

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: P879638

Luminaire Tested: **MEM2-HTN-VA-130-727-U-RW**

Issue Date: 10/01/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P879638  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/01/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: MEM2-HTN-VA-130-727-U-RW  
Description: EPIC MODERN TALL HOUSING 130W 70CRI 2700K VISUAL COMFORT FIXTURE w/  
RECTANGULAR WIDE DISTRIBUTION OPTIC  
Light Source: (1) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

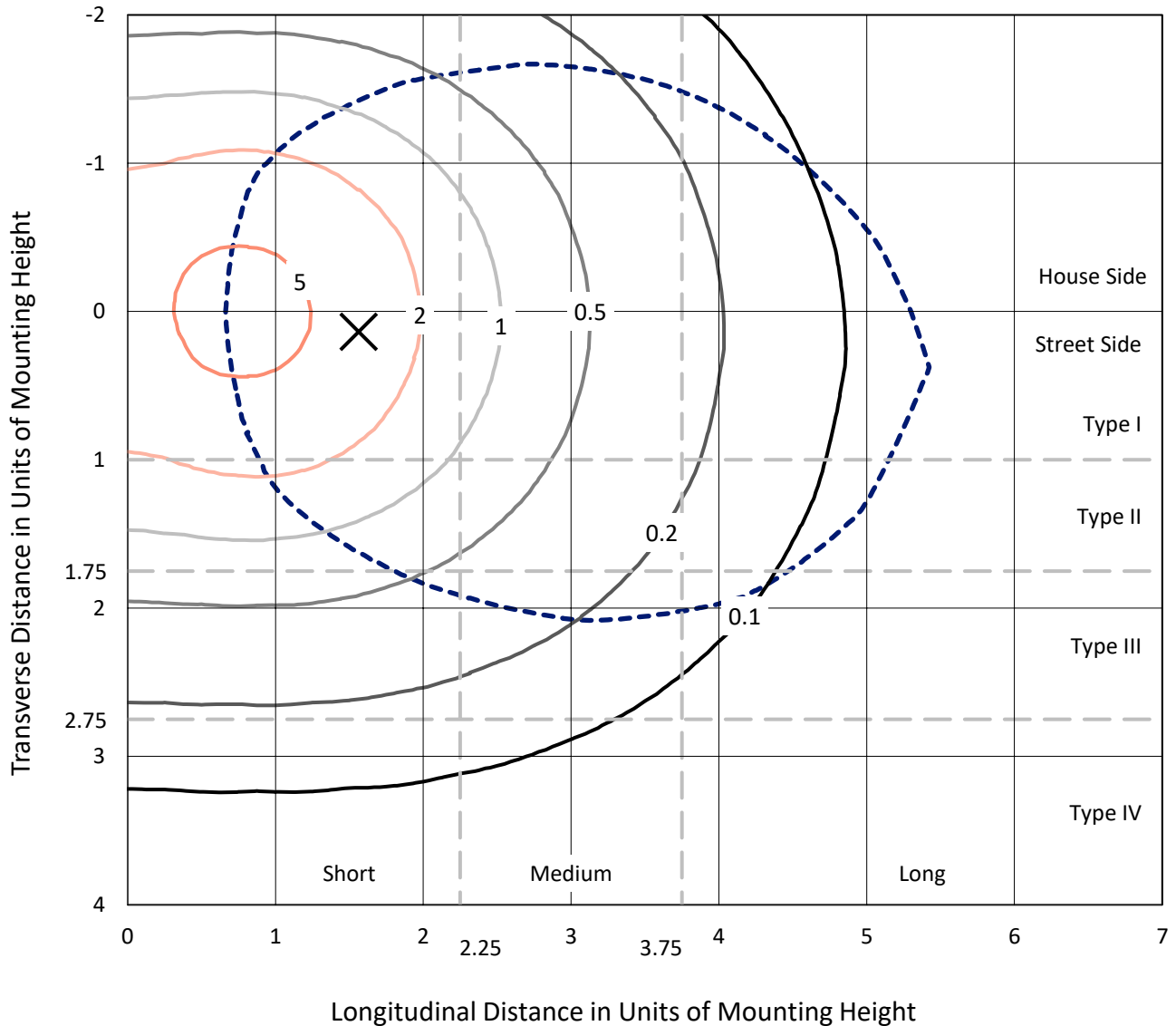
Lumens per Lamp: N/A  
Luminaire Lumens: 11802.9 lumens  
Efficiency: N/A  
Efficacy: 90.8 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 130  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.995  
Total Harmonic Distortion (THDi): 8.1%  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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 CATALOG NUMBER: MEM2-HTN-VA-130-727-U-RW

### Iso-Footcandle Lines of Horizontal Illumination

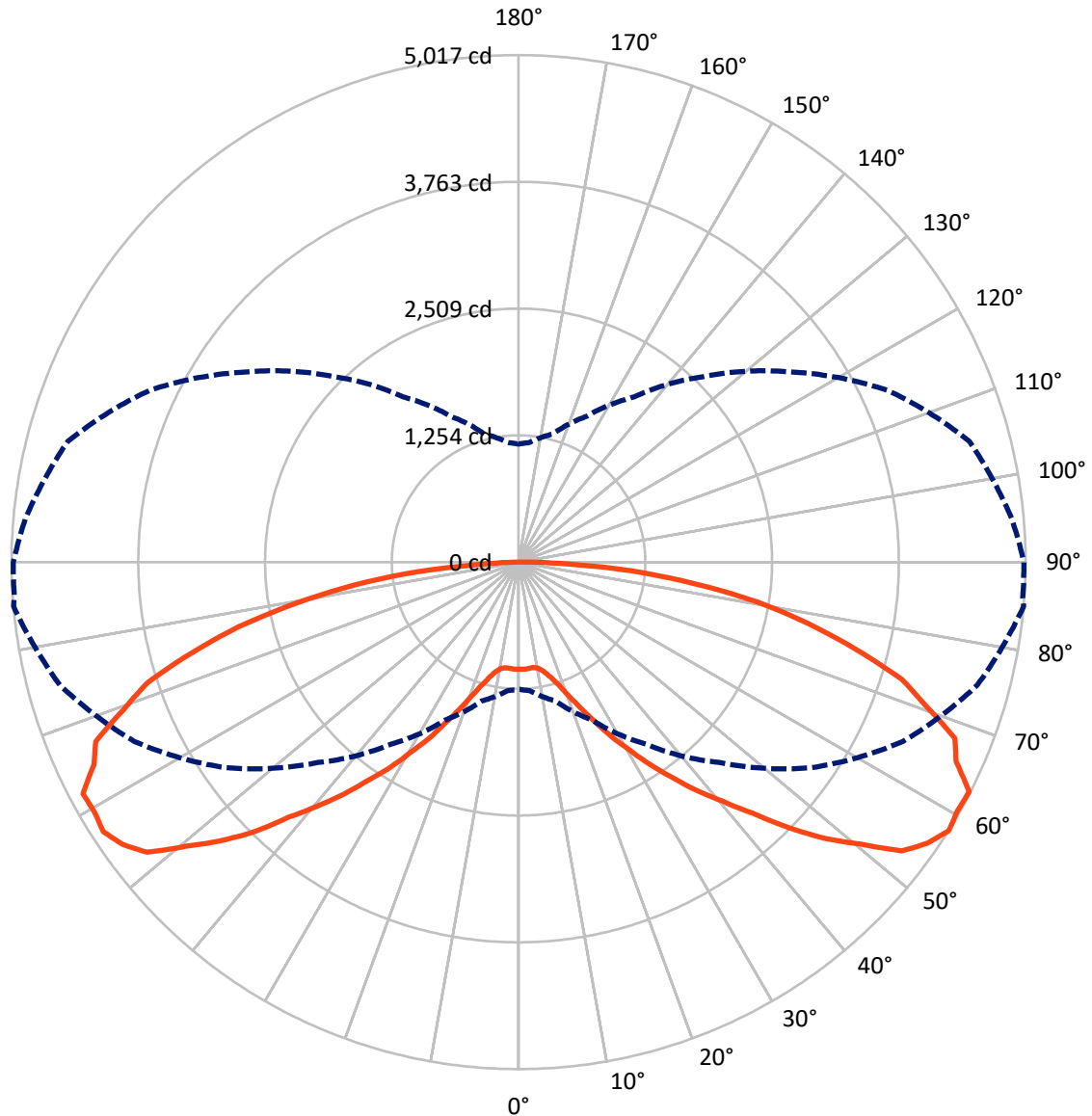
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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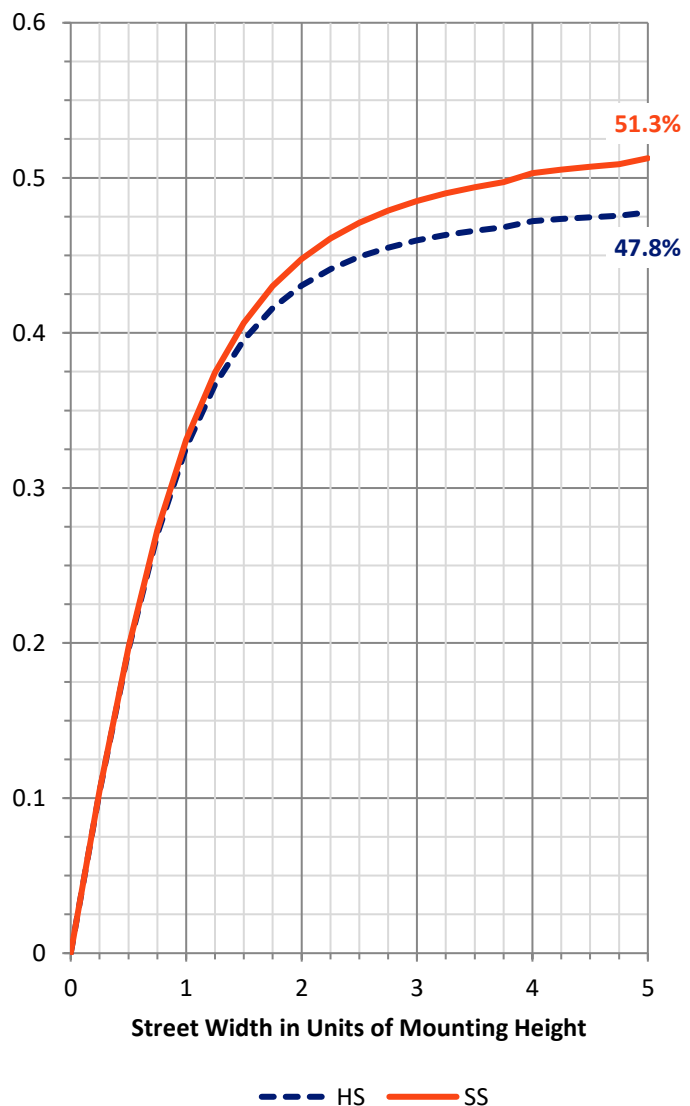
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5661.9	0.0	5661.9
	% Fixture	48.0	0.0	48.0
<b>Street Side</b>	Lumens	6141.0	0.0	6141.0
	% Fixture	52.0	0.0	52.0
<b>Total</b>	Lumens	11802.9	0.0	11802.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.4	0.9
10°-20°	317.1	2.7
20°-30°	647.2	5.5
30°-40°	1157.7	9.8
40°-50°	1855.1	15.7
50°-60°	2556.4	21.7
60°-70°	2648.1	22.4
70°-80°	1928.9	16.3
80°-90°	591.9	5.0
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°	11802.9	100.0
0°-180°	11802.9	100.0



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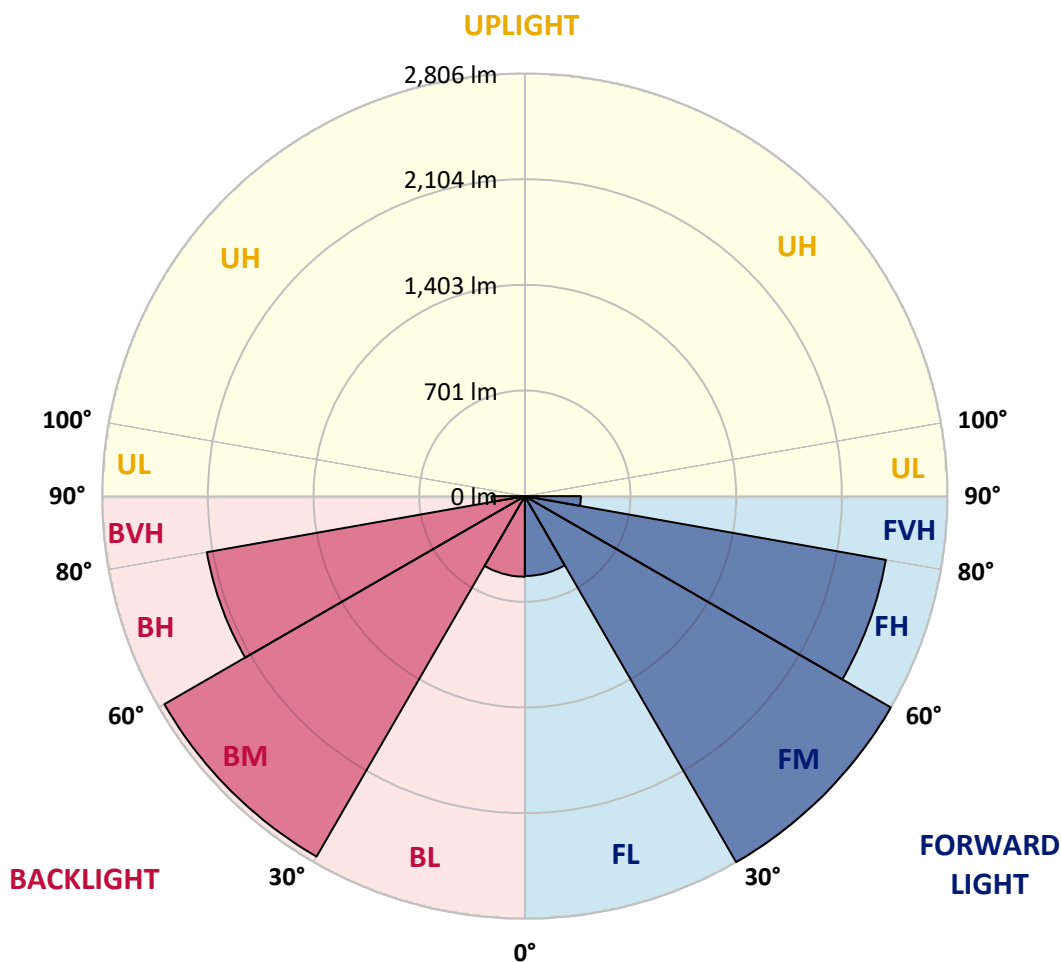
CATALOG NUMBER: MEM2-HTN-VA-130-727-U-RW

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	529.8	4.5			
FM (30°-60°)	2805.7	23.8			
FH (60°-80°)	2433.7	20.6			G2/5000
FVH (80°-90°)	371.8	3.2			G3/500
BL (0°-30°)	535.0	4.5	B2/1000		
BM (30°-60°)	2763.5	23.4	B3/5000		
BH (60°-80°)	2143.3	18.2	B3/2500		G3/2500
BVH (80°-90°)	220.1	1.9			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	86°
0°	1058.0	1058.0	1058.0	1058.0	1058.0	1058.0	1058.0	1058.0	1058.0	1058.0	1058.0
2.5°	1058.8	1058.8	1061.3	1063.0	1064.7	1064.7	1065.5	1064.7	1063.8	1063.0	1063.0
5°	1062.2	1062.2	1066.3	1068.8	1068.8	1067.1	1065.5	1062.2	1059.7	1056.3	1056.3
7.5°	1058.0	1057.2	1058.8	1058.0	1057.2	1056.3	1054.7	1053.0	1052.2	1053.0	1053.0
10°	1042.2	1042.2	1042.2	1043.0	1046.4	1051.4	1055.5	1060.5	1064.7	1068.0	1067.1
12.5°	1029.7	1030.6	1033.1	1039.7	1048.0	1058.8	1073.0	1087.9	1100.4	1109.5	1108.7
15°	1020.6	1023.1	1030.6	1043.9	1062.2	1085.4	1112.9	1144.4	1168.5	1180.2	1181.0
17.5°	1021.4	1024.8	1038.1	1058.0	1086.3	1127.8	1173.5	1224.2	1264.1	1275.8	1277.4
20°	1023.1	1025.6	1043.9	1077.9	1126.2	1183.5	1251.7	1321.5	1376.3	1407.9	1409.6
22.5°	1028.9	1030.6	1053.8	1100.4	1167.7	1258.3	1348.9	1447.0	1523.4	1561.7	1576.6
25°	1032.2	1034.7	1068.0	1133.6	1224.2	1344.7	1465.2	1594.1	1692.1	1745.3	1753.6
27.5°	1038.9	1044.7	1084.6	1168.5	1291.5	1446.1	1612.4	1756.1	1888.3	1953.1	1944.0
30°	1053.0	1059.7	1110.4	1211.8	1365.5	1564.1	1748.7	1942.3	2078.6	2154.2	2163.4
32.5°	1068.8	1076.3	1136.1	1260.0	1444.5	1668.0	1905.7	2117.7	2299.7	2388.6	2390.3
35°	1095.4	1103.7	1175.2	1312.3	1525.9	1776.9	2067.8	2313.8	2509.1	2618.8	2631.3
37.5°	1107.0	1115.3	1200.1	1375.5	1604.9	1913.2	2220.7	2504.1	2751.0	2871.5	2881.5
40°	1142.8	1154.4	1236.7	1416.2	1699.6	2028.7	2376.1	2721.9	2985.3	3113.3	3122.5
42.5°	1158.6	1173.5	1279.9	1475.2	1778.6	2140.9	2560.6	2957.1	3237.2	3397.6	3394.3
45°	1181.0	1193.5	1301.5	1540.9	1853.4	2294.7	2765.1	3208.9	3555.5	3751.6	3752.5
47.5°	1229.2	1245.0	1346.4	1589.9	1959.8	2446.8	2973.7	3464.9	3896.2	4088.2	4072.4
50°	1235.9	1255.8	1394.6	1647.3	2056.2	2564.8	3134.9	3702.6	4179.7	4385.8	4361.7
52.5°	1258.3	1273.3	1400.4	1696.3	2101.9	2647.9	3288.7	3910.4	4439.8	4749.0	4711.6
55°	1274.9	1295.7	1434.5	1712.9	2162.5	2770.9	3430.8	4063.3	4620.1	4910.2	4896.1
57.5°	1258.3	1277.4	1424.5	1725.4	2199.9	2805.0	3545.5	4197.1	4699.9	5017.4	5002.4
60°	1233.4	1250.8	1397.1	1705.4	2141.8	2796.7	3504.8	4208.7	4698.3	4992.5	4984.2
62.5°	1194.3	1214.3	1349.7	1648.1	2101.9	2711.9	3440.0	4172.2	4629.3	5004.9	4993.3
65°	1133.6	1146.9	1296.5	1562.5	2032.9	2616.3	3324.4	3998.5	4575.3	4756.4	4773.1
67.5°	1062.2	1073.0	1202.6	1466.9	1904.9	2493.3	3202.3	3887.1	4308.5	4656.7	4657.5
70°	983.2	994.0	1107.0	1363.9	1752.0	2323.8	2966.2	3592.9	4136.4	4282.7	4287.7
72.5°	869.3	884.3	1004.0	1225.1	1594.1	2100.2	2725.2	3312.0	3746.6	3961.9	3956.1
75°	763.8	775.4	870.2	1073.8	1408.7	1858.4	2445.1	2977.9	3340.2	3443.3	3467.4
77.5°	643.3	655.7	742.2	898.4	1190.1	1601.5	2071.1	2532.4	2840.7	2931.3	2972.9
80°	517.8	518.6	585.9	731.4	954.9	1287.4	1670.5	2077.8	2277.2	2396.1	2404.4
82.5°	378.2	393.9	438.8	546.9	716.4	962.4	1287.4	1581.6	1753.6	1755.3	1762.0
85°	250.2	257.6	289.2	354.1	472.1	653.3	851.1	1021.4	1122.0	1122.8	1122.8
87.5°	123.0	128.0	143.8	170.4	224.4	318.3	394.8	482.0	514.5	423.0	430.5
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: P879638

CATALOG NUMBER: MEM2-HTN-VA-130-727-U-RW

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1058.0	1058.0	1058.0	1058.0	1058.0	1058.0	1058.0	1058.0	1058.0	1058.0	1058.0
2.5°	1063.0	1062.2	1061.3	1058.8	1056.3	1053.8	1051.4	1049.7	1048.0	1047.2	1048.0
5°	1054.7	1053.8	1050.5	1047.2	1044.7	1042.2	1039.7	1038.1	1037.2	1037.2	1037.2
7.5°	1053.8	1053.8	1053.0	1051.4	1049.7	1045.5	1038.9	1033.9	1030.6	1029.7	1028.9
10°	1068.0	1067.1	1069.6	1064.7	1058.8	1053.0	1042.2	1033.1	1025.6	1021.4	1020.6
12.5°	1112.0	1112.0	1113.7	1102.9	1088.8	1073.8	1056.3	1040.5	1028.9	1021.4	1020.6
15°	1188.5	1187.7	1181.0	1161.1	1134.5	1104.5	1077.1	1048.0	1027.3	1017.3	1016.4
17.5°	1277.4	1284.9	1276.6	1240.0	1196.8	1146.1	1099.6	1061.3	1033.9	1020.6	1018.9
20°	1417.0	1412.1	1391.3	1340.6	1279.1	1206.8	1142.8	1085.4	1048.9	1028.1	1025.6
22.5°	1579.1	1576.6	1542.5	1472.7	1383.0	1285.7	1195.1	1117.0	1065.5	1038.1	1035.6
25°	1758.6	1748.7	1701.3	1619.0	1506.0	1376.3	1256.6	1154.4	1084.6	1048.0	1042.2
27.5°	1962.3	1963.1	1903.2	1781.9	1642.3	1467.7	1327.3	1190.1	1104.5	1062.2	1053.8
30°	2170.0	2157.6	2096.1	1955.6	1771.1	1584.9	1389.6	1236.7	1137.8	1082.1	1075.5
32.5°	2407.7	2395.3	2284.7	2125.1	1910.7	1687.2	1458.6	1287.4	1156.9	1097.9	1090.4
35°	2632.1	2614.7	2519.9	2331.3	2067.0	1791.9	1545.0	1331.4	1199.3	1133.6	1122.8
37.5°	2902.2	2874.8	2735.2	2521.6	2239.0	1918.2	1618.2	1390.4	1234.2	1148.6	1136.1
40°	3145.8	3129.1	2968.7	2727.7	2390.3	2031.2	1693.8	1443.6	1251.7	1165.2	1155.2
42.5°	3435.8	3395.9	3226.4	2943.8	2562.3	2158.4	1799.4	1481.0	1298.2	1211.8	1196.0
45°	3804.0	3746.6	3534.7	3206.4	2731.0	2278.9	1885.0	1549.2	1338.1	1221.7	1203.4
47.5°	4122.3	4046.7	3846.4	3454.9	2948.8	2410.2	1929.8	1604.0	1345.6	1247.5	1230.0
50°	4404.1	4331.7	4109.8	3675.2	3105.9	2529.9	2015.4	1614.0	1383.0	1261.6	1239.2
52.5°	4729.0	4663.4	4409.0	3895.4	3243.0	2613.0	2063.6	1643.1	1377.1	1247.5	1230.0
55°	4911.0	4812.1	4550.3	4005.1	3276.2	2589.7	2057.0	1631.5	1357.2	1223.4	1205.1
57.5°	5000.0	4899.4	4618.5	4023.4	3279.6	2597.2	1994.7	1591.6	1312.3	1186.0	1168.5
60°	4970.9	4870.3	4600.2	3948.6	3228.9	2533.2	1946.5	1530.1	1259.1	1120.3	1102.1
62.5°	4963.4	4881.9	4563.6	3897.1	3154.9	2429.3	1870.0	1434.5	1173.5	1053.0	1037.2
65°	4747.3	4655.0	4359.2	3717.6	3011.1	2288.0	1736.2	1332.3	1086.3	969.9	955.8
67.5°	4645.9	4543.7	4137.3	3572.1	2829.1	2135.1	1559.2	1209.3	981.5	865.2	847.7
70°	4258.6	4172.2	3890.4	3221.4	2553.2	1900.7	1432.0	1068.8	856.0	755.5	740.5
72.5°	3968.5	3861.3	3475.7	2949.6	2285.6	1672.2	1230.0	914.2	726.4	639.1	621.7
75°	3440.8	3349.4	3066.0	2514.9	1935.7	1423.7	1012.3	738.0	590.1	509.5	507.0
77.5°	2922.2	2841.6	2495.0	2091.9	1579.9	1119.5	782.9	571.0	438.0	380.6	369.8
80°	2340.4	2240.7	1991.3	1601.5	1206.8	803.7	550.2	380.6	296.7	250.2	245.2
82.5°	1712.1	1642.3	1436.2	1101.2	769.6	510.3	330.0	208.6	154.6	130.5	130.5
85°	1092.9	1004.0	803.7	571.0	337.4	189.5	89.8	58.2	40.7	39.1	42.4
87.5°	372.3	271.8	113.9	24.1	6.6	2.5	0.8	0.8	0.0	0.0	0.0
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: SP1-2407-176-12

Test Date: 10/23/2024

Luminaire Tested: MEM2-HTN-VA-130-727-U-RW

Data in this report applies to families of products including MEM2-HTN-VA-130-727-U-RW

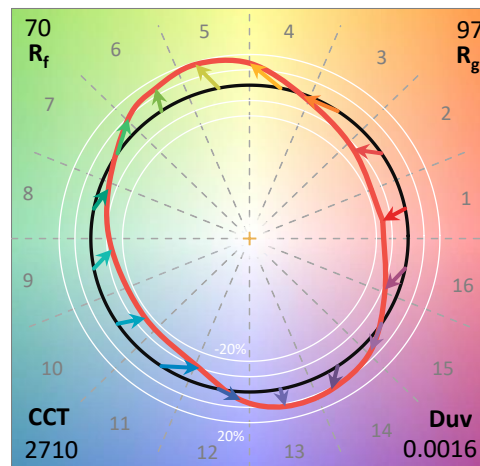
**Test Information**

Test Method: LM-79-2019  
 Report Number: SP1-2407-176-12  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry: 4π  
 Issue Date: 10/24/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: Streetworks  
 Catalog Number: **MEM2-HTN-VA-130-727-U-RW**  
 Description: EPIC MODERN VISUAL COMFORT 130W WAVESTREAM RECTANGULAR WIDE

**Spectral Parameters**

CCT (K): 2710  
 CIE u': 0.2616  
 CIE v': 0.5295  
 Duv: 0.0016  
 CIE x: 0.4619  
 CIE y: 0.4154  
 CIE z: 0.1227  
 Peak Wavelength (nm): 601  
 Dominant Wavelength (nm): 583  
 Purity: 63.3407  
 Rf: 70.4  
 Rg: 96.7

CRI (Ra):	70.4		
R1:	67.3	R9:	-24.6
R2:	79.1	R10:	51.3
R3:	89.5	R11:	61.0
R4:	67.6	R12:	41.2
R5:	64.7	R13:	68.7
R6:	69.6	R14:	93.5
R7:	78.9	R15:	60.6
R8:	46.2		



**Test Conditions**

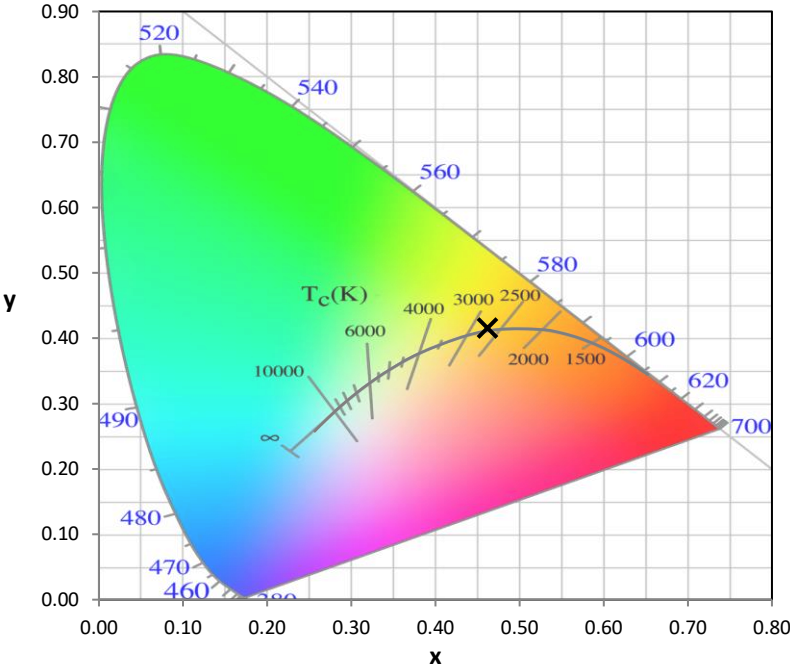
Stabilization Time: 47M  
 Operation Time: 1H 47M  
 Sphere Temperature (°C): 24.4

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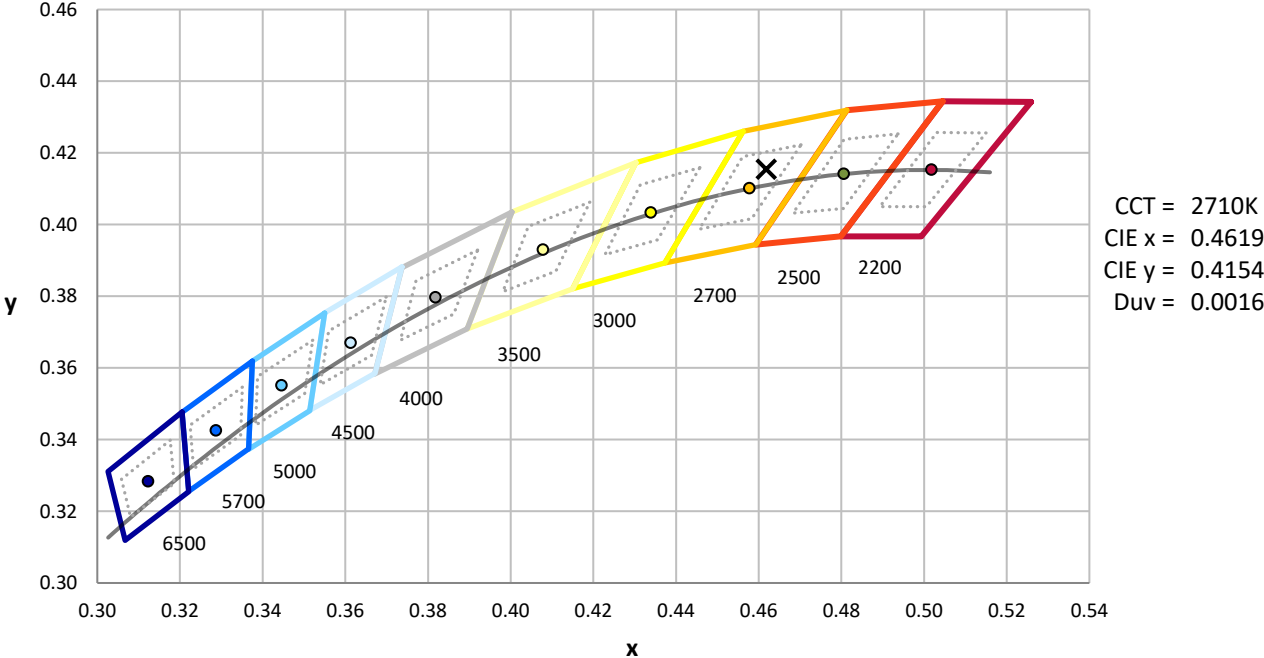
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085	10/22/2024	10/22/2025
Room Thermometer	IN0046	10/22/2024	10/22/2025

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CIE 1931 Chromaticity Diagram



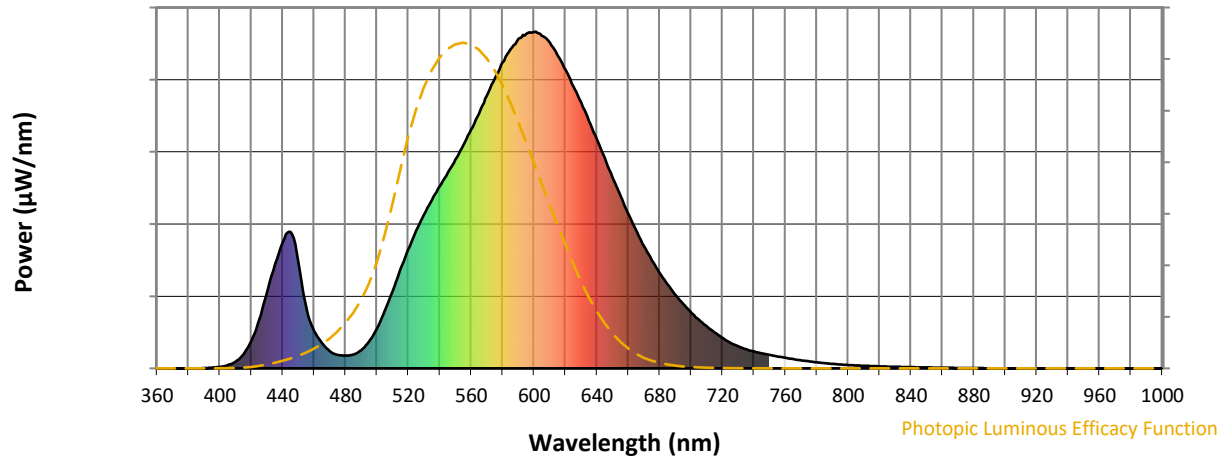
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

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**Photopic Flux vs. Wavelength**

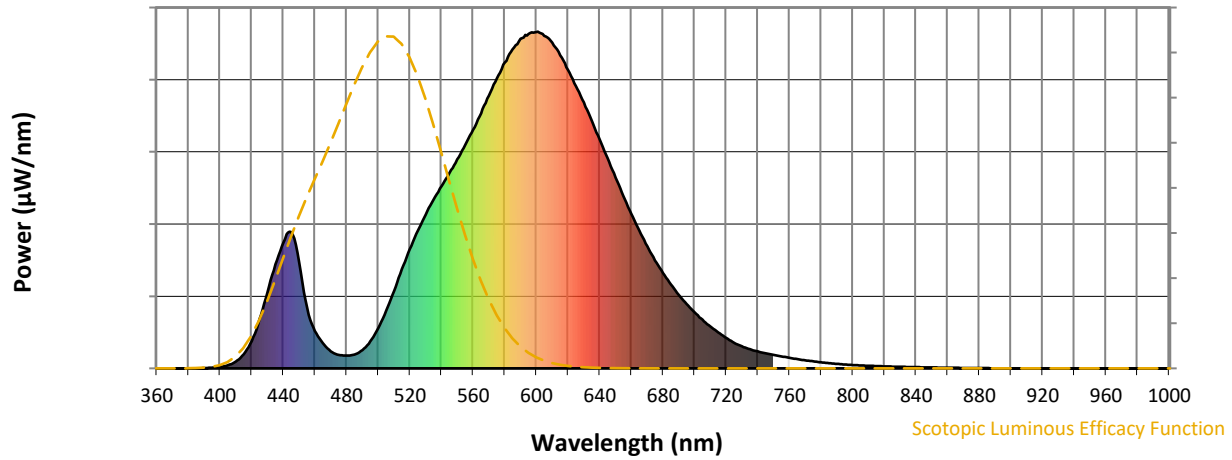


**Photopic Lumens: NR**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)
360	0	NR	490	54	NR	620	887	NR	750	40	NR	880	1	NR
365	0	NR	495	80	NR	625	838	NR	755	35	NR	885	1	NR
370	0	NR	500	119	NR	630	790	NR	760	31	NR	890	0	NR
375	0	NR	505	171	NR	635	735	NR	765	27	NR	895	0	NR
380	0	NR	510	230	NR	640	681	NR	770	24	NR	900	0	NR
385	0	NR	515	295	NR	645	624	NR	775	21	NR	905	0	NR
390	1	NR	520	354	NR	650	567	NR	780	18	NR	910	0	NR
395	2	NR	525	408	NR	655	512	NR	785	15	NR	915	0	NR
400	5	NR	530	457	NR	660	459	NR	790	13	NR	920	0	NR
405	9	NR	535	500	NR	665	410	NR	795	12	NR	925	0	NR
410	20	NR	540	541	NR	670	363	NR	800	10	NR	930	0	NR
415	42	NR	545	581	NR	675	320	NR	805	9	NR	935	0	NR
420	81	NR	550	620	NR	680	283	NR	810	8	NR	940	0	NR
425	145	NR	555	664	NR	685	249	NR	815	7	NR	945	0	NR
430	225	NR	560	709	NR	690	219	NR	820	6	NR	950	0	NR
435	309	NR	565	758	NR	695	191	NR	825	5	NR	955	0	NR
440	373	NR	570	810	NR	700	166	NR	830	5	NR	960	0	NR
445	405	NR	575	861	NR	705	144	NR	835	4	NR	965	0	NR
450	316	NR	580	908	NR	710	124	NR	840	4	NR	970	0	NR
455	180	NR	585	948	NR	715	106	NR	845	3	NR	975	0	NR
460	111	NR	590	978	NR	720	90	NR	850	3	NR	980	0	NR
465	75	NR	595	993	NR	725	76	NR	855	2	NR	985	0	NR
470	50	NR	600	999	NR	730	65	NR	860	2	NR	990	0	NR
475	40	NR	605	988	NR	735	57	NR	865	2	NR	995	0	NR
480	38	NR	610	967	NR	740	50	NR	870	1	NR	1000	0	NR
485	41	NR	615	930	NR	745	45	NR	875	1	NR			

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**Scotopic Flux vs. Wavelength**



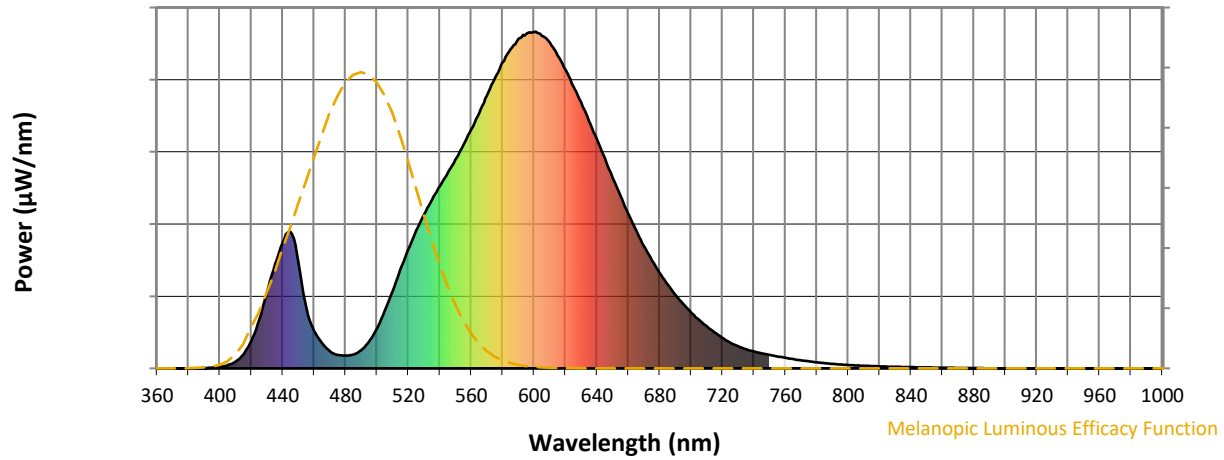
**Scotopic Lumens: NR**

**S/P: 1.02**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)
360	0	NR	490	54	NR	620	887	NR	750	40	NR	880	1	NR
365	0	NR	495	80	NR	625	838	NR	755	35	NR	885	1	NR
370	0	NR	500	119	NR	630	790	NR	760	31	NR	890	0	NR
375	0	NR	505	171	NR	635	735	NR	765	27	NR	895	0	NR
380	0	NR	510	230	NR	640	681	NR	770	24	NR	900	0	NR
385	0	NR	515	295	NR	645	624	NR	775	21	NR	905	0	NR
390	1	NR	520	354	NR	650	567	NR	780	18	NR	910	0	NR
395	2	NR	525	408	NR	655	512	NR	785	15	NR	915	0	NR
400	5	NR	530	457	NR	660	459	NR	790	13	NR	920	0	NR
405	9	NR	535	500	NR	665	410	NR	795	12	NR	925	0	NR
410	20	NR	540	541	NR	670	363	NR	800	10	NR	930	0	NR
415	42	NR	545	581	NR	675	320	NR	805	9	NR	935	0	NR
420	81	NR	550	620	NR	680	283	NR	810	8	NR	940	0	NR
425	145	NR	555	664	NR	685	249	NR	815	7	NR	945	0	NR
430	225	NR	560	709	NR	690	219	NR	820	6	NR	950	0	NR
435	309	NR	565	758	NR	695	191	NR	825	5	NR	955	0	NR
440	373	NR	570	810	NR	700	166	NR	830	5	NR	960	0	NR
445	405	NR	575	861	NR	705	144	NR	835	4	NR	965	0	NR
450	316	NR	580	908	NR	710	124	NR	840	4	NR	970	0	NR
455	180	NR	585	948	NR	715	106	NR	845	3	NR	975	0	NR
460	111	NR	590	978	NR	720	90	NR	850	3	NR	980	0	NR
465	75	NR	595	993	NR	725	76	NR	855	2	NR	985	0	NR
470	50	NR	600	999	NR	730	65	NR	860	2	NR	990	0	NR
475	40	NR	605	988	NR	735	57	NR	865	2	NR	995	0	NR
480	38	NR	610	967	NR	740	50	NR	870	1	NR	1000	0	NR
485	41	NR	615	930	NR	745	45	NR	875	1	NR			

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**Melanopic Flux vs. Wavelength**



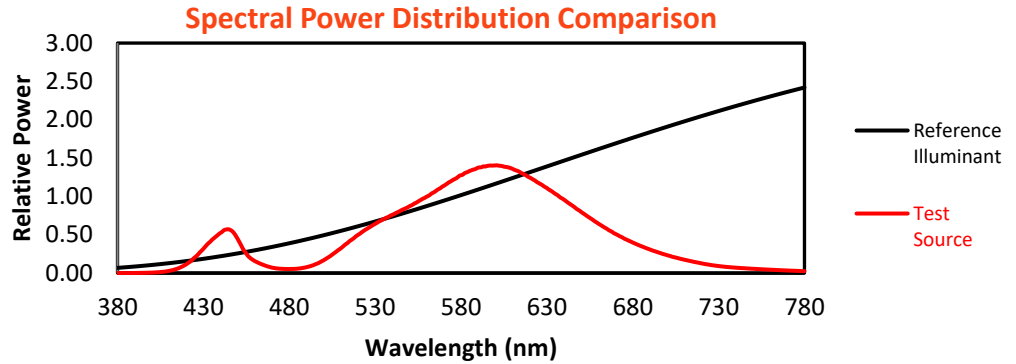
**Melanopic Lumens: NR**

**M/P: 1.71**

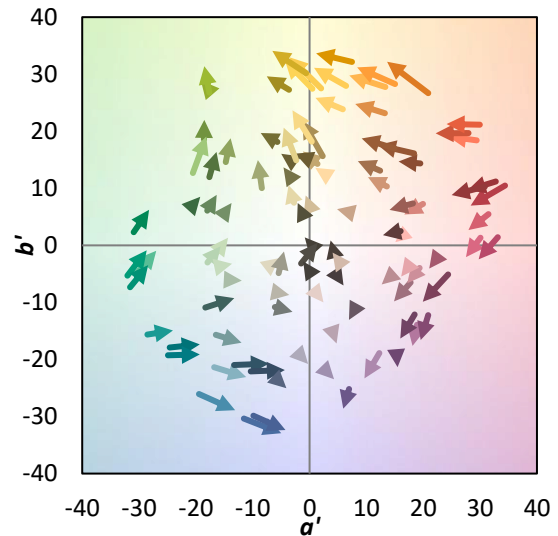
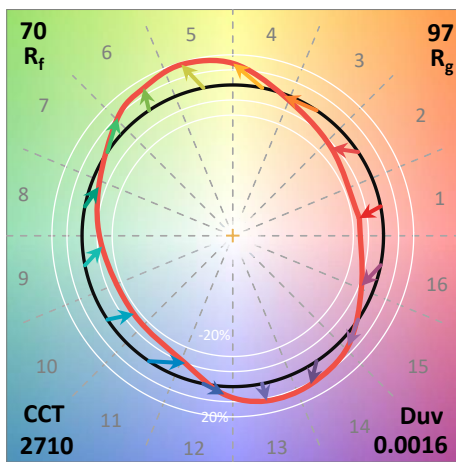
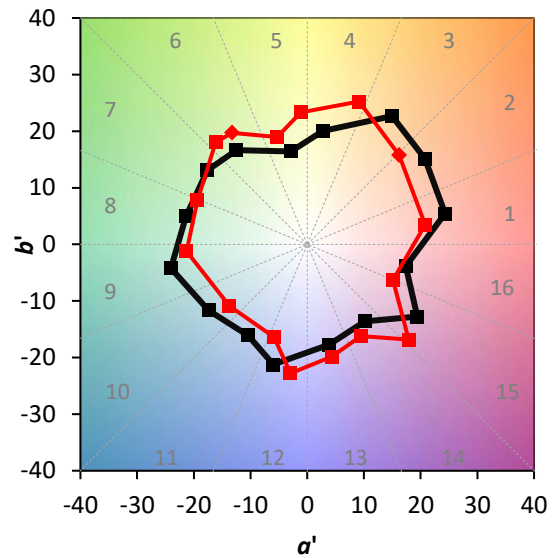
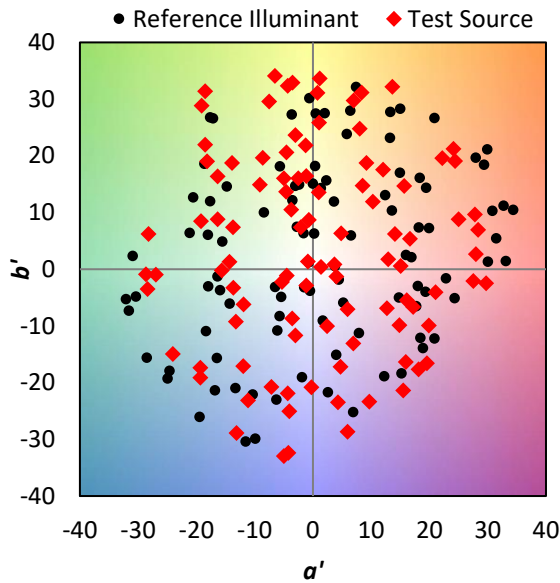
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	54	NR	620	887	NR	750	40	NR	880	1	NR
365	0	NR	495	80	NR	625	838	NR	755	35	NR	885	1	NR
370	0	NR	500	119	NR	630	790	NR	760	31	NR	890	0	NR
375	0	NR	505	171	NR	635	735	NR	765	27	NR	895	0	NR
380	0	NR	510	230	NR	640	681	NR	770	24	NR	900	0	NR
385	0	NR	515	295	NR	645	624	NR	775	21	NR	905	0	NR
390	1	NR	520	354	NR	650	567	NR	780	18	NR	910	0	NR
395	2	NR	525	408	NR	655	512	NR	785	15	NR	915	0	NR
400	5	NR	530	457	NR	660	459	NR	790	13	NR	920	0	NR
405	9	NR	535	500	NR	665	410	NR	795	12	NR	925	0	NR
410	20	NR	540	541	NR	670	363	NR	800	10	NR	930	0	NR
415	42	NR	545	581	NR	675	320	NR	805	9	NR	935	0	NR
420	81	NR	550	620	NR	680	283	NR	810	8	NR	940	0	NR
425	145	NR	555	664	NR	685	249	NR	815	7	NR	945	0	NR
430	225	NR	560	709	NR	690	219	NR	820	6	NR	950	0	NR
435	309	NR	565	758	NR	695	191	NR	825	5	NR	955	0	NR
440	373	NR	570	810	NR	700	166	NR	830	5	NR	960	0	NR
445	405	NR	575	861	NR	705	144	NR	835	4	NR	965	0	NR
450	316	NR	580	908	NR	710	124	NR	840	4	NR	970	0	NR
455	180	NR	585	948	NR	715	106	NR	845	3	NR	975	0	NR
460	111	NR	590	978	NR	720	90	NR	850	3	NR	980	0	NR
465	75	NR	595	993	NR	725	76	NR	855	2	NR	985	0	NR
470	50	NR	600	999	NR	730	65	NR	860	2	NR	990	0	NR
475	40	NR	605	988	NR	735	57	NR	865	2	NR	995	0	NR
480	38	NR	610	967	NR	740	50	NR	870	1	NR	1000	0	NR
485	41	NR	615	930	NR	745	45	NR	875	1	NR			

**Summary**

$R_f = 70.4$   
 $R_g = 96.7$   
 CIE  $R_a = 70.4$   
 $R_9 = -24.6$



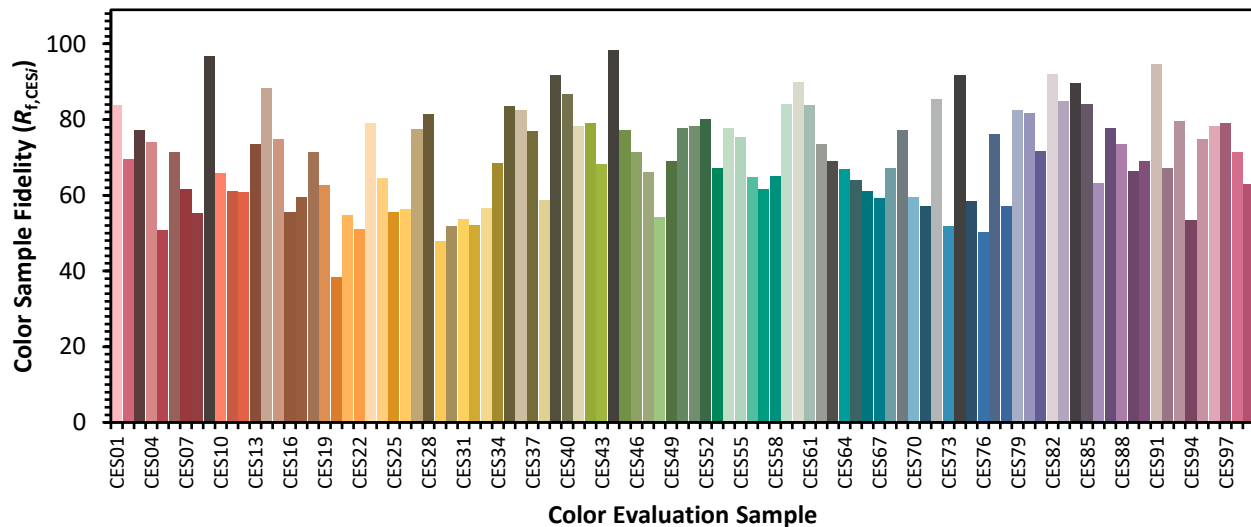
**Color Vector Graphics**



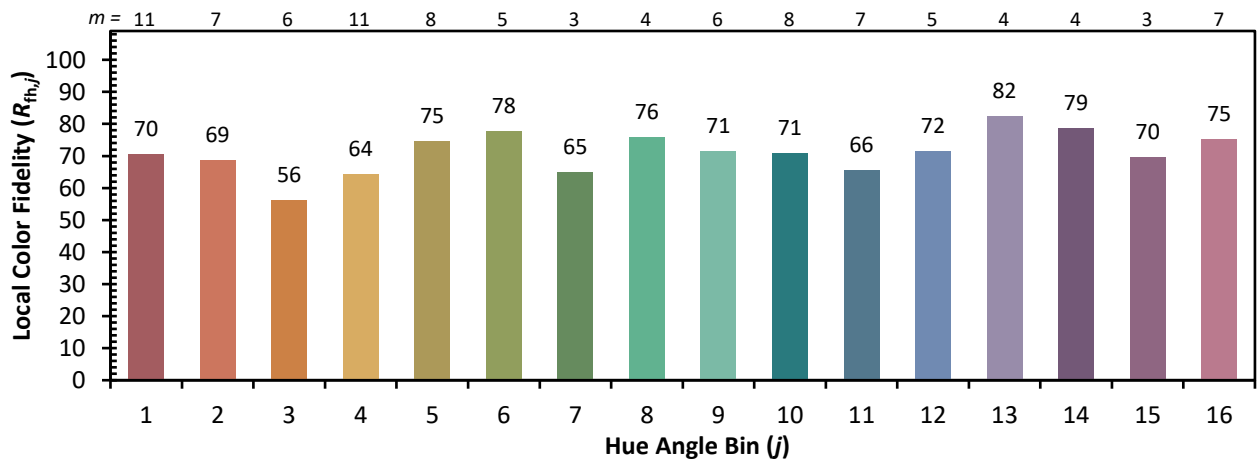
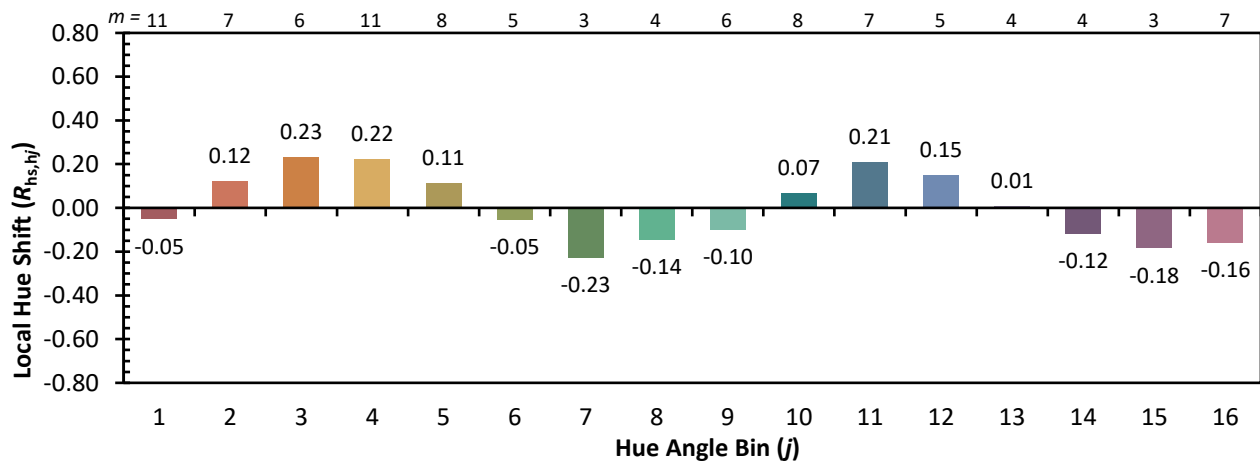
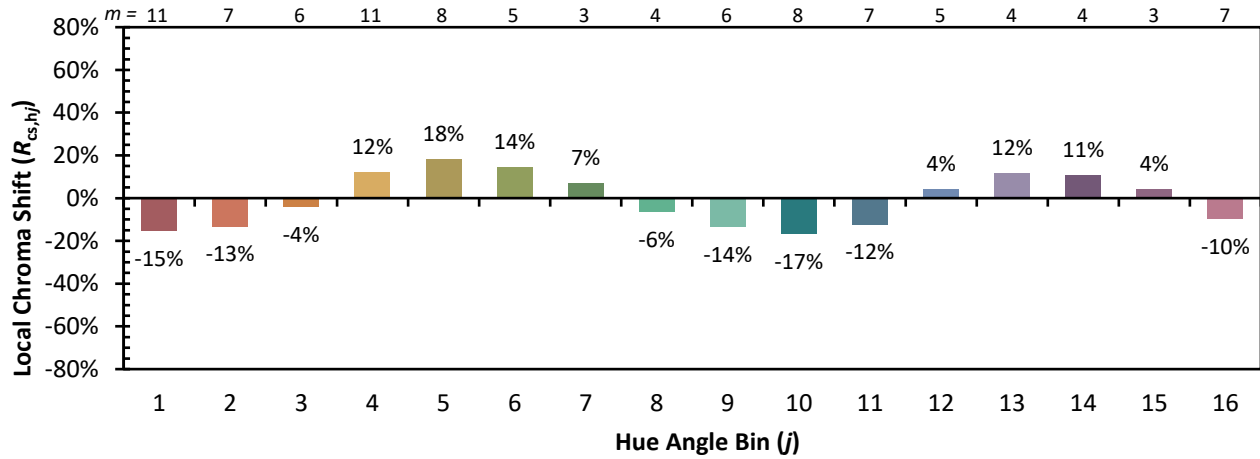


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

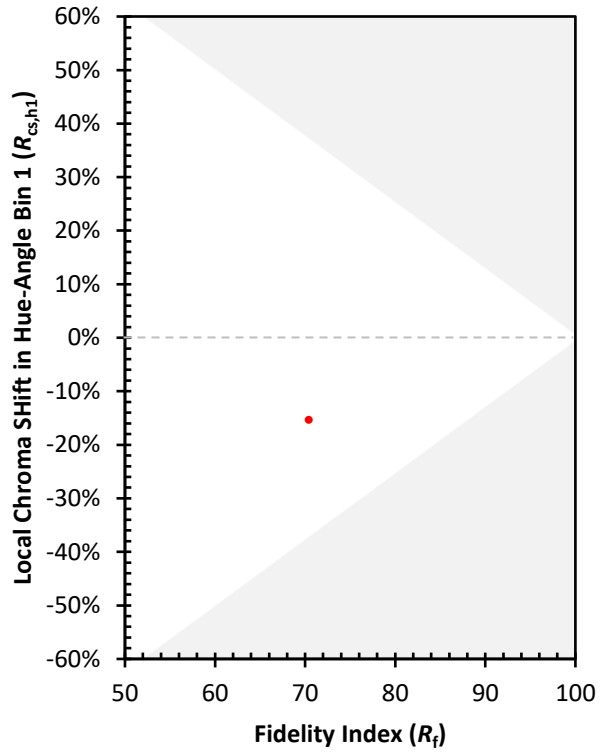
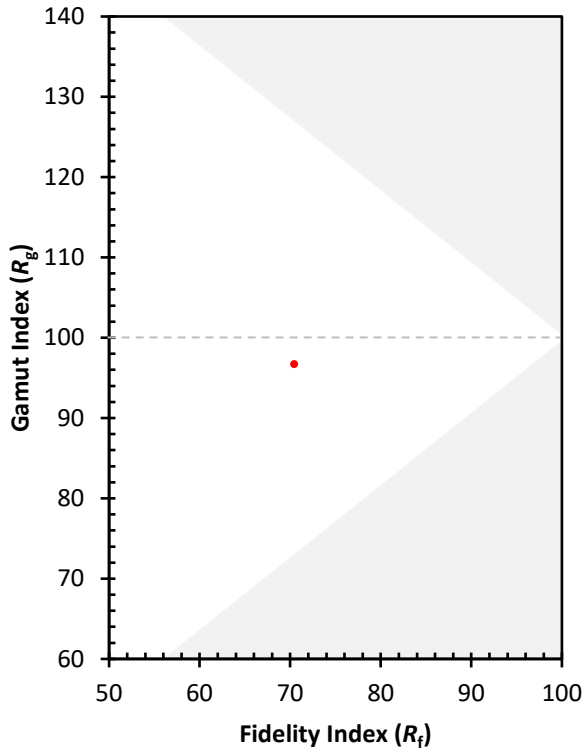
CES01 = 86	CES26 = 56	CES51 = 78	CES76 = 50
CES02 = 63	CES27 = 77	CES52 = 80	CES77 = 76
CES03 = 31	CES28 = 81	CES53 = 67	CES78 = 57
CES04 = 71	CES29 = 48	CES54 = 78	CES79 = 82
CES05 = 50	CES30 = 52	CES55 = 75	CES80 = 82
CES06 = 52	CES31 = 54	CES56 = 65	CES81 = 72
CES07 = 42	CES32 = 52	CES57 = 62	CES82 = 92
CES08 = 41	CES33 = 57	CES58 = 65	CES83 = 85
CES09 = 29	CES34 = 69	CES59 = 84	CES84 = 90
CES10 = 77	CES35 = 84	CES60 = 90	CES85 = 84
CES11 = 60	CES36 = 82	CES61 = 84	CES86 = 63
CES12 = 66	CES37 = 77	CES62 = 73	CES87 = 78
CES13 = 43	CES38 = 59	CES63 = 69	CES88 = 74
CES14 = 74	CES39 = 92	CES64 = 67	CES89 = 66
CES15 = 71	CES40 = 87	CES65 = 64	CES90 = 69
CES16 = 48	CES41 = 78	CES66 = 61	CES91 = 95
CES17 = 51	CES42 = 79	CES67 = 59	CES92 = 67
CES18 = 57	CES43 = 68	CES68 = 67	CES93 = 80
CES19 = 73	CES44 = 98	CES69 = 77	CES94 = 54
CES20 = 67	CES45 = 77	CES70 = 60	CES95 = 75
CES21 = 88	CES46 = 71	CES71 = 57	CES96 = 78
CES22 = 80	CES47 = 66	CES72 = 85	CES97 = 79
CES23 = 92	CES48 = 54	CES73 = 52	CES98 = 71
CES24 = 92	CES49 = 69	CES74 = 92	CES99 = 63
CES25 = 73	CES50 = 78	CES75 = 58	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)