

Classified
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: P459712

Luminaire Tested: **GLEON-SA6A-AMB-U-5MQ**

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459712
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6A-AMB-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6357 lumens
Efficiency: N/A
Efficacy: 53.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 119
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

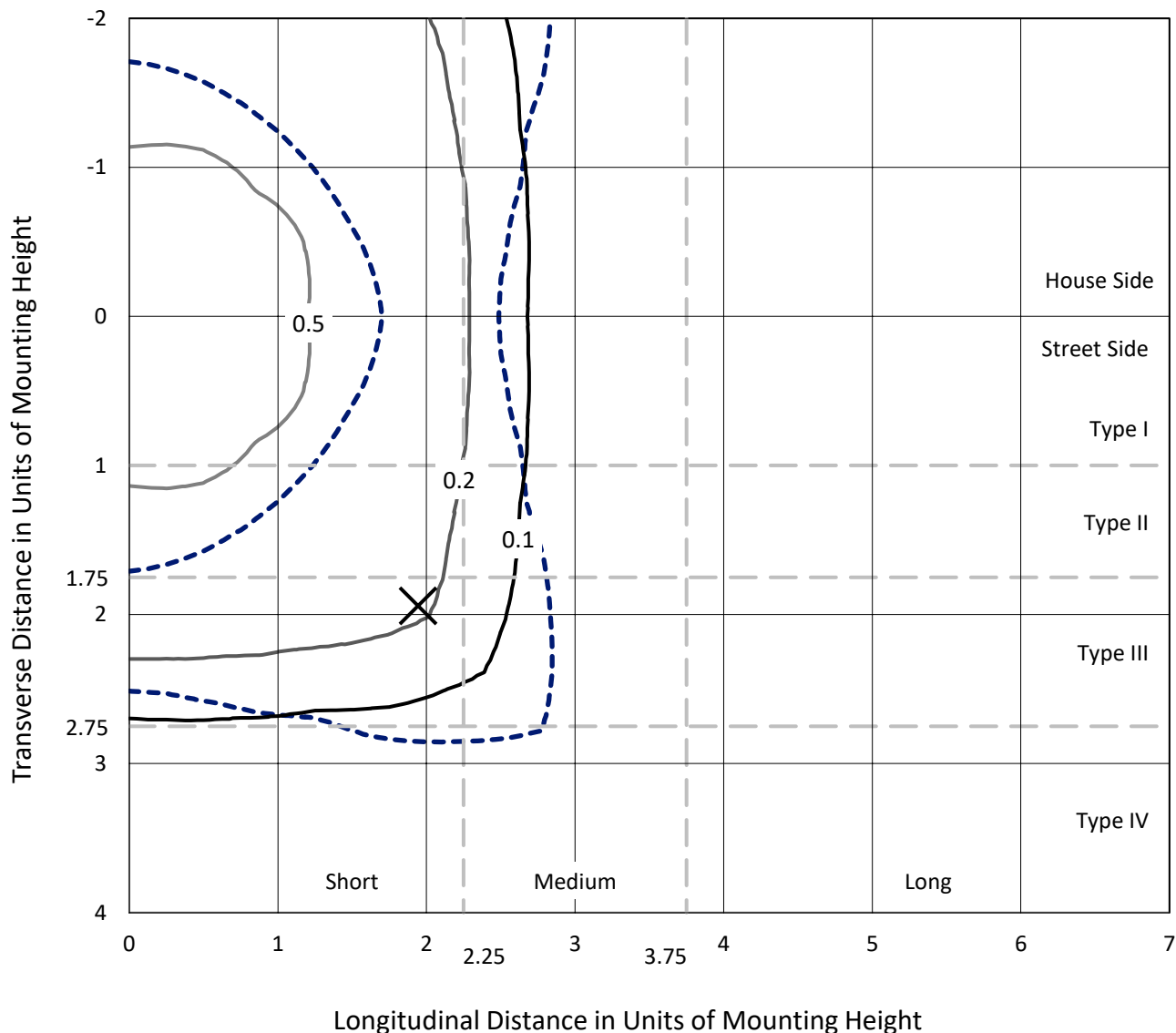




REPORT NUMBER: P459712
 CATALOG NUMBER: GLEON-SA6A-AMB-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

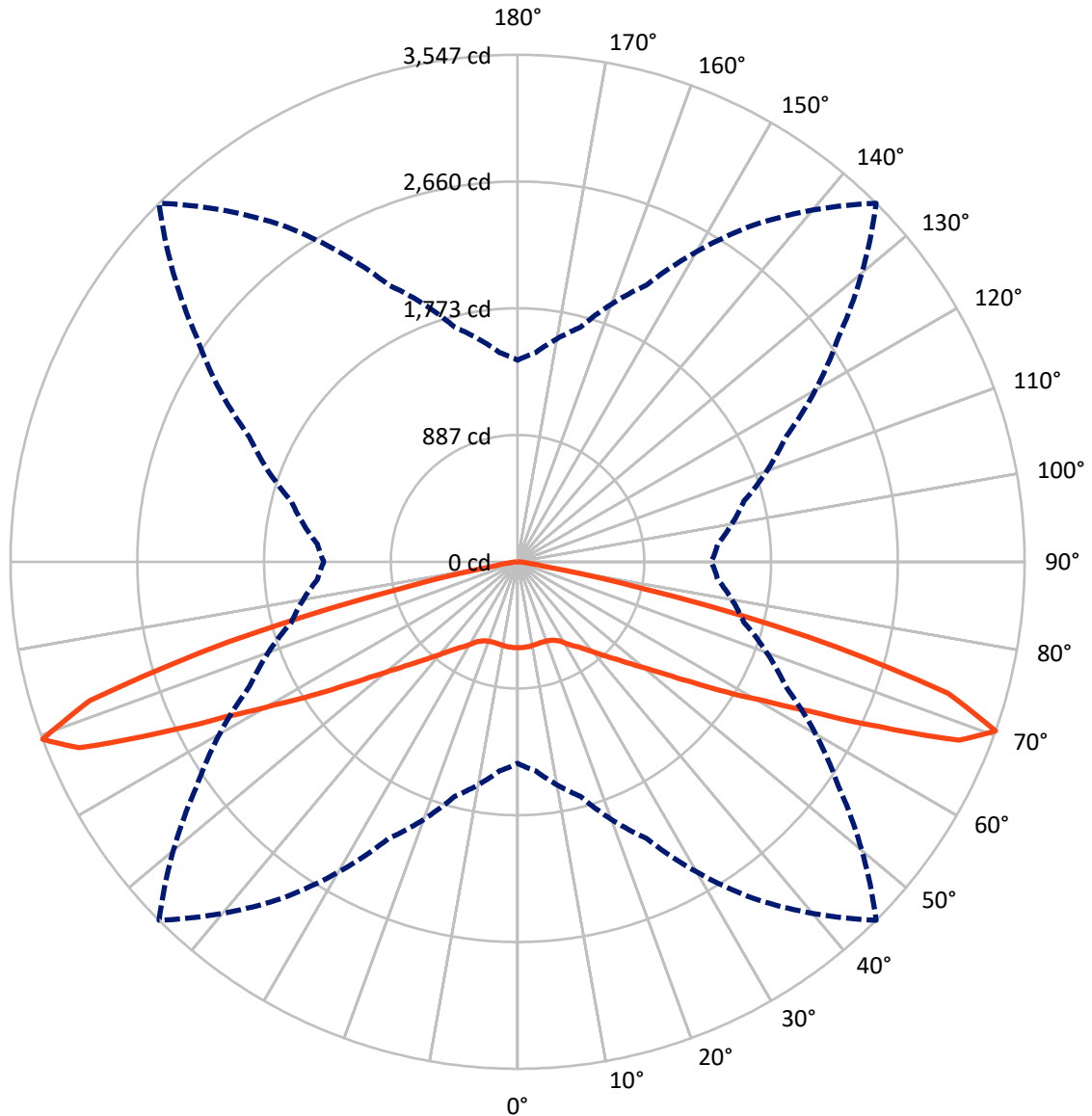
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P459712
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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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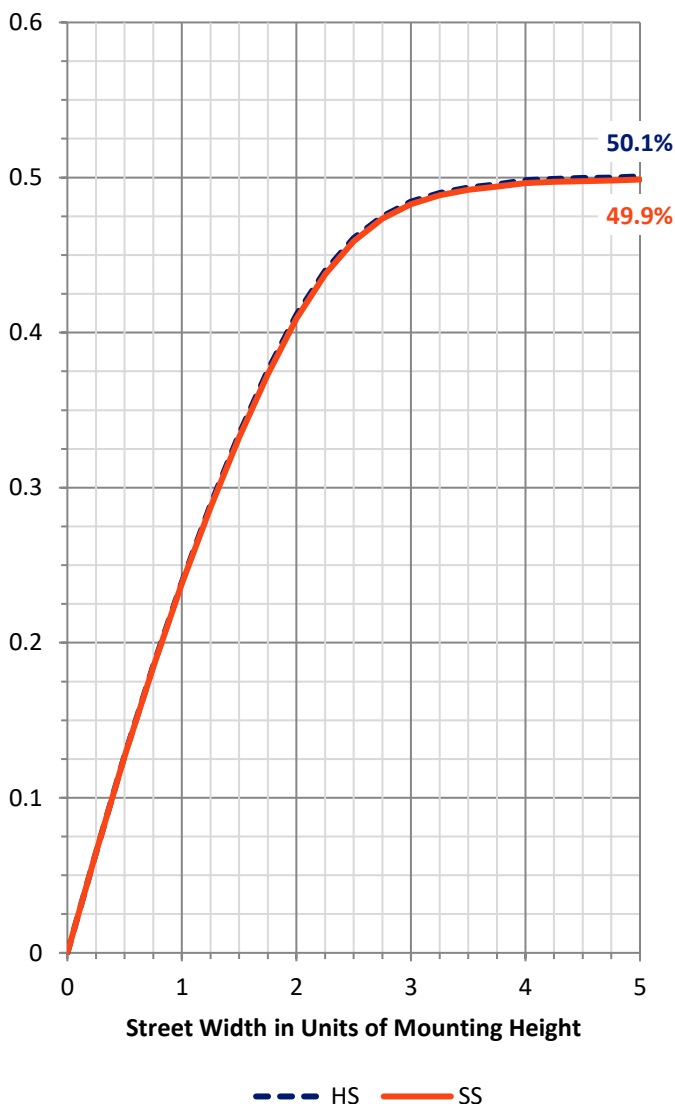
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3178.5 | 0.0 | 3178.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3178.5 | 0.0 | 3178.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 6357.0 | 0.0 | 6357.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 57.2 | 0.9 |
| 10°-20° | 165.9 | 2.6 |
| 20°-30° | 281.2 | 4.4 |
| 30°-40° | 461.0 | 7.3 |
| 40°-50° | 770.9 | 12.1 |
| 50°-60° | 1353.3 | 21.3 |
| 60°-70° | 2223.4 | 35.0 |
| 70°-80° | 1002.3 | 15.8 |
| 80°-90° | 41.7 | 0.7 |
| 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° | 6357.0 | 100.0 |
| 0°-180° | 6357.0 | 100.0 |

Coefficient of Utilization

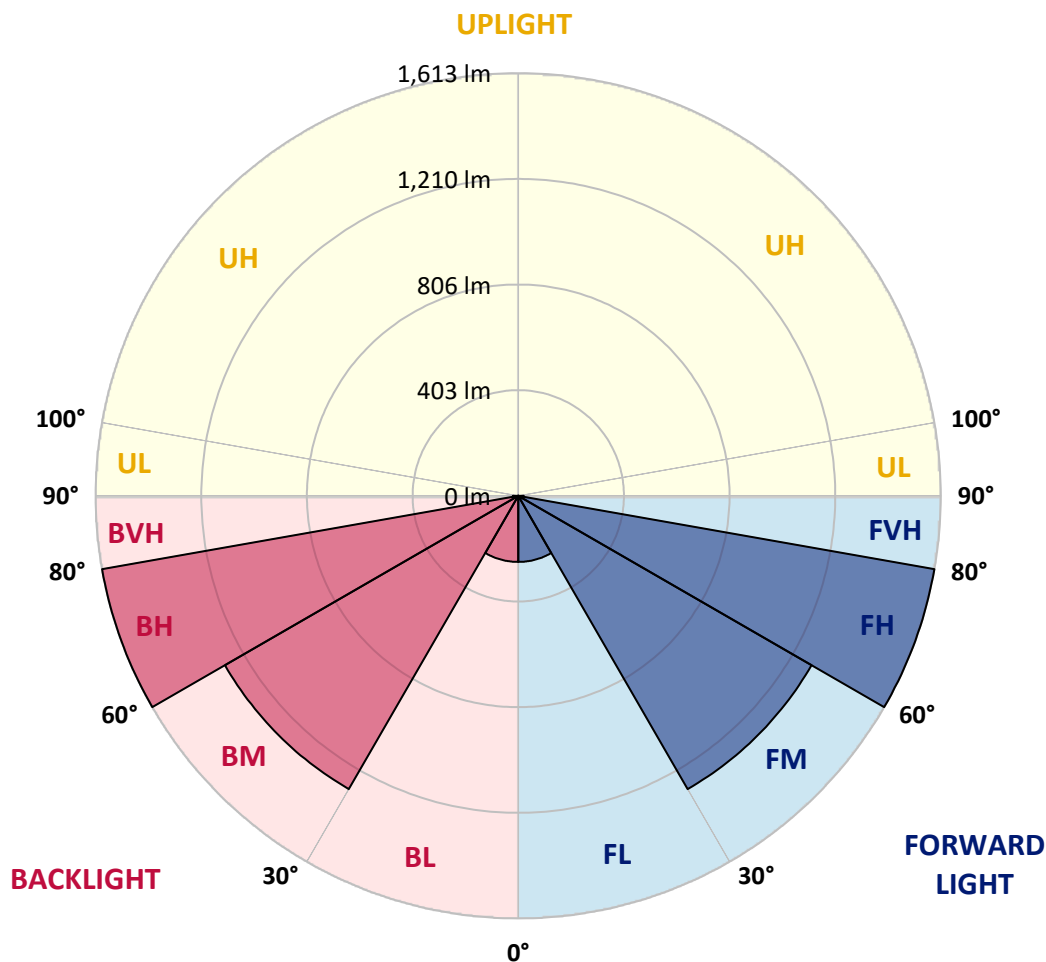


REPORT NUMBER: P459712
 CATALOG NUMBER: GLEON-SA6A-AMB-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 252.2 | 4.0 | | | |
| FM (30°-60°) | 1292.6 | 20.3 | | | |
| FH (60°-80°) | 1612.8 | 25.4 | | | G1/1800 |
| FVH (80°-90°) | 20.9 | 0.3 | | | G1/100 |
| BL (0°-30°) | 252.2 | 4.0 | B1/500 | | |
| BM (30°-60°) | 1292.6 | 20.3 | B2/2500 | | |
| BH (60°-80°) | 1612.8 | 25.4 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 20.9 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1
 Type V Short





REPORT NUMBER: P459712

CATALOG NUMBER: GLEON-SA6A-AMB-U-5MQ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 601.5 | 601.5 | 601.5 | 601.5 | 601.5 | 601.5 | 601.5 | 601.5 | 601.5 | 601.5 | 601.5 |
| 2.5° | 604.1 | 604.1 | 604.1 | 604.1 | 601.5 | 601.5 | 601.5 | 601.5 | 601.5 | 601.5 | 601.5 |
| 5° | 604.1 | 604.1 | 604.1 | 601.5 | 601.5 | 598.9 | 601.5 | 598.9 | 598.9 | 598.9 | 601.5 |
| 7.5° | 604.1 | 604.1 | 604.1 | 601.5 | 601.5 | 598.9 | 598.9 | 596.3 | 596.3 | 596.3 | 596.3 |
| 10° | 596.3 | 596.3 | 596.3 | 596.3 | 596.3 | 593.7 | 593.7 | 591.1 | 591.1 | 591.1 | 591.1 |
| 12.5° | 588.5 | 591.1 | 588.5 | 588.5 | 591.1 | 591.1 | 588.5 | 585.9 | 583.3 | 583.3 | 585.9 |
| 15° | 583.3 | 583.3 | 583.3 | 583.3 | 588.5 | 588.5 | 588.5 | 583.3 | 580.8 | 580.8 | 580.8 |
| 17.5° | 578.2 | 578.2 | 578.2 | 583.3 | 585.9 | 588.5 | 585.9 | 583.3 | 580.8 | 575.6 | 575.6 |
| 20° | 575.6 | 575.6 | 578.2 | 583.3 | 588.5 | 591.1 | 591.1 | 585.9 | 580.8 | 575.6 | 575.6 |
| 22.5° | 575.6 | 575.6 | 580.8 | 588.5 | 593.7 | 596.3 | 596.3 | 591.1 | 585.9 | 580.8 | 580.8 |
| 25° | 585.9 | 583.3 | 588.5 | 598.9 | 606.7 | 609.3 | 611.9 | 604.1 | 596.3 | 591.1 | 588.5 |
| 27.5° | 601.5 | 604.1 | 609.3 | 619.6 | 630.0 | 627.4 | 630.0 | 624.8 | 619.6 | 611.9 | 611.9 |
| 30° | 632.6 | 632.6 | 640.4 | 650.8 | 658.5 | 661.1 | 661.1 | 655.9 | 648.2 | 643.0 | 640.4 |
| 32.5° | 668.9 | 668.9 | 676.7 | 689.6 | 694.8 | 697.4 | 694.8 | 689.6 | 679.3 | 671.5 | 668.9 |
| 35° | 705.2 | 705.2 | 715.6 | 731.1 | 736.3 | 731.1 | 733.7 | 728.5 | 720.8 | 715.6 | 713.0 |
| 37.5° | 749.3 | 749.3 | 762.2 | 775.2 | 783.0 | 777.8 | 785.6 | 783.0 | 772.6 | 767.4 | 764.8 |
| 40° | 801.1 | 803.7 | 816.7 | 832.2 | 832.2 | 834.8 | 842.6 | 845.2 | 834.8 | 829.7 | 824.5 |
| 42.5° | 865.9 | 871.1 | 881.5 | 897.1 | 899.7 | 899.7 | 910.0 | 912.6 | 907.4 | 897.1 | 891.9 |
| 45° | 943.7 | 948.9 | 964.5 | 980.0 | 980.0 | 974.8 | 990.4 | 1003.4 | 993.0 | 977.4 | 972.2 |
| 47.5° | 1034.5 | 1039.7 | 1060.4 | 1073.4 | 1078.5 | 1065.6 | 1088.9 | 1104.5 | 1091.5 | 1081.1 | 1070.8 |
| 50° | 1143.4 | 1153.7 | 1174.5 | 1195.2 | 1190.0 | 1174.5 | 1205.6 | 1223.7 | 1216.0 | 1192.6 | 1184.8 |
| 52.5° | 1260.0 | 1267.8 | 1309.3 | 1330.0 | 1330.0 | 1311.9 | 1353.4 | 1368.9 | 1345.6 | 1314.5 | 1304.1 |
| 55° | 1418.2 | 1415.6 | 1444.1 | 1490.8 | 1508.9 | 1490.8 | 1524.5 | 1529.7 | 1498.6 | 1472.6 | 1454.5 |
| 57.5° | 1581.5 | 1586.7 | 1625.6 | 1669.7 | 1695.6 | 1716.3 | 1716.3 | 1703.4 | 1659.3 | 1610.0 | 1599.7 |
| 60° | 1770.8 | 1786.3 | 1833.0 | 1890.0 | 1941.9 | 1970.4 | 1926.3 | 1900.4 | 1833.0 | 1791.5 | 1776.0 |
| 62.5° | 1980.8 | 2001.5 | 2071.5 | 2164.9 | 2247.8 | 2304.9 | 2232.3 | 2159.7 | 2074.1 | 2009.3 | 1998.9 |
| 65° | 2045.6 | 2063.8 | 2201.2 | 2403.4 | 2647.1 | 2781.9 | 2551.2 | 2377.5 | 2175.2 | 2040.4 | 2024.9 |
| 67.5° | 1903.0 | 1910.8 | 2084.5 | 2431.9 | 2921.9 | 3329.0 | 2820.8 | 2385.2 | 2076.7 | 1882.3 | 1871.9 |
| 70° | 1410.4 | 1470.0 | 1698.2 | 2136.4 | 2875.3 | 3546.8 | 2740.4 | 2071.5 | 1638.6 | 1405.2 | 1356.0 |
| 72.5° | 827.1 | 814.1 | 987.8 | 1418.2 | 2348.9 | 3147.5 | 2229.7 | 1405.2 | 1008.5 | 832.2 | 793.4 |
| 75° | 324.1 | 329.3 | 412.2 | 655.9 | 1330.0 | 2097.5 | 1335.2 | 661.1 | 368.2 | 300.7 | 298.2 |
| 77.5° | 111.5 | 114.1 | 124.4 | 158.2 | 427.8 | 865.9 | 440.8 | 160.7 | 121.9 | 129.6 | 132.2 |
| 80° | 70.0 | 67.4 | 75.2 | 77.8 | 93.3 | 171.1 | 101.1 | 83.0 | 80.4 | 80.4 | 83.0 |
| 82.5° | 36.3 | 38.9 | 51.9 | 54.4 | 57.0 | 64.8 | 64.8 | 62.2 | 54.4 | 41.5 | 36.3 |
| 85° | 23.3 | 18.1 | 36.3 | 38.9 | 36.3 | 33.7 | 41.5 | 46.7 | 41.5 | 23.3 | 25.9 |
| 87.5° | 10.4 | 10.4 | 18.1 | 18.1 | 18.1 | 13.0 | 18.1 | 25.9 | 25.9 | 10.4 | 10.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Signify Classified - Internal
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

STREETWORKS

Report Number: SP1-2005-791-1-R5

Test Date: 05/26/2020

Luminaire Tested: Light Squares Family Amber Color

Data in this report applies to families of products including Light Squares Family Amber Color

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2005-791-1-R5
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 02/07/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: STREETWORKS
 Catalog Number: **Light Squares Family Amber Color**
 Description: Light Squares Family Amber Color

Spectral Parameters

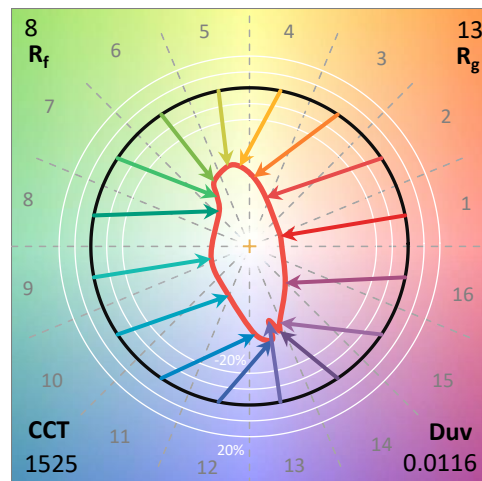
CCT (K): 1525
 CIE u': 0.3546
 CIE v': 0.5459
 Duv: 0.0116
 CIE x: 0.5918
 CIE y: 0.4049
 CIE z: 0.0033
 Peak Wavelength (nm): 597
 Dominant Wavelength (nm): 593
 Purity: 99.6

| | | | |
|-----------|--------|------|--------|
| CRI (Ra): | -20.7 | | |
| R1: | -32.5 | R9: | -382.8 |
| R2: | 55.0 | R10: | 34.9 |
| R3: | 15.4 | R11: | -92.4 |
| R4: | -67.7 | R12: | 2.7 |
| R5: | -38.7 | R13: | -12.7 |
| R6: | 47.4 | R14: | 45.0 |
| R7: | -9.2 | | |
| R8: | -135.0 | | |

Rf: 8.4
 Rg: 12.9

Test Conditions

Stabilization Time: 65M
 Operation Time: 12H
 Room Temperature (°C) / RH%: 25.6/42%
 Sphere Temperature (°C): 25.2

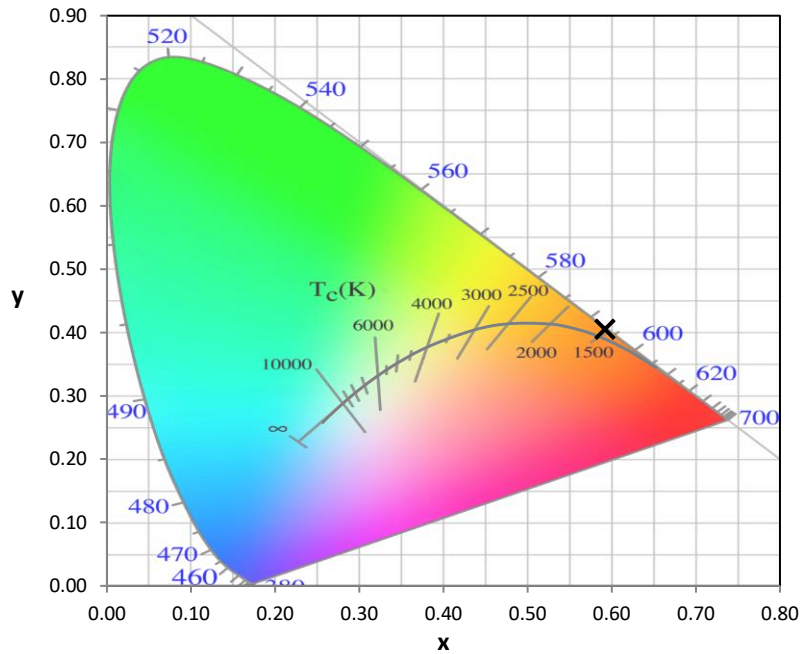


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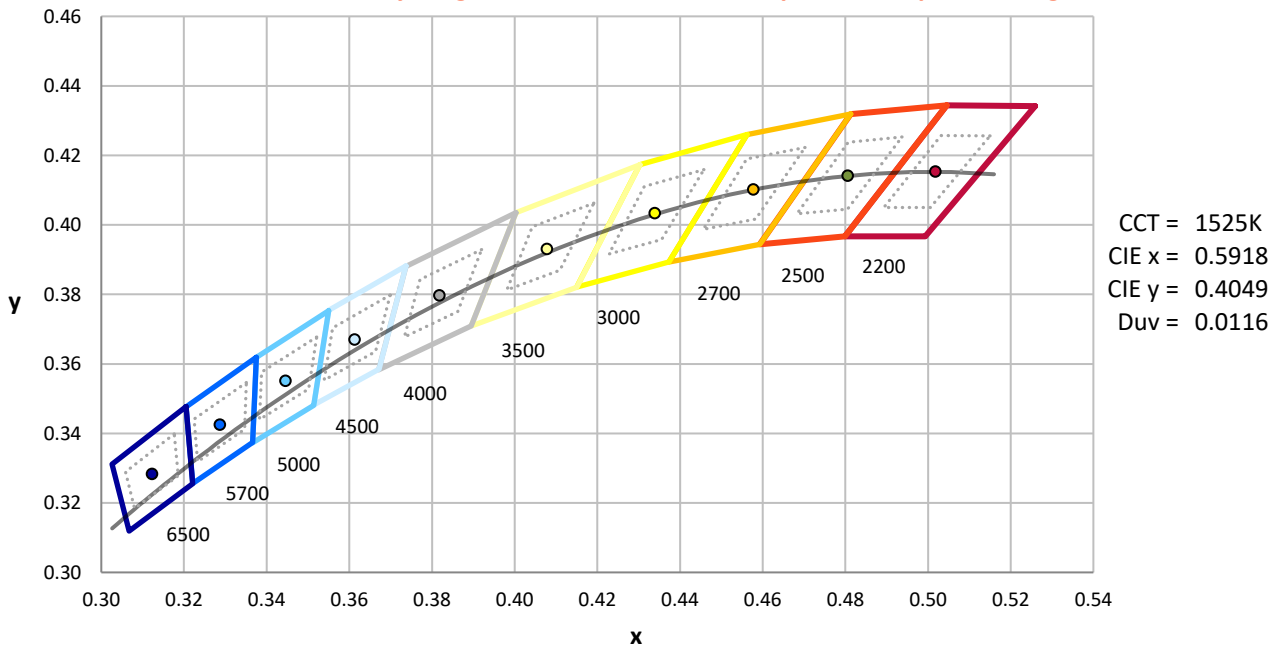
| Measurement and Test Equipment | | | |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | 76INCH SPHERE IN0058 | 1/17/2020 | 7/17/2020 |
| Power Meter | XITRON 2801 IN0071 | 12/3/2019 | 12/3/2020 |
| AC Power Source | CHROMA 61603 IN0063 | 12/3/2019 | 12/3/2020 |
| DC Power Source | AGILENT E3634A IN0208 | 12/3/2019 | 12/3/2020 |
| Sphere Thermometer | ONSET IN0085 | 12/3/2019 | 12/3/2020 |
| Room Thermometer | ONSET IN0046 | 12/3/2019 | 12/3/2020 |

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CIE 1931 Chromaticity Diagram



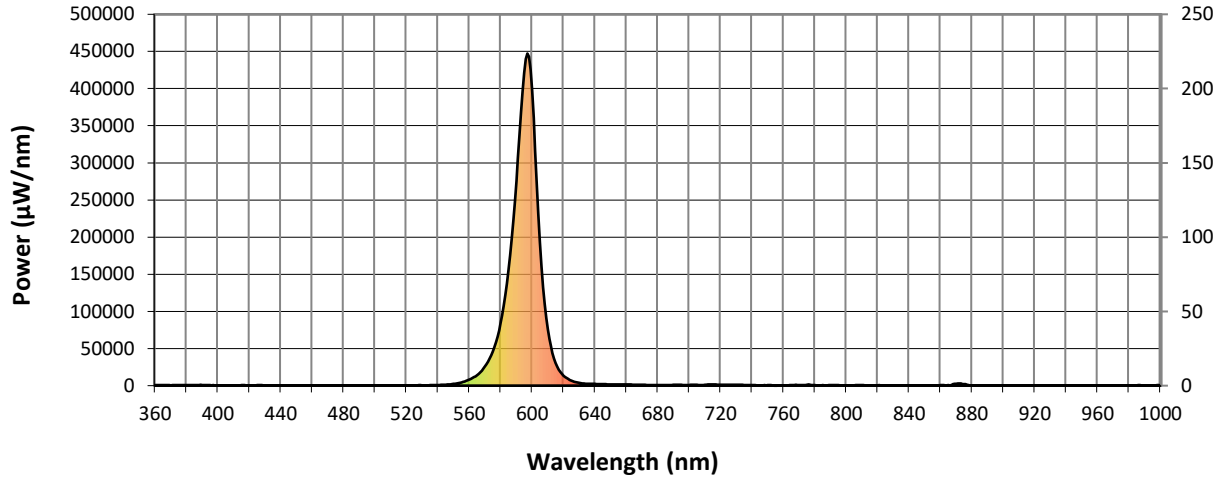
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies outside the range

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Photopic Flux vs. Wavelength

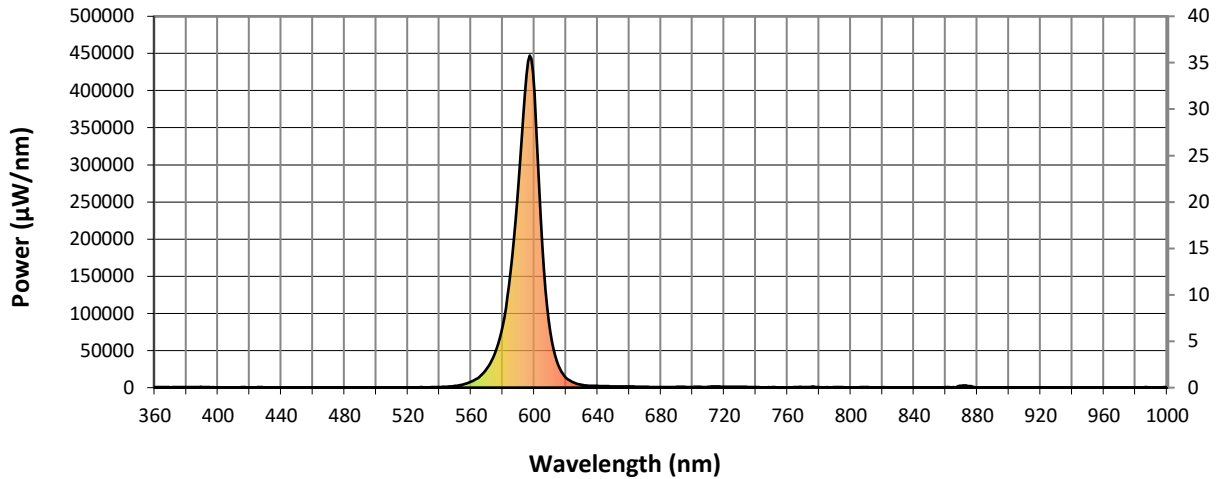


#####

| λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) |
|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|
| 360 | 818 | NR | 490 | 224 | NR | 620 | 13485 | NR | 750 | 666 | NR | 880 | 467 | NR |
| 365 | 765 | NR | 495 | 377 | NR | 625 | 6667 | NR | 755 | 63 | NR | 885 | 232 | NR |
| 370 | 529 | NR | 500 | 342 | NR | 630 | 3617 | NR | 760 | 170 | NR | 890 | 396 | NR |
| 375 | 859 | NR | 505 | 327 | NR | 635 | 2624 | NR | 765 | 772 | NR | 895 | 250 | NR |
| 380 | 838 | NR | 510 | 403 | NR | 640 | 2321 | NR | 770 | 684 | NR | 900 | 194 | NR |
| 385 | 931 | NR | 515 | 396 | NR | 645 | 2019 | NR | 775 | 1108 | NR | 905 | 303 | NR |
| 390 | 814 | NR | 520 | 478 | NR | 650 | 1694 | NR | 780 | 562 | NR | 910 | 335 | NR |
| 395 | 695 | NR | 525 | 468 | NR | 655 | 1437 | NR | 785 | 582 | NR | 915 | 255 | NR |
| 400 | 338 | NR | 530 | 527 | NR | 660 | 1541 | NR | 790 | 675 | NR | 920 | 182 | NR |
| 405 | 555 | NR | 535 | 574 | NR | 665 | 1318 | NR | 795 | 578 | NR | 925 | 228 | NR |
| 410 | 491 | NR | 540 | 823 | NR | 670 | 1092 | NR | 800 | 147 | NR | 930 | 239 | NR |
| 415 | 563 | NR | 545 | 1340 | NR | 675 | 936 | NR | 805 | 559 | NR | 935 | 148 | NR |
| 420 | 360 | NR | 550 | 2313 | NR | 680 | 727 | NR | 810 | 727 | NR | 940 | 308 | NR |
| 425 | 598 | NR | 555 | 4294 | NR | 685 | 833 | NR | 815 | 444 | NR | 945 | 313 | NR |
| 430 | 464 | NR | 560 | 8017 | NR | 690 | 1005 | NR | 820 | 479 | NR | 950 | 345 | NR |
| 435 | 440 | NR | 565 | 14123 | NR | 695 | 1012 | NR | 825 | 224 | NR | 955 | 229 | NR |
| 440 | 368 | NR | 570 | 25560 | NR | 700 | 962 | NR | 830 | 333 | NR | 960 | 363 | NR |
| 445 | 428 | NR | 575 | 45938 | NR | 705 | 994 | NR | 835 | 379 | NR | 965 | 412 | NR |
| 450 | 279 | NR | 580 | 84007 | NR | 710 | 1014 | NR | 840 | 285 | NR | 970 | 272 | NR |
| 455 | 407 | NR | 585 | 155807 | NR | 715 | 1458 | NR | 845 | 333 | NR | 975 | 345 | NR |
| 460 | 365 | NR | 590 | 275552 | NR | 720 | 1076 | NR | 850 | 385 | NR | 980 | 449 | NR |
| 465 | 328 | NR | 595 | 421402 | NR | 725 | 1113 | NR | 855 | 558 | NR | 985 | 501 | NR |
| 470 | 249 | NR | 600 | 396839 | NR | 730 | 1144 | NR | 860 | 663 | NR | 990 | 343 | NR |
| 475 | 277 | NR | 605 | 193475 | NR | 735 | 799 | NR | 865 | 591 | NR | 995 | 152 | NR |
| 480 | 229 | NR | 610 | 75719 | NR | 740 | 692 | NR | 870 | 2634 | NR | 1000 | 132 | NR |
| 485 | 185 | NR | 615 | 30466 | NR | 745 | 414 | NR | 875 | 2146 | NR | | | |

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Scotopic Flux vs. Wavelength



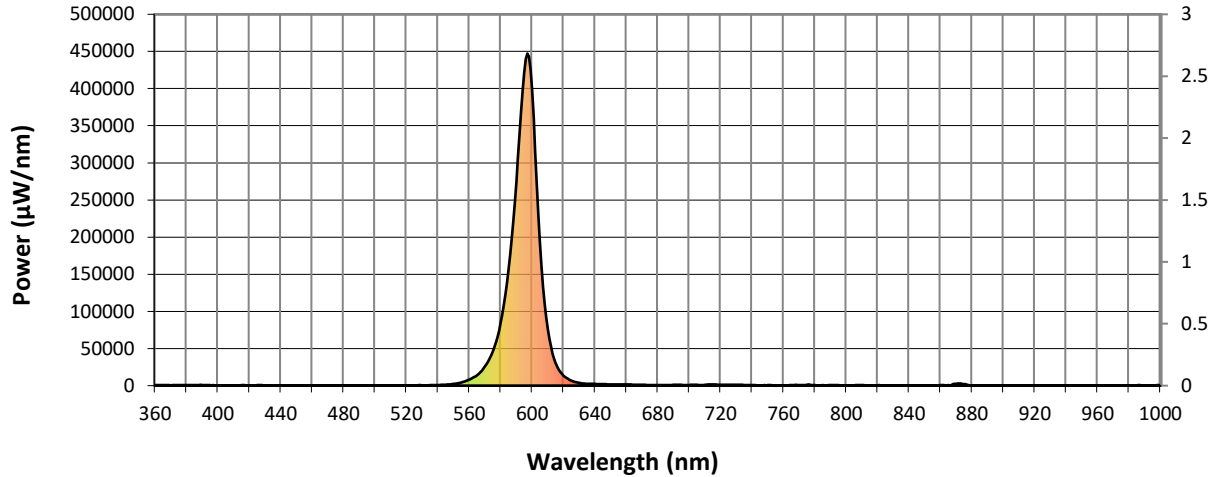
Scotopic Lumens: 939.9

S/P: 0.23

| λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) |
|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|
| 360 | 818 | NR | 490 | 224 | NR | 620 | 13485 | NR | 750 | 666 | NR | 880 | 467 | NR |
| 365 | 765 | NR | 495 | 377 | NR | 625 | 6667 | NR | 755 | 63 | NR | 885 | 232 | NR |
| 370 | 529 | NR | 500 | 342 | NR | 630 | 3617 | NR | 760 | 170 | NR | 890 | 396 | NR |
| 375 | 859 | NR | 505 | 327 | NR | 635 | 2624 | NR | 765 | 772 | NR | 895 | 250 | NR |
| 380 | 838 | NR | 510 | 403 | NR | 640 | 2321 | NR | 770 | 684 | NR | 900 | 194 | NR |
| 385 | 931 | NR | 515 | 396 | NR | 645 | 2019 | NR | 775 | 1108 | NR | 905 | 303 | NR |
| 390 | 814 | NR | 520 | 478 | NR | 650 | 1694 | NR | 780 | 562 | NR | 910 | 335 | NR |
| 395 | 695 | NR | 525 | 468 | NR | 655 | 1437 | NR | 785 | 582 | NR | 915 | 255 | NR |
| 400 | 338 | NR | 530 | 527 | NR | 660 | 1541 | NR | 790 | 675 | NR | 920 | 182 | NR |
| 405 | 555 | NR | 535 | 574 | NR | 665 | 1318 | NR | 795 | 578 | NR | 925 | 228 | NR |
| 410 | 491 | NR | 540 | 823 | NR | 670 | 1092 | NR | 800 | 147 | NR | 930 | 239 | NR |
| 415 | 563 | NR | 545 | 1340 | NR | 675 | 936 | NR | 805 | 559 | NR | 935 | 148 | NR |
| 420 | 360 | NR | 550 | 2313 | NR | 680 | 727 | NR | 810 | 727 | NR | 940 | 308 | NR |
| 425 | 598 | NR | 555 | 4294 | NR | 685 | 833 | NR | 815 | 444 | NR | 945 | 313 | NR |
| 430 | 464 | NR | 560 | 8017 | NR | 690 | 1005 | NR | 820 | 479 | NR | 950 | 345 | NR |
| 435 | 440 | NR | 565 | 14123 | NR | 695 | 1012 | NR | 825 | 224 | NR | 955 | 229 | NR |
| 440 | 368 | NR | 570 | 25560 | NR | 700 | 962 | NR | 830 | 333 | NR | 960 | 363 | NR |
| 445 | 428 | NR | 575 | 45938 | NR | 705 | 994 | NR | 835 | 379 | NR | 965 | 412 | NR |
| 450 | 279 | NR | 580 | 84007 | NR | 710 | 1014 | NR | 840 | 285 | NR | 970 | 272 | NR |
| 455 | 407 | NR | 585 | 155807 | NR | 715 | 1458 | NR | 845 | 333 | NR | 975 | 345 | NR |
| 460 | 365 | NR | 590 | 275552 | NR | 720 | 1076 | NR | 850 | 385 | NR | 980 | 449 | NR |
| 465 | 328 | NR | 595 | 421402 | NR | 725 | 1113 | NR | 855 | 558 | NR | 985 | 501 | NR |
| 470 | 249 | NR | 600 | 396839 | NR | 730 | 1144 | NR | 860 | 663 | NR | 990 | 343 | NR |
| 475 | 277 | NR | 605 | 193475 | NR | 735 | 799 | NR | 865 | 591 | NR | 995 | 152 | NR |
| 480 | 229 | NR | 610 | 75719 | NR | 740 | 692 | NR | 870 | 2634 | NR | 1000 | 132 | NR |
| 485 | 185 | NR | 615 | 30466 | NR | 745 | 414 | NR | 875 | 2146 | NR | | | |

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Melanopic Flux vs. Wavelength



Melanopic Lumens: 115.1 M/P: 0.03

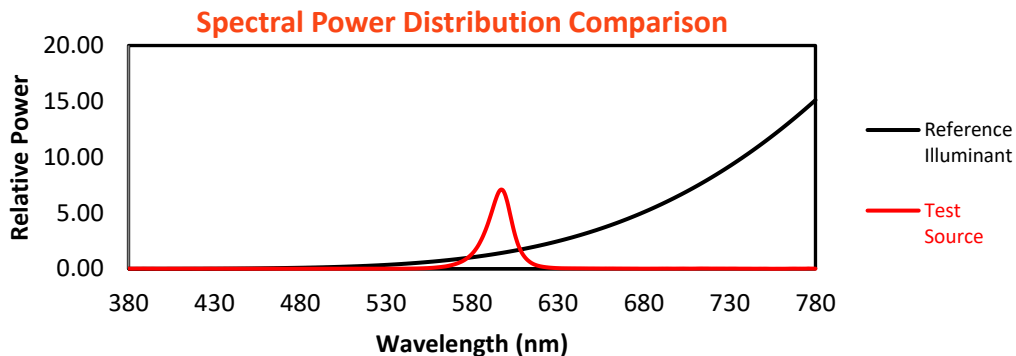
| λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) |
|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|
| 360 | 818 | NR | 490 | 224 | NR | 620 | 13485 | NR | 750 | 666 | NR | 880 | 467 | NR |
| 365 | 765 | NR | 495 | 377 | NR | 625 | 6667 | NR | 755 | 63 | NR | 885 | 232 | NR |
| 370 | 529 | NR | 500 | 342 | NR | 630 | 3617 | NR | 760 | 170 | NR | 890 | 396 | NR |
| 375 | 859 | NR | 505 | 327 | NR | 635 | 2624 | NR | 765 | 772 | NR | 895 | 250 | NR |
| 380 | 838 | NR | 510 | 403 | NR | 640 | 2321 | NR | 770 | 684 | NR | 900 | 194 | NR |
| 385 | 931 | NR | 515 | 396 | NR | 645 | 2019 | NR | 775 | 1108 | NR | 905 | 303 | NR |
| 390 | 814 | NR | 520 | 478 | NR | 650 | 1694 | NR | 780 | 562 | NR | 910 | 335 | NR |
| 395 | 695 | NR | 525 | 468 | NR | 655 | 1437 | NR | 785 | 582 | NR | 915 | 255 | NR |
| 400 | 338 | NR | 530 | 527 | NR | 660 | 1541 | NR | 790 | 675 | NR | 920 | 182 | NR |
| 405 | 555 | NR | 535 | 574 | NR | 665 | 1318 | NR | 795 | 578 | NR | 925 | 228 | NR |
| 410 | 491 | NR | 540 | 823 | NR | 670 | 1092 | NR | 800 | 147 | NR | 930 | 239 | NR |
| 415 | 563 | NR | 545 | 1340 | NR | 675 | 936 | NR | 805 | 559 | NR | 935 | 148 | NR |
| 420 | 360 | NR | 550 | 2313 | NR | 680 | 727 | NR | 810 | 727 | NR | 940 | 308 | NR |
| 425 | 598 | NR | 555 | 4294 | NR | 685 | 833 | NR | 815 | 444 | NR | 945 | 313 | NR |
| 430 | 464 | NR | 560 | 8017 | NR | 690 | 1005 | NR | 820 | 479 | NR | 950 | 345 | NR |
| 435 | 440 | NR | 565 | 14123 | NR | 695 | 1012 | NR | 825 | 224 | NR | 955 | 229 | NR |
| 440 | 368 | NR | 570 | 25560 | NR | 700 | 962 | NR | 830 | 333 | NR | 960 | 363 | NR |
| 445 | 428 | NR | 575 | 45938 | NR | 705 | 994 | NR | 835 | 379 | NR | 965 | 412 | NR |
| 450 | 279 | NR | 580 | 84007 | NR | 710 | 1014 | NR | 840 | 285 | NR | 970 | 272 | NR |
| 455 | 407 | NR | 585 | 155807 | NR | 715 | 1458 | NR | 845 | 333 | NR | 975 | 345 | NR |
| 460 | 365 | NR | 590 | 275552 | NR | 720 | 1076 | NR | 850 | 385 | NR | 980 | 449 | NR |
| 465 | 328 | NR | 595 | 421402 | NR | 725 | 1113 | NR | 855 | 558 | NR | 985 | 501 | NR |
| 470 | 249 | NR | 600 | 396839 | NR | 730 | 1144 | NR | 860 | 663 | NR | 990 | 343 | NR |
| 475 | 277 | NR | 605 | 193475 | NR | 735 | 799 | NR | 865 | 591 | NR | 995 | 152 | NR |
| 480 | 229 | NR | 610 | 75719 | NR | 740 | 692 | NR | 870 | 2634 | NR | 1000 | 132 | NR |
| 485 | 185 | NR | 615 | 30466 | NR | 745 | 414 | NR | 875 | 2146 | NR | | | |

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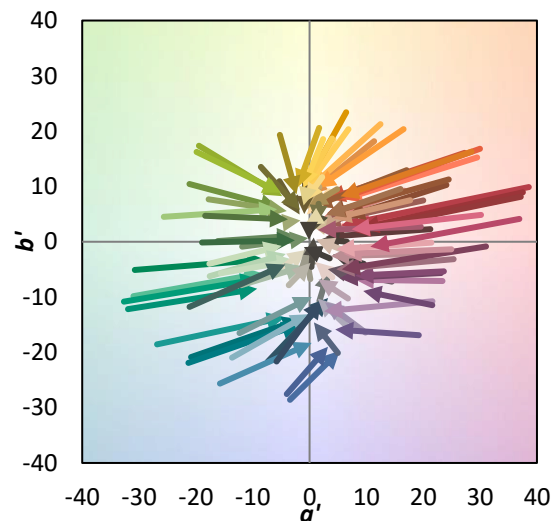
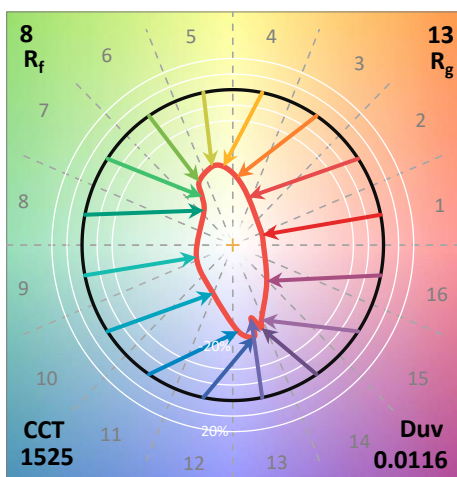
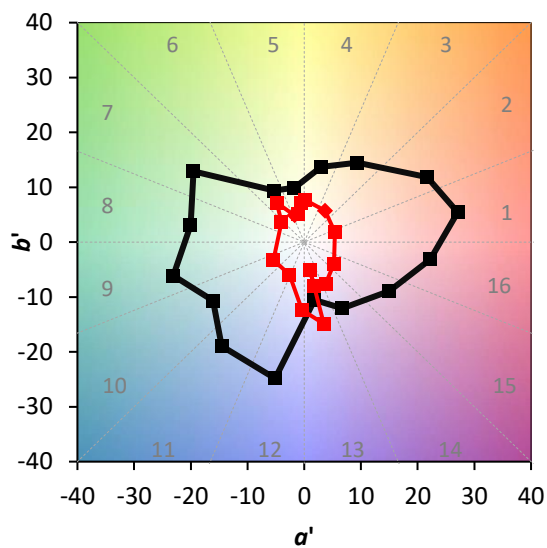
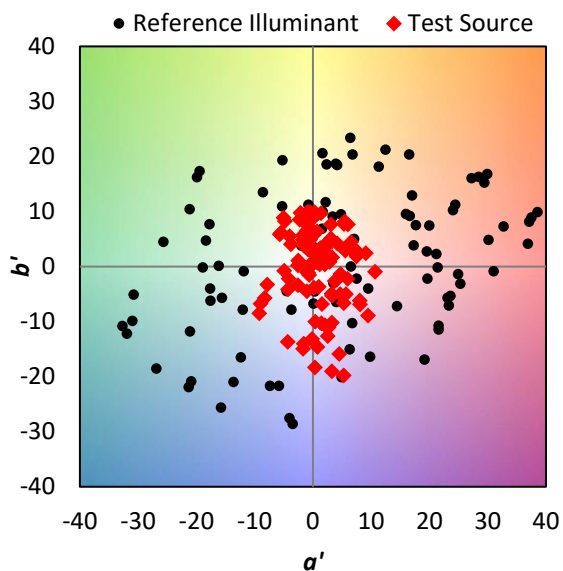
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Summary

$R_f = 8.4$
 $R_g = 12.9$
 CIE $R_a = -20.7$
 $R_9 = -382.8$



Color Vector Graphics

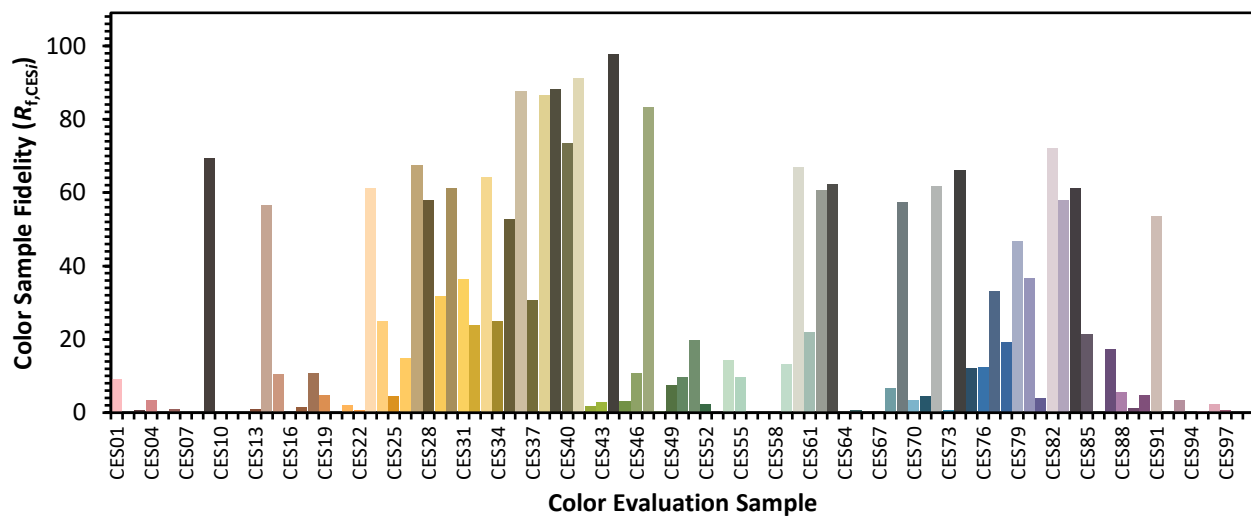


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Individual Sample Fidelity Index ($R_{f,i}$)

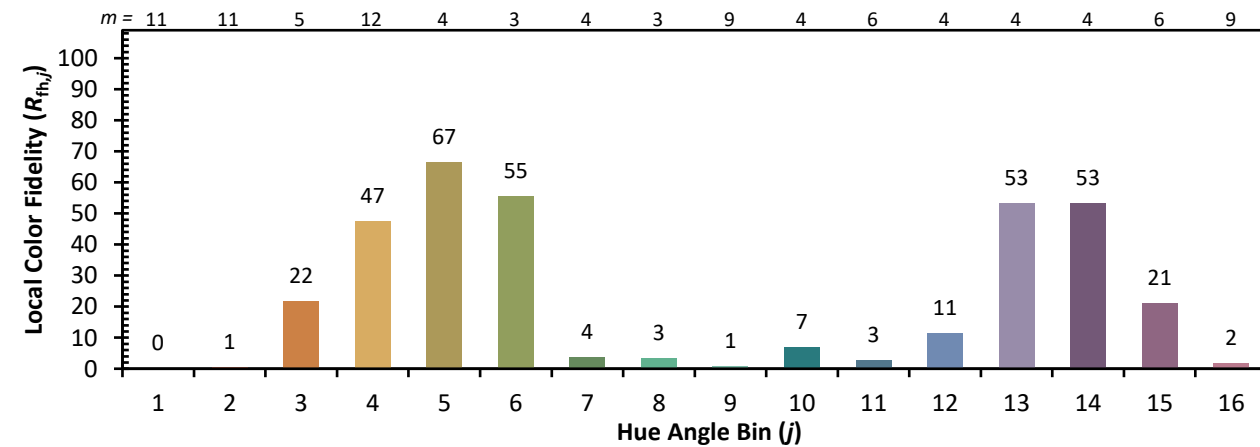
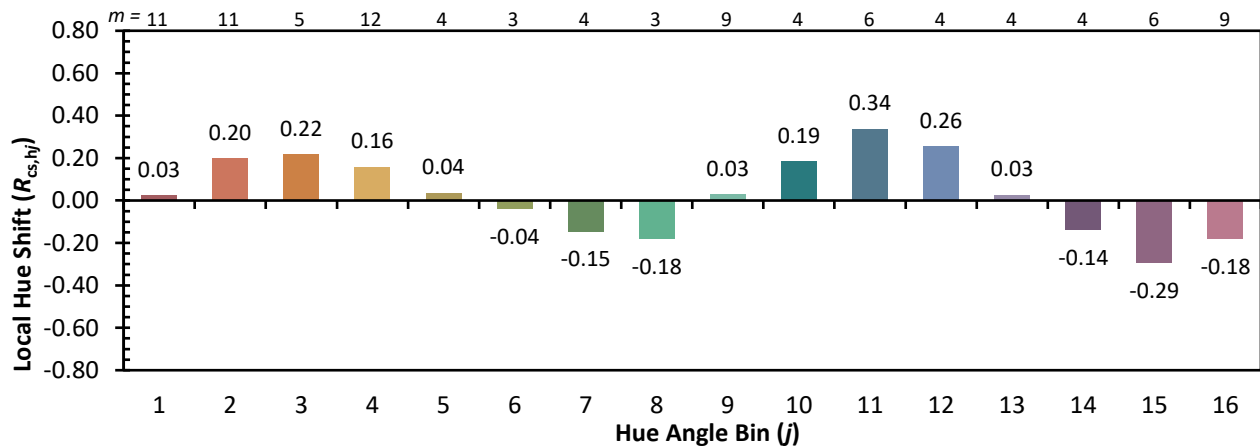
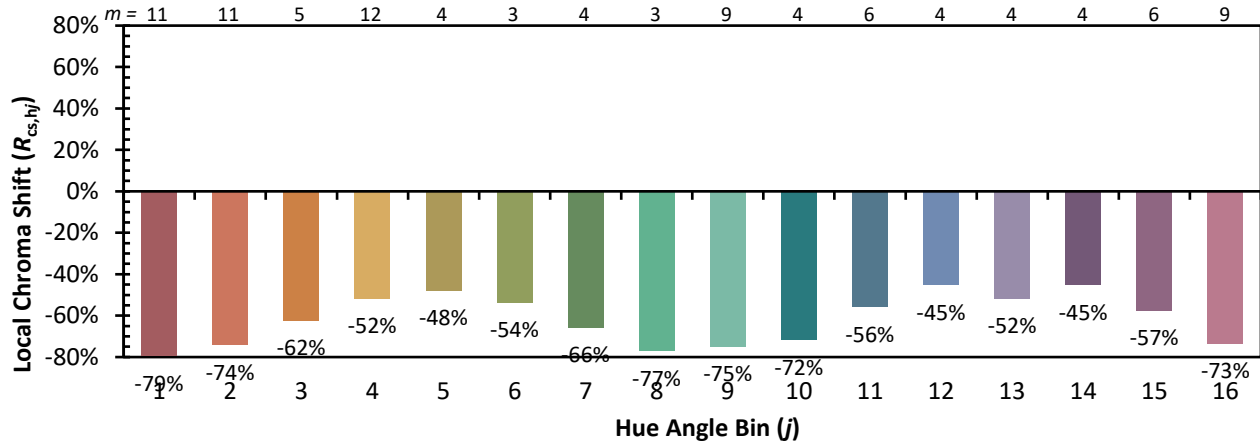
| | | | |
|------------|------------|------------|------------|
| CES01 = 90 | CES26 = 15 | CES51 = 20 | CES76 = 12 |
| CES02 = 69 | CES27 = 67 | CES52 = 2 | CES77 = 33 |
| CES03 = 31 | CES28 = 58 | CES53 = 0 | CES78 = 19 |
| CES04 = 77 | CES29 = 32 | CES54 = 14 | CES79 = 47 |
| CES05 = 52 | CES30 = 61 | CES55 = 10 | CES80 = 37 |
| CES06 = 56 | CES31 = 36 | CES56 = 0 | CES81 = 4 |
| CES07 = 41 | CES32 = 24 | CES57 = 0 | CES82 = 72 |
| CES08 = 38 | CES33 = 64 | CES58 = 0 | CES83 = 58 |
| CES09 = 29 | CES34 = 25 | CES59 = 13 | CES84 = 61 |
| CES10 = 87 | CES35 = 53 | CES60 = 67 | CES85 = 21 |
| CES11 = 70 | CES36 = 88 | CES61 = 22 | CES86 = 0 |
| CES12 = 75 | CES37 = 31 | CES62 = 61 | CES87 = 17 |
| CES13 = 47 | CES38 = 86 | CES63 = 62 | CES88 = 5 |
| CES14 = 76 | CES39 = 88 | CES64 = 0 | CES89 = 1 |
| CES15 = 74 | CES40 = 74 | CES65 = 1 | CES90 = 5 |
| CES16 = 49 | CES41 = 91 | CES66 = 0 | CES91 = 54 |
| CES17 = 55 | CES42 = 2 | CES67 = 0 | CES92 = 0 |
| CES18 = 59 | CES43 = 3 | CES68 = 7 | CES93 = 3 |
| CES19 = 80 | CES44 = 98 | CES69 = 57 | CES94 = 0 |
| CES20 = 71 | CES45 = 3 | CES70 = 3 | CES95 = 0 |
| CES21 = 94 | CES46 = 11 | CES71 = 5 | CES96 = 2 |
| CES22 = 86 | CES47 = 83 | CES72 = 62 | CES97 = 1 |
| CES23 = 93 | CES48 = 0 | CES73 = 1 | CES98 = 0 |
| CES24 = 95 | CES49 = 7 | CES74 = 66 | CES99 = 0 |
| CES25 = 78 | CES50 = 10 | CES75 = 12 | |



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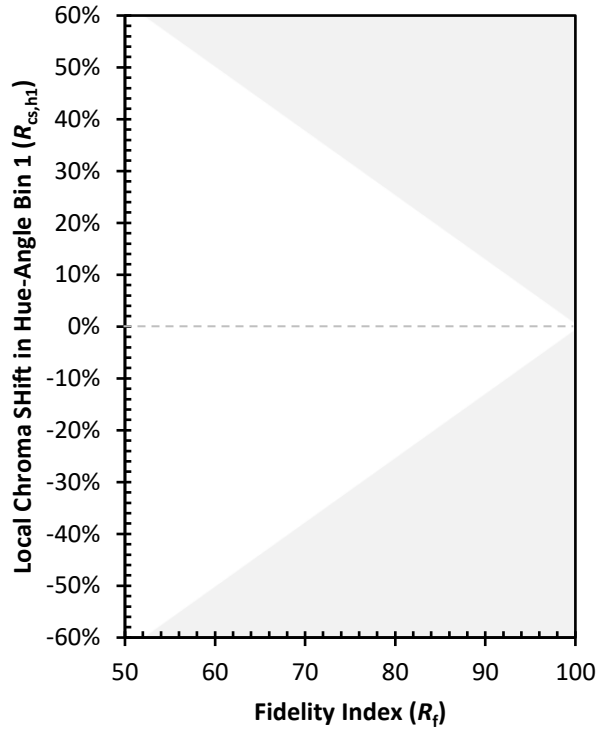
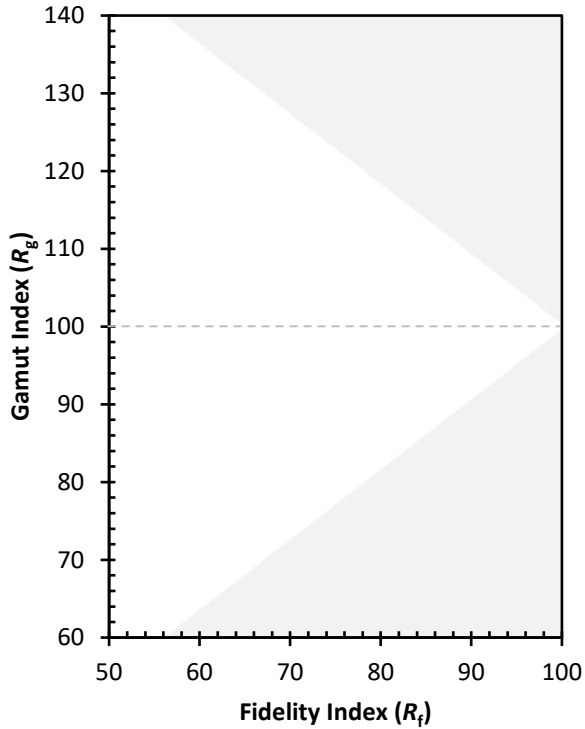
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)