

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: P879810

Luminaire Tested: **MEM2-HTN-VA-80-750-U-RW**

Issue Date: 10/01/2024



Test Information

Test Method: LM-79-08
Report Number: P879810
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/01/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MEM2-HTN-VA-80-750-U-RW
Description: EPIC MODERN TALL HOUSING 80W 70CRI 5000K VISUAL COMFORT FIXTURE w/
RECTANGULAR WIDE DISTRIBUTION OPTIC
Light Source: (1) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6216.9 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

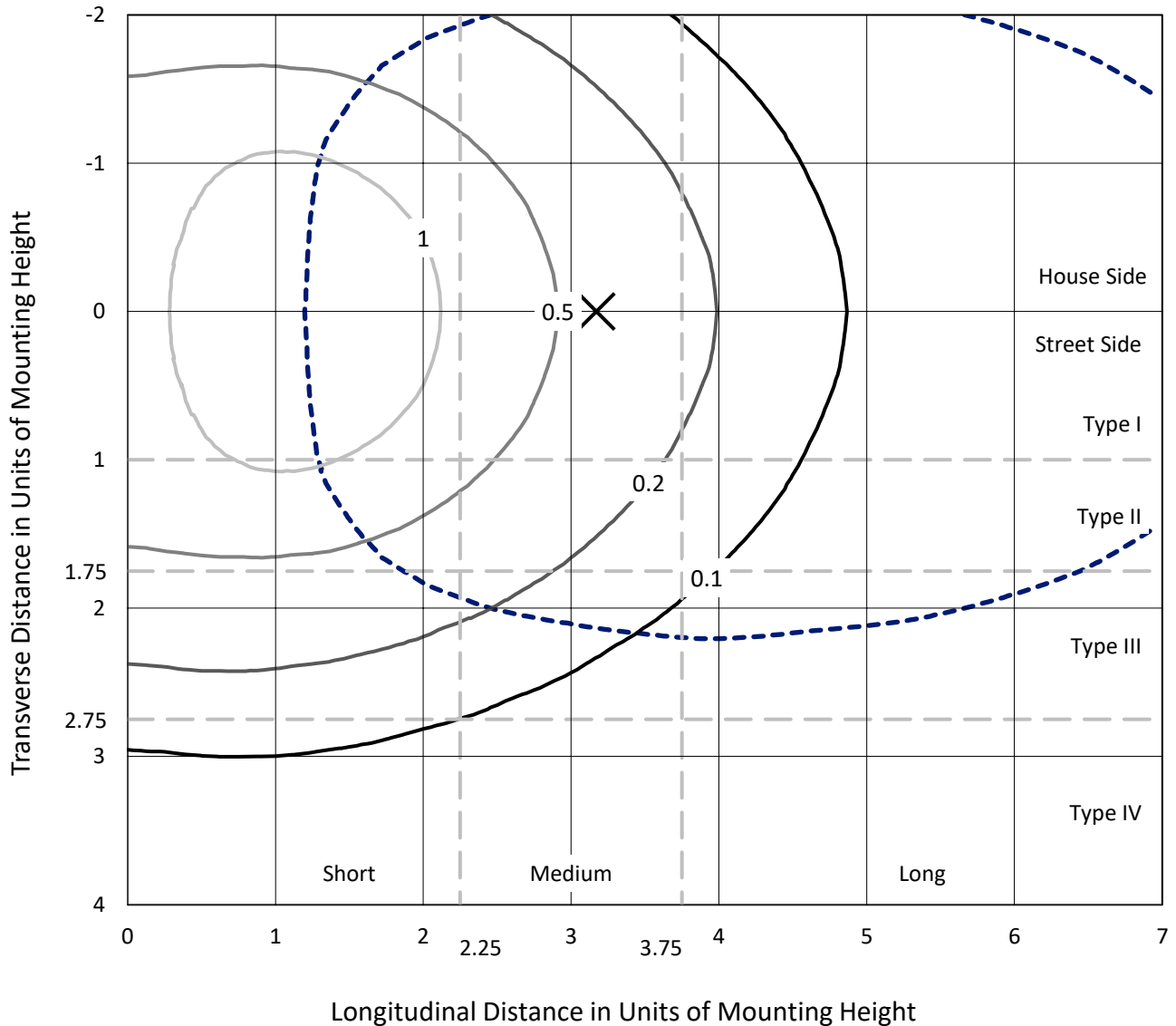
Input Watts (W): 78
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 6%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P879810
 CATALOG NUMBER: MEM2-HTN-VA-80-750-U-RW

Iso-Footcandle Lines of Horizontal Illumination

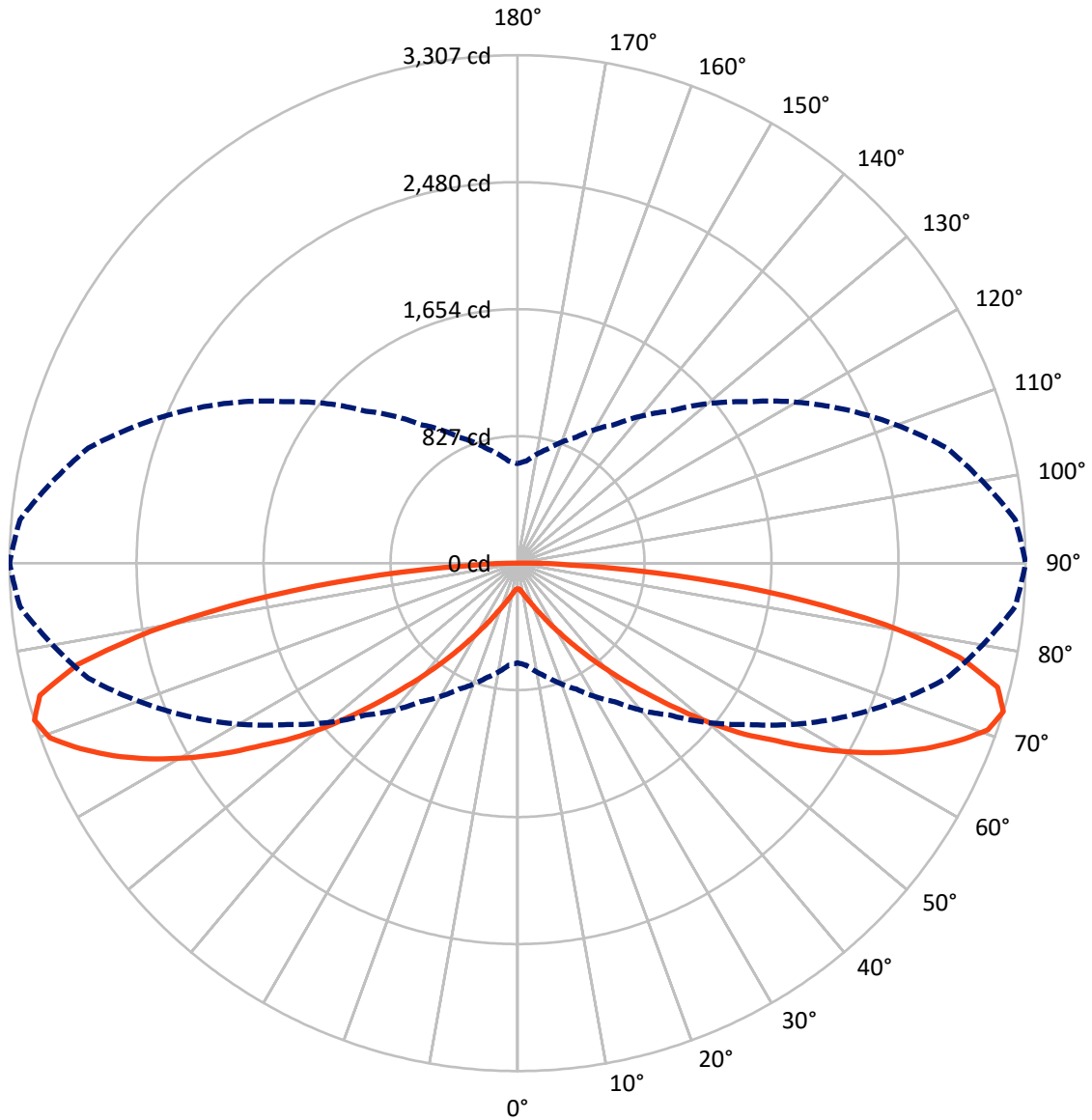
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2 fc
 Type III - Short - N/A

REPORT NUMBER: P879810
CATALOG NUMBER: MEM2-HTN-VA-80-750-U-RW

Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P879810
 CATALOG NUMBER: MEM2-HTN-VA-80-750-U-RW

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3108.4 | 0.0 | 3108.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3108.4 | 0.0 | 3108.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 6216.9 | 0.0 | 6216.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 17.1 | 0.3 |
| 10°-20° | 63.7 | 1.0 |
| 20°-30° | 147.0 | 2.4 |
| 30°-40° | 315.0 | 5.1 |
| 40°-50° | 650.5 | 10.5 |
| 50°-60° | 1194.9 | 19.2 |
| 60°-70° | 1703.6 | 27.4 |
| 70°-80° | 1584.7 | 25.5 |
| 80°-90° | 540.3 | 8.7 |
| 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° | 6216.9 | 100.0 |
| 0°-180° | 6216.9 | 100.0 |



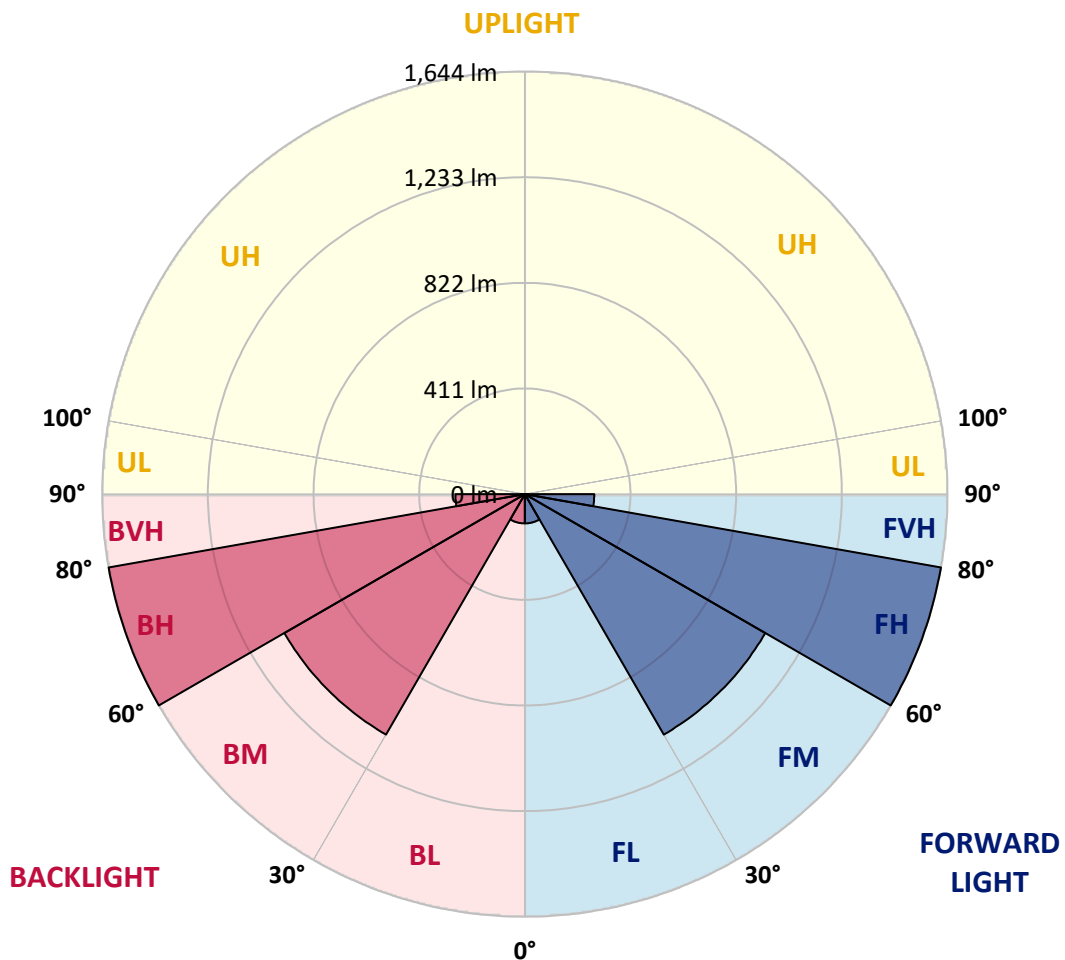
REPORT NUMBER: P879810
 CATALOG NUMBER: MEM2-HTN-VA-80-750-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 113.9 | 1.8 | | | |
| FM (30°-60°) | 1080.2 | 17.4 | | | |
| FH (60°-80°) | 1644.2 | 26.4 | | | G1/1800 |
| FVH (80°-90°) | 270.2 | 4.3 | | | G3/500 |
| BL (0°-30°) | 113.9 | 1.8 | B1/500 | | |
| BM (30°-60°) | 1080.2 | 17.4 | B2/2500 | | |
| BH (60°-80°) | 1644.2 | 26.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 270.2 | 4.3 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type III Short





REPORT NUMBER: P879810

CATALOG NUMBER: MEM2-HTN-VA-80-750-U-RW

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 167.3 | 167.3 | 167.3 | 167.3 | 167.3 | 167.3 | 167.3 | 167.3 | 167.3 | 167.3 | 167.3 |
| 2.5° | 168.1 | 168.1 | 168.1 | 168.1 | 168.9 | 168.9 | 168.9 | 168.9 | 168.9 | 168.9 | 168.9 |
| 5° | 170.5 | 170.5 | 170.5 | 171.3 | 172.8 | 173.6 | 174.4 | 174.4 | 175.2 | 175.2 | 175.2 |
| 7.5° | 174.4 | 174.4 | 175.2 | 177.6 | 179.2 | 181.5 | 183.9 | 184.7 | 187.1 | 187.1 | 187.1 |
| 10° | 180.0 | 180.0 | 181.5 | 183.9 | 187.8 | 192.6 | 196.5 | 199.7 | 201.3 | 202.1 | 202.8 |
| 12.5° | 187.1 | 187.1 | 189.4 | 193.4 | 199.7 | 205.2 | 211.5 | 215.5 | 219.4 | 221.0 | 221.0 |
| 15° | 195.7 | 195.7 | 198.9 | 204.4 | 211.5 | 219.4 | 228.1 | 235.2 | 240.7 | 243.1 | 243.9 |
| 17.5° | 204.4 | 205.2 | 209.2 | 216.3 | 225.7 | 236.0 | 247.0 | 256.5 | 265.2 | 268.3 | 269.9 |
| 20° | 215.5 | 215.5 | 220.2 | 229.7 | 241.5 | 255.7 | 270.7 | 283.3 | 294.4 | 300.7 | 301.5 |
| 22.5° | 228.1 | 228.9 | 233.6 | 245.5 | 260.5 | 278.6 | 298.3 | 315.7 | 331.5 | 339.4 | 338.6 |
| 25° | 240.7 | 241.5 | 248.6 | 262.8 | 281.8 | 307.0 | 332.3 | 355.2 | 376.5 | 385.9 | 385.9 |
| 27.5° | 255.7 | 256.5 | 265.2 | 281.8 | 307.0 | 338.6 | 371.7 | 404.9 | 426.2 | 440.4 | 445.1 |
| 30° | 273.9 | 274.7 | 284.9 | 306.2 | 335.4 | 374.9 | 419.1 | 461.7 | 490.1 | 510.7 | 511.4 |
| 32.5° | 293.6 | 295.2 | 307.8 | 332.3 | 370.2 | 419.9 | 475.1 | 528.0 | 567.5 | 593.5 | 592.7 |
| 35° | 320.4 | 322.0 | 339.4 | 367.0 | 412.8 | 472.0 | 539.1 | 610.9 | 656.7 | 686.7 | 689.8 |
| 37.5° | 348.1 | 351.2 | 371.0 | 407.3 | 462.5 | 533.5 | 618.0 | 698.5 | 766.4 | 794.0 | 801.9 |
| 40° | 380.4 | 383.6 | 408.0 | 452.2 | 516.2 | 606.9 | 711.1 | 809.8 | 887.9 | 925.8 | 931.3 |
| 42.5° | 417.5 | 423.0 | 451.5 | 502.8 | 583.3 | 688.2 | 809.8 | 931.3 | 1030.0 | 1079.7 | 1076.6 |
| 45° | 470.4 | 475.1 | 511.4 | 569.1 | 659.8 | 780.6 | 928.2 | 1080.5 | 1187.0 | 1244.7 | 1243.9 |
| 47.5° | 520.9 | 527.2 | 570.6 | 643.2 | 748.2 | 888.7 | 1062.3 | 1236.0 | 1358.3 | 1422.2 | 1433.3 |
| 50° | 573.0 | 581.7 | 636.9 | 718.2 | 842.9 | 1015.0 | 1209.9 | 1396.2 | 1544.6 | 1623.5 | 1642.4 |
| 52.5° | 661.4 | 669.3 | 727.7 | 812.9 | 946.3 | 1136.5 | 1360.7 | 1569.8 | 1734.0 | 1817.7 | 1848.4 |
| 55° | 721.4 | 734.0 | 808.2 | 914.8 | 1066.3 | 1267.6 | 1513.8 | 1755.3 | 1940.8 | 2022.9 | 2040.2 |
| 57.5° | 741.1 | 754.5 | 843.7 | 975.5 | 1163.4 | 1405.7 | 1674.0 | 1932.9 | 2134.2 | 2245.4 | 2273.1 |
| 60° | 741.9 | 758.5 | 854.8 | 997.6 | 1210.7 | 1502.8 | 1816.9 | 2123.9 | 2352.0 | 2474.3 | 2498.0 |
| 62.5° | 767.2 | 786.1 | 888.7 | 1022.1 | 1234.4 | 1547.7 | 1914.0 | 2285.7 | 2565.1 | 2689.0 | 2715.1 |
| 65° | 795.6 | 817.7 | 926.6 | 1075.0 | 1288.1 | 1595.9 | 1975.5 | 2402.5 | 2756.9 | 2901.3 | 2913.9 |
| 67.5° | 766.4 | 785.3 | 899.8 | 1053.7 | 1275.4 | 1605.4 | 2018.9 | 2475.1 | 2872.1 | 3081.3 | 3091.5 |
| 70° | 718.2 | 738.0 | 846.9 | 987.4 | 1205.2 | 1533.5 | 1969.2 | 2475.1 | 2940.0 | 3202.8 | 3250.2 |
| 72.5° | 648.0 | 667.7 | 771.1 | 905.3 | 1101.0 | 1398.6 | 1831.1 | 2361.5 | 2893.4 | 3251.8 | 3307.0 |
| 75° | 562.0 | 580.1 | 675.6 | 797.9 | 969.2 | 1238.3 | 1630.6 | 2145.2 | 2711.9 | 3161.0 | 3227.3 |
| 77.5° | 468.8 | 485.4 | 566.7 | 665.3 | 810.6 | 1049.7 | 1385.9 | 1851.6 | 2394.6 | 2854.8 | 2940.8 |
| 80° | 368.6 | 385.2 | 447.5 | 524.9 | 641.7 | 824.8 | 1103.4 | 1489.3 | 1958.9 | 2344.1 | 2428.6 |
| 82.5° | 276.2 | 284.1 | 328.3 | 384.4 | 459.3 | 595.1 | 800.3 | 1101.0 | 1452.2 | 1728.5 | 1766.4 |
| 85° | 173.6 | 180.7 | 210.7 | 249.4 | 294.4 | 365.4 | 493.3 | 674.0 | 877.7 | 1033.1 | 1035.5 |
| 87.5° | 53.7 | 62.4 | 71.8 | 94.7 | 108.1 | 130.2 | 156.3 | 220.2 | 289.7 | 365.4 | 343.3 |
| 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
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: SP1-2407-176-6

Test Date: 09/26/2024

Luminaire Tested: MEM2-HTN-VA-30-750-U-WQ

Data in this report applies to families of products including MEM2-HTN-VA-30-750-U-WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-176-6
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 09/27/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Streetworks
 Catalog Number: **MEM2-HTN-VA-30-750-U-WQ**
 Description: EPIC MODERN VISUAL COMFORT 30W WAVESTREAM WIDE

Spectral Parameters

CCT (K): 4786
 CIE u': 0.2093
 CIE v': 0.4953
 Duv: 0.0066
 CIE x: 0.3533
 CIE y: 0.3716
 CIE z: 0.2751
 Peak Wavelength (nm): 449
 Dominant Wavelength (nm): 570
 Purity: 17.53512
 Rf: 73
 Rg: 94.6

| | | | |
|-----------|------|------|-------|
| CRI (Ra): | 70.9 | | |
| R1: | 67.8 | R9: | -29.8 |
| R2: | 75.1 | R10: | 40.9 |
| R3: | 80.6 | R11: | 67.4 |
| R4: | 71.6 | R12: | 35.3 |
| R5: | 67.8 | R13: | 68.5 |
| R6: | 65.4 | R14: | 89.0 |
| R7: | 82.0 | R15: | 60.9 |
| R8: | 57.0 | | |



Test Conditions

Stabilization Time: 45M
 Operation Time: 1H 45M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-176-6

| 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: SP1-2407-176-6

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-176-6

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 | 110 | NR | 620 | 440 | NR | 750 | 16 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 150 | NR | 625 | 407 | NR | 755 | 14 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 213 | NR | 630 | 375 | NR | 760 | 12 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 288 | NR | 635 | 345 | NR | 765 | 11 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 364 | NR | 640 | 314 | NR | 770 | 9 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 436 | NR | 645 | 283 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 1 | NR | 520 | 492 | NR | 650 | 254 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 3 | NR | 525 | 537 | NR | 655 | 227 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 5 | NR | 530 | 570 | NR | 660 | 200 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 7 | NR | 535 | 595 | NR | 665 | 177 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 13 | NR | 540 | 611 | NR | 670 | 155 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 25 | NR | 545 | 624 | NR | 675 | 136 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 52 | NR | 550 | 631 | NR | 680 | 119 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 106 | NR | 555 | 637 | NR | 685 | 104 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 204 | NR | 560 | 640 | NR | 690 | 91 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 369 | NR | 565 | 642 | NR | 695 | 79 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 573 | NR | 570 | 641 | NR | 700 | 68 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 844 | NR | 575 | 638 | NR | 705 | 59 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 999 | NR | 580 | 632 | NR | 710 | 50 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 668 | NR | 585 | 620 | NR | 715 | 43 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 361 | NR | 590 | 607 | NR | 720 | 36 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 255 | NR | 595 | 586 | NR | 725 | 30 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 165 | NR | 600 | 564 | NR | 730 | 25 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 106 | NR | 605 | 537 | NR | 735 | 22 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 91 | NR | 610 | 507 | NR | 740 | 19 | NR | 870 | 0 | NR | 1000 | 0 | NR |
| 485 | 93 | NR | 615 | 474 | NR | 745 | 17 | NR | 875 | 0 | NR | | | |

REPORT NUMBER: SP1-2407-176-6

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR S/P: 1.69

| 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 | 110 | NR | 620 | 440 | NR | 750 | 16 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 150 | NR | 625 | 407 | NR | 755 | 14 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 213 | NR | 630 | 375 | NR | 760 | 12 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 288 | NR | 635 | 345 | NR | 765 | 11 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 364 | NR | 640 | 314 | NR | 770 | 9 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 436 | NR | 645 | 283 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 1 | NR | 520 | 492 | NR | 650 | 254 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 3 | NR | 525 | 537 | NR | 655 | 227 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 5 | NR | 530 | 570 | NR | 660 | 200 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 7 | NR | 535 | 595 | NR | 665 | 177 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 13 | NR | 540 | 611 | NR | 670 | 155 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 25 | NR | 545 | 624 | NR | 675 | 136 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 52 | NR | 550 | 631 | NR | 680 | 119 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 106 | NR | 555 | 637 | NR | 685 | 104 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 204 | NR | 560 | 640 | NR | 690 | 91 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 369 | NR | 565 | 642 | NR | 695 | 79 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 573 | NR | 570 | 641 | NR | 700 | 68 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 844 | NR | 575 | 638 | NR | 705 | 59 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 999 | NR | 580 | 632 | NR | 710 | 50 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 668 | NR | 585 | 620 | NR | 715 | 43 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 361 | NR | 590 | 607 | NR | 720 | 36 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 255 | NR | 595 | 586 | NR | 725 | 30 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 165 | NR | 600 | 564 | NR | 730 | 25 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 106 | NR | 605 | 537 | NR | 735 | 22 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 91 | NR | 610 | 507 | NR | 740 | 19 | NR | 870 | 0 | NR | 1000 | 0 | NR |
| 485 | 93 | NR | 615 | 474 | NR | 745 | 17 | NR | 875 | 0 | NR | | | |

REPORT NUMBER: SP1-2407-176-6

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.36

| 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 | 110 | NR | 620 | 440 | NR | 750 | 16 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 150 | NR | 625 | 407 | NR | 755 | 14 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 213 | NR | 630 | 375 | NR | 760 | 12 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 288 | NR | 635 | 345 | NR | 765 | 11 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 364 | NR | 640 | 314 | NR | 770 | 9 | NR | 900 | 0 | NR |
| 385 | 0 | NR | 515 | 436 | NR | 645 | 283 | NR | 775 | 8 | NR | 905 | 0 | NR |
| 390 | 1 | NR | 520 | 492 | NR | 650 | 254 | NR | 780 | 7 | NR | 910 | 0 | NR |
| 395 | 3 | NR | 525 | 537 | NR | 655 | 227 | NR | 785 | 6 | NR | 915 | 0 | NR |
| 400 | 5 | NR | 530 | 570 | NR | 660 | 200 | NR | 790 | 5 | NR | 920 | 0 | NR |
| 405 | 7 | NR | 535 | 595 | NR | 665 | 177 | NR | 795 | 4 | NR | 925 | 0 | NR |
| 410 | 13 | NR | 540 | 611 | NR | 670 | 155 | NR | 800 | 4 | NR | 930 | 0 | NR |
| 415 | 25 | NR | 545 | 624 | NR | 675 | 136 | NR | 805 | 3 | NR | 935 | 0 | NR |
| 420 | 52 | NR | 550 | 631 | NR | 680 | 119 | NR | 810 | 3 | NR | 940 | 0 | NR |
| 425 | 106 | NR | 555 | 637 | NR | 685 | 104 | NR | 815 | 3 | NR | 945 | 0 | NR |
| 430 | 204 | NR | 560 | 640 | NR | 690 | 91 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 369 | NR | 565 | 642 | NR | 695 | 79 | NR | 825 | 2 | NR | 955 | 0 | NR |
| 440 | 573 | NR | 570 | 641 | NR | 700 | 68 | NR | 830 | 2 | NR | 960 | 0 | NR |
| 445 | 844 | NR | 575 | 638 | NR | 705 | 59 | NR | 835 | 2 | NR | 965 | 0 | NR |
| 450 | 999 | NR | 580 | 632 | NR | 710 | 50 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 668 | NR | 585 | 620 | NR | 715 | 43 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 361 | NR | 590 | 607 | NR | 720 | 36 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 255 | NR | 595 | 586 | NR | 725 | 30 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 165 | NR | 600 | 564 | NR | 730 | 25 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 106 | NR | 605 | 537 | NR | 735 | 22 | NR | 865 | 1 | NR | 995 | 0 | NR |
| 480 | 91 | NR | 610 | 507 | NR | 740 | 19 | NR | 870 | 0 | NR | 1000 | 0 | NR |
| 485 | 93 | NR | 615 | 474 | NR | 745 | 17 | NR | 875 | 0 | NR | | | |

Summary

$R_f = 73$
 $R_g = 94.6$
 $CIE R_a = 70.9$
 $R_g = -29.8$



Color Vector Graphics



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

| | | | |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 60 | CES51 = 89 | CES76 = 46 |
| CES02 = 59 | CES27 = 86 | CES52 = 88 | CES77 = 65 |
| CES03 = 30 | CES28 = 78 | CES53 = 76 | CES78 = 49 |
| CES04 = 69 | CES29 = 62 | CES54 = 83 | CES79 = 78 |
| CES05 = 46 | CES30 = 79 | CES55 = 82 | CES80 = 74 |
| CES06 = 50 | CES31 = 66 | CES56 = 71 | CES81 = 77 |
| CES07 = 39 | CES32 = 58 | CES57 = 70 | CES82 = 89 |
| CES08 = 38 | CES33 = 74 | CES58 = 71 | CES83 = 87 |
| CES09 = 29 | CES34 = 66 | CES59 = 86 | CES84 = 86 |
| CES10 = 72 | CES35 = 81 | CES60 = 90 | CES85 = 79 |
| CES11 = 56 | CES36 = 94 | CES61 = 84 | CES86 = 76 |
| CES12 = 61 | CES37 = 75 | CES62 = 84 | CES87 = 76 |
| CES13 = 41 | CES38 = 88 | CES63 = 72 | CES88 = 79 |
| CES14 = 74 | CES39 = 95 | CES64 = 66 | CES89 = 73 |
| CES15 = 70 | CES40 = 88 | CES65 = 61 | CES90 = 78 |
| CES16 = 46 | CES41 = 92 | CES66 = 58 | CES91 = 77 |
| CES17 = 49 | CES42 = 75 | CES67 = 55 | CES92 = 63 |
| CES18 = 55 | CES43 = 74 | CES68 = 65 | CES93 = 77 |
| CES19 = 71 | CES44 = 99 | CES69 = 74 | CES94 = 56 |
| CES20 = 64 | CES45 = 83 | CES70 = 55 | CES95 = 67 |
| CES21 = 85 | CES46 = 82 | CES71 = 47 | CES96 = 76 |
| CES22 = 77 | CES47 = 84 | CES72 = 82 | CES97 = 83 |
| CES23 = 91 | CES48 = 76 | CES73 = 44 | CES98 = 73 |
| CES24 = 90 | CES49 = 80 | CES74 = 92 | CES99 = 62 |
| CES25 = 71 | CES50 = 88 | CES75 = 47 | |



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)