

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: P879918

Luminaire Tested: **MEM2-HSN-VA-80-750-U-WT4**

Issue Date: 10/01/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P879918  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/01/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: MEM2-HSN-VA-80-750-U-WT4  
Description: EPIC MODERN SHORT HOUSING 80W 70CRI 5000K VISUAL COMFORT FIXTURE w/  
DRIVE LANE TYPE IV DISTRIBUTION OPTIC  
Light Source: (1) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

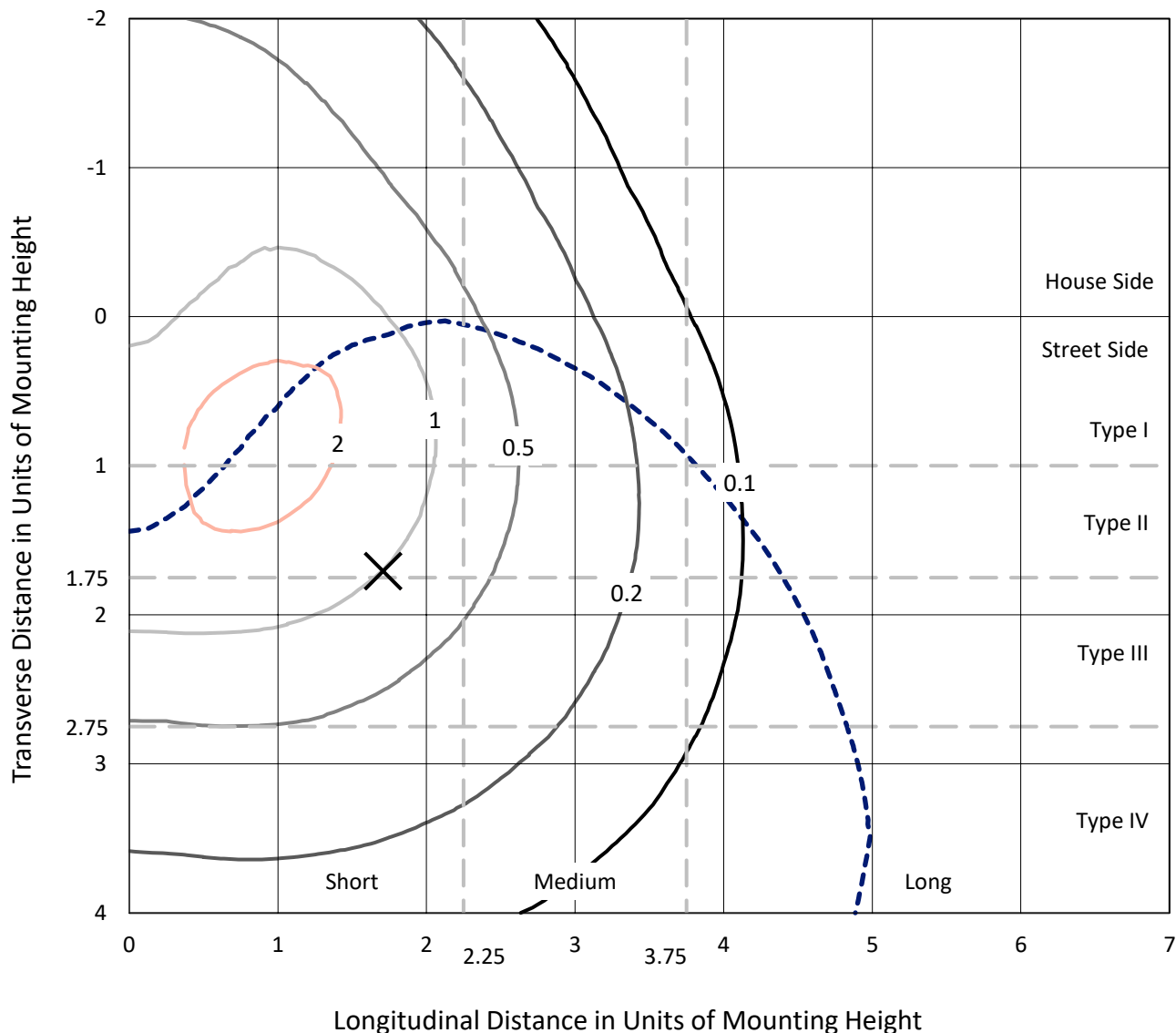
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7721.9 lumens  
Efficiency: N/A  
Efficacy: 99.0 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type IV - 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: P879918  
 CATALOG NUMBER: MEM2-HSN-VA-80-750-U-WT4

### Iso-Footcandle Lines of Horizontal Illumination

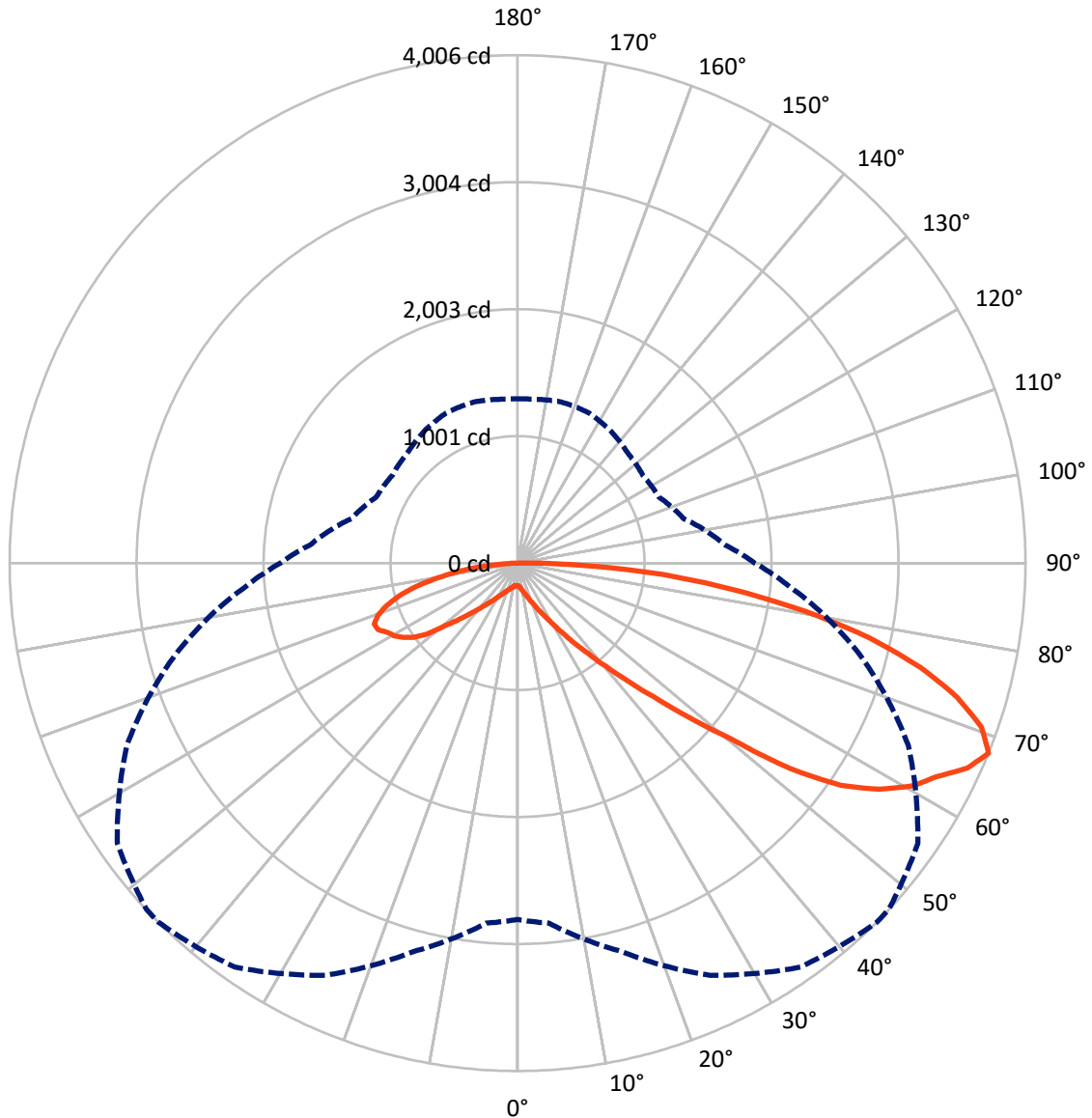
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.7 fc  
 Type IV - Short - N/A

REPORT NUMBER: P879918  
CATALOG NUMBER: MEM2-HSN-VA-80-750-U-WT4

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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 CATALOG NUMBER: MEM2-HSN-VA-80-750-U-WT4

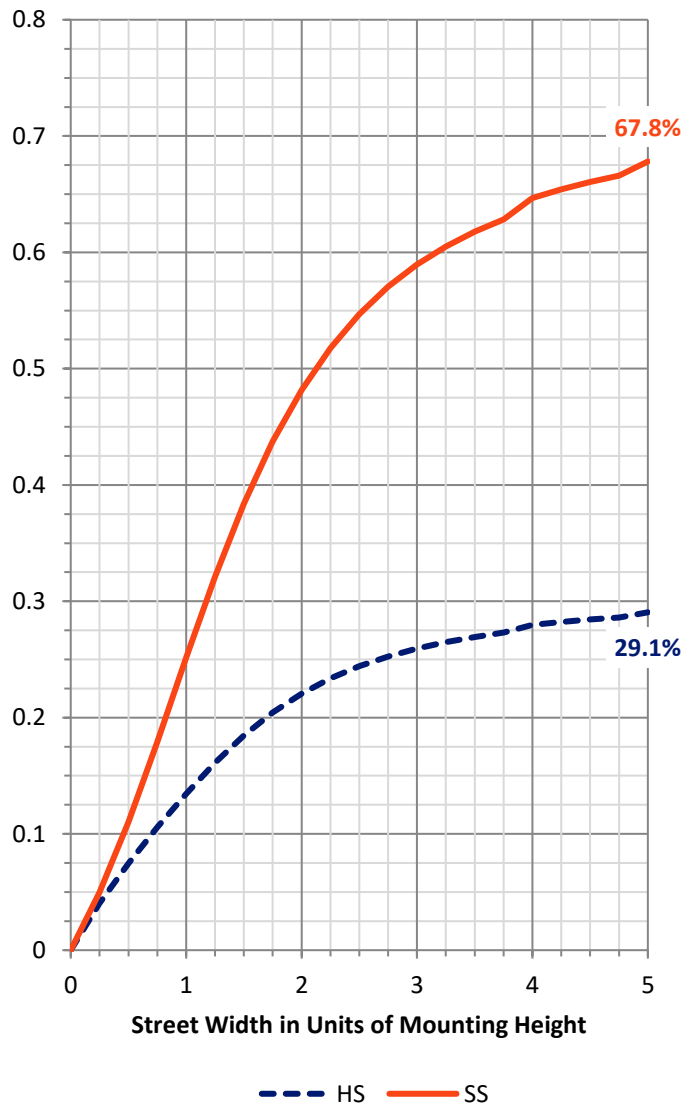
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2288.5	0.0	2288.5
	% Fixture	29.6	0.0	29.6
<b>Street Side</b>	Lumens	5433.4	0.0	5433.4
	% Fixture	70.4	0.0	70.4
<b>Total</b>	Lumens	7721.9	0.0	7721.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	18.3	0.2
10°-20°	68.7	0.9
20°-30°	161.8	2.1
30°-40°	354.9	4.6
40°-50°	772.7	10.0
50°-60°	1587.6	20.6
60°-70°	2236.7	29.0
70°-80°	1898.9	24.6
80°-90°	622.3	8.1
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°	7721.9	100.0
0°-180°	7721.9	100.0



REPORT NUMBER: P879918

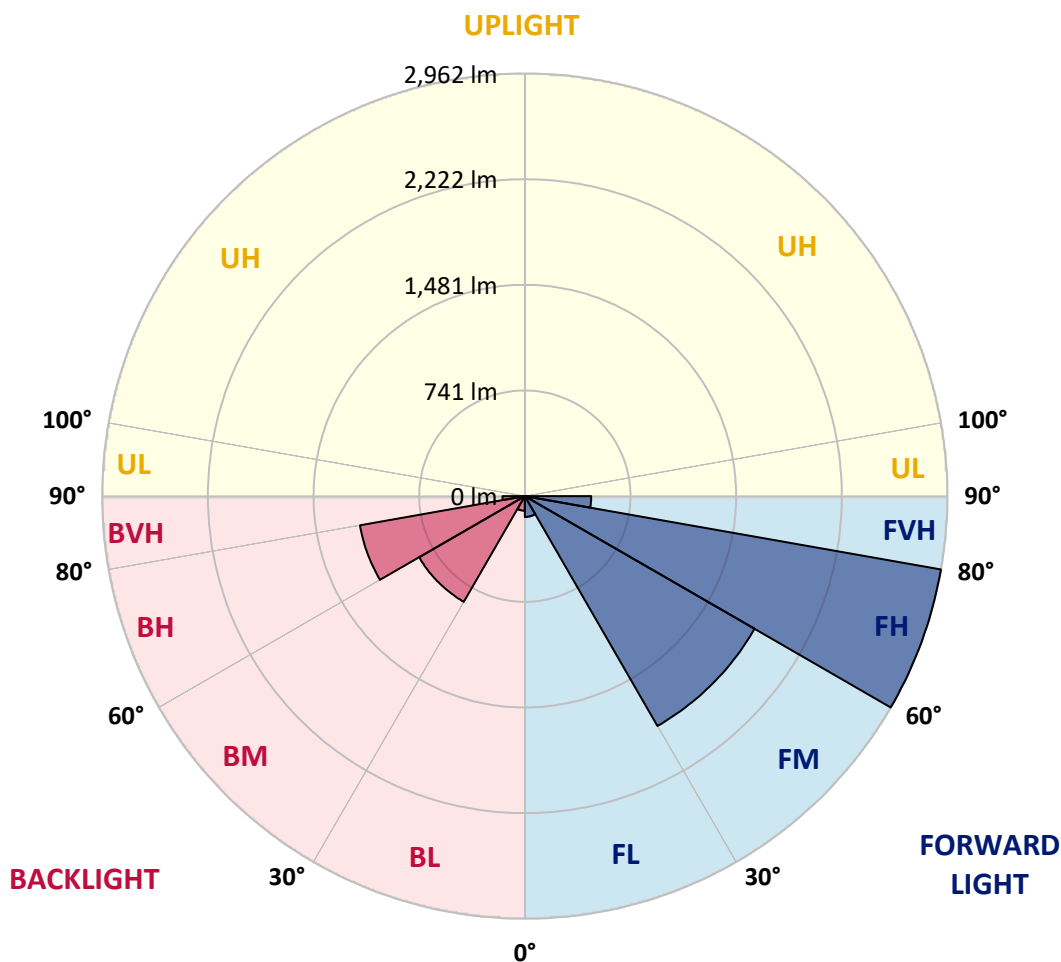
CATALOG NUMBER: MEM2-HSN-VA-80-750-U-WT4

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	146.1	1.9			
FM (30°-60°)	1859.8	24.1			
FH (60°-80°)	2962.1	38.4			G2/5000
FVH (80°-90°)	465.4	6.0			G3/500
BL (0°-30°)	102.7	1.3	B0/110		
BM (30°-60°)	855.4	11.1	B1/1000		
BH (60°-80°)	1173.5	15.2	B3/2500		G3/2500
BVH (80°-90°)	156.9	2.0			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type IV Short





REPORT NUMBER: P879918

CATALOG NUMBER: MEM2-HSN-VA-80-750-U-WT4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	178.3	178.3	178.3	178.3	178.3	178.3	178.3	178.3	178.3	178.3	178.3
2.5°	183.8	183.0	183.8	183.8	183.8	183.0	183.0	183.0	182.2	181.5	180.7
5°	194.9	194.9	194.9	194.1	194.1	192.5	192.5	191.7	190.1	188.6	187.0
7.5°	209.9	209.1	209.1	208.3	207.5	205.9	205.1	204.3	201.2	198.8	195.7
10°	228.0	228.0	227.2	225.6	225.6	221.7	222.5	220.9	217.0	212.2	206.7
12.5°	250.1	250.1	248.5	248.5	246.9	243.8	243.0	240.6	236.7	228.8	222.5
15°	274.6	274.6	276.1	274.6	273.0	269.0	269.0	265.9	257.2	250.9	241.4
17.5°	305.3	301.4	303.7	303.0	303.0	300.6	298.2	294.3	287.2	276.1	264.3
20°	336.9	337.7	335.3	337.7	338.5	335.3	335.3	330.6	320.3	306.9	288.0
22.5°	376.3	376.3	371.6	377.9	381.9	379.5	378.7	369.2	356.6	338.5	319.5
25°	417.4	415.8	423.7	425.2	433.9	433.1	432.3	423.7	404.7	382.6	353.5
27.5°	463.9	466.3	481.3	485.2	493.9	493.1	492.3	482.8	462.3	432.3	394.5
30°	521.5	524.7	538.9	552.3	567.3	568.8	567.3	559.4	529.4	489.9	447.3
32.5°	588.6	597.2	611.4	634.3	653.3	661.9	663.5	649.3	615.4	563.3	507.3
35°	680.1	673.0	692.7	730.6	762.1	779.5	778.7	759.8	722.7	656.4	576.7
37.5°	770.0	767.7	798.4	848.1	890.7	904.9	908.9	896.3	848.9	761.3	667.5
40°	863.9	883.6	919.1	976.7	1039.8	1069.8	1072.2	1054.0	989.4	890.7	766.9
42.5°	986.2	1005.9	1050.9	1121.9	1213.4	1263.1	1266.3	1245.8	1167.7	1039.8	886.8
45°	1140.8	1151.9	1199.2	1307.3	1424.9	1504.5	1527.4	1502.2	1405.9	1228.4	1035.9
47.5°	1307.3	1307.3	1384.6	1527.4	1704.9	1809.9	1827.2	1804.3	1660.8	1446.9	1202.4
50°	1492.7	1493.5	1616.6	1820.9	2045.0	2175.9	2189.4	2134.1	1960.6	1669.4	1372.0
52.5°	1685.2	1705.7	1885.6	2194.9	2495.5	2695.9	2709.3	2645.4	2414.2	1988.2	1552.7
55°	1950.3	1982.6	2243.8	2623.3	2935.7	3093.5	3094.3	3017.8	2740.0	2297.4	1768.8
57.5°	2318.0	2330.6	2574.4	2961.7	3256.8	3364.9	3357.0	3245.0	2924.7	2470.2	1946.4
60°	2621.7	2650.9	2849.7	3209.5	3497.4	3571.6	3562.9	3414.6	3050.9	2571.2	2031.6
62.5°	2821.3	2835.5	3041.4	3387.0	3645.8	3708.1	3698.6	3560.6	3205.5	2747.1	2173.6
65°	2869.4	2893.1	3154.2	3505.3	3756.2	3896.7	3890.3	3816.2	3451.7	2877.3	2240.6
67.5°	2811.1	2850.5	3170.8	3586.6	3888.8	4005.5	4002.4	3853.3	3398.8	2793.7	2156.2
70°	2691.9	2725.8	3123.5	3577.9	3850.1	3881.7	3857.2	3686.8	3243.4	2654.8	2030.0
72.5°	2504.1	2561.7	2949.9	3379.9	3607.1	3627.6	3618.9	3410.7	3009.9	2415.8	1839.1
75°	2258.0	2328.2	2680.1	3028.0	3244.2	3279.7	3263.1	3080.9	2675.4	2116.8	1602.4
77.5°	1946.4	1985.8	2254.0	2584.6	2833.1	2839.5	2830.0	2626.4	2253.3	1772.8	1348.3
80°	1533.7	1557.4	1790.1	2065.5	2271.4	2296.7	2288.0	2150.7	1789.4	1402.8	1051.7
82.5°	1136.1	1120.3	1276.5	1502.2	1706.5	1708.1	1722.3	1570.0	1339.6	1017.8	752.7
85°	654.0	660.4	796.1	949.9	1073.8	1145.6	1144.8	1071.4	861.5	647.7	459.2
87.5°	182.2	196.5	282.4	411.0	467.1	508.1	493.1	445.0	359.8	203.6	116.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P879918

CATALOG NUMBER: MEM2-HSN-VA-80-750-U-WT4

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	178.3	178.3	178.3	178.3	178.3	178.3	178.3	178.3	178.3	178.3	178.3
2.5°	180.7	179.9	179.1	178.3	176.7	176.7	175.9	176.7	176.7	176.7	176.7
5°	185.4	184.6	182.2	180.7	178.3	176.7	175.9	175.9	175.9	175.9	175.9
7.5°	193.3	192.5	188.6	185.4	182.2	180.7	179.1	178.3	177.5	176.7	177.5
10°	205.1	202.0	198.0	193.3	188.6	186.2	183.8	183.0	182.2	181.5	181.5
12.5°	218.5	216.2	209.1	202.8	198.0	194.1	190.9	189.3	188.6	187.8	187.8
15°	236.7	232.0	222.5	214.6	207.5	202.8	199.6	198.0	197.2	196.5	196.5
17.5°	257.2	250.9	238.3	228.0	220.1	213.8	209.9	207.5	205.9	206.7	207.5
20°	280.9	270.6	256.4	243.8	233.5	226.4	222.5	219.3	217.8	218.5	219.3
22.5°	308.5	297.4	276.9	261.9	249.3	240.6	236.7	234.3	232.7	232.0	230.4
25°	340.0	325.8	302.2	281.7	266.7	258.0	253.3	251.7	250.1	248.5	248.5
27.5°	377.9	361.3	329.0	306.9	288.8	280.1	274.6	272.2	272.2	269.8	269.8
30°	422.1	400.0	360.6	331.4	313.2	302.2	295.9	295.1	293.5	295.9	295.9
32.5°	475.0	445.0	396.8	362.9	342.4	332.2	325.8	324.3	321.9	323.5	328.2
35°	541.2	502.6	445.0	404.7	379.5	369.2	361.3	360.6	356.6	360.6	354.2
37.5°	615.4	572.8	496.3	448.9	421.3	409.5	403.9	401.6	400.8	400.8	396.1
40°	706.1	654.8	561.7	503.4	471.8	457.6	452.1	451.3	449.7	455.2	449.7
42.5°	818.1	740.0	629.6	563.3	531.0	516.0	509.7	507.3	511.2	513.6	512.8
45°	942.8	858.4	716.4	639.8	602.8	587.8	579.1	576.7	578.3	578.3	586.2
47.5°	1086.4	987.0	815.8	723.5	689.5	671.4	665.9	658.0	654.0	652.5	665.9
50°	1236.3	1112.4	917.6	814.2	783.4	769.2	770.8	755.0	749.5	743.2	741.6
52.5°	1387.0	1246.6	1033.5	940.4	904.9	912.0	908.9	892.3	860.0	852.1	833.1
55°	1567.7	1398.0	1144.8	1033.5	1002.8	1008.3	1020.9	1020.9	1013.8	996.5	981.5
57.5°	1720.7	1523.5	1228.4	1089.5	1062.7	1076.9	1102.2	1121.1	1137.7	1150.3	1149.5
60°	1805.9	1600.8	1282.8	1132.2	1100.6	1128.2	1166.1	1198.4	1233.9	1271.0	1269.4
62.5°	1923.5	1708.9	1379.9	1207.9	1153.5	1162.1	1205.5	1261.5	1293.9	1324.7	1333.3
65°	1954.2	1728.6	1416.2	1261.5	1217.4	1218.9	1248.1	1293.9	1321.5	1329.4	1334.1
67.5°	1871.4	1641.8	1356.2	1230.0	1206.3	1228.4	1275.7	1312.0	1316.0	1297.0	1295.5
70°	1746.7	1535.3	1261.5	1155.8	1140.8	1174.8	1237.1	1280.5	1271.0	1232.3	1230.0
72.5°	1570.8	1374.4	1134.5	1058.0	1043.0	1085.6	1140.8	1186.6	1172.4	1143.2	1140.8
75°	1359.4	1175.5	980.7	923.9	923.1	969.6	1017.8	1045.4	1044.6	1024.1	1017.8
77.5°	1129.8	980.7	807.9	756.6	775.5	819.7	855.2	875.7	868.6	861.5	859.2
80°	884.4	751.9	623.3	592.5	621.7	636.7	674.6	673.0	676.9	661.9	673.0
82.5°	629.6	542.0	446.5	433.1	437.1	467.1	487.6	485.2	475.0	463.9	459.2
85°	381.9	333.7	286.4	267.5	280.9	278.5	291.1	280.9	274.6	269.0	273.8
87.5°	105.7	91.5	87.6	63.1	78.1	61.5	64.7	45.0	39.4	47.3	41.0
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

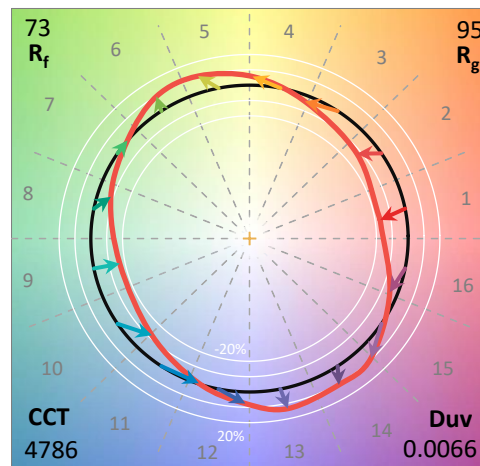
**Test Information**

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**

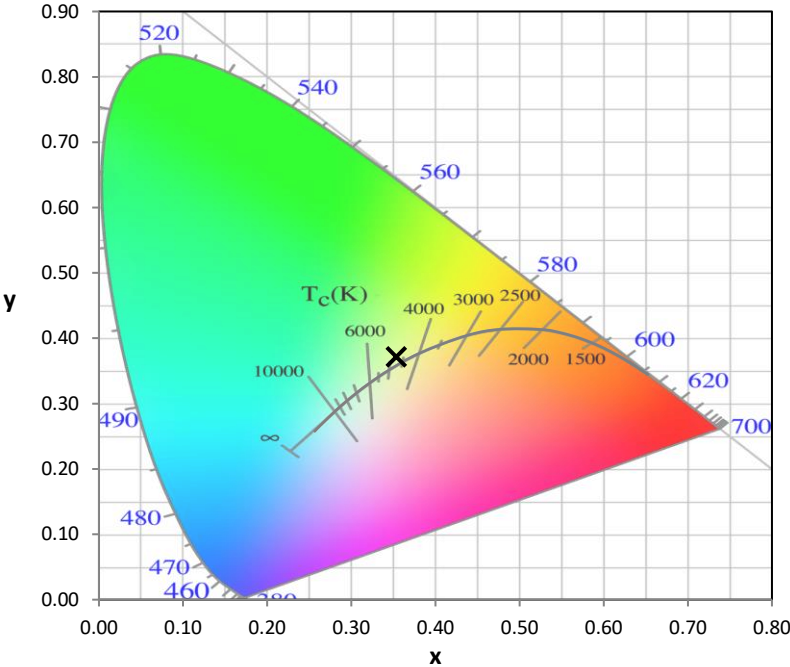
Stabilization Time: 45M  
 Operation Time: 1H 45M  
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-176-6

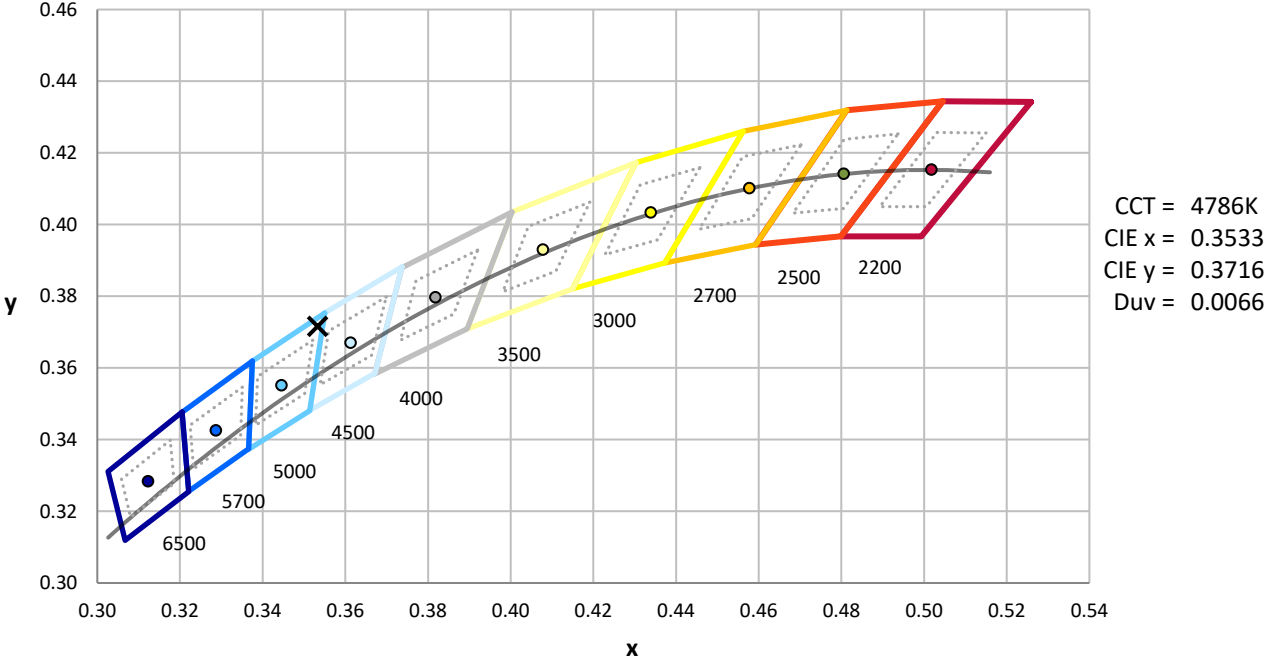
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	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**



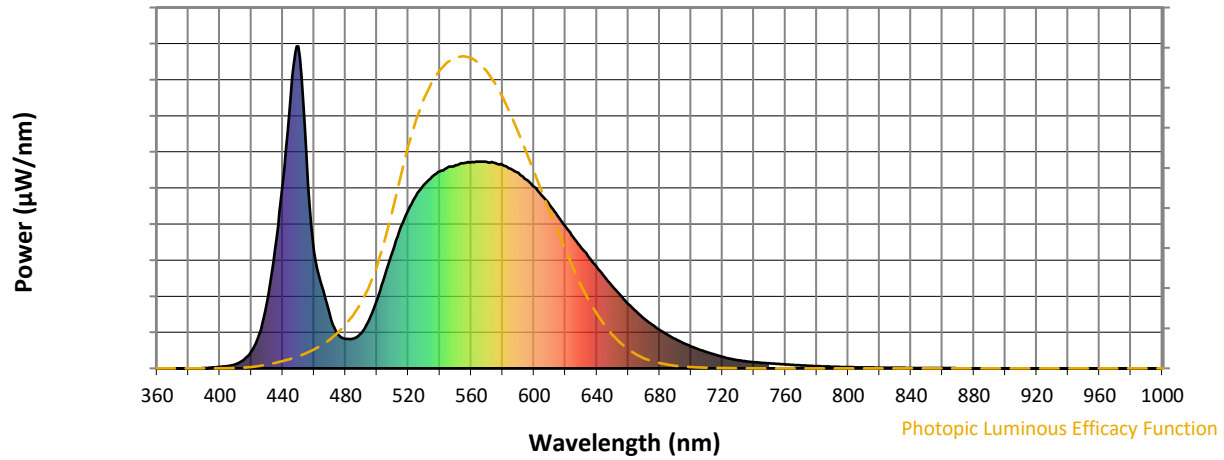
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-176-6

**Photopic Flux vs. Wavelength**

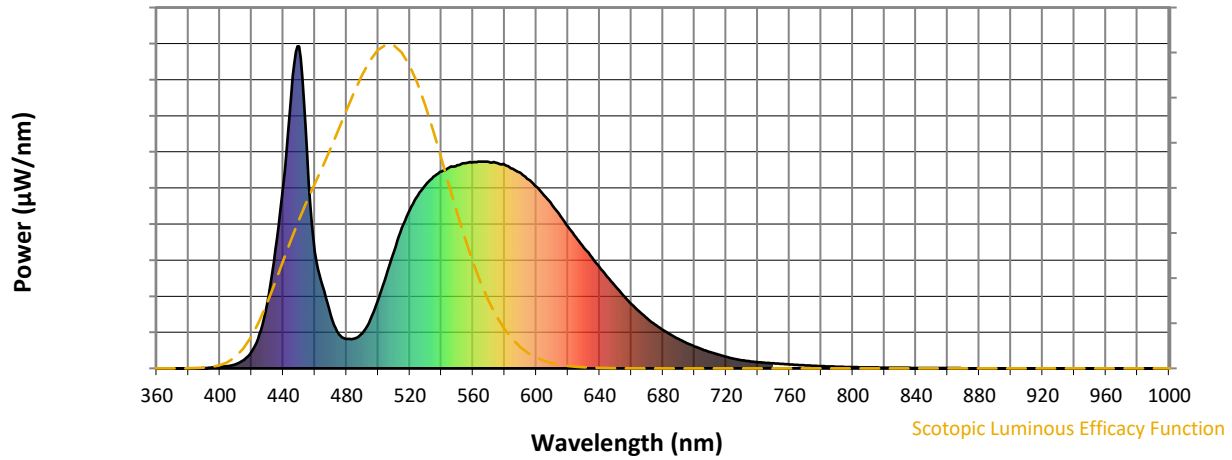


**Photopic Lumens: NR**

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /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**



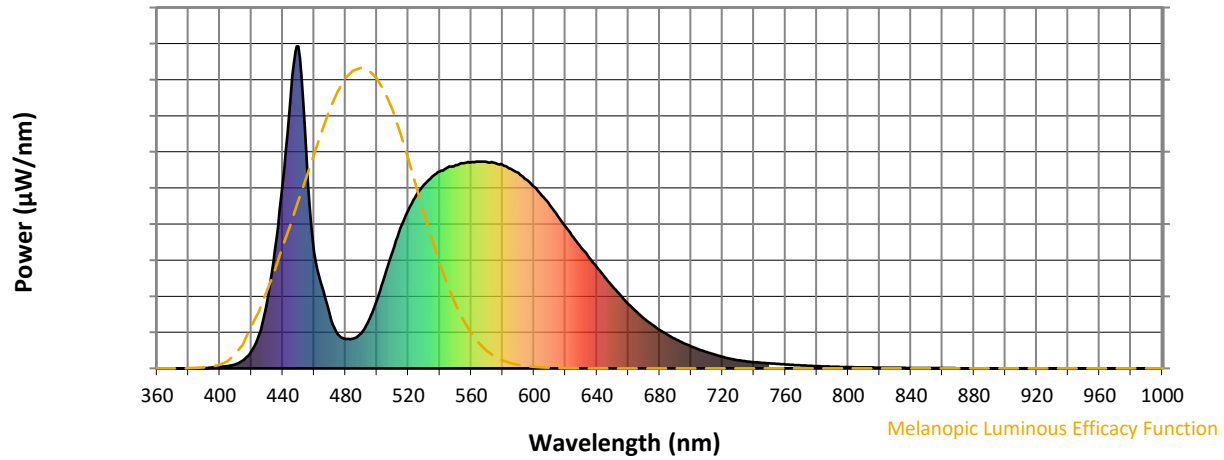
**Scotopic Lumens: NR**

**S/P: 1.69**

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /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**



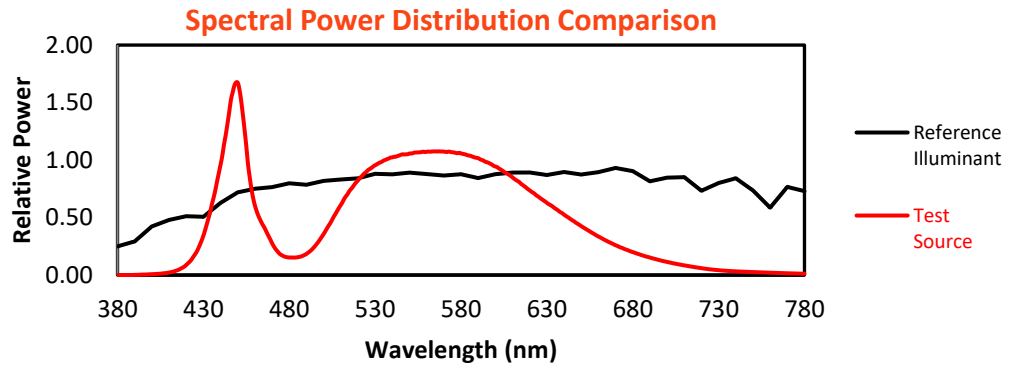
**Melanopic Lumens: NR**

**M/P: 3.36**

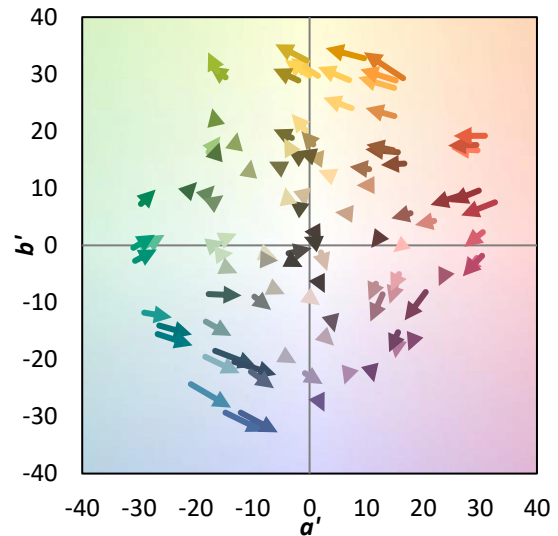
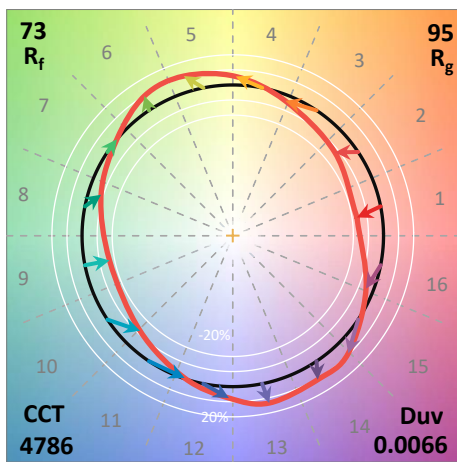
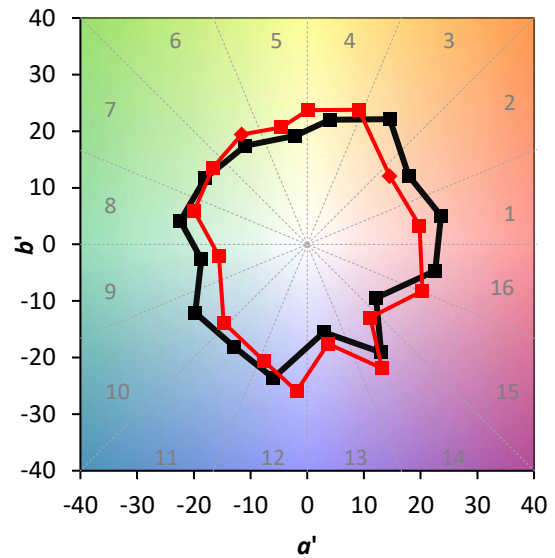
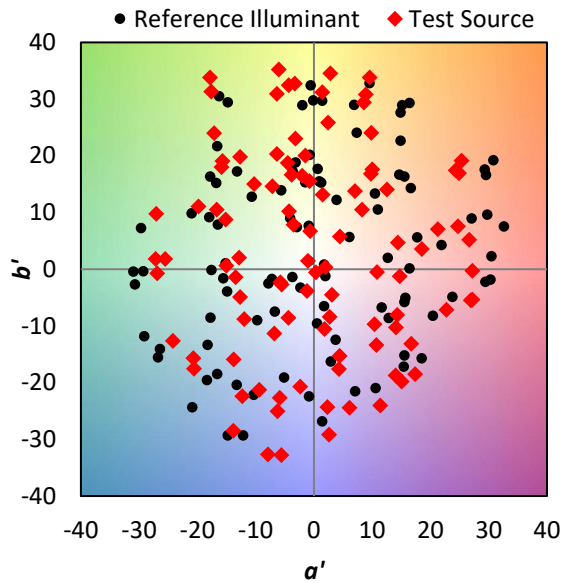
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	110	NR	620	440	NR	750	16	NR	880	0	NR
365	0	NR	495	150	NR	625	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**

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



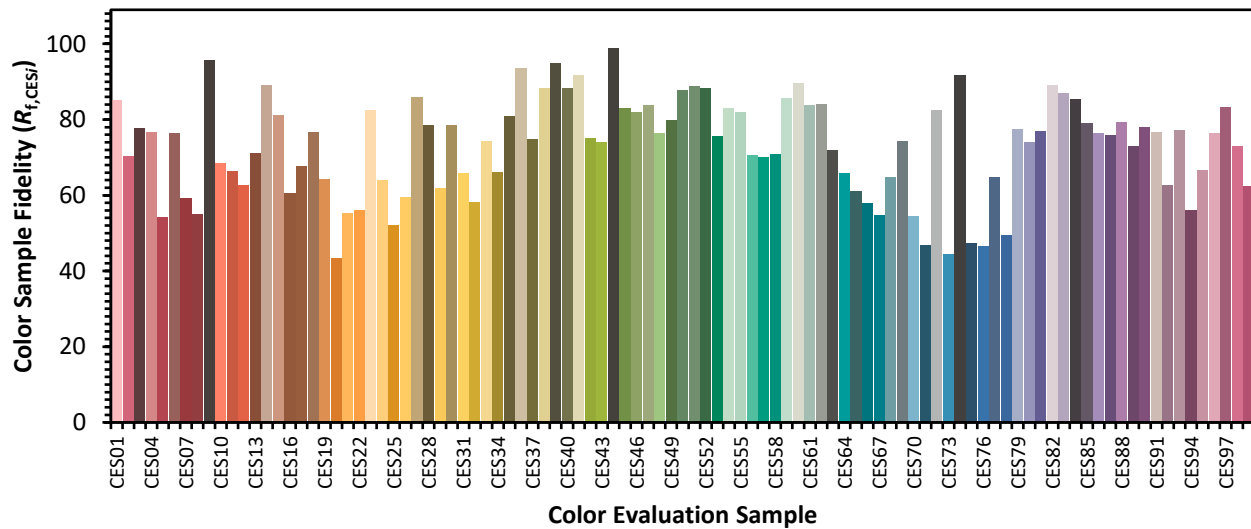
**Color Vector Graphics**



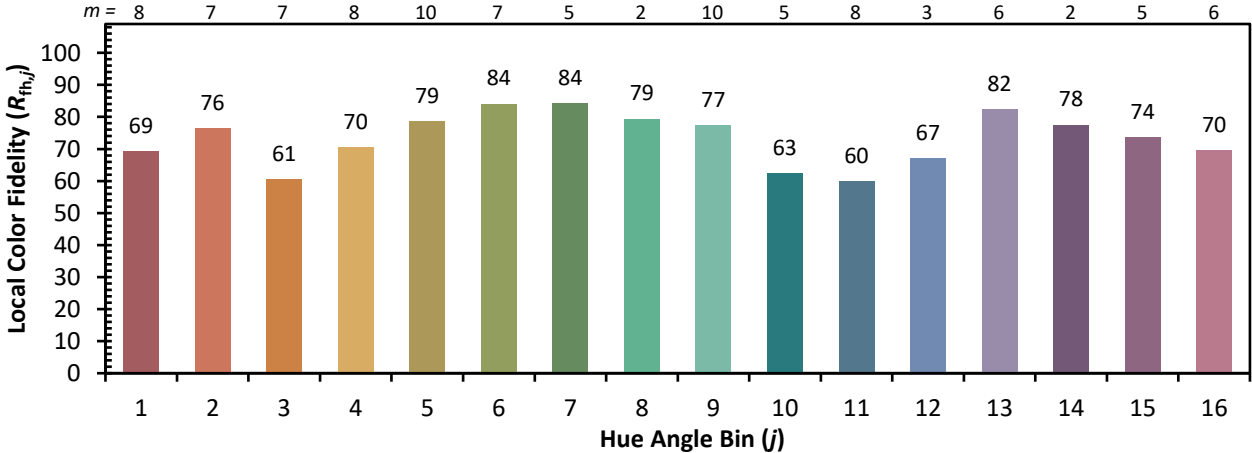
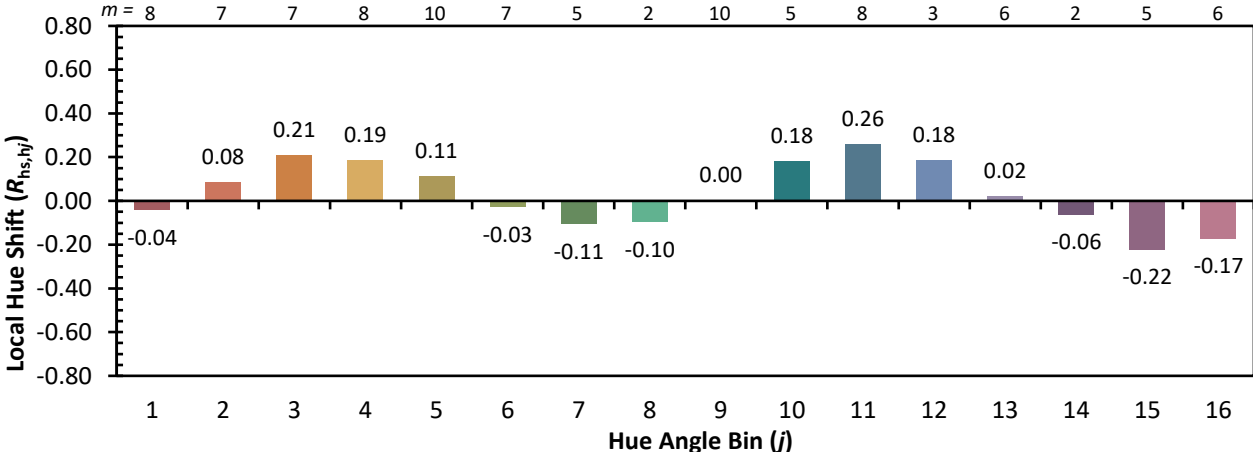
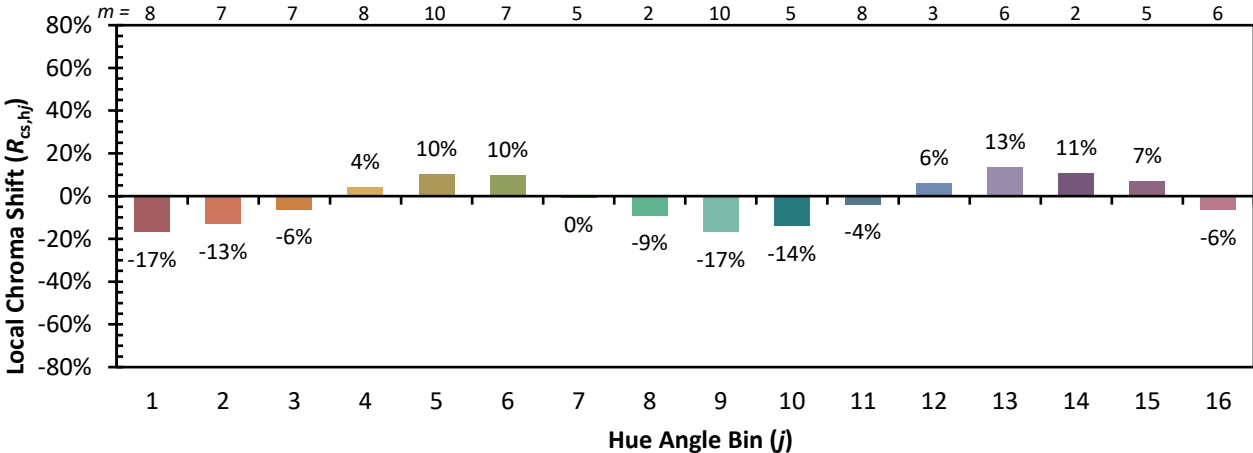


Individual Sample Fidelity Index ( $R_{f,i}$ )

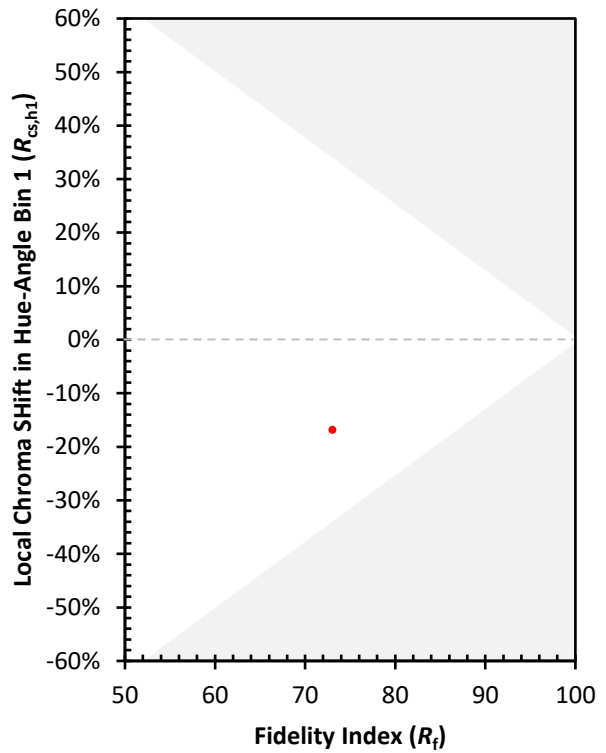
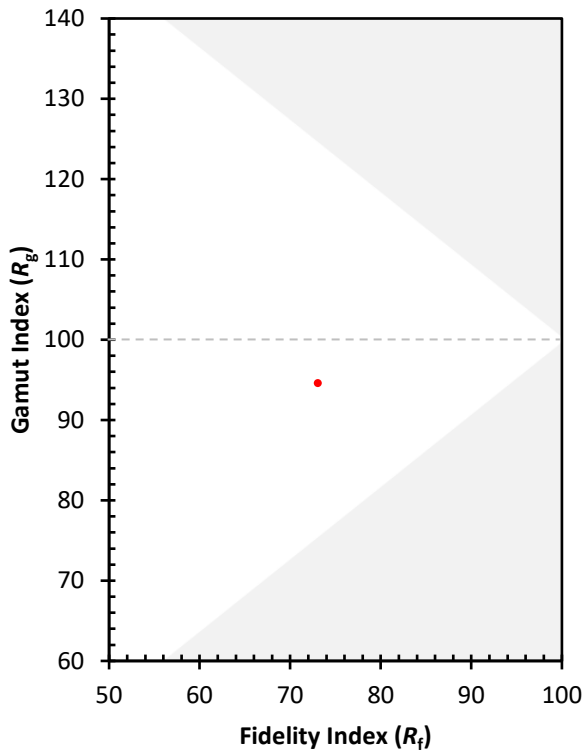
CES01 = 85	CES26 = 60	CES51 = 89	CES76 = 46
CES02 = 59	CES27 = 86	CES52 = 88	CES77 = 65
CES03 = 30	CES28 = 78	CES53 = 76	CES78 = 49
CES04 = 69	CES29 = 62	CES54 = 83	CES79 = 78
CES05 = 46	CES30 = 79	CES55 = 82	CES80 = 74
CES06 = 50	CES31 = 66	CES56 = 71	CES81 = 77
CES07 = 39	CES32 = 58	CES57 = 70	CES82 = 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)