

Signify Classified - Internal  
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: STREETWORKS

Report Number: P579541

Luminaire Tested: **CST-CA10-760-750-U-T5N-HSS-HM-EX120**

Issue Date: 11/18/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P579541  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 11/18/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CST-CA10-760-750-U-T5N-HSS-HM-EX120  
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD  
Light Source: (10) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 85216 lumens  
Efficiency: N/A  
Efficacy: 111.8 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U2 - G5

Input Watts (W): 761.9  
Input Voltage (V): 120  
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: 24 FT

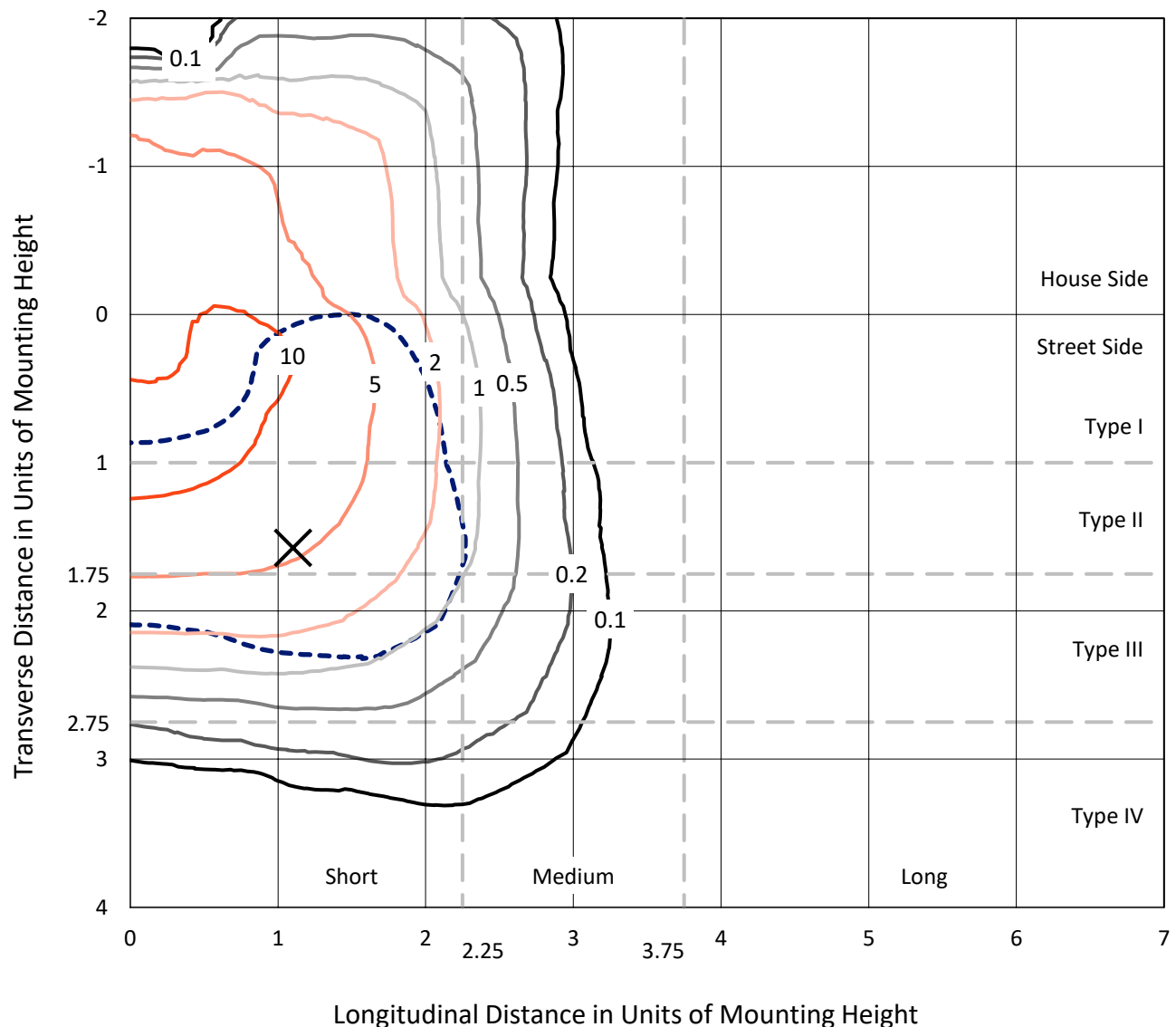


REPORT NUMBER: P579541

CATALOG NUMBER: CST-CA10-760-750-U-T5N-HSS-HM-EX120

## Iso-Footcandle Lines of Horizontal Illumination

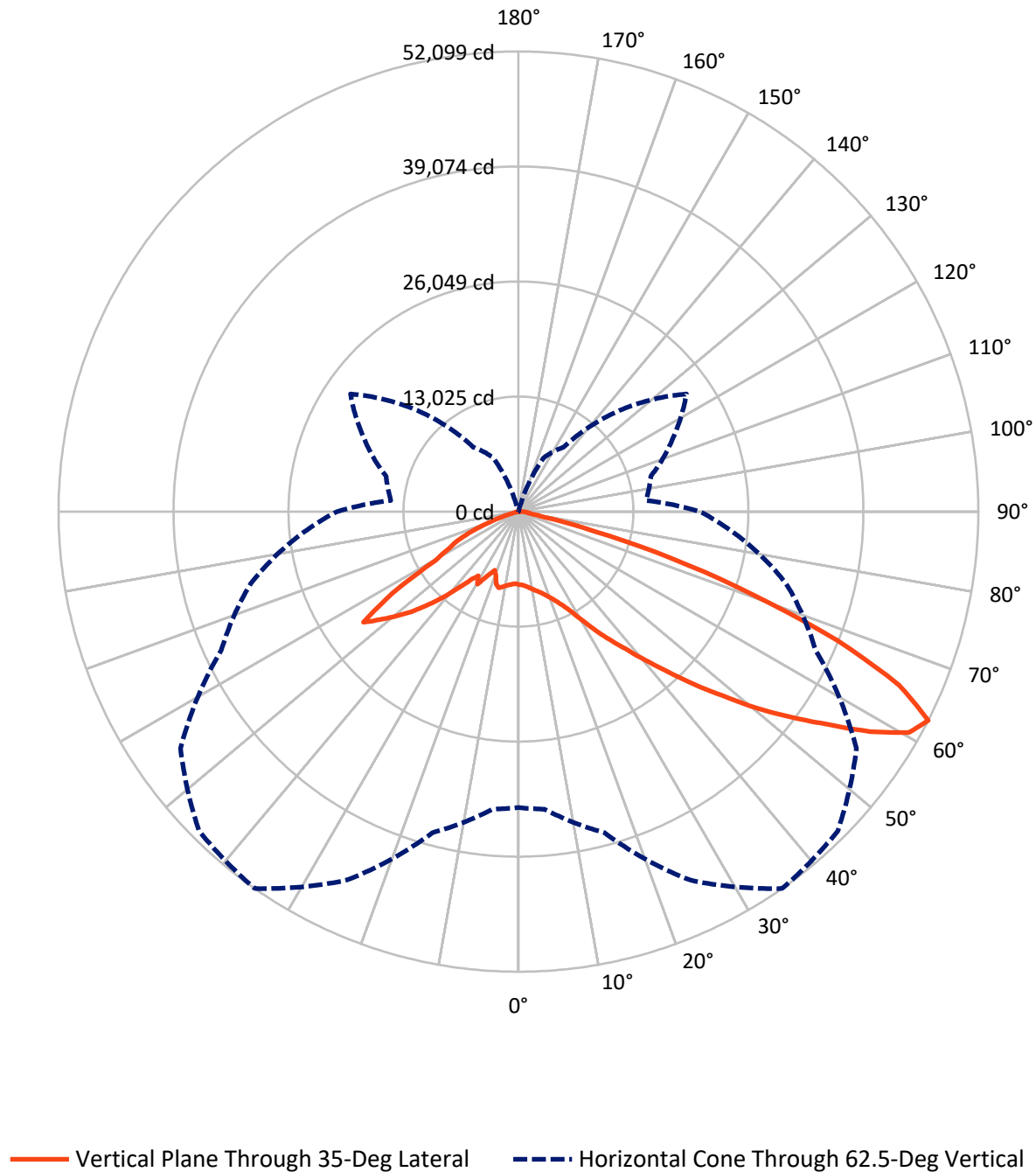
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.5 fc  
 Type III - Short - N/A

REPORT NUMBER: P579541  
CATALOG NUMBER: CST-CA10-760-750-U-T5N-HSS-HM-EX120

## Luminous Intensity Polar Plot



REPORT NUMBER: P579541

CATALOG NUMBER: CST-CA10-760-750-U-T5N-HSS-HM-EX120

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 26958.7  | 0.0    | 26958.7 |
|                    | % Fixture | 31.6     | 0.0    | 31.6    |
| <b>Street Side</b> | Lumens    | 58208.6  | 48.6   | 58257.3 |
|                    | % Fixture | 68.3     | 0.1    | 68.4    |
| <b>Total</b>       | Lumens    | 85167.3  | 48.7   | 85216.0 |
|                    | % Fixture | 99.9     | 0.1    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 815.7   | 1.0       |
| 10°-20°   | 2622.5  | 3.1       |
| 20°-30°   | 4869.7  | 5.7       |
| 30°-40°   | 9600.9  | 11.3      |
| 40°-50°   | 17234.7 | 20.2      |
| 50°-60°   | 25052.6 | 29.4      |
| 60°-70°   | 20589.1 | 24.2      |
| 70°-80°   | 3913.7  | 4.6       |
| 80°-90°   | 468.5   | 0.5       |
| 90°-100°  | 44.3    | 0.1       |
| 100°-110° | 4.3     | 0.0       |
| 110°-120° | 0.1     | 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°    | 85167.3 | 99.9      |
| 0°-180°   | 85216.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P579541

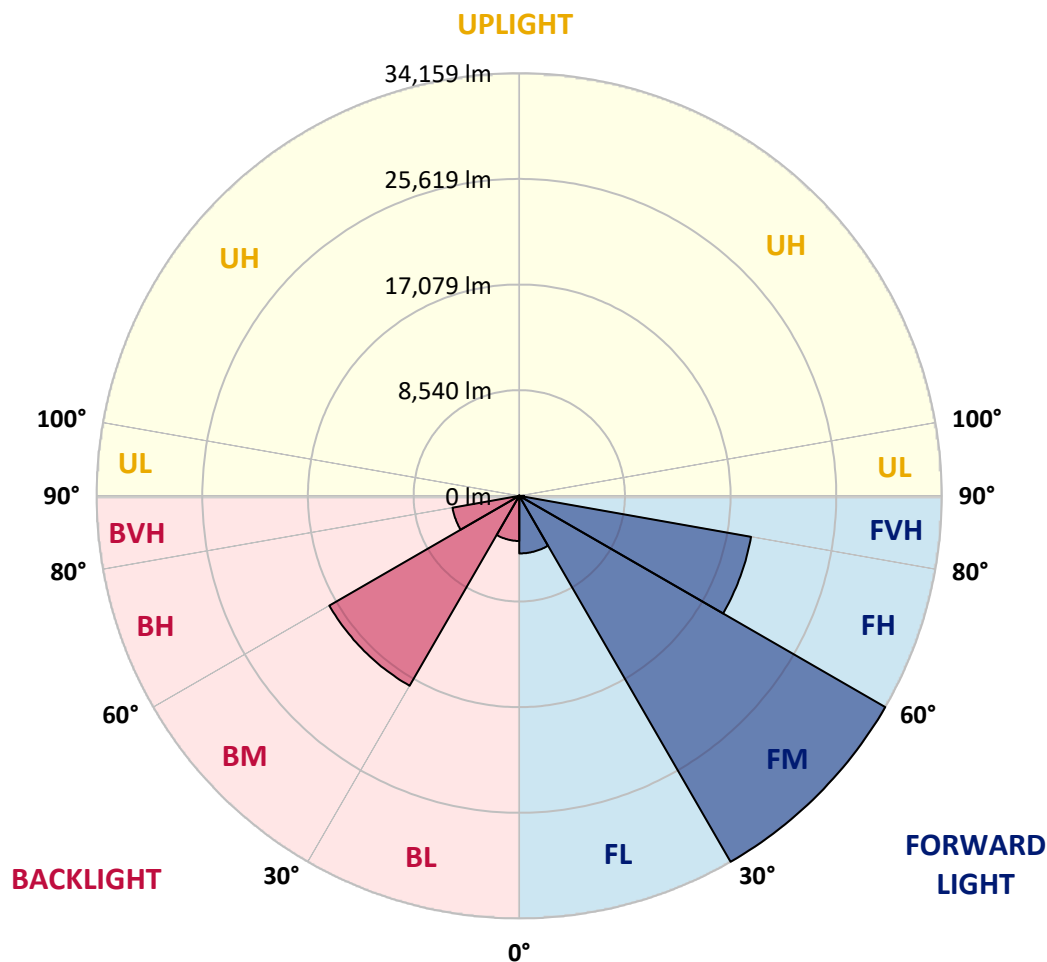
CATALOG NUMBER: CST-CA10-760-750-U-T5N-HSS-HM-EX120

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |       |        |
|------|-------------|---------|-----------|-------------------------|-------|--------|
|      |             |         |           | B                       | U     | G      |
| FL   | (0°-30°)    | 4657.5  | 5.5       |                         |       |        |
| FM   | (30°-60°)   | 34158.5 | 40.1      |                         |       |        |
| FH   | (60°-80°)   | 19022.1 | 22.3      |                         |       | G5     |
| FVH  | (80°-90°)   | 370.4   | 0.4       |                         |       | G3/500 |
| BL   | (0°-30°)    | 3650.3  | 4.3       | B4/5000                 |       |        |
| BM   | (30°-60°)   | 17729.7 | 20.8      | B5                      |       |        |
| BH   | (60°-80°)   | 5480.7  | 6.4       | B5                      |       | G5     |
| BVH  | (80°-90°)   | 98.0    | 0.1       |                         |       | G1/100 |
| UL   | (90°-100°)  | 44.3    | 0.1       |                         | U2/50 |        |
| UH   | (100°-180°) | 4.3     | 0.0       |                         | U1/10 |        |

**BUG Rating: B5-U2-G5**

Type III Short



REPORT NUMBER: P579541

CATALOG NUMBER: CST-CA10-760-750-U-T5N-HSS-HM-EX120

**CANDELA DISTRIBUTION (FULL):**

|        | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°     | 8271.5  | 8271.5  | 8271.5  | 8271.5  | 8271.5  | 8271.5  | 8271.5  | 8271.5  | 8271.5  | 8271.5  | 8271.5  |
| 2.5°   | 8482.8  | 8413.5  | 8420.5  | 8472.4  | 8316.6  | 8368.5  | 8295.8  | 8358.1  | 8330.4  | 8358.1  | 8375.4  |
| 5°     | 8652.5  | 8566.0  | 8562.5  | 8614.4  | 8489.7  | 8520.9  | 8437.8  | 8479.4  | 8441.3  | 8475.9  | 8475.9  |
| 7.5°   | 8860.4  | 8787.6  | 8770.3  | 8811.9  | 8701.0  | 8714.9  | 8631.8  | 8649.1  | 8604.1  | 8649.1  | 8614.4  |
| 10°    | 9120.2  | 9054.3  | 9026.6  | 9047.4  | 8947.0  | 8953.9  | 8863.8  | 8870.8  | 8805.0  | 8843.1  | 8815.3  |
| 12.5°  | 9393.8  | 9303.7  | 9289.9  | 9324.5  | 9220.6  | 9206.8  | 9130.5  | 9137.5  | 9064.7  | 9099.4  | 9078.6  |
| 15°    | 9677.8  | 9584.3  | 9587.8  | 9622.4  | 9518.5  | 9525.4  | 9445.8  | 9459.6  | 9386.9  | 9421.5  | 9393.8  |
| 17.5°  | 10055.4 | 9961.9  | 9954.9  | 10017.3 | 9930.7  | 9958.4  | 9875.3  | 9892.6  | 9840.6  | 9847.6  | 9816.4  |
| 20°    | 10595.7 | 10474.5 | 10450.3 | 10540.3 | 10426.0 | 10460.6 | 10415.6 | 10474.5 | 10453.7 | 10436.4 | 10412.2 |
| 22.5°  | 11240.0 | 11146.5 | 11098.0 | 11167.3 | 11032.2 | 11098.0 | 11122.2 | 11243.5 | 11274.6 | 11253.9 | 10872.8 |
| 25°    | 12102.5 | 12054.0 | 12005.5 | 11974.3 | 11811.5 | 11915.4 | 12040.1 | 12241.0 | 12372.7 | 12424.6 | 11894.7 |
| 27.5°  | 13266.3 | 13290.6 | 13079.3 | 13044.6 | 12861.1 | 13023.8 | 13249.0 | 13574.6 | 13841.3 | 13938.3 | 13224.7 |
| 30°    | 14762.7 | 14793.8 | 14506.4 | 14423.2 | 14312.4 | 14450.9 | 14870.0 | 15226.8 | 15621.7 | 15784.5 | 14831.9 |
| 32.5°  | 16750.9 | 16723.2 | 16300.6 | 16141.3 | 16040.8 | 16096.2 | 16536.1 | 17024.5 | 17467.9 | 17835.1 | 16664.3 |
| 35°    | 19179.0 | 19092.4 | 18642.1 | 18202.2 | 17803.9 | 17973.6 | 18295.7 | 18888.0 | 19560.0 | 20100.4 | 18472.4 |
| 37.5°  | 21998.5 | 21915.4 | 21229.6 | 20512.6 | 19726.3 | 19799.0 | 20086.5 | 21052.9 | 21918.9 | 22060.9 | 18164.1 |
| 40°    | 24911.6 | 24876.9 | 24229.2 | 23318.2 | 22095.5 | 21752.6 | 22133.6 | 23311.3 | 24225.7 | 21749.1 | 18881.1 |
| 42.5°  | 27821.2 | 27654.9 | 27291.2 | 26380.2 | 24752.2 | 23997.1 | 24509.8 | 25687.5 | 26671.2 | 22802.1 | 20543.7 |
| 45°    | 30755.0 | 30585.3 | 30277.0 | 29608.5 | 27914.7 | 26816.7 | 26965.6 | 28271.5 | 29161.6 | 24776.5 | 22275.6 |
| 47.5°  | 33359.8 | 33235.1 | 33013.4 | 32639.3 | 31129.1 | 30135.0 | 29847.5 | 30761.9 | 31368.1 | 26380.2 | 23605.7 |
| 50°    | 35604.3 | 35496.9 | 35583.5 | 35458.8 | 35015.4 | 33972.8 | 33023.8 | 32964.9 | 33255.8 | 27807.3 | 24828.4 |
| 52.5°  | 37578.7 | 37433.2 | 37803.8 | 38243.7 | 38652.4 | 38420.4 | 36123.9 | 35053.6 | 34790.3 | 28877.6 | 25649.4 |
| 55°    | 39210.1 | 39158.1 | 39795.5 | 40983.6 | 42538.8 | 43148.4 | 39438.7 | 36982.9 | 36162.0 | 29785.1 | 25725.6 |
| 57.5°  | 40186.9 | 40311.6 | 41659.0 | 43959.0 | 47000.2 | 47287.7 | 43318.2 | 39033.4 | 37370.8 | 30335.9 | 26089.3 |
| 60°    | 38517.3 | 38939.9 | 41364.6 | 46189.6 | 50796.5 | 50921.2 | 46106.5 | 39442.2 | 35787.9 | 28354.6 | 24146.1 |
| 62.5°  | 33515.6 | 33820.4 | 37634.1 | 46047.6 | 52098.9 | 51149.8 | 46730.0 | 37135.3 | 31364.6 | 24052.6 | 20536.8 |
| 65°    | 23681.9 | 24035.2 | 28631.7 | 41523.9 | 47398.5 | 47433.1 | 42805.5 | 32112.8 | 25070.9 | 18621.3 | 15857.2 |
| 67.5°  | 14284.7 | 14856.2 | 19210.2 | 30145.4 | 39026.5 | 39736.6 | 35711.7 | 24312.3 | 17942.4 | 12157.9 | 10263.2 |
| 70°    | 4686.5  | 5209.5  | 8770.3  | 17842.0 | 28132.9 | 31174.1 | 26820.1 | 15798.3 | 9369.6  | 5140.3  | 4139.2  |
| 72.5°  | 1856.6  | 2095.6  | 3089.7  | 7890.5  | 18129.5 | 20813.9 | 16525.7 | 7634.2  | 3145.1  | 1364.7  | 1188.1  |
| 75°    | 1240.0  | 1264.3  | 1427.1  | 2687.9  | 8870.8  | 11382.0 | 7966.7  | 2220.3  | 1167.3  | 852.1   | 748.2   |
| 77.5°  | 1080.7  | 1084.2  | 1156.9  | 1416.7  | 2888.8  | 4364.4  | 2293.0  | 1191.5  | 966.4   | 699.7   | 620.0   |
| 80°    | 990.6   | 1004.5  | 1049.5  | 1208.9  | 1323.2  | 1482.5  | 1132.7  | 994.1   | 838.2   | 644.3   | 585.4   |
| 82.5°  | 949.1   | 959.5   | 987.2   | 1094.6  | 1070.3  | 1111.9  | 914.4   | 789.7   | 706.6   | 592.3   | 561.1   |
| 85°    | 865.9   | 883.3   | 900.6   | 966.4   | 879.8   | 762.0   | 706.6   | 530.0   | 505.7   | 446.8   | 412.2   |
| 87.5°  | 654.7   | 651.2   | 633.9   | 644.3   | 588.8   | 481.5   | 398.3   | 297.9   | 242.5   | 200.9   | 166.3   |
| 90°    | 273.6   | 277.1   | 266.7   | 252.9   | 221.7   | 183.6   | 138.6   | 83.1    | 41.6    | 13.9    | 6.9     |
| 92.5°  | 207.8   | 211.3   | 204.4   | 183.6   | 159.3   | 128.2   | 93.5    | 48.5    | 27.7    | 10.4    | 3.5     |
| 95°    | 128.2   | 131.6   | 124.7   | 110.8   | 97.0    | 72.7    | 48.5    | 31.2    | 17.3    | 6.9     | 0.0     |
| 97.5°  | 76.2    | 79.7    | 72.7    | 65.8    | 52.0    | 34.6    | 27.7    | 20.8    | 13.9    | 6.9     | 0.0     |
| 100°   | 45.0    | 45.0    | 41.6    | 34.6    | 24.2    | 20.8    | 17.3    | 13.9    | 10.4    | 3.5     | 0.0     |
| 102.5° | 20.8    | 20.8    | 20.8    | 13.9    | 10.4    | 10.4    | 10.4    | 10.4    | 10.4    | 3.5     | 0.0     |
| 105°   | 6.9     | 6.9     | 3.5     | 3.5     | 3.5     | 6.9     | 6.9     | 6.9     | 6.9     | 3.5     | 0.0     |
| 107.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 3.5     | 6.9     | 6.9     | 3.5     | 0.0     |
| 110°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 3.5     | 3.5     | 3.5     | 0.0     |



REPORT NUMBER: P579541

CATALOG NUMBER: CST-CA10-760-750-U-T5N-HSS-HM-EX120

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P579541

CATALOG NUMBER: CST-CA10-760-750-U-T5N-HSS-HM-EX120

**CANDELA DISTRIBUTION (continued):**

|        | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°     | 8271.5  | 8271.5  | 8271.5  | 8271.5  | 8271.5  | 8271.5  | 8271.5  | 8271.5  | 8271.5  | 8271.5  |
| 2.5°   | 8358.1  | 8292.3  | 8302.7  | 8243.8  | 8230.0  | 8167.6  | 8278.5  | 8288.8  | 8257.7  | 8288.8  |
| 5°     | 8462.0  | 8382.4  | 8403.2  | 8337.3  | 8320.0  | 8233.4  | 8323.5  | 8316.6  | 8292.3  | 8323.5  |
| 7.5°   | 8614.4  | 8524.4  | 8534.8  | 8458.6  | 8441.3  | 8344.3  | 8427.4  | 8403.2  | 8375.4  | 8413.5  |
| 10°    | 8808.4  | 8721.8  | 8725.3  | 8621.4  | 8611.0  | 8500.1  | 8607.5  | 8562.5  | 8520.9  | 8576.3  |
| 12.5°  | 9078.6  | 8957.4  | 8947.0  | 8832.7  | 8829.2  | 8714.9  | 8825.7  | 8787.6  | 8732.2  | 8818.8  |
| 15°    | 9390.3  | 9227.5  | 9186.0  | 9040.5  | 9037.0  | 8915.8  | 9026.6  | 8967.8  | 8940.0  | 9044.0  |
| 17.5°  | 9795.6  | 9591.2  | 9276.0  | 8780.7  | 8555.6  | 8593.7  | 8985.1  | 9127.1  | 8756.5  | 8811.9  |
| 20°    | 10041.5 | 9050.9  | 8590.2  | 8385.8  | 8278.5  | 7661.9  | 6827.1  | 6896.4  | 7717.3  | 8108.7  |
| 22.5°  | 9625.9  | 9331.4  | 9161.7  | 8874.2  | 7377.9  | 7166.6  | 7215.1  | 7201.2  | 6141.3  | 5826.1  |
| 25°    | 10491.8 | 10214.7 | 9906.4  | 8133.0  | 7824.7  | 7734.6  | 7758.9  | 6764.8  | 6186.3  | 6210.6  |
| 27.5°  | 11738.8 | 11382.0 | 9428.4  | 8659.5  | 8597.1  | 8465.5  | 7987.5  | 6792.5  | 6865.2  | 6913.7  |
| 30°    | 13314.8 | 12047.1 | 10041.5 | 9705.5  | 9580.8  | 9438.8  | 7412.5  | 7589.2  | 7724.3  | 7873.2  |
| 32.5°  | 14838.9 | 11718.0 | 11215.8 | 10865.9 | 10671.9 | 8569.4  | 8361.6  | 8687.2  | 8822.3  | 8950.4  |
| 35°    | 14700.3 | 13127.8 | 12476.6 | 12033.2 | 11669.5 | 9248.3  | 9431.9  | 9927.2  | 10284.0 | 10280.5 |
| 37.5°  | 15081.3 | 14662.2 | 13910.6 | 13349.4 | 10128.1 | 10360.2 | 10744.7 | 11309.3 | 11742.2 | 11738.8 |
| 40°    | 16671.2 | 16217.5 | 15510.8 | 14305.5 | 11222.7 | 11763.0 | 12289.5 | 12819.5 | 13131.2 | 13155.5 |
| 42.5°  | 18250.7 | 17900.9 | 17263.5 | 12635.9 | 12563.2 | 13311.3 | 13862.1 | 14198.1 | 14388.6 | 14454.4 |
| 45°    | 19823.3 | 19494.2 | 16962.2 | 13976.4 | 14198.1 | 14939.3 | 15275.3 | 15341.1 | 15545.5 | 15538.6 |
| 47.5°  | 21073.7 | 20793.1 | 15604.4 | 15569.7 | 16120.5 | 16633.1 | 16525.7 | 16442.6 | 16494.6 | 16522.3 |
| 50°    | 22227.1 | 18101.8 | 16823.6 | 17329.3 | 18167.6 | 18229.9 | 17783.1 | 14087.2 | 17440.2 | 17381.3 |
| 52.5°  | 20647.6 | 17665.3 | 17959.7 | 19144.4 | 20571.4 | 19847.5 | 18974.6 | 12348.4 | 16356.0 | 17911.3 |
| 55°    | 18067.1 | 18365.0 | 19030.1 | 21018.3 | 22428.0 | 21569.0 | 20110.8 | 12715.6 | 10855.5 | 8836.1  |
| 57.5°  | 18427.4 | 18898.4 | 20162.7 | 22909.5 | 24139.1 | 17083.4 | 18770.3 | 8964.3  | 6068.6  | 6065.1  |
| 60°    | 17159.6 | 17873.2 | 20138.5 | 23758.1 | 19539.2 | 10945.6 | 7519.9  | 204.4   | 1177.7  | 1167.3  |
| 62.5°  | 14506.4 | 15521.2 | 19213.6 | 23221.2 | 16186.3 | 8895.0  | 6699.0  | 17.3    | 6.9     | 6.9     |
| 65°    | 11219.2 | 12414.2 | 16020.0 | 20107.3 | 14340.1 | 7661.9  | 4974.0  | 0.0     | 0.0     | 0.0     |
| 67.5°  | 7357.1  | 8465.5  | 12029.7 | 16702.4 | 11905.0 | 5791.5  | 3342.6  | 0.0     | 0.0     | 0.0     |
| 70°    | 3065.5  | 4433.7  | 7474.9  | 12071.3 | 8756.5  | 3792.8  | 1586.4  | 0.0     | 0.0     | 0.0     |
| 72.5°  | 886.7   | 1350.9  | 3366.8  | 7208.1  | 5434.7  | 1984.8  | 588.8   | 0.0     | 0.0     | 0.0     |
| 75°    | 585.4   | 616.6   | 1018.4  | 2899.2  | 2642.9  | 727.4   | 239.0   | 0.0     | 0.0     | 0.0     |
| 77.5°  | 491.9   | 505.7   | 647.7   | 810.5   | 848.6   | 287.5   | 194.0   | 0.0     | 0.0     | 0.0     |
| 80°    | 453.8   | 457.2   | 581.9   | 602.7   | 453.8   | 239.0   | 190.5   | 0.0     | 0.0     | 0.0     |
| 82.5°  | 422.6   | 412.2   | 495.3   | 478.0   | 377.6   | 207.8   | 176.7   | 0.0     | 0.0     | 0.0     |
| 85°    | 291.0   | 297.9   | 336.0   | 426.0   | 228.6   | 103.9   | 124.7   | 0.0     | 0.0     | 0.0     |
| 87.5°  | 90.1    | 103.9   | 131.6   | 135.1   | 41.6    | 13.9    | 0.0     | 0.0     | 0.0     | 0.0     |
| 90°    | 3.5     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 92.5°  | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 95°    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 97.5°  | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 100°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 102.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 105°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 107.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 110°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



REPORT NUMBER: P579541

CATALOG NUMBER: CST-CA10-760-750-U-T5N-HSS-HM-EX120

**CANDELA DISTRIBUTION (continued):**

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

Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

STREETWORKS

Report Number: SP1-2104-215-7

Luminaire Tested: CST-CA6-230-750-U-T4

Test Date: 04/22/2021

### Test Information

Test Method: LM-79-08  
 Report Number: SP1-2104-215-7  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1  
 Measurement Geometry:  $4\pi$   
 Issue Date: 04/22/2021  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: **CST-CA6-230-750-U-T4**  
 Description: STREETWORKS HIGH MAST LUMINAIRE

### Spectral Parameters

|                           |        |           |      |      |       |
|---------------------------|--------|-----------|------|------|-------|
| CCT (K):                  | 4852   | CRI (Ra): | 74.1 |      |       |
| CIE u':                   | 0.2118 | R1:       | 71.0 | R9:  | -25.4 |
| CIE v':                   | 0.4888 | R2:       | 79.6 | R10: | 51.4  |
| Duv:                      | 0.0017 | R3:       | 85.8 | R11: | 70.1  |
| CIE x:                    | 0.3498 | R4:       | 73.5 | R12: | 42.9  |
| CIE y:                    | 0.3588 | R5:       | 71.4 | R13: | 72.5  |
| CIE z:                    | 0.2914 | R6:       | 71.2 | R14: | 92.1  |
| Peak Wavelength (nm):     | 449    | R7:       | 82.9 |      |       |
| Dominant Wavelength (nm): | 572    | R8:       | 57.2 |      |       |
| Purity:                   | 12.7   |           |      |      |       |
| Rf:                       | 75.2   |           |      |      |       |
| Rg:                       | 94.7   |           |      |      |       |



### Test Conditions

Stabilization Time: 72M  
 Operation Time: 12H  
 Room Temperature (°C) / RH%: 25.4/13%  
 Sphere Temperature (°C): 24.0

REPORT NUMBER: SP1-2104-215-7

| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| Photometer                     | IN0058                | 1/31/2021        | 7/31/2021            |
| Power Meter                    | IN0071                | 12/1/2020        | 12/1/2021            |
| AC Power Source                | IN0063                | 12/1/2020        | 12/1/2021            |
| DC Power Source                | IN0208                | 12/1/2020        | 12/1/2021            |
| Sphere Thermometer             | IN0085                | 12/1/2020        | 12/1/2021            |
| Room Thermometer               | IN0046                | 12/1/2020        | 12/1/2021            |

REPORT NUMBER: SP1-2104-215-7

**CIE 1931 Chromaticity Diagram**



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



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2104-215-7

### Photopic Flux vs. Wavelength

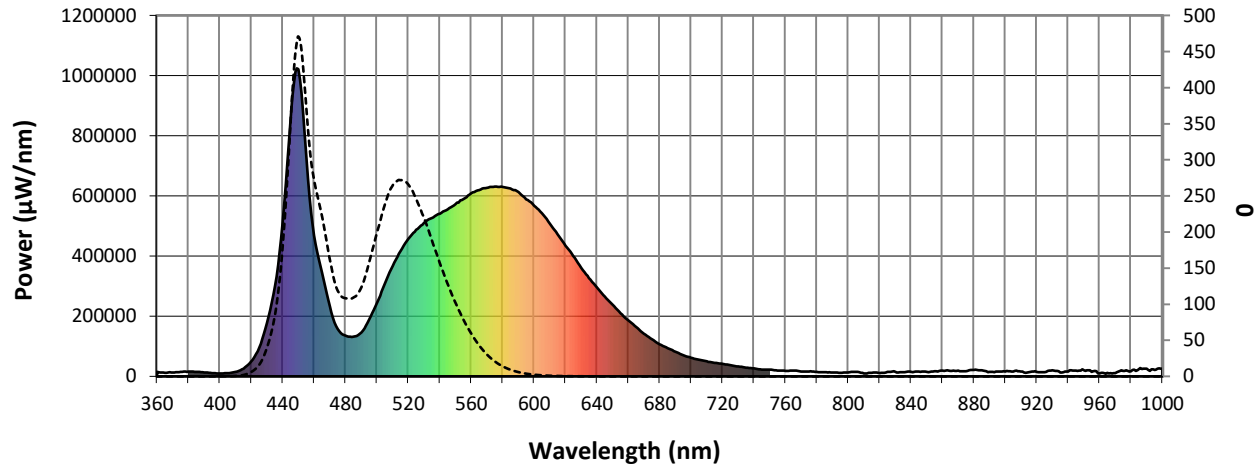


#####

| λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) |
|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|
| 360       | 15077            | 0.0              | 490       | 146327           | 20.8             | 620       | 434415           | 113.0            | 750       | 22886            | 0.0              | 880       | 20960            | 0.0              |
| 365       | 12138            | 0.0              | 495       | 188585           | 34.2             | 625       | 400670           | 88.4             | 755       | 19692            | 0.0              | 885       | 20315            | 0.0              |
| 370       | 12993            | 0.0              | 500       | 245069           | 54.1             | 630       | 360611           | 65.3             | 760       | 18199            | 0.0              | 890       | 15211            | 0.0              |
| 375       | 14513            | 0.0              | 505       | 307682           | 86.1             | 635       | 326986           | 49.1             | 765       | 19191            | 0.0              | 895       | 15502            | 0.0              |
| 380       | 15679            | 0.0              | 510       | 367102           | 126.1            | 640       | 295583           | 35.3             | 770       | 16229            | 0.0              | 900       | 15935            | 0.0              |
| 385       | 14569            | 0.0              | 515       | 416068           | 172.4            | 645       | 264664           | 25.5             | 775       | 16351            | 0.0              | 905       | 15965            | 0.0              |
| 390       | 13091            | 0.0              | 520       | 457470           | 221.8            | 650       | 238441           | 17.4             | 780       | 14567            | 0.0              | 910       | 16119            | 0.0              |
| 395       | 10927            | 0.0              | 525       | 486980           | 261.4            | 655       | 210047           | 12.1             | 785       | 13349            | 0.0              | 915       | 13972            | 0.0              |
| 400       | 9655             | 0.0              | 530       | 511184           | 301.0            | 660       | 186019           | 7.8              | 790       | 12552            | 0.0              | 920       | 14830            | 0.0              |
| 405       | 10895            | 0.0              | 535       | 527191           | 326.9            | 665       | 164001           | 5.2              | 795       | 11517            | 0.0              | 925       | 13744            | 0.0              |
| 410       | 14929            | 0.0              | 540       | 540658           | 352.3            | 670       | 142007           | 3.1              | 800       | 13250            | 0.0              | 930       | 20340            | 0.0              |
| 415       | 25993            | 0.0              | 545       | 555639           | 369.8            | 675       | 123441           | 2.1              | 805       | 15135            | 0.0              | 935       | 13272            | 0.0              |
| 420       | 49620            | 0.1              | 550       | 572229           | 388.9            | 680       | 106894           | 1.2              | 810       | 9873             | 0.0              | 940       | 16357            | 0.0              |
| 425       | 95836            | 0.5              | 555       | 589788           | 402.8            | 685       | 94026            | 0.8              | 815       | 11566            | 0.0              | 945       | 19257            | 0.0              |
| 430       | 178101           | 1.4              | 560       | 608278           | 413.4            | 690       | 82099            | 0.5              | 820       | 11216            | 0.0              | 950       | 19804            | 0.0              |
| 435       | 300144           | 3.5              | 565       | 619317           | 411.8            | 695       | 70275            | 0.3              | 825       | 15165            | 0.0              | 955       | 14877            | 0.0              |
| 440       | 512674           | 8.1              | 570       | 627176           | 407.8            | 700       | 61784            | 0.2              | 830       | 14983            | 0.0              | 960       | 9882             | 0.0              |
| 445       | 857336           | 17.9             | 575       | 631114           | 392.7            | 705       | 55550            | 0.1              | 835       | 13993            | 0.0              | 965       | 11741            | 0.0              |
| 450       | 1021494          | 26.5             | 580       | 630436           | 374.6            | 710       | 50234            | 0.1              | 840       | 15281            | 0.0              | 970       | 11068            | 0.0              |
| 455       | 730207           | 24.4             | 585       | 625204           | 347.4            | 715       | 44909            | 0.0              | 845       | 15737            | 0.0              | 975       | 18108            | 0.0              |
| 460       | 467897           | 19.2             | 590       | 612752           | 316.8            | 720       | 41441            | 0.0              | 850       | 15148            | 0.0              | 980       | 17506            | 0.0              |
| 465       | 344659           | 17.8             | 595       | 589048           | 279.2            | 725       | 36834            | 0.0              | 855       | 17198            | 0.0              | 985       | 23821            | 0.0              |
| 470       | 230541           | 14.3             | 600       | 567479           | 244.6            | 730       | 32988            | 0.0              | 860       | 19169            | 0.0              | 990       | 25862            | 0.0              |
| 475       | 157156           | 12.3             | 605       | 542722           | 210.2            | 735       | 28984            | 0.0              | 865       | 18632            | 0.0              | 995       | 21133            | 0.0              |
| 480       | 134805           | 12.8             | 610       | 507118           | 174.2            | 740       | 26177            | 0.0              | 870       | 18831            | 0.0              | 1000      | 25640            | 0.0              |
| 485       | 132031           | 15.6             | 615       | 472188           | 142.5            | 745       | 22680            | 0.0              | 875       | 16978            | 0.0              |           |                  |                  |

REPORT NUMBER: SP1-2104-215-7

### Scotopic Flux vs. Wavelength



Scotopic Lumens: 66024.8

S/P: 1.78

| $\lambda$<br>(nm) | Power<br>( $\mu\text{W/nm}$ ) | Lumens<br>( $\Phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>( $\mu\text{W/nm}$ ) | Lumens<br>( $\Phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>( $\mu\text{W/nm}$ ) | Lumens<br>( $\Phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>( $\mu\text{W/nm}$ ) | Lumens<br>( $\Phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>( $\mu\text{W/nm}$ ) | Lumens<br>( $\Phi/\text{nm}$ ) |
|-------------------|-------------------------------|--------------------------------|-------------------|-------------------------------|--------------------------------|-------------------|-------------------------------|--------------------------------|-------------------|-------------------------------|--------------------------------|-------------------|-------------------------------|--------------------------------|
| 360               | 15077                         | 0.0                            | 490               | 146327                        | 225.3                          | 620               | 434415                        | 5.4                            | 750               | 22886                         | 0.0                            | 880               | 20960                         | 0.0                            |
| 365               | 12138                         | 0.0                            | 495               | 188585                        | 304.9                          | 625               | 400670                        | 3.4                            | 755               | 19692                         | 0.0                            | 885               | 20315                         | 0.0                            |
| 370               | 12993                         | 0.0                            | 500               | 245069                        | 409.9                          | 630               | 360611                        | 2.0                            | 760               | 18199                         | 0.0                            | 890               | 15211                         | 0.0                            |
| 375               | 14513                         | 0.0                            | 505               | 307682                        | 523.1                          | 635               | 326986                        | 1.2                            | 765               | 19191                         | 0.0                            | 895               | 15502                         | 0.0                            |
| 380               | 15679                         | 0.0                            | 510               | 367102                        | 622.2                          | 640               | 295583                        | 0.8                            | 770               | 16229                         | 0.0                            | 900               | 15935                         | 0.0                            |
| 385               | 14569                         | 0.0                            | 515               | 416068                        | 689.6                          | 645               | 264664                        | 0.5                            | 775               | 16351                         | 0.0                            | 905               | 15965                         | 0.0                            |
| 390               | 13091                         | 0.0                            | 520               | 457470                        | 727.1                          | 650               | 238441                        | 0.3                            | 780               | 14567                         | 0.0                            | 910               | 16119                         | 0.0                            |
| 395               | 10927                         | 0.1                            | 525               | 486980                        | 728.5                          | 655               | 210047                        | 0.2                            | 785               | 13349                         | 0.0                            | 915               | 13972                         | 0.0                            |
| 400               | 9655                          | 0.2                            | 530               | 511184                        | 704.8                          | 660               | 186019                        | 0.1                            | 790               | 12552                         | 0.0                            | 920               | 14830                         | 0.0                            |
| 405               | 10895                         | 0.3                            | 535               | 527191                        | 656.9                          | 665               | 164001                        | 0.1                            | 795               | 11517                         | 0.0                            | 925               | 13744                         | 0.0                            |
| 410               | 14929                         | 0.9                            | 540               | 540658                        | 597.4                          | 670               | 142007                        | 0.0                            | 800               | 13250                         | 0.0                            | 930               | 20340                         | 0.0                            |
| 415               | 25993                         | 2.7                            | 545               | 555639                        | 532.7                          | 675               | 123441                        | 0.0                            | 805               | 15135                         | 0.0                            | 935               | 13272                         | 0.0                            |
| 420               | 49620                         | 8.2                            | 550               | 572229                        | 467.9                          | 680               | 106894                        | 0.0                            | 810               | 9873                          | 0.0                            | 940               | 16357                         | 0.0                            |
| 425               | 95836                         | 23.4                           | 555               | 589788                        | 403.1                          | 685               | 94026                         | 0.0                            | 815               | 11566                         | 0.0                            | 945               | 19257                         | 0.0                            |
| 430               | 178101                        | 60.6                           | 560               | 608278                        | 340.0                          | 690               | 82099                         | 0.0                            | 820               | 11216                         | 0.0                            | 950               | 19804                         | 0.0                            |
| 435               | 300144                        | 134.2                          | 565               | 619317                        | 277.8                          | 695               | 70275                         | 0.0                            | 825               | 15165                         | 0.0                            | 955               | 14877                         | 0.0                            |
| 440               | 512674                        | 286.5                          | 570               | 627176                        | 221.3                          | 700               | 61784                         | 0.0                            | 830               | 14983                         | 0.0                            | 960               | 9882                          | 0.0                            |
| 445               | 857336                        | 574.1                          | 575               | 631114                        | 171.9                          | 705               | 55550                         | 0.0                            | 835               | 13993                         | 0.0                            | 965               | 11741                         | 0.0                            |
| 450               | 1021494                       | 791.7                          | 580               | 630436                        | 129.9                          | 710               | 50234                         | 0.0                            | 840               | 15281                         | 0.0                            | 970               | 11068                         | 0.0                            |
| 455               | 730207                        | 638.1                          | 585               | 625204                        | 95.5                           | 715               | 44909                         | 0.0                            | 845               | 15737                         | 0.0                            | 975               | 18108                         | 0.0                            |
| 460               | 467897                        | 451.9                          | 590               | 612752                        | 68.2                           | 720               | 41441                         | 0.0                            | 850               | 15148                         | 0.0                            | 980               | 17506                         | 0.0                            |
| 465               | 344659                        | 364.0                          | 595               | 589048                        | 47.0                           | 725               | 36834                         | 0.0                            | 855               | 17198                         | 0.0                            | 985               | 23821                         | 0.0                            |
| 470               | 230541                        | 265.5                          | 600               | 567479                        | 32.0                           | 730               | 32988                         | 0.0                            | 860               | 19169                         | 0.0                            | 990               | 25862                         | 0.0                            |
| 475               | 157156                        | 196.5                          | 605               | 542722                        | 21.3                           | 735               | 28984                         | 0.0                            | 865               | 18632                         | 0.0                            | 995               | 21133                         | 0.0                            |
| 480               | 134805                        | 182.1                          | 610               | 507118                        | 13.7                           | 740               | 26177                         | 0.0                            | 870               | 18831                         | 0.0                            | 1000              | 25640                         | 0.0                            |
| 485               | 132031                        | 191.4                          | 615               | 472188                        | 8.7                            | 745               | 22680                         | 0.0                            | 875               | 16978                         | 0.0                            |                   |                               |                                |

REPORT NUMBER: SP1-2104-215-7

### Melanopic Flux vs. Wavelength



**Melanopic Lumens: 26696.3**      **M/P: 0.72**

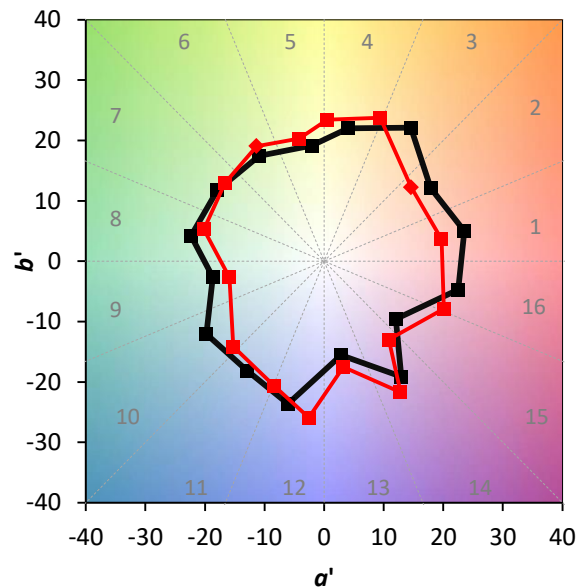
| λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) |
|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|
| 360       | 15077            | 0.0              | 490       | 146327           | 121.8            | 620       | 434415           | 0.3              | 750       | 22886            | 0.0              | 880       | 20960            | 0.0              |
| 365       | 12138            | 0.0              | 495       | 188585           | 155.7            | 625       | 400670           | 0.2              | 755       | 19692            | 0.0              | 885       | 20315            | 0.0              |
| 370       | 12993            | 0.0              | 500       | 245069           | 197.0            | 630       | 360611           | 0.1              | 760       | 18199            | 0.0              | 890       | 15211            | 0.0              |
| 375       | 14513            | 0.0              | 505       | 307682           | 236.1            | 635       | 326986           | 0.1              | 765       | 19191            | 0.0              | 895       | 15502            | 0.0              |
| 380       | 15679            | 0.0              | 510       | 367102           | 263.6            | 640       | 295583           | 0.0              | 770       | 16229            | 0.0              | 900       | 15935            | 0.0              |
| 385       | 14569            | 0.0              | 515       | 416068           | 271.9            | 645       | 264664           | 0.0              | 775       | 16351            | 0.0              | 905       | 15965            | 0.0              |
| 390       | 13091            | 0.0              | 520       | 457470           | 266.3            | 650       | 238441           | 0.0              | 780       | 14567            | 0.0              | 910       | 16119            | 0.0              |
| 395       | 10927            | 0.1              | 525       | 486980           | 247.0            | 655       | 210047           | 0.0              | 785       | 13349            | 0.0              | 915       | 13972            | 0.0              |
| 400       | 9655             | 0.1              | 530       | 511184           | 220.9            | 660       | 186019           | 0.0              | 790       | 12552            | 0.0              | 920       | 14830            | 0.0              |
| 405       | 10895            | 0.2              | 535       | 527191           | 189.7            | 665       | 164001           | 0.0              | 795       | 11517            | 0.0              | 925       | 13744            | 0.0              |
| 410       | 14929            | 0.6              | 540       | 540658           | 158.2            | 670       | 142007           | 0.0              | 800       | 13250            | 0.0              | 930       | 20340            | 0.0              |
| 415       | 25993            | 1.7              | 545       | 555639           | 129.1            | 675       | 123441           | 0.0              | 805       | 15135            | 0.0              | 935       | 13272            | 0.0              |
| 420       | 49620            | 5.7              | 550       | 572229           | 102.7            | 680       | 106894           | 0.0              | 810       | 9873             | 0.0              | 940       | 16357            | 0.0              |
| 425       | 95836            | 14.9             | 555       | 589788           | 79.5             | 685       | 94026            | 0.0              | 815       | 11566            | 0.0              | 945       | 19257            | 0.0              |
| 430       | 178101           | 37.6             | 560       | 608278           | 60.0             | 690       | 82099            | 0.0              | 820       | 11216            | 0.0              | 950       | 19804            | 0.0              |
| 435       | 300144           | 80.1             | 565       | 619317           | 43.5             | 695       | 70275            | 0.0              | 825       | 15165            | 0.0              | 955       | 14877            | 0.0              |
| 440       | 512674           | 171.3            | 570       | 627176           | 30.6             | 700       | 61784            | 0.0              | 830       | 14983            | 0.0              | 960       | 9882             | 0.0              |
| 445       | 857336           | 338.2            | 575       | 631114           | 21.0             | 705       | 55550            | 0.0              | 835       | 13993            | 0.0              | 965       | 11741            | 0.0              |
| 450       | 1021494          | 470.7            | 580       | 630436           | 14.1             | 710       | 50234            | 0.0              | 840       | 15281            | 0.0              | 970       | 11068            | 0.0              |
| 455       | 730207           | 382.6            | 585       | 625204           | 9.3              | 715       | 44909            | 0.0              | 845       | 15737            | 0.0              | 975       | 18108            | 0.0              |
| 460       | 467897           | 275.7            | 590       | 612752           | 6.0              | 720       | 41441            | 0.0              | 850       | 15148            | 0.0              | 980       | 17506            | 0.0              |
| 465       | 344659           | 225.2            | 595       | 589048           | 3.8              | 725       | 36834            | 0.0              | 855       | 17198            | 0.0              | 985       | 23821            | 0.0              |
| 470       | 230541           | 165.0            | 600       | 567479           | 2.4              | 730       | 32988            | 0.0              | 860       | 19169            | 0.0              | 990       | 25862            | 0.0              |
| 475       | 157156           | 120.0            | 605       | 542722           | 1.5              | 735       | 28984            | 0.0              | 865       | 18632            | 0.0              | 995       | 21133            | 0.0              |
| 480       | 134805           | 108.3            | 610       | 507118           | 0.9              | 740       | 26177            | 0.0              | 870       | 18831            | 0.0              | 1000      | 25640            | 0.0              |
| 485       | 132031           | 108.8            | 615       | 472188           | 0.6              | 745       | 22680            | 0.0              | 875       | 16978            | 0.0              |           |                  |                  |

### Summary

$R_f = 75.2$   
 $R_g = 94.7$   
 CIE  $R_a = 74.1$   
 $R_g = -25.4$



### Color Vector Graphics



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

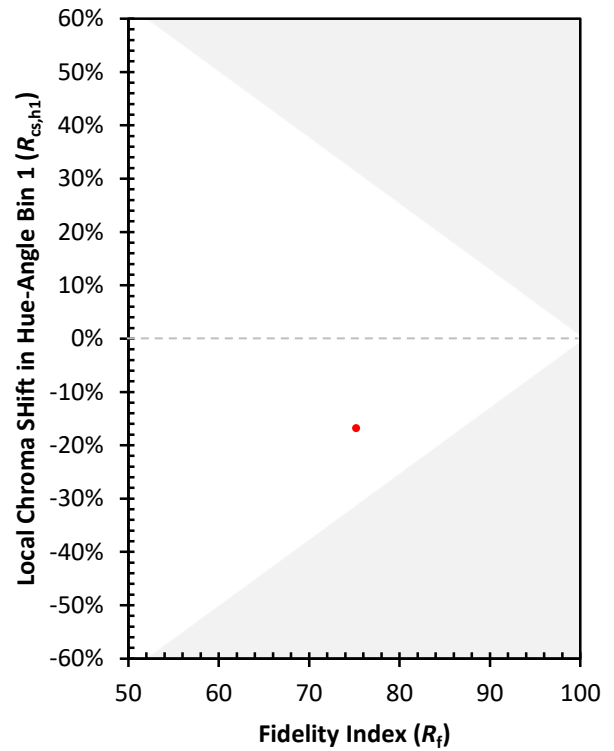
|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 63 | CES51 = 90 | CES76 = 52 |
| CES02 = 60 | CES27 = 88 | CES52 = 90 | CES77 = 68 |
| CES03 = 30 | CES28 = 81 | CES53 = 81 | CES78 = 54 |
| CES04 = 69 | CES29 = 67 | CES54 = 86 | CES79 = 81 |
| CES05 = 46 | CES30 = 85 | CES55 = 84 | CES80 = 77 |
| CES06 = 50 | CES31 = 71 | CES56 = 76 | CES81 = 79 |
| CES07 = 39 | CES32 = 63 | CES57 = 75 | CES82 = 91 |
| CES08 = 38 | CES33 = 79 | CES58 = 76 | CES83 = 89 |
| CES09 = 29 | CES34 = 70 | CES59 = 87 | CES84 = 86 |
| CES10 = 73 | CES35 = 83 | CES60 = 89 | CES85 = 79 |
| CES11 = 56 | CES36 = 90 | CES61 = 83 | CES86 = 76 |
| CES12 = 62 | CES37 = 79 | CES62 = 85 | CES87 = 78 |
| CES13 = 42 | CES38 = 94 | CES63 = 76 | CES88 = 82 |
| CES14 = 74 | CES39 = 96 | CES64 = 67 | CES89 = 74 |
| CES15 = 70 | CES40 = 91 | CES65 = 64 | CES90 = 81 |
| CES16 = 46 | CES41 = 95 | CES66 = 61 | CES91 = 74 |
| CES17 = 49 | CES42 = 80 | CES67 = 58 | CES92 = 61 |
| CES18 = 55 | CES43 = 78 | CES68 = 66 | CES93 = 77 |
| CES19 = 71 | CES44 = 99 | CES69 = 74 | CES94 = 56 |
| CES20 = 64 | CES45 = 86 | CES70 = 58 | CES95 = 67 |
| CES21 = 85 | CES46 = 85 | CES71 = 51 | CES96 = 78 |
| CES22 = 77 | CES47 = 88 | CES72 = 83 | CES97 = 86 |
| CES23 = 91 | CES48 = 80 | CES73 = 48 | CES98 = 77 |
| CES24 = 90 | CES49 = 83 | CES74 = 92 | CES99 = 65 |
| CES25 = 71 | CES50 = 90 | CES75 = 52 |            |



Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)