

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: INVUE

Report Number: P880273

Luminaire Tested: **EMM2-HSN-VA6-740-U-WT4**

Issue Date: 10/01/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P880273  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/01/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: EMM2-HSN-VA6-740-U-WT4  
Description: EPIC MODERN SHORT HOUSING 6W 70CRI 4000K VISUAL COMFORT FIXTURE w/  
DRIVE LANE TYPE IV DISTRIBUTION OPTIC  
Light Source: (1) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

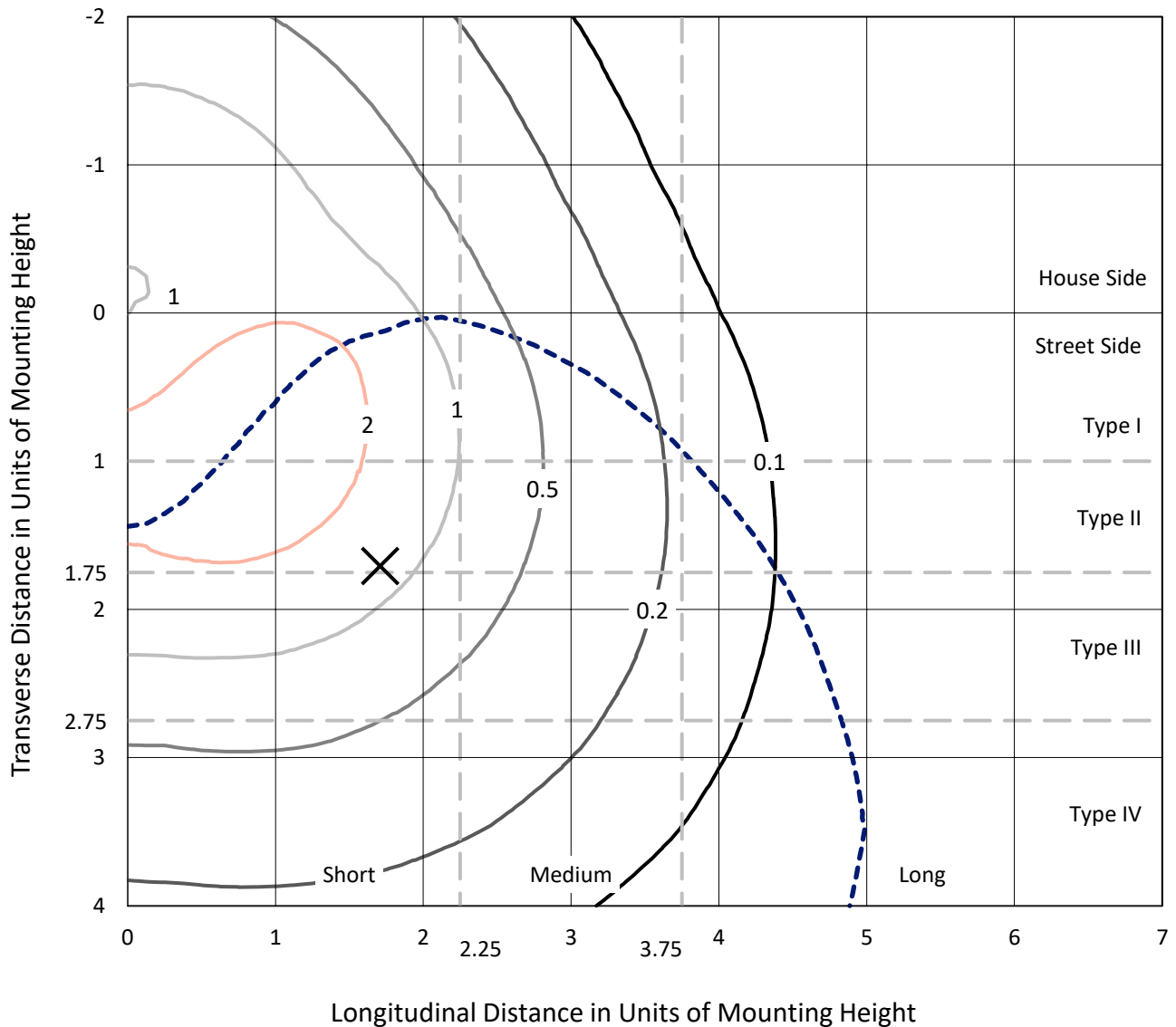
Lumens per Lamp: N/A  
Luminaire Lumens: 9695.5 lumens  
Efficiency: N/A  
Efficacy: 91.5 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 106  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 5%  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Iso-Footcandle Lines of Horizontal Illumination

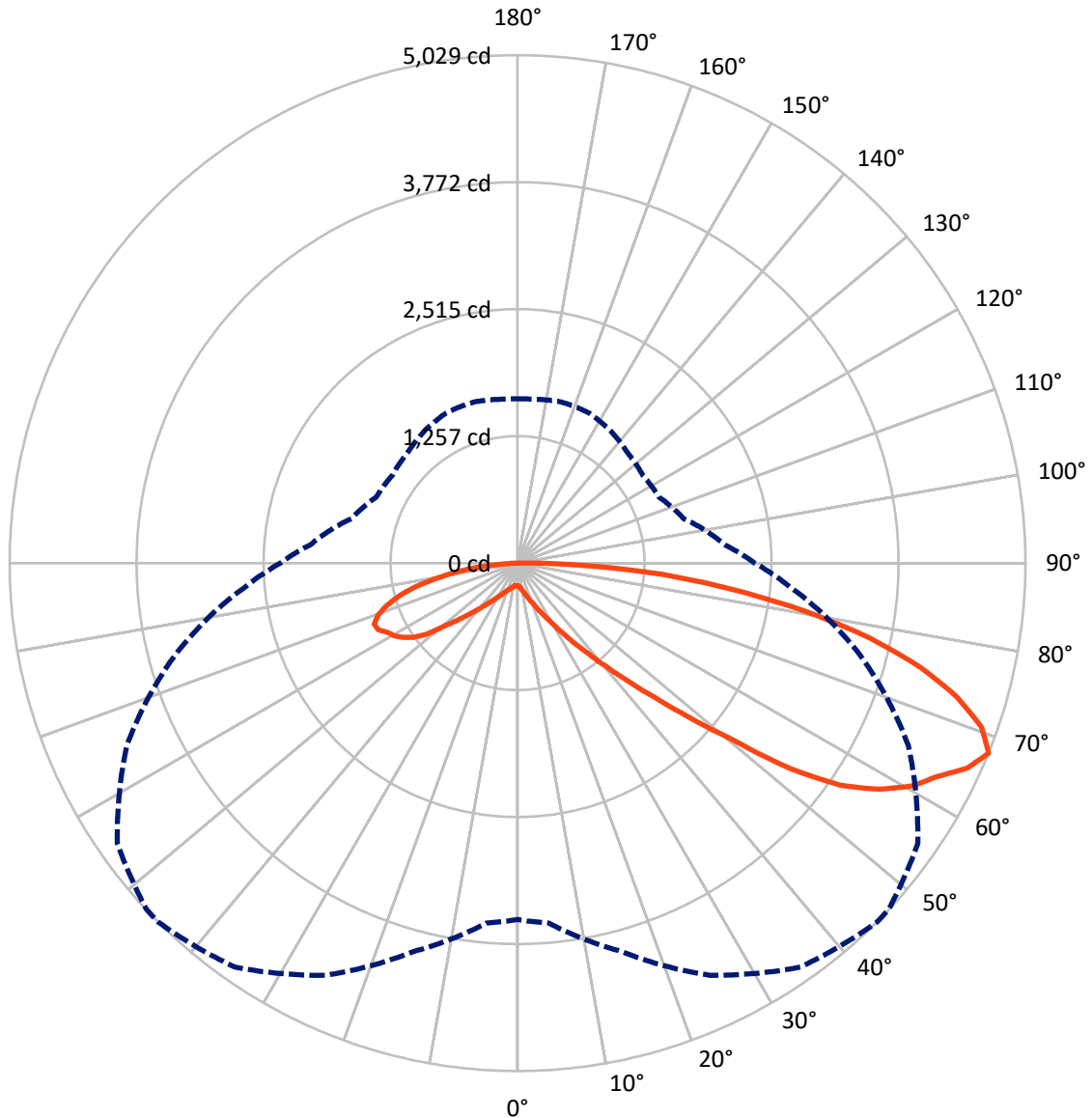
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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

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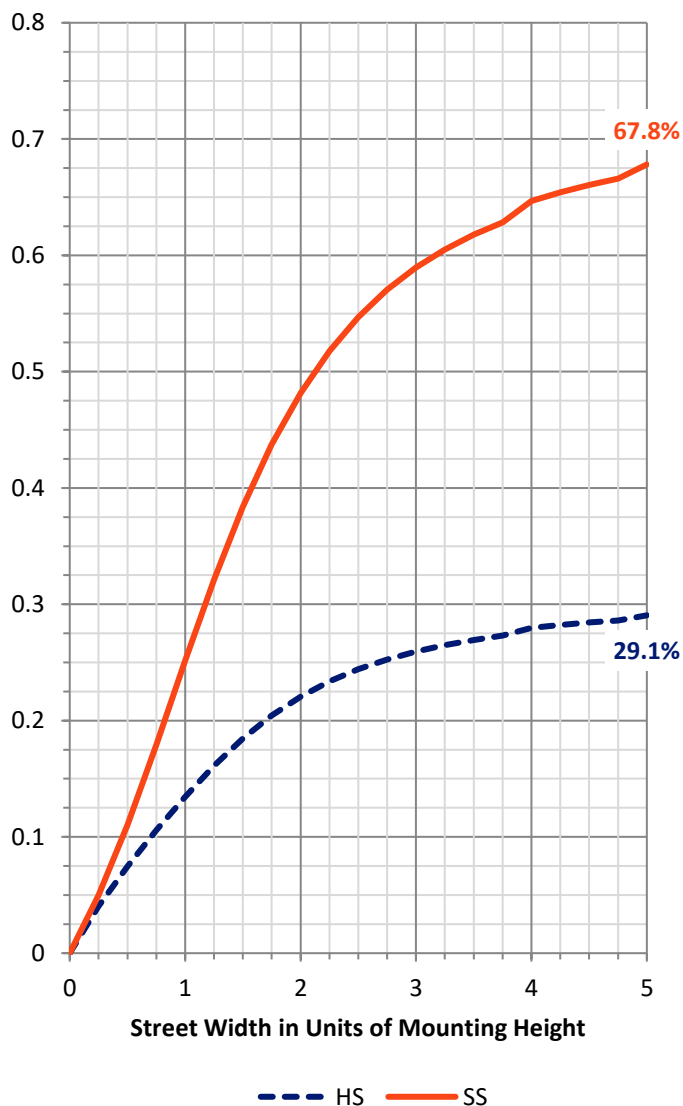
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2873.4	0.0	2873.4
	% Fixture	29.6	0.0	29.6
<b>Street Side</b>	Lumens	6822.1	0.0	6822.1
	% Fixture	70.4	0.0	70.4
<b>Total</b>	Lumens	9695.5	0.0	9695.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	23.0	0.2
10°-20°	86.3	0.9
20°-30°	203.2	2.1
30°-40°	445.6	4.6
40°-50°	970.2	10.0
50°-60°	1993.4	20.6
60°-70°	2808.4	29.0
70°-80°	2384.2	24.6
80°-90°	781.4	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°	9695.5	100.0
0°-180°	9695.5	100.0



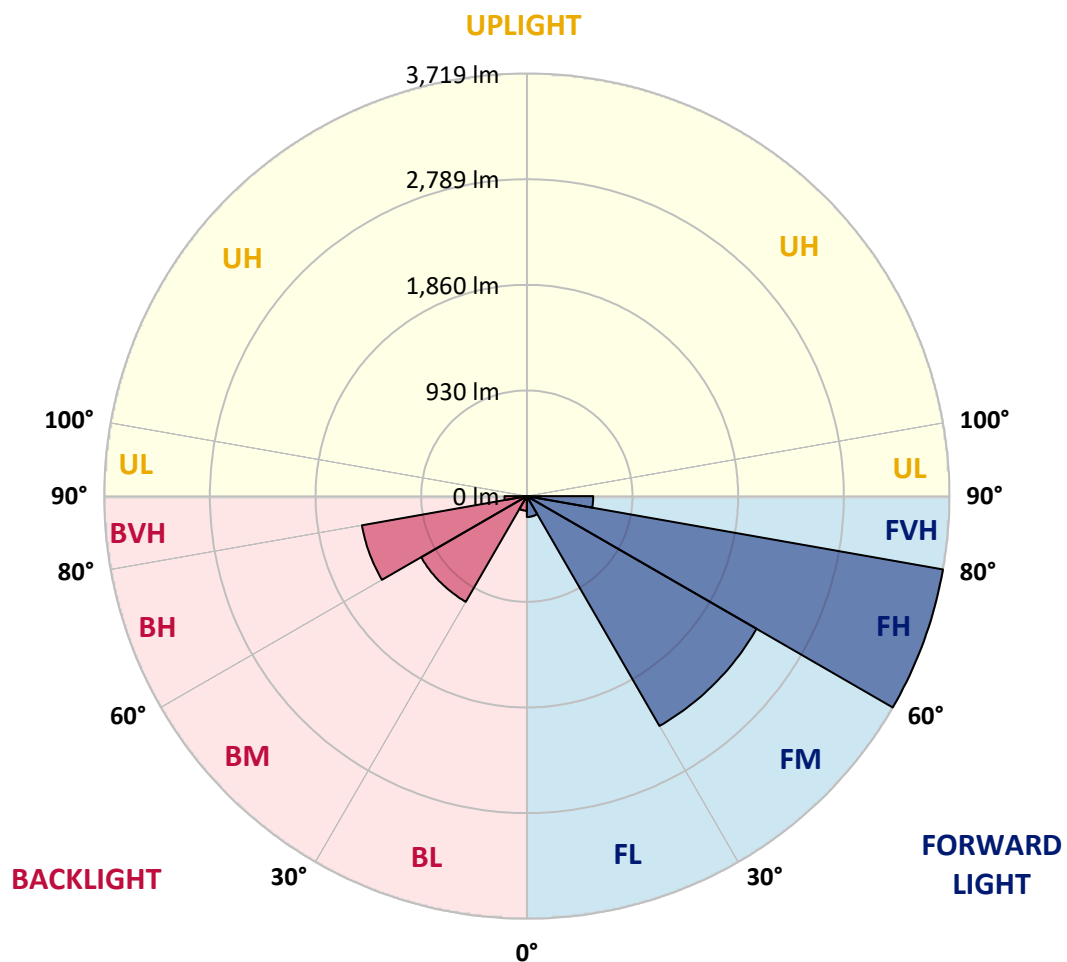
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	183.5	1.9			
FM (30°-60°)	2335.2	24.1			
FH (60°-80°)	3719.2	38.4			G2/5000
FVH (80°-90°)	584.3	6.0			G4/750
BL (0°-30°)	129.0	1.3	B1/500		
BM (30°-60°)	1074.0	11.1	B2/2500		
BH (60°-80°)	1473.4	15.2	B3/2500		G3/2500
BVH (80°-90°)	197.1	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9
2.5°	230.8	229.8	230.8	230.8	230.8	229.8	229.8	229.8	228.8	227.8	226.8
5°	244.7	244.7	244.7	243.7	243.7	241.7	241.7	240.7	238.7	236.8	234.8
7.5°	263.5	262.5	262.5	261.5	260.5	258.5	257.6	256.6	252.6	249.6	245.7
10°	286.3	286.3	285.3	283.3	283.3	278.4	279.4	277.4	272.4	266.5	259.5
12.5°	314.0	314.0	312.0	312.0	310.1	306.1	305.1	302.1	297.2	287.3	279.4
15°	344.7	344.7	346.7	344.7	342.7	337.8	337.8	333.8	322.9	315.0	303.1
17.5°	383.4	378.4	381.4	380.4	380.4	377.4	374.4	369.5	360.6	346.7	331.9
20°	423.0	424.0	421.0	424.0	425.0	421.0	421.0	415.1	402.2	385.3	361.6
22.5°	472.5	472.5	466.6	474.5	479.5	476.5	475.5	463.6	447.8	425.0	401.2
25°	524.0	522.0	532.0	533.9	544.8	543.8	542.9	532.0	508.2	480.4	443.8
27.5°	582.5	585.4	604.3	609.2	620.1	619.1	618.1	606.3	580.5	542.9	495.3
30°	654.8	658.8	676.6	693.4	712.2	714.2	712.2	702.3	664.7	615.2	561.7
32.5°	739.0	749.9	767.7	796.4	820.2	831.1	833.1	815.3	772.7	707.3	637.0
35°	853.9	845.0	869.8	917.3	956.9	978.7	977.7	954.0	907.4	824.2	724.1
37.5°	966.8	963.9	1002.5	1064.9	1118.4	1136.2	1141.2	1125.3	1065.9	955.9	838.1
40°	1084.7	1109.5	1154.1	1226.4	1305.6	1343.3	1346.2	1323.4	1242.2	1118.4	962.9
42.5°	1238.3	1263.0	1319.5	1408.6	1523.6	1586.0	1589.9	1564.2	1466.1	1305.6	1113.4
45°	1432.4	1446.3	1505.7	1641.4	1789.0	1889.1	1917.8	1886.1	1765.3	1542.4	1300.7
47.5°	1641.4	1641.4	1738.5	1917.8	2140.7	2272.4	2294.2	2265.5	2085.2	1816.8	1509.7
50°	1874.2	1875.2	2029.7	2286.3	2567.6	2732.1	2748.9	2679.6	2461.7	2096.1	1722.7
52.5°	2115.9	2141.7	2367.5	2755.9	3133.3	3384.9	3401.7	3321.5	3031.3	2496.3	1949.5
55°	2448.8	2489.4	2817.3	3293.8	3686.0	3884.2	3885.2	3789.1	3440.4	2884.6	2220.9
57.5°	2910.4	2926.2	3232.3	3718.7	4089.2	4224.9	4215.0	4074.4	3672.2	3101.6	2443.8
60°	3291.8	3328.4	3578.1	4029.8	4391.4	4484.5	4473.6	4287.3	3830.7	3228.4	2550.8
62.5°	3542.4	3560.2	3818.8	4252.7	4577.6	4655.8	4644.0	4470.6	4024.8	3449.3	2729.1
65°	3602.8	3632.5	3960.4	4401.3	4716.3	4892.6	4884.7	4791.6	4333.9	3612.7	2813.3
67.5°	3529.5	3579.1	3981.2	4503.3	4882.7	5029.3	5025.3	4838.1	4267.5	3507.7	2707.3
70°	3379.9	3422.5	3921.8	4492.4	4834.2	4873.8	4843.1	4629.1	4072.4	3333.4	2548.8
72.5°	3144.2	3216.5	3703.9	4243.8	4529.0	4554.8	4543.9	4282.4	3779.2	3033.2	2309.1
75°	2835.1	2923.3	3365.1	3801.9	4073.4	4117.9	4097.1	3868.3	3359.1	2657.8	2011.9
77.5°	2443.8	2493.4	2830.2	3245.2	3557.3	3565.2	3553.3	3297.7	2829.2	2225.9	1692.9
80°	1925.7	1955.5	2247.7	2593.4	2852.0	2883.7	2872.8	2700.4	2246.7	1761.3	1320.5
82.5°	1426.5	1406.7	1602.8	1886.1	2142.7	2144.7	2162.5	1971.3	1682.0	1277.9	945.0
85°	821.2	829.1	999.5	1192.7	1348.2	1438.4	1437.4	1345.2	1081.7	813.3	576.5
87.5°	228.8	246.7	354.6	516.1	586.4	637.9	619.1	558.7	451.7	255.6	146.6
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: P880273

CATALOG NUMBER: EMM2-HSN-VA6-740-U-WT4

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9	223.9
2.5°	226.8	225.9	224.9	223.9	221.9	221.9	220.9	221.9	221.9	221.9	221.9
5°	232.8	231.8	228.8	226.8	223.9	221.9	220.9	220.9	220.9	220.9	220.9
7.5°	242.7	241.7	236.8	232.8	228.8	226.8	224.9	223.9	222.9	221.9	222.9
10°	257.6	253.6	248.6	242.7	236.8	233.8	230.8	229.8	228.8	227.8	227.8
12.5°	274.4	271.4	262.5	254.6	248.6	243.7	239.7	237.7	236.8	235.8	235.8
15°	297.2	291.2	279.4	269.4	260.5	254.6	250.6	248.6	247.7	246.7	246.7
17.5°	322.9	315.0	299.2	286.3	276.4	268.5	263.5	260.5	258.5	259.5	260.5
20°	352.7	339.8	321.9	306.1	293.2	284.3	279.4	275.4	273.4	274.4	275.4
22.5°	387.3	373.5	347.7	328.9	313.0	302.1	297.2	294.2	292.2	291.2	289.3
25°	427.0	409.1	379.4	353.6	334.8	323.9	318.0	316.0	314.0	312.0	312.0
27.5°	474.5	453.7	413.1	385.3	362.6	351.7	344.7	341.8	341.8	338.8	338.8
30°	530.0	502.2	452.7	416.1	393.3	379.4	371.5	370.5	368.5	371.5	371.5
32.5°	596.3	558.7	498.3	455.7	429.9	417.0	409.1	407.1	404.2	406.1	412.1
35°	679.6	631.0	558.7	508.2	476.5	463.6	453.7	452.7	447.8	452.7	444.8
37.5°	772.7	719.2	623.1	563.7	529.0	514.1	507.2	504.2	503.2	503.2	497.3
40°	886.6	822.2	705.3	632.0	592.4	574.6	567.6	566.6	564.6	571.6	564.6
42.5°	1027.3	929.2	790.5	707.3	666.7	647.9	639.9	637.0	641.9	644.9	643.9
45°	1183.8	1077.8	899.5	803.4	756.8	738.0	727.1	724.1	726.1	726.1	736.0
47.5°	1364.1	1239.2	1024.3	908.4	865.8	843.0	836.1	826.2	821.2	819.2	836.1
50°	1552.3	1396.8	1152.1	1022.3	983.7	965.8	967.8	948.0	941.1	933.1	931.2
52.5°	1741.5	1565.2	1297.7	1180.8	1136.2	1145.1	1141.2	1120.4	1079.8	1069.9	1046.1
55°	1968.3	1755.4	1437.4	1297.7	1259.1	1266.0	1281.8	1281.8	1272.9	1251.1	1232.3
57.5°	2160.5	1912.9	1542.4	1368.0	1334.3	1352.2	1383.9	1407.6	1428.5	1444.3	1443.3
60°	2267.5	2009.9	1610.7	1421.5	1381.9	1416.6	1464.1	1504.7	1549.3	1595.9	1593.9
62.5°	2415.1	2145.7	1732.6	1516.6	1448.3	1459.2	1513.6	1584.0	1624.6	1663.2	1674.1
65°	2453.7	2170.4	1778.1	1584.0	1528.5	1530.5	1567.1	1624.6	1659.3	1669.2	1675.1
67.5°	2349.7	2061.4	1702.9	1544.4	1514.6	1542.4	1601.8	1647.4	1652.3	1628.6	1626.6
70°	2193.2	1927.7	1584.0	1451.2	1432.4	1475.0	1553.3	1607.8	1595.9	1547.3	1544.4
72.5°	1972.3	1725.6	1424.5	1328.4	1309.6	1363.1	1432.4	1489.9	1472.0	1435.4	1432.4
75°	1706.8	1476.0	1231.3	1160.0	1159.0	1217.5	1277.9	1312.6	1311.6	1285.8	1277.9
77.5°	1418.5	1231.3	1014.4	950.0	973.8	1029.2	1073.8	1099.6	1090.7	1081.7	1078.8
80°	1110.5	944.0	782.6	743.9	780.6	799.4	847.0	845.0	849.9	831.1	845.0
82.5°	790.5	680.5	560.7	543.8	548.8	586.4	612.2	609.2	596.3	582.5	576.5
85°	479.5	419.0	359.6	335.8	352.7	349.7	365.5	352.7	344.7	337.8	343.7
87.5°	132.7	114.9	110.0	79.2	98.1	77.3	81.2	56.5	49.5	59.4	51.5
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: SP1-2407-176-5

Test Date: 09/24/2024

Luminaire Tested: MEM2-HTN-VA-30-740-U-WQ

Data in this report applies to families of products including MEM2-HTN-VA-30-740-U-WQ

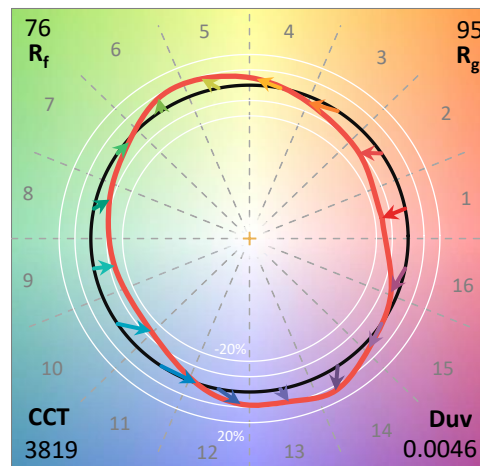
**Test Information**

Test Method: LM-79-2019  
 Report Number: SP1-2407-176-5  
 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-30-740-U-WQ**  
 Description: EPIC MODERN VISUAL COMFORT 30W WAVESTREAM WIDE

**Spectral Parameters**

CCT (K): 3819  
 CIE u': 0.2261  
 CIE v': 0.5108  
 Duv: 0.0046  
 CIE x: 0.3926  
 CIE y: 0.3942  
 CIE z: 0.2132  
 Peak Wavelength (nm): 450  
 Dominant Wavelength (nm): 577  
 Purity: 36.15483  
 Rf: 75.6  
 Rg: 94.8

CRI (Ra):	72.9		
R1:	70.1	R9:	-21.5
R2:	78.4	R10:	48.5
R3:	85.0	R11:	68.4
R4:	72.9	R12:	39.0
R5:	69.1	R13:	71.1
R6:	69.2	R14:	91.3
R7:	82.8	R15:	63.2
R8:	55.4		



**Test Conditions**

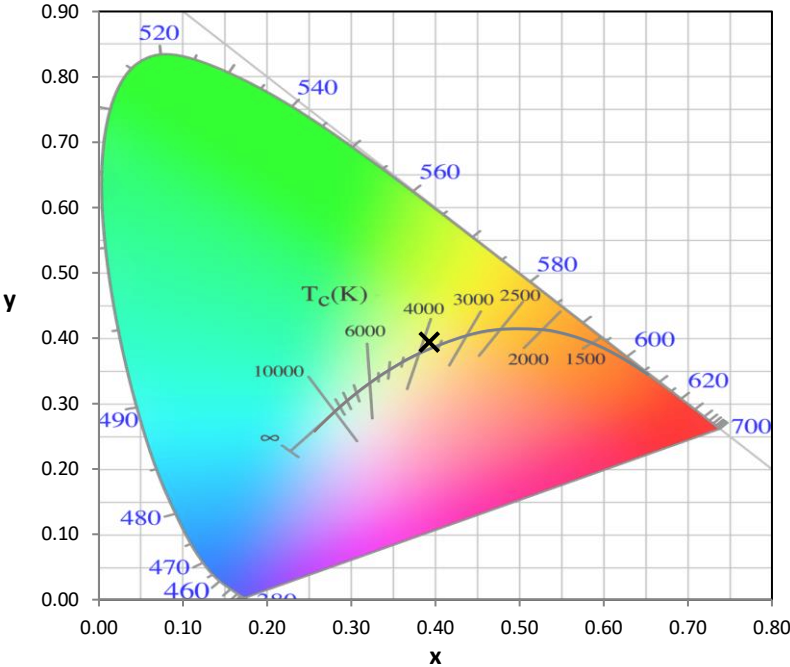
Stabilization Time: 30M  
 Operation Time: 1H 30M  
 Sphere Temperature (°C): 25.2

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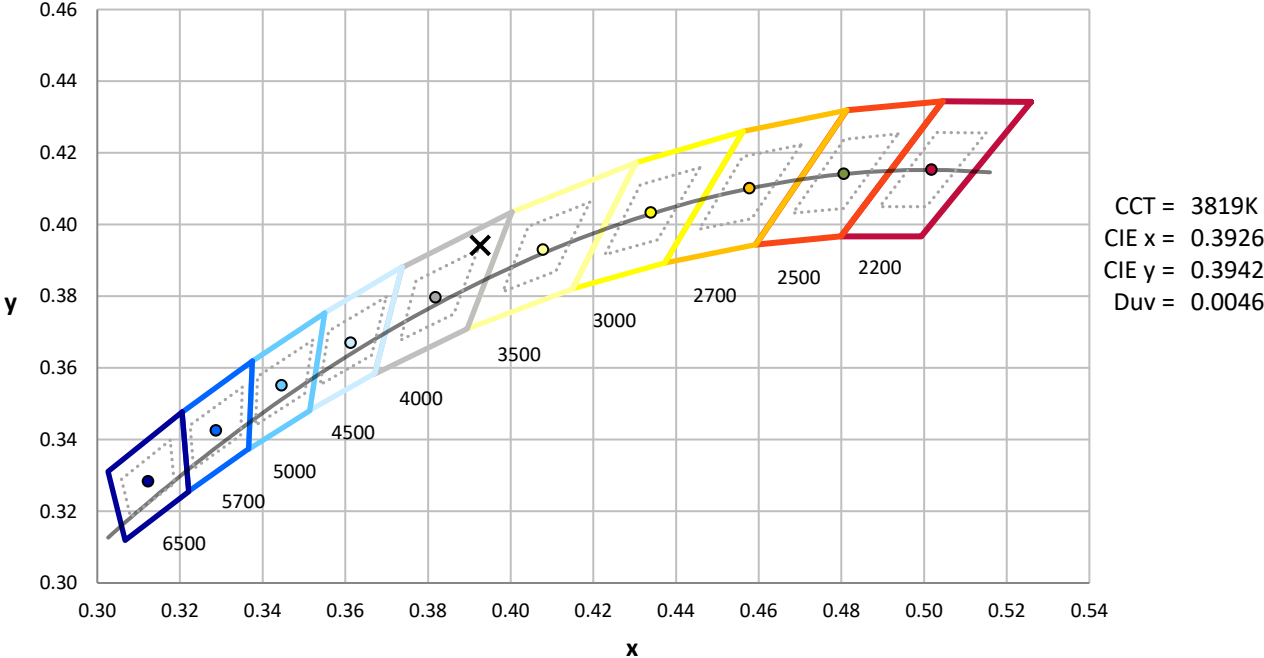
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

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CIE 1931 Chromaticity Diagram



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

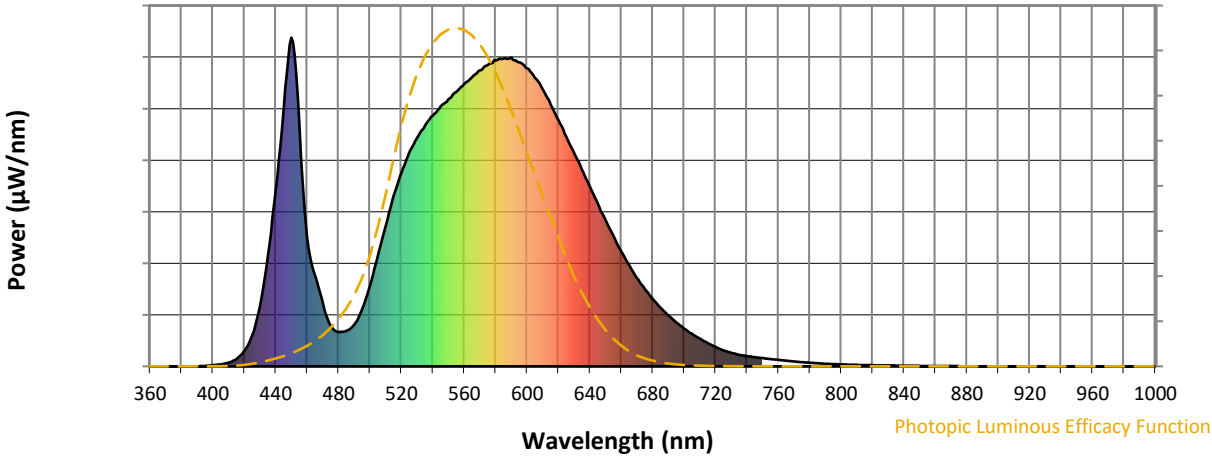


CCT = 3819K  
 CIE x = 0.3926  
 CIE y = 0.3942  
 Duv = 0.0046

Point lies inside the ANSI 4000K 7-step quadrangle

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**Photopic Flux vs. Wavelength**

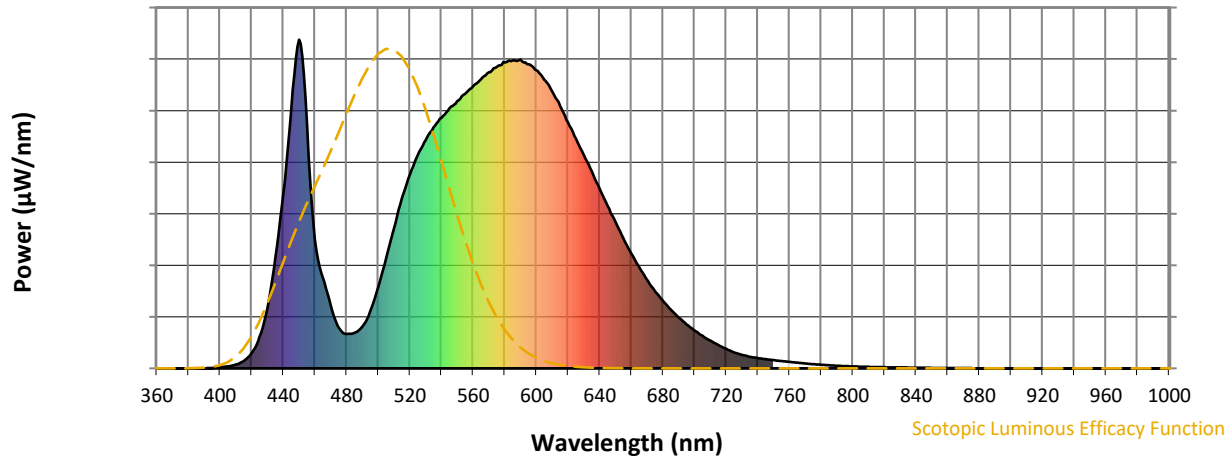


**Photopic Lumens: NR**

$\lambda$ (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	127	NR	620	748	NR	750	25	NR	880	0	NR
365	0	NR	495	173	NR	625	699	NR	755	22	NR	885	0	NR
370	0	NR	500	246	NR	630	648	NR	760	20	NR	890	0	NR
375	0	NR	505	335	NR	635	599	NR	765	17	NR	895	0	NR
380	0	NR	510	427	NR	640	547	NR	770	15	NR	900	0	NR
385	0	NR	515	517	NR	645	495	NR	775	13	NR	905	0	NR
390	0	NR	520	589	NR	650	445	NR	780	11	NR	910	0	NR
395	1	NR	525	649	NR	655	396	NR	785	9	NR	915	0	NR
400	4	NR	530	695	NR	660	349	NR	790	8	NR	920	0	NR
405	6	NR	535	733	NR	665	308	NR	795	7	NR	925	0	NR
410	11	NR	540	763	NR	670	269	NR	800	6	NR	930	0	NR
415	23	NR	545	792	NR	675	235	NR	805	5	NR	935	0	NR
420	46	NR	550	813	NR	680	205	NR	810	5	NR	940	0	NR
425	95	NR	555	835	NR	685	178	NR	815	4	NR	945	0	NR
430	183	NR	560	859	NR	690	155	NR	820	3	NR	950	0	NR
435	338	NR	565	880	NR	695	134	NR	825	3	NR	955	0	NR
440	534	NR	570	900	NR	700	115	NR	830	3	NR	960	0	NR
445	782	NR	575	918	NR	705	99	NR	835	2	NR	965	0	NR
450	1000	NR	580	931	NR	710	84	NR	840	2	NR	970	0	NR
455	739	NR	585	937	NR	715	71	NR	845	2	NR	975	0	NR
460	393	NR	590	939	NR	720	59	NR	850	1	NR	980	0	NR
465	276	NR	595	925	NR	725	49	NR	855	1	NR	985	0	NR
470	190	NR	600	907	NR	730	41	NR	860	1	NR	990	0	NR
475	123	NR	605	878	NR	735	35	NR	865	1	NR	995	0	NR
480	105	NR	610	842	NR	740	31	NR	870	1	NR	1000	0	NR
485	108	NR	615	797	NR	745	28	NR	875	1	NR			

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**Scotopic Flux vs. Wavelength**



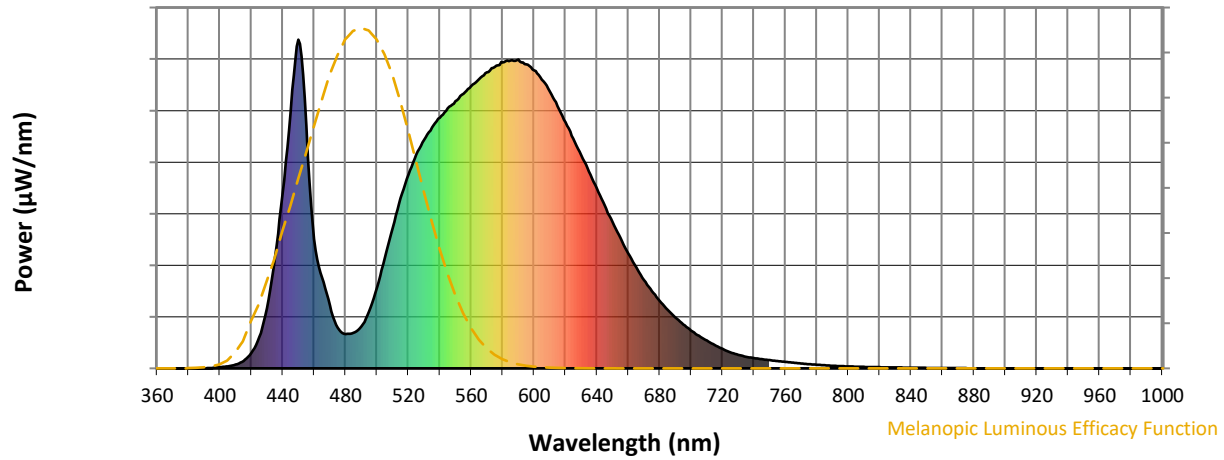
**Scotopic Lumens: NR**

**S/P: 1.45**

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	127	NR	620	748	NR	750	25	NR	880	0	NR
365	0	NR	495	173	NR	625	699	NR	755	22	NR	885	0	NR
370	0	NR	500	246	NR	630	648	NR	760	20	NR	890	0	NR
375	0	NR	505	335	NR	635	599	NR	765	17	NR	895	0	NR
380	0	NR	510	427	NR	640	547	NR	770	15	NR	900	0	NR
385	0	NR	515	517	NR	645	495	NR	775	13	NR	905	0	NR
390	0	NR	520	589	NR	650	445	NR	780	11	NR	910	0	NR
395	1	NR	525	649	NR	655	396	NR	785	9	NR	915	0	NR
400	4	NR	530	695	NR	660	349	NR	790	8	NR	920	0	NR
405	6	NR	535	733	NR	665	308	NR	795	7	NR	925	0	NR
410	11	NR	540	763	NR	670	269	NR	800	6	NR	930	0	NR
415	23	NR	545	792	NR	675	235	NR	805	5	NR	935	0	NR
420	46	NR	550	813	NR	680	205	NR	810	5	NR	940	0	NR
425	95	NR	555	835	NR	685	178	NR	815	4	NR	945	0	NR
430	183	NR	560	859	NR	690	155	NR	820	3	NR	950	0	NR
435	338	NR	565	880	NR	695	134	NR	825	3	NR	955	0	NR
440	534	NR	570	900	NR	700	115	NR	830	3	NR	960	0	NR
445	782	NR	575	918	NR	705	99	NR	835	2	NR	965	0	NR
450	1000	NR	580	931	NR	710	84	NR	840	2	NR	970	0	NR
455	739	NR	585	937	NR	715	71	NR	845	2	NR	975	0	NR
460	393	NR	590	939	NR	720	59	NR	850	1	NR	980	0	NR
465	276	NR	595	925	NR	725	49	NR	855	1	NR	985	0	NR
470	190	NR	600	907	NR	730	41	NR	860	1	NR	990	0	NR
475	123	NR	605	878	NR	735	35	NR	865	1	NR	995	0	NR
480	105	NR	610	842	NR	740	31	NR	870	1	NR	1000	0	NR
485	108	NR	615	797	NR	745	28	NR	875	1	NR			

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**Melanopic Flux vs. Wavelength**



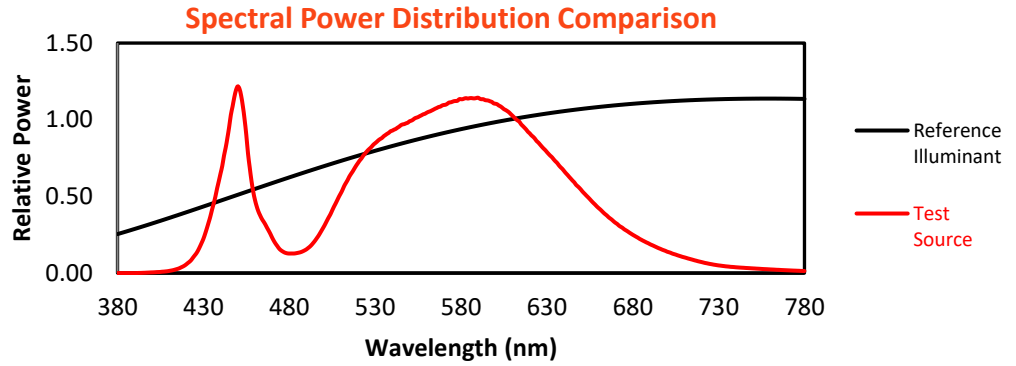
**Melanopic Lumens: NR**

**M/P: 2.76**

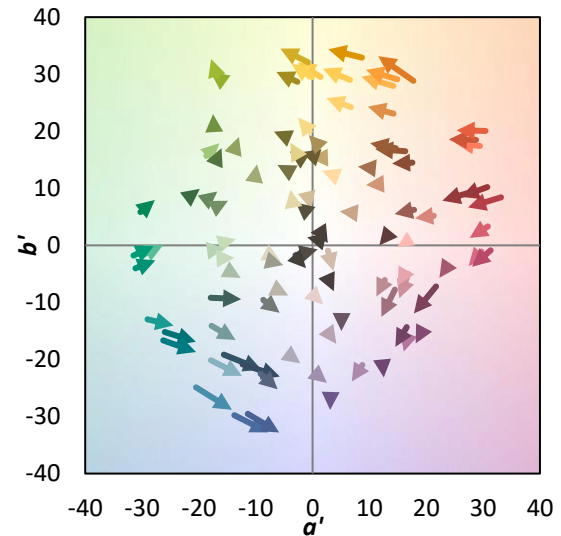
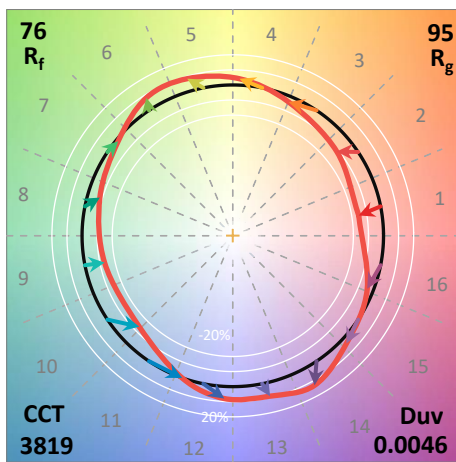
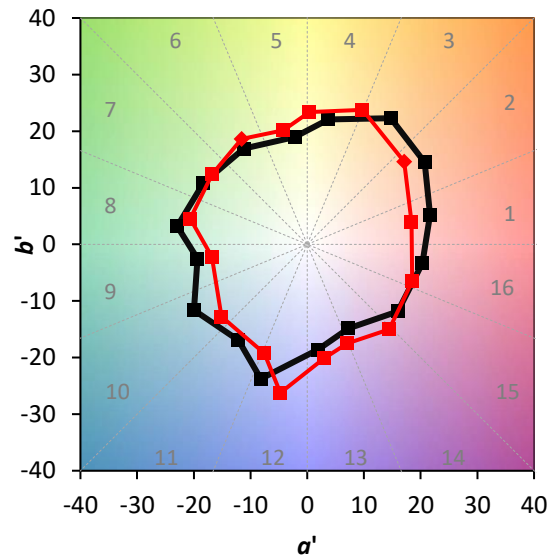
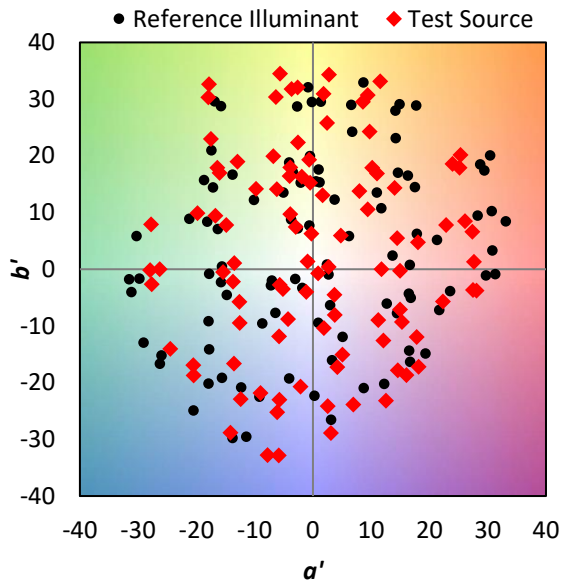
$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)
360	0	NR	490	127	NR	620	748	NR	750	25	NR	880	0	NR
365	0	NR	495	173	NR	625	699	NR	755	22	NR	885	0	NR
370	0	NR	500	246	NR	630	648	NR	760	20	NR	890	0	NR
375	0	NR	505	335	NR	635	599	NR	765	17	NR	895	0	NR
380	0	NR	510	427	NR	640	547	NR	770	15	NR	900	0	NR
385	0	NR	515	517	NR	645	495	NR	775	13	NR	905	0	NR
390	0	NR	520	589	NR	650	445	NR	780	11	NR	910	0	NR
395	1	NR	525	649	NR	655	396	NR	785	9	NR	915	0	NR
400	4	NR	530	695	NR	660	349	NR	790	8	NR	920	0	NR
405	6	NR	535	733	NR	665	308	NR	795	7	NR	925	0	NR
410	11	NR	540	763	NR	670	269	NR	800	6	NR	930	0	NR
415	23	NR	545	792	NR	675	235	NR	805	5	NR	935	0	NR
420	46	NR	550	813	NR	680	205	NR	810	5	NR	940	0	NR
425	95	NR	555	835	NR	685	178	NR	815	4	NR	945	0	NR
430	183	NR	560	859	NR	690	155	NR	820	3	NR	950	0	NR
435	338	NR	565	880	NR	695	134	NR	825	3	NR	955	0	NR
440	534	NR	570	900	NR	700	115	NR	830	3	NR	960	0	NR
445	782	NR	575	918	NR	705	99	NR	835	2	NR	965	0	NR
450	1000	NR	580	931	NR	710	84	NR	840	2	NR	970	0	NR
455	739	NR	585	937	NR	715	71	NR	845	2	NR	975	0	NR
460	393	NR	590	939	NR	720	59	NR	850	1	NR	980	0	NR
465	276	NR	595	925	NR	725	49	NR	855	1	NR	985	0	NR
470	190	NR	600	907	NR	730	41	NR	860	1	NR	990	0	NR
475	123	NR	605	878	NR	735	35	NR	865	1	NR	995	0	NR
480	105	NR	610	842	NR	740	31	NR	870	1	NR	1000	0	NR
485	108	NR	615	797	NR	745	28	NR	875	1	NR			

**Summary**

$R_f = 75.6$   
 $R_g = 94.8$   
 $CIE R_a = 72.9$   
 $R_g = -21.5$



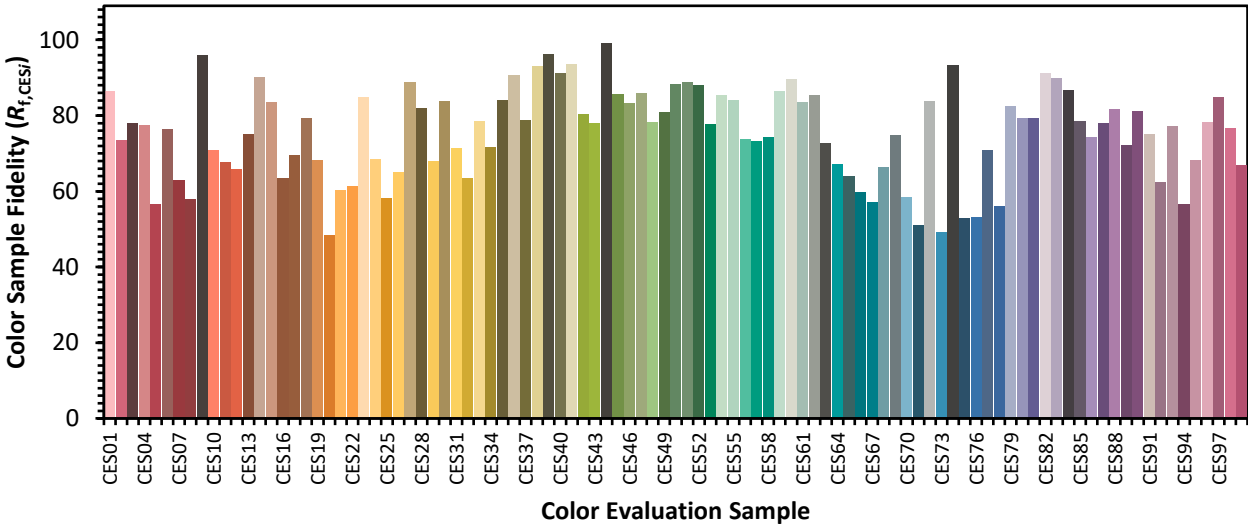
**Color Vector Graphics**



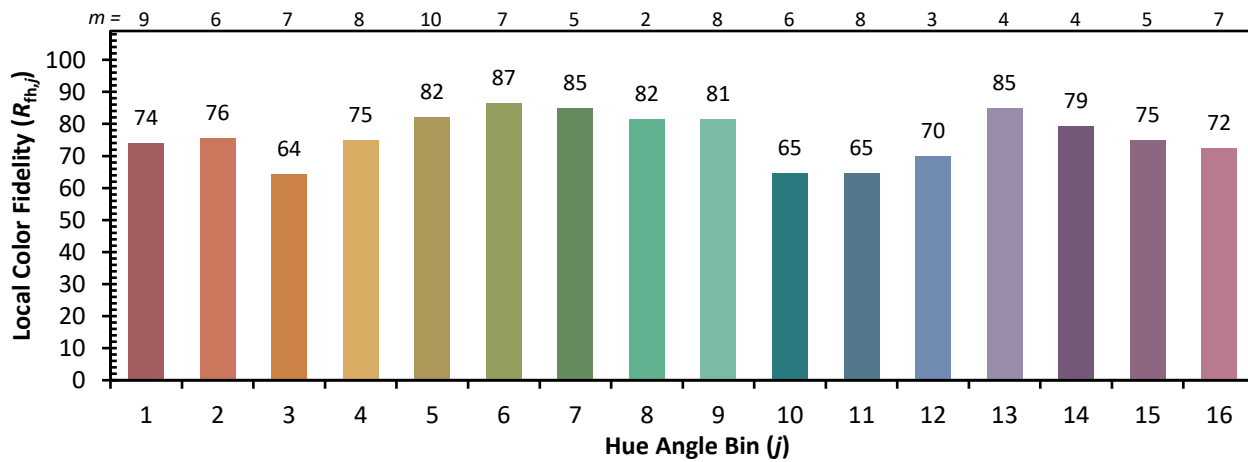
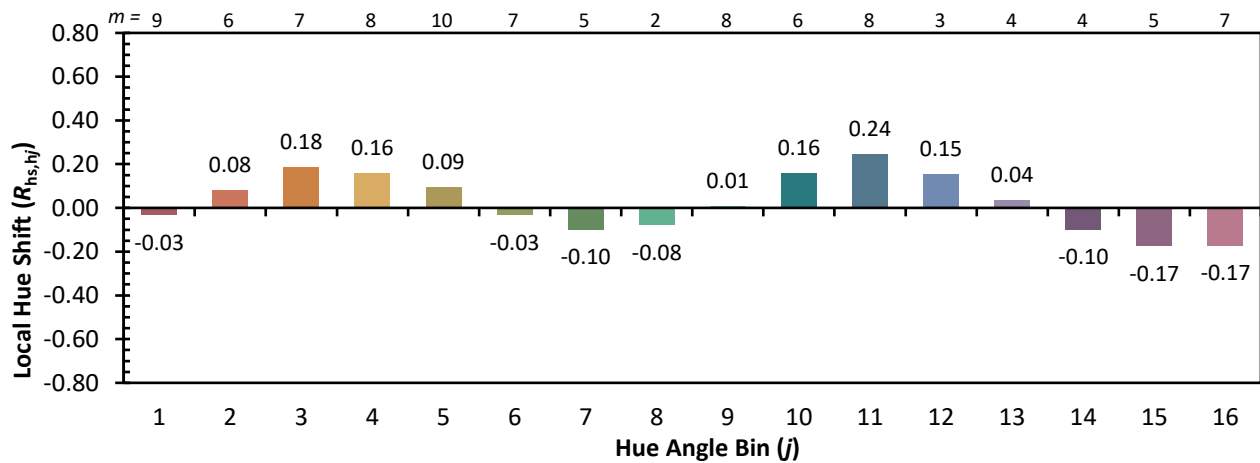
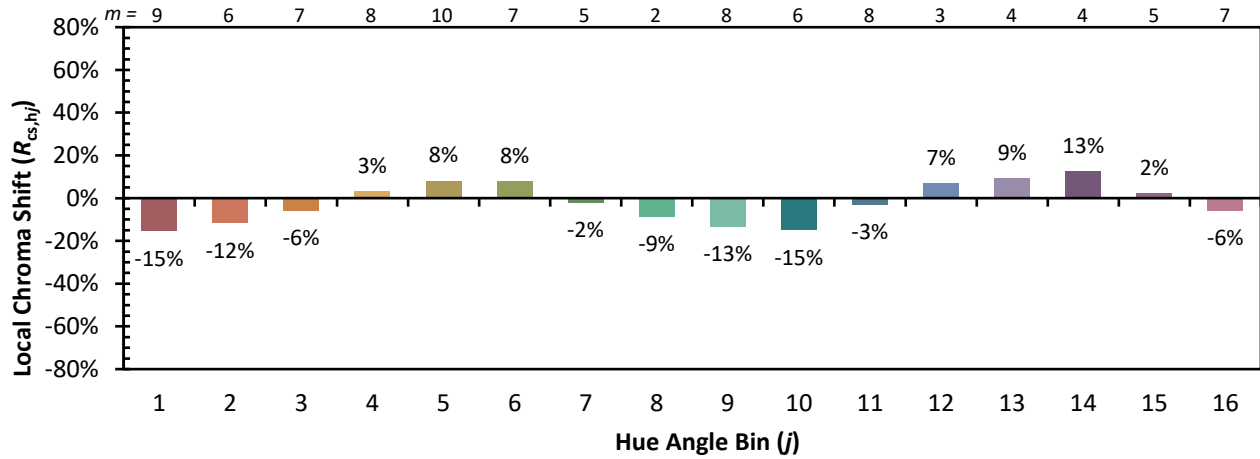


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

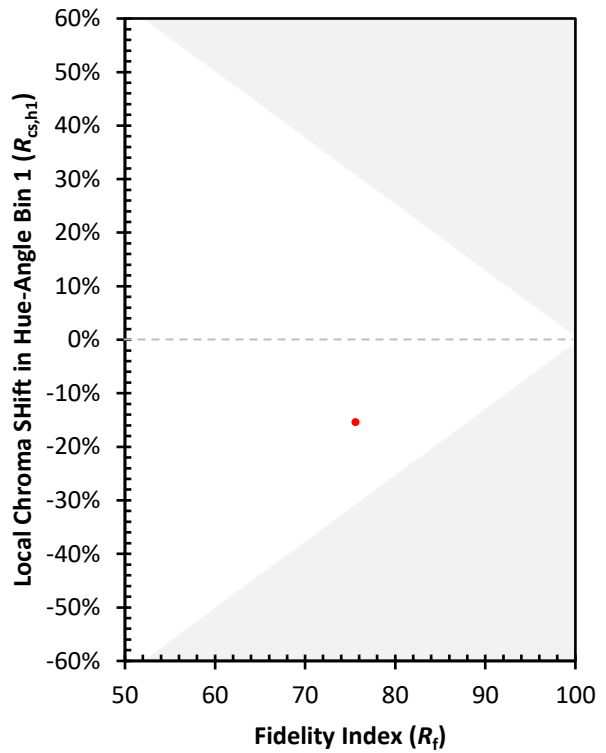
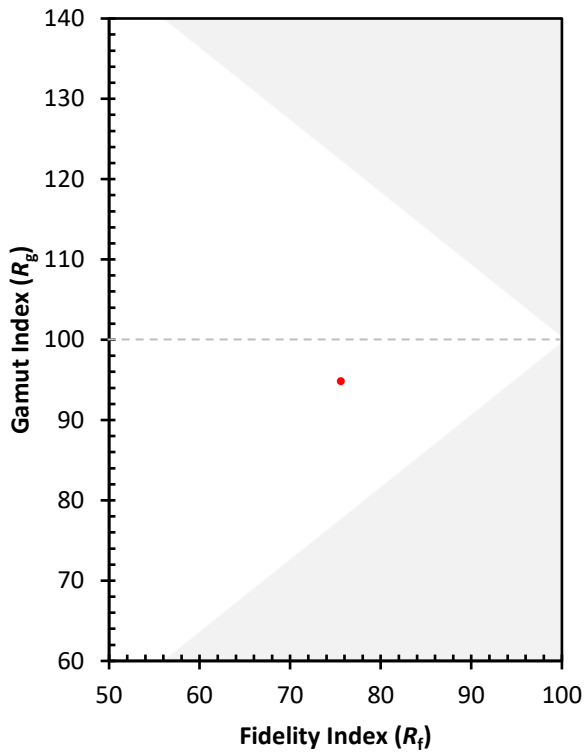
CES01 = 85	CES26 = 65	CES51 = 89	CES76 = 53
CES02 = 61	CES27 = 89	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 82	CES53 = 78	CES78 = 56
CES04 = 70	CES29 = 68	CES54 = 85	CES79 = 83
CES05 = 48	CES30 = 84	CES55 = 84	CES80 = 79
CES06 = 50	CES31 = 71	CES56 = 74	CES81 = 79
CES07 = 40	CES32 = 63	CES57 = 73	CES82 = 91
CES08 = 39	CES33 = 79	CES58 = 74	CES83 = 90
CES09 = 29	CES34 = 72	CES59 = 86	CES84 = 87
CES10 = 74	CES35 = 84	CES60 = 90	CES85 = 78
CES11 = 57	CES36 = 91	CES61 = 84	CES86 = 74
CES12 = 63	CES37 = 79	CES62 = 85	CES87 = 78
CES13 = 42	CES38 = 93	CES63 = 73	CES88 = 82
CES14 = 74	CES39 = 96	CES64 = 67	CES89 = 72
CES15 = 71	CES40 = 91	CES65 = 64	CES90 = 81
CES16 = 47	CES41 = 93	CES66 = 60	CES91 = 75
CES17 = 49	CES42 = 80	CES67 = 57	CES92 = 62
CES18 = 56	CES43 = 78	CES68 = 66	CES93 = 77
CES19 = 72	CES44 = 99	CES69 = 75	CES94 = 57
CES20 = 65	CES45 = 86	CES70 = 58	CES95 = 68
CES21 = 86	CES46 = 83	CES71 = 51	CES96 = 78
CES22 = 78	CES47 = 86	CES72 = 84	CES97 = 85
CES23 = 92	CES48 = 78	CES73 = 49	CES98 = 77
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 67
CES25 = 72	CES50 = 88	CES75 = 53	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)