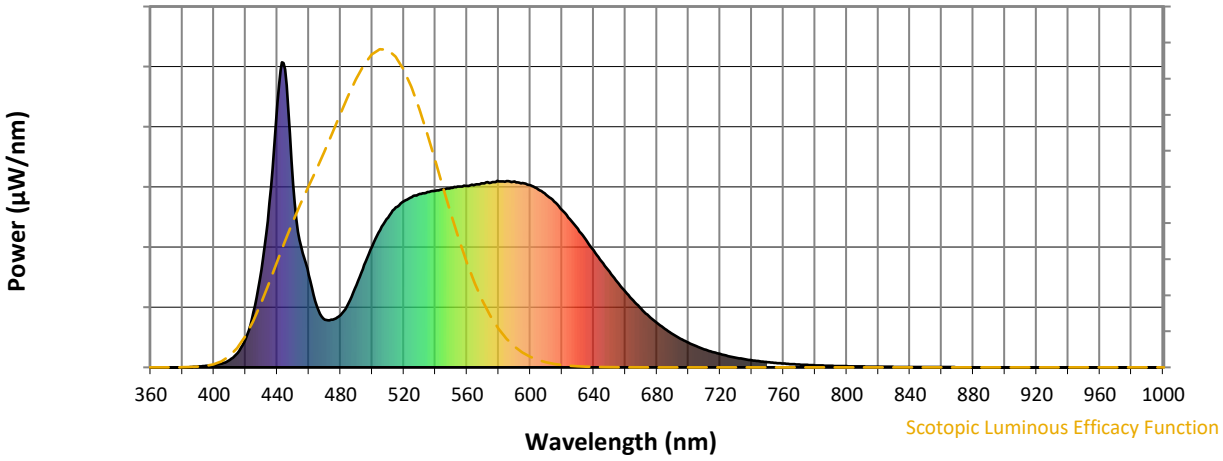



## Photopic Lumens: NR

| 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 | 270 | NR | 620 | 517 | NR | 750 | 17 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 335 | NR | 625 | 486 | NR | 755 | 15 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 397 | NR | 630 | 454 | NR | 760 | 12 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 451 | NR | 635 | 419 | NR | 765 | 11 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 492 | NR | 640 | 384 | NR | 770 | 9 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 524 | NR | 645 | 347 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 3 | NR | 520 | 545 | NR | 650 | 313 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 5 | NR | 525 | 558 | NR | 655 | 280 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 7 | NR | 530 | 568 | NR | 660 | 248 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 13 | NR | 535 | 575 | NR | 665 | 219 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 24 | NR | 540 | 579 | NR | 670 | 192 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 47 | NR | 545 | 585 | NR | 675 | 167 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 95 | NR | 550 | 588 | NR | 680 | 146 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 181 | NR | 555 | 593 | NR | 685 | 126 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 319 | NR | 560 | 595 | NR | 690 | 109 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 539 | NR | 565 | 600 | NR | 695 | 94 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 868 | NR | 570 | 603 | NR | 700 | 80 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 977 | NR | 575 | 606 | NR | 705 | 69 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 601 | NR | 580 | 609 | NR | 710 | 59 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 397 | NR | 585 | 611 | NR | 715 | 51 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 302 | NR | 590 | 610 | NR | 720 | 44 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 201 | NR | 595 | 604 | NR | 725 | 37 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 157 | NR | 600 | 596 | NR | 730 | 32 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 157 | NR | 605 | 583 | NR | 735 | 27 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 171 | NR | 610 | 566 | NR | 740 | 23 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 210 | NR | 615 | 543 | NR | 745 | 20 | NR | 875 | 0 | NR | | | |

REPORT NUMBER: SP1-2407-184-12

## Scotopic Flux vs. Wavelength

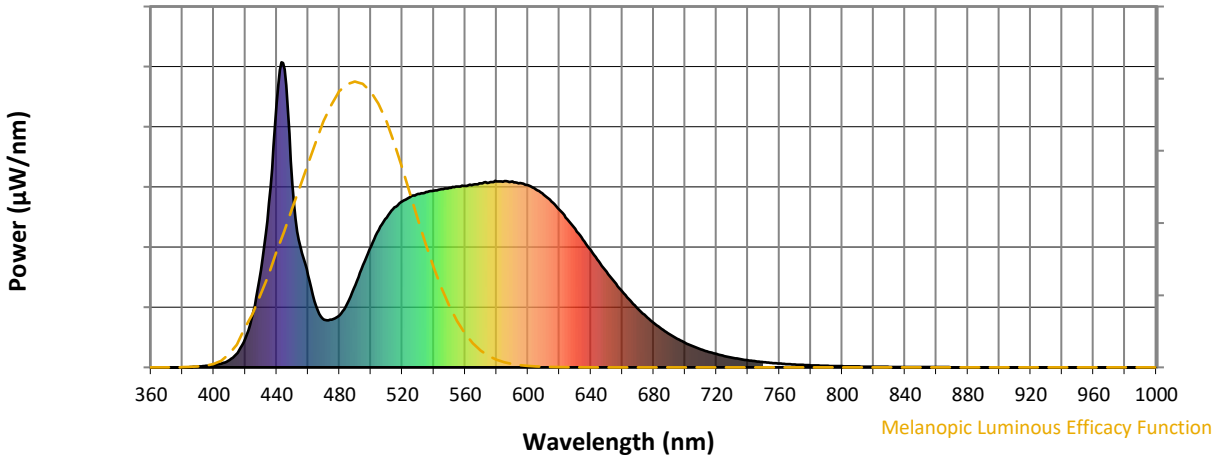



**Scotopic Lumens: NR** **S/P: 1.83**

| 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 | 270 | NR | 620 | 517 | NR | 750 | 17 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 335 | NR | 625 | 486 | NR | 755 | 15 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 397 | NR | 630 | 454 | NR | 760 | 12 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 451 | NR | 635 | 419 | NR | 765 | 11 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 492 | NR | 640 | 384 | NR | 770 | 9 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 524 | NR | 645 | 347 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 3 | NR | 520 | 545 | NR | 650 | 313 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 5 | NR | 525 | 558 | NR | 655 | 280 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 7 | NR | 530 | 568 | NR | 660 | 248 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 13 | NR | 535 | 575 | NR | 665 | 219 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 24 | NR | 540 | 579 | NR | 670 | 192 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 47 | NR | 545 | 585 | NR | 675 | 167 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 95 | NR | 550 | 588 | NR | 680 | 146 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 181 | NR | 555 | 593 | NR | 685 | 126 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 319 | NR | 560 | 595 | NR | 690 | 109 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 539 | NR | 565 | 600 | NR | 695 | 94 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 868 | NR | 570 | 603 | NR | 700 | 80 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 977 | NR | 575 | 606 | NR | 705 | 69 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 601 | NR | 580 | 609 | NR | 710 | 59 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 397 | NR | 585 | 611 | NR | 715 | 51 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 302 | NR | 590 | 610 | NR | 720 | 44 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 201 | NR | 595 | 604 | NR | 725 | 37 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 157 | NR | 600 | 596 | NR | 730 | 32 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 157 | NR | 605 | 583 | NR | 735 | 27 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 171 | NR | 610 | 566 | NR | 740 | 23 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 210 | NR | 615 | 543 | NR | 745 | 20 | NR | 875 | 0 | NR | | | |

REPORT NUMBER: SP1-2407-184-12

## Melanopic Flux vs. Wavelength




**Melanopic Lumens: NR** **M/P: 3.74**

| 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 | 270 | NR | 620 | 517 | NR | 750 | 17 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 335 | NR | 625 | 486 | NR | 755 | 15 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 397 | NR | 630 | 454 | NR | 760 | 12 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 451 | NR | 635 | 419 | NR | 765 | 11 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 492 | NR | 640 | 384 | NR | 770 | 9 | NR | 900 | 0 | NR |
| 385 | 1 | NR | 515 | 524 | NR | 645 | 347 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 3 | NR | 520 | 545 | NR | 650 | 313 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 5 | NR | 525 | 558 | NR | 655 | 280 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 7 | NR | 530 | 568 | NR | 660 | 248 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 13 | NR | 535 | 575 | NR | 665 | 219 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 24 | NR | 540 | 579 | NR | 670 | 192 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 47 | NR | 545 | 585 | NR | 675 | 167 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 95 | NR | 550 | 588 | NR | 680 | 146 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 181 | NR | 555 | 593 | NR | 685 | 126 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 319 | NR | 560 | 595 | NR | 690 | 109 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 539 | NR | 565 | 600 | NR | 695 | 94 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 868 | NR | 570 | 603 | NR | 700 | 80 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 977 | NR | 575 | 606 | NR | 705 | 69 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 601 | NR | 580 | 609 | NR | 710 | 59 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 397 | NR | 585 | 611 | NR | 715 | 51 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 302 | NR | 590 | 610 | NR | 720 | 44 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 201 | NR | 595 | 604 | NR | 725 | 37 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 157 | NR | 600 | 596 | NR | 730 | 32 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 157 | NR | 605 | 583 | NR | 735 | 27 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 171 | NR | 610 | 566 | NR | 740 | 23 | NR | 870 | 1 | NR | 1000 | 0 | NR |
| 485 | 210 | NR | 615 | 543 | NR | 745 | 20 | NR | 875 | 0 | NR | | | |

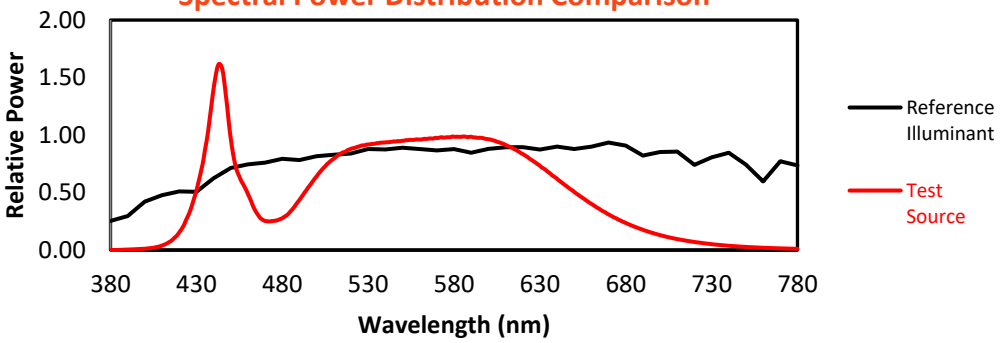
REPORT NUMBER: SP1-2407-184-12

# TM-30-18

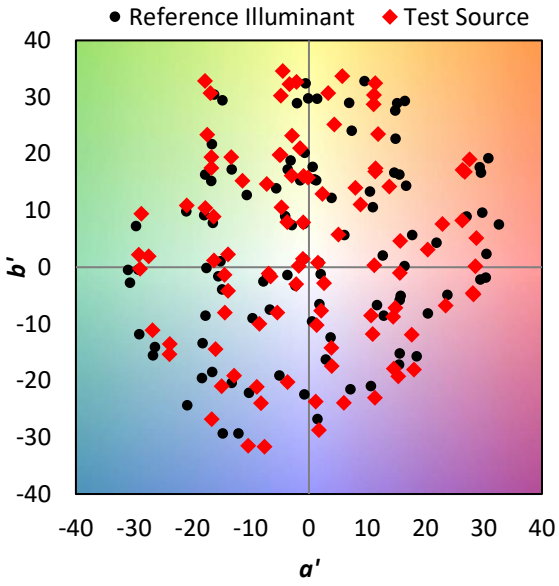
## Summary

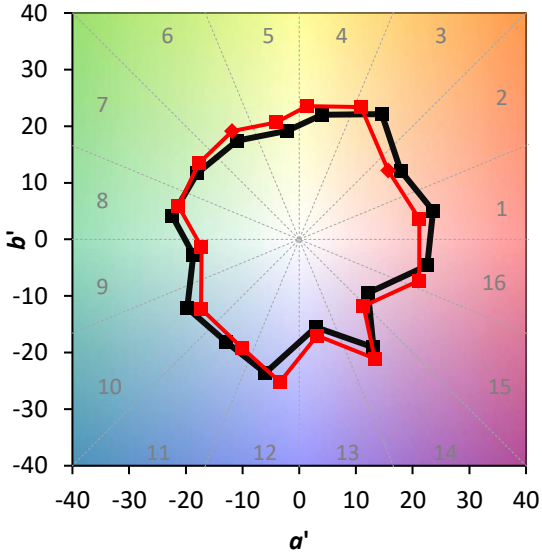
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$R_g$ = 99.4
CIE $R_a$ = 81.1
$R_9$ = 8.7

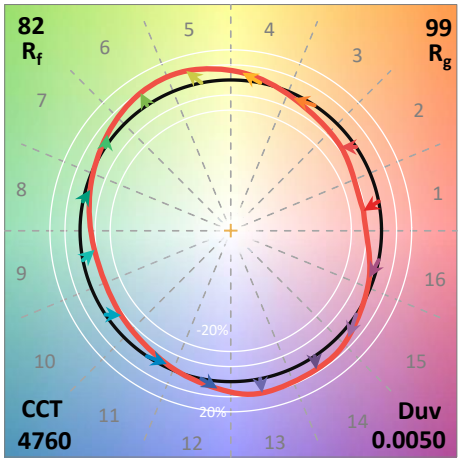
## Spectral Power Distribution Comparison

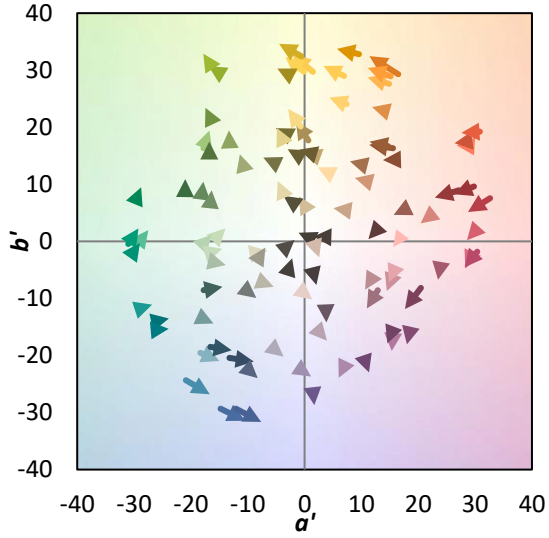



## Color Vector Graphics



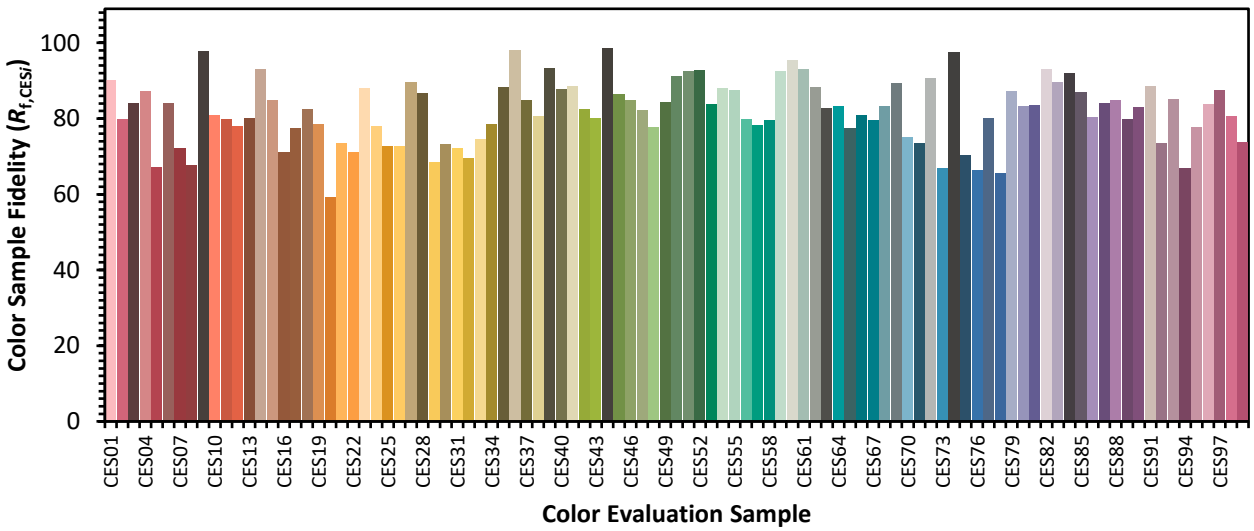



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## Individual Sample Fidelity Index ($R_{f,i}$)

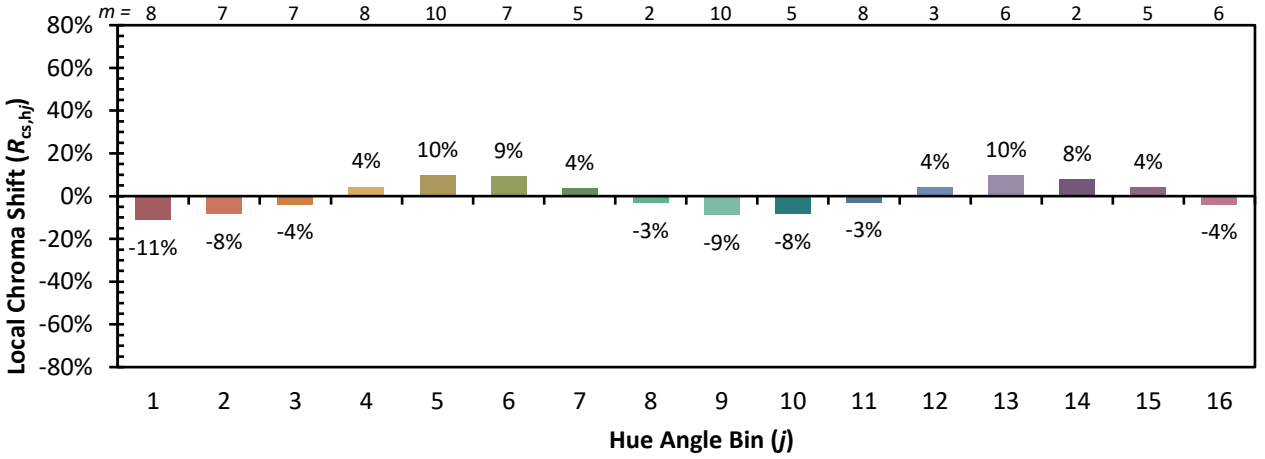
| | | | |
|---|---|---|---|
| CES01 = 85 | CES26 = 73 | CES51 = 92 | CES76 = 66 |
| CES02 = 60 | CES27 = 90 | CES52 = 93 | CES77 = 80 |
| CES03 = 30 | CES28 = 87 | CES53 = 84 | CES78 = 65 |
| CES04 = 69 | CES29 = 69 | CES54 = 88 | CES79 = 87 |
| CES05 = 47 | CES30 = 73 | CES55 = 88 | CES80 = 83 |
| CES06 = 50 | CES31 = 72 | CES56 = 80 | CES81 = 84 |
| CES07 = 40 | CES32 = 69 | CES57 = 78 | CES82 = 93 |
| CES08 = 39 | CES33 = 75 | CES58 = 80 | CES83 = 90 |
| CES09 = 29 | CES34 = 78 | CES59 = 93 | CES84 = 92 |
| CES10 = 73 | CES35 = 88 | CES60 = 95 | CES85 = 87 |
| CES11 = 56 | CES36 = 98 | CES61 = 93 | CES86 = 80 |
| CES12 = 62 | CES37 = 85 | CES62 = 88 | CES87 = 84 |
| CES13 = 42 | CES38 = 81 | CES63 = 83 | CES88 = 85 |
| CES14 = 74 | CES39 = 93 | CES64 = 83 | CES89 = 80 |
| CES15 = 71 | CES40 = 88 | CES65 = 77 | CES90 = 83 |
| CES16 = 46 | CES41 = 89 | CES66 = 81 | CES91 = 89 |
| CES17 = 48 | CES42 = 82 | CES67 = 80 | CES92 = 73 |
| CES18 = 55 | CES43 = 80 | CES68 = 83 | CES93 = 85 |
| CES19 = 70 | CES44 = 99 | CES69 = 89 | CES94 = 67 |
| CES20 = 64 | CES45 = 87 | CES70 = 75 | CES95 = 78 |
| CES21 = 85 | CES46 = 85 | CES71 = 73 | CES96 = 84 |
| CES22 = 77 | CES47 = 82 | CES72 = 91 | CES97 = 87 |
| CES23 = 91 | CES48 = 78 | CES73 = 67 | CES98 = 81 |
| CES24 = 90 | CES49 = 84 | CES74 = 98 | CES99 = 74 |
| CES25 = 71 | CES50 = 91 | CES75 = 70 | |

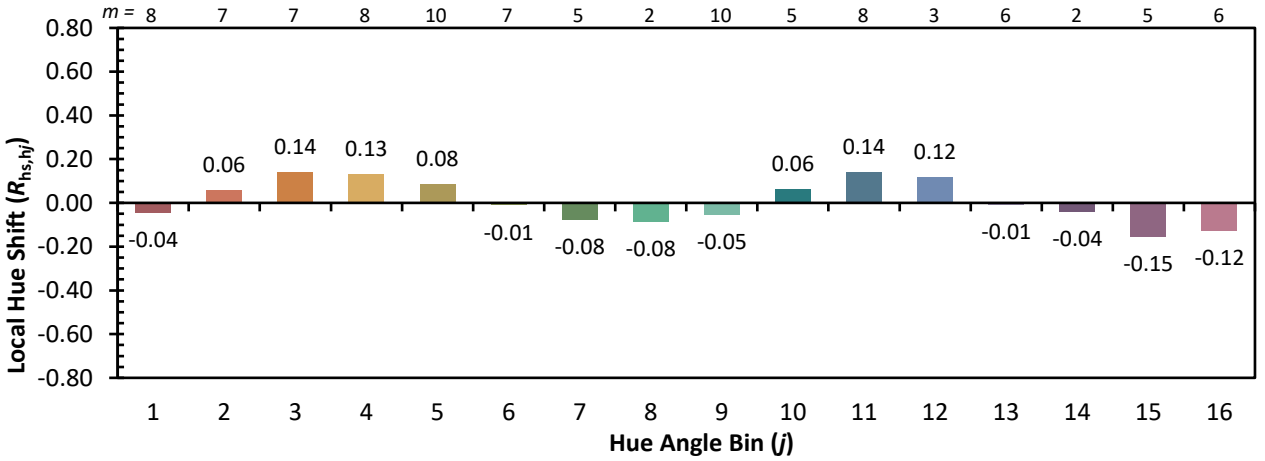


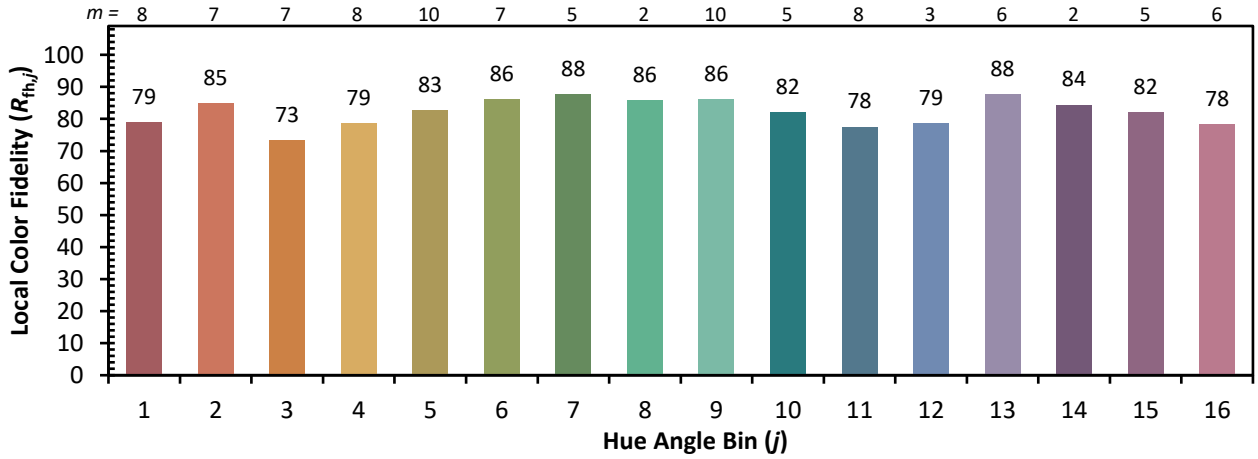
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## Color Rendition by Hue-Angle Bin



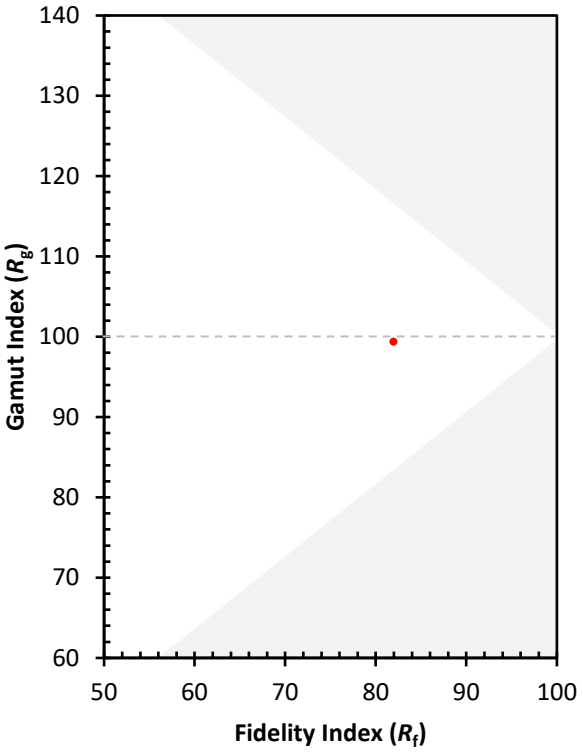



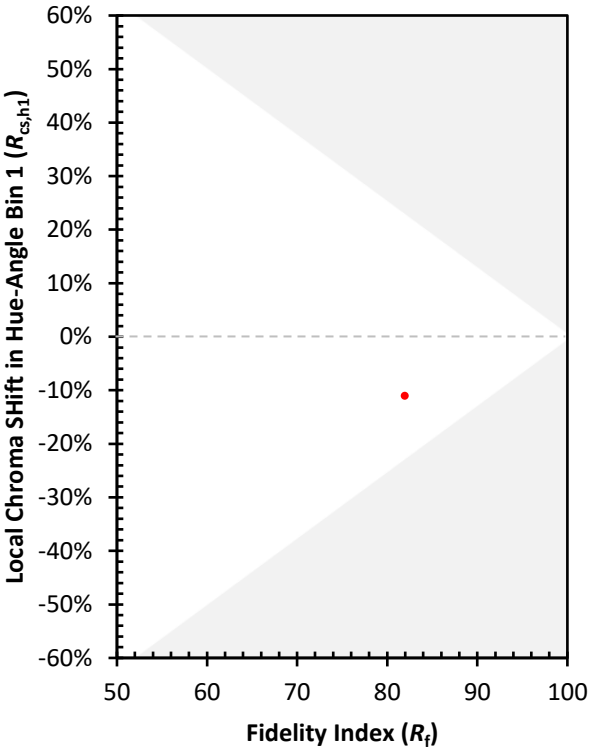



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## Measure Comparisons




(END OF REPORT)