

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: P879903

Luminaire Tested: **MEM2-HSN-VA-40-735-U-WT4**

Issue Date: 10/01/2024



Test Information

Test Method: LM-79-08
Report Number: P879903
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/01/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MEM2-HSN-VA-40-735-U-WT4
Description: EPIC MODERN SHORT HOUSING 40W 70CRI 3500K VISUAL COMFORT FIXTURE w/
DRIVE LANE TYPE IV DISTRIBUTION OPTIC
Light Source: (1) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

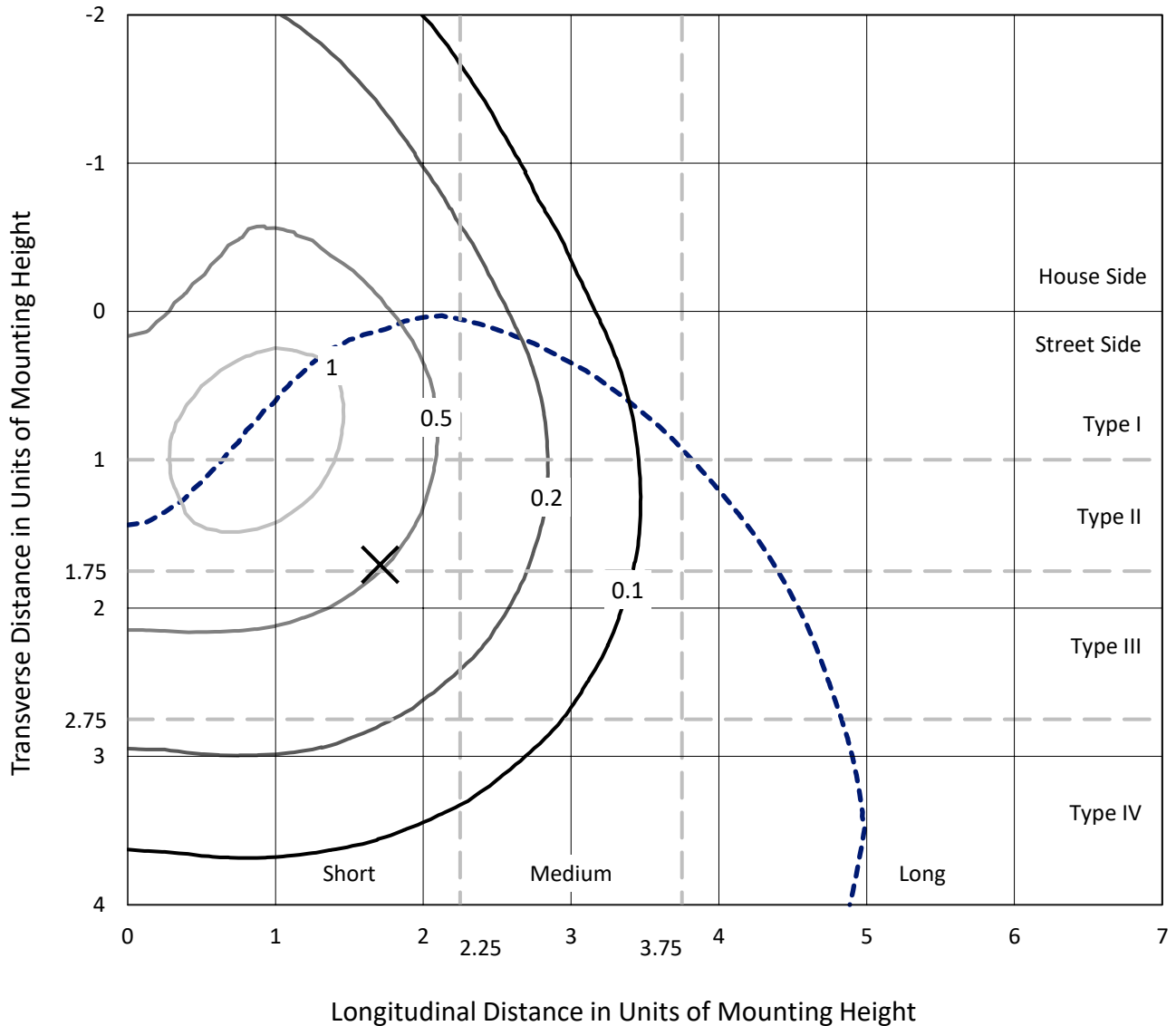
Lumens per Lamp: N/A
Luminaire Lumens: 4024.8 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 38.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 7%
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

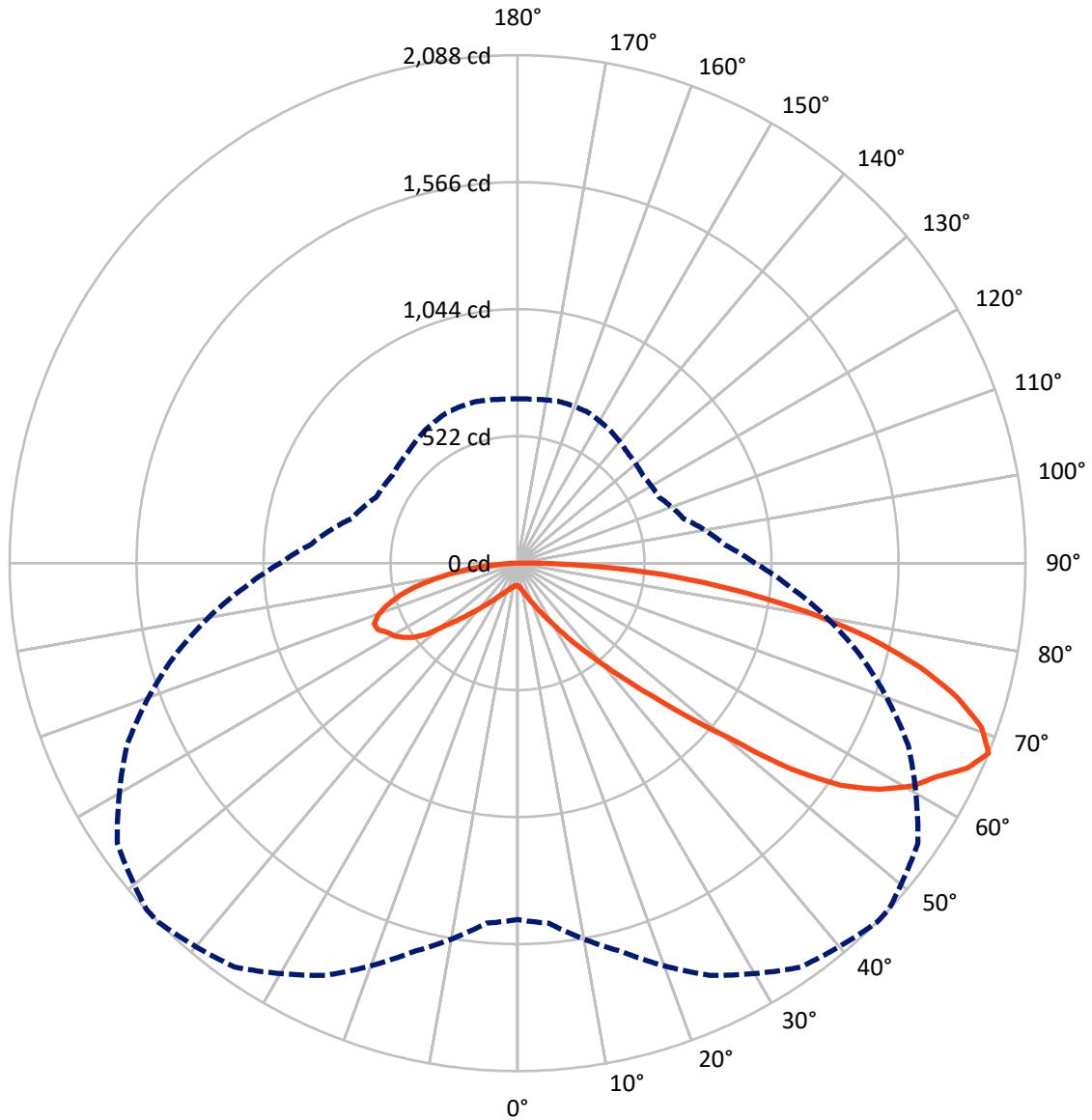
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.4 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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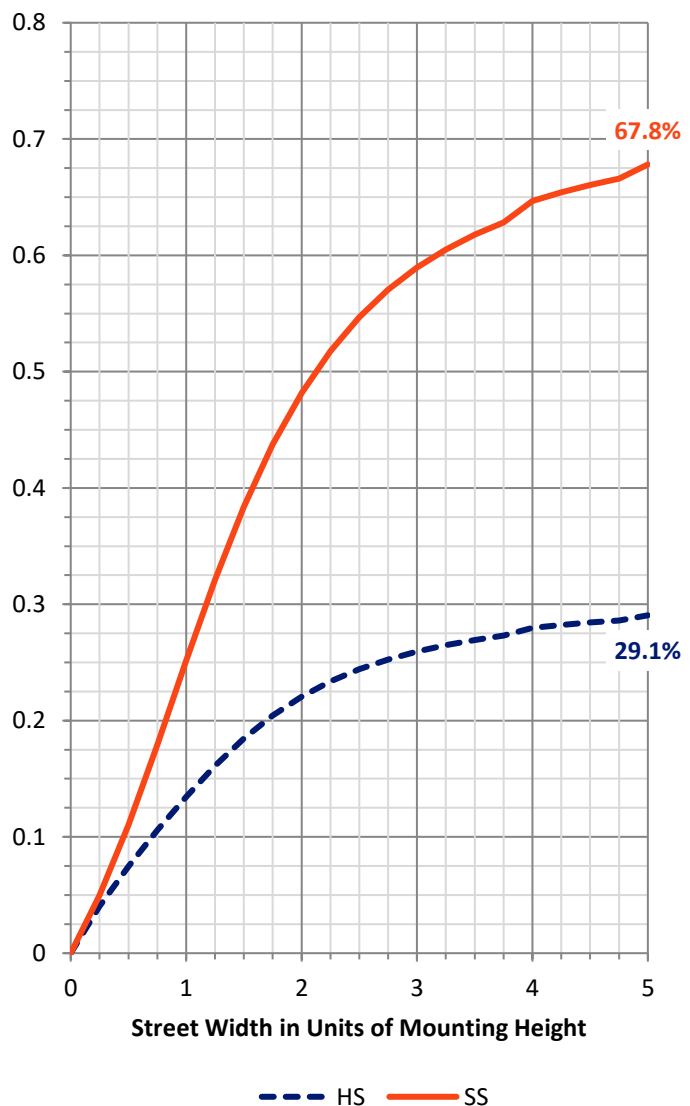
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1192.8	0.0	1192.8
	% Fixture	29.6	0.0	29.6
Street Side	Lumens	2832.0	0.0	2832.0
	% Fixture	70.4	0.0	70.4
Total	Lumens	4024.8	0.0	4024.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.5	0.2
10°-20°	35.8	0.9
20°-30°	84.4	2.1
30°-40°	185.0	4.6
40°-50°	402.7	10.0
50°-60°	827.5	20.6
60°-70°	1165.8	29.0
70°-80°	989.7	24.6
80°-90°	324.4	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°	4024.8	100.0
0°-180°	4024.8	100.0



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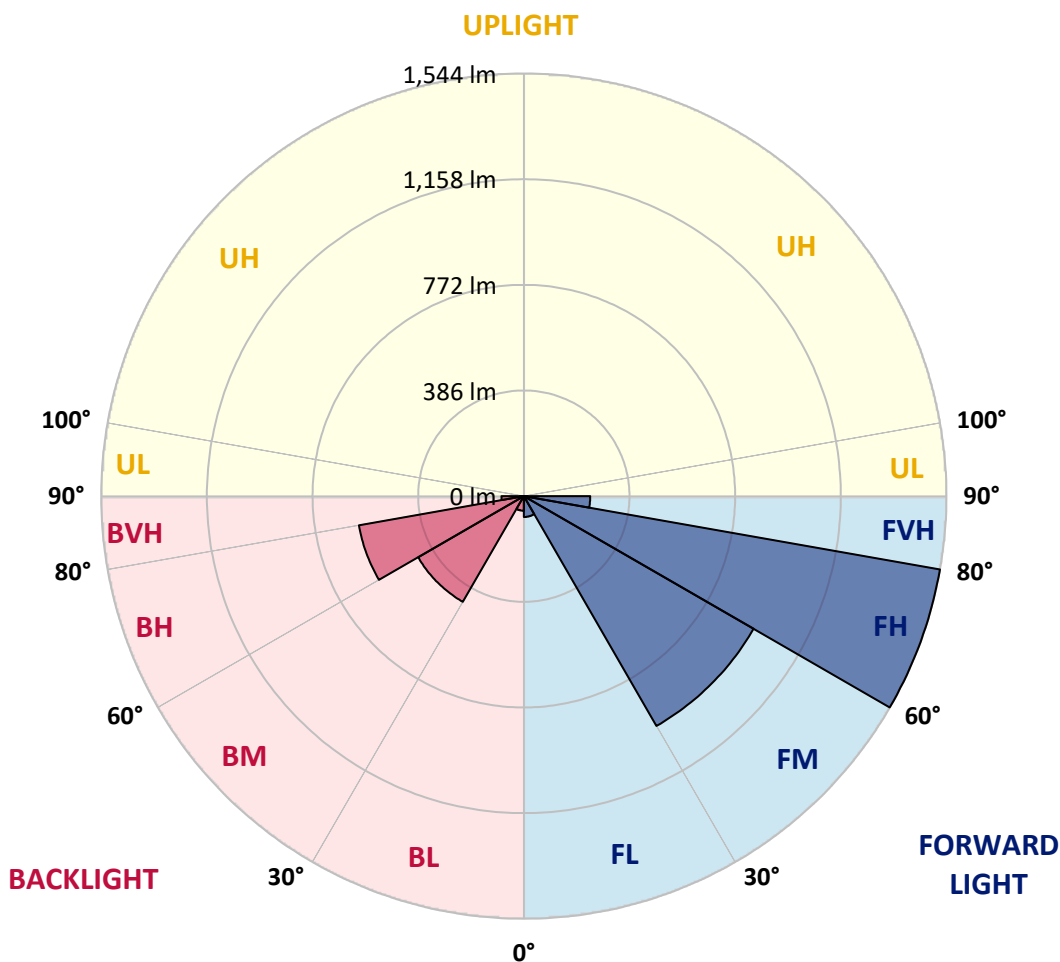
CATALOG NUMBER: MEM2-HSN-VA-40-735-U-WT4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	76.2	1.9			
FM (30°-60°)	969.4	24.1			
FH (60°-80°)	1543.9	38.4			G1/1800
FVH (80°-90°)	242.6	6.0			G3/500
BL (0°-30°)	53.5	1.3	B0/110		
BM (30°-60°)	445.8	11.1	B1/1000		
BH (60°-80°)	611.6	15.2	B2/1000		G2/1000
BVH (80°-90°)	81.8	2.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
2.5°	95.8	95.4	95.8	95.8	95.8	95.4	95.4	95.4	95.0	94.6	94.2
5°	101.6	101.6	101.6	101.2	101.2	100.3	100.3	99.9	99.1	98.3	97.5
7.5°	109.4	109.0	109.0	108.6	108.2	107.3	106.9	106.5	104.9	103.6	102.0
10°	118.8	118.8	118.4	117.6	117.6	115.6	116.0	115.1	113.1	110.6	107.7
12.5°	130.4	130.4	129.5	129.5	128.7	127.1	126.7	125.4	123.4	119.3	116.0
15°	143.1	143.1	143.9	143.1	142.3	140.2	140.2	138.6	134.1	130.8	125.8
17.5°	159.1	157.1	158.3	157.9	157.9	156.7	155.4	153.4	149.7	143.9	137.8
20°	175.6	176.0	174.8	176.0	176.4	174.8	174.8	172.3	167.0	160.0	150.1
22.5°	196.2	196.2	193.7	197.0	199.0	197.8	197.4	192.4	185.9	176.4	166.5
25°	217.5	216.7	220.8	221.6	226.2	225.8	225.3	220.8	211.0	199.4	184.2
27.5°	241.8	243.0	250.8	252.9	257.4	257.0	256.6	251.7	241.0	225.3	205.6
30°	271.8	273.5	280.9	287.9	295.7	296.5	295.7	291.6	275.9	255.4	233.2
32.5°	306.8	311.3	318.7	330.6	340.5	345.0	345.8	338.4	320.7	293.6	264.4
35°	354.5	350.8	361.0	380.8	397.2	406.3	405.9	396.0	376.7	342.1	300.6
37.5°	401.3	400.1	416.2	442.1	464.3	471.7	473.7	467.1	442.5	396.8	347.9
40°	450.3	460.6	479.1	509.1	542.0	557.6	558.8	549.4	515.7	464.3	399.7
42.5°	514.0	524.3	547.7	584.8	632.5	658.4	660.0	649.3	608.6	542.0	462.2
45°	594.6	600.4	625.1	681.4	742.7	784.2	796.1	783.0	732.8	640.3	539.9
47.5°	681.4	681.4	721.7	796.1	888.6	943.3	952.4	940.5	865.6	754.2	626.7
50°	778.0	778.4	842.6	949.1	1065.9	1134.1	1141.1	1112.3	1021.9	870.1	715.1
52.5°	878.4	889.1	982.8	1144.0	1300.7	1405.1	1412.1	1378.8	1258.3	1036.3	809.3
55°	1016.5	1033.4	1169.5	1367.3	1530.1	1612.4	1612.8	1572.9	1428.2	1197.5	921.9
57.5°	1208.2	1214.7	1341.8	1543.7	1697.5	1753.8	1749.7	1691.3	1524.4	1287.5	1014.5
60°	1366.5	1381.7	1485.3	1672.8	1822.9	1861.6	1857.1	1779.7	1590.2	1340.2	1058.9
62.5°	1470.5	1477.9	1585.2	1765.4	1900.2	1932.7	1927.8	1855.8	1670.8	1431.9	1132.9
65°	1495.6	1507.9	1644.0	1827.0	1957.8	2031.0	2027.7	1989.1	1799.1	1499.7	1167.9
67.5°	1465.2	1485.7	1652.7	1869.4	2026.9	2087.7	2086.1	2008.4	1771.5	1456.1	1123.9
70°	1403.1	1420.8	1628.0	1864.9	2006.7	2023.2	2010.4	1921.6	1690.5	1383.7	1058.1
72.5°	1305.2	1335.2	1537.5	1761.7	1880.1	1890.8	1886.3	1777.7	1568.8	1259.1	958.5
75°	1176.9	1213.5	1396.9	1578.3	1690.9	1709.4	1700.8	1605.8	1394.4	1103.3	835.2
77.5°	1014.5	1035.0	1174.8	1347.1	1476.7	1480.0	1475.0	1368.9	1174.4	924.0	702.8
80°	799.4	811.7	933.1	1076.6	1183.9	1197.1	1192.5	1121.0	932.6	731.1	548.2
82.5°	592.2	583.9	665.3	783.0	889.5	890.3	897.7	818.3	698.2	530.5	392.3
85°	340.9	344.2	414.9	495.1	559.7	597.1	596.7	558.4	449.0	337.6	239.3
87.5°	95.0	102.4	147.2	214.2	243.4	264.8	257.0	231.9	187.5	106.1	60.9
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: P879903

CATALOG NUMBER: MEM2-HSN-VA-40-735-U-WT4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
2.5°	94.2	93.8	93.3	92.9	92.1	92.1	91.7	92.1	92.1	92.1	92.1
5°	96.6	96.2	95.0	94.2	92.9	92.1	91.7	91.7	91.7	91.7	91.7
7.5°	100.7	100.3	98.3	96.6	95.0	94.2	93.3	92.9	92.5	92.1	92.5
10°	106.9	105.3	103.2	100.7	98.3	97.0	95.8	95.4	95.0	94.6	94.6
12.5°	113.9	112.7	109.0	105.7	103.2	101.2	99.5	98.7	98.3	97.9	97.9
15°	123.4	120.9	116.0	111.9	108.2	105.7	104.0	103.2	102.8	102.4	102.4
17.5°	134.1	130.8	124.2	118.8	114.7	111.4	109.4	108.2	107.3	107.7	108.2
20°	146.4	141.0	133.6	127.1	121.7	118.0	116.0	114.3	113.5	113.9	114.3
22.5°	160.8	155.0	144.3	136.5	129.9	125.4	123.4	122.1	121.3	120.9	120.1
25°	177.2	169.8	157.5	146.8	139.0	134.5	132.0	131.2	130.4	129.5	129.5
27.5°	197.0	188.3	171.5	160.0	150.5	146.0	143.1	141.9	141.9	140.6	140.6
30°	220.0	208.5	187.9	172.7	163.3	157.5	154.2	153.8	153.0	154.2	154.2
32.5°	247.6	231.9	206.8	189.2	178.5	173.1	169.8	169.0	167.8	168.6	171.1
35°	282.1	261.9	231.9	211.0	197.8	192.4	188.3	187.9	185.9	187.9	184.6
37.5°	320.7	298.5	258.7	234.0	219.6	213.4	210.5	209.3	208.9	208.9	206.4
40°	368.0	341.3	292.8	262.4	245.9	238.5	235.6	235.2	234.4	237.3	234.4
42.5°	426.4	385.7	328.2	293.6	276.7	268.9	265.6	264.4	266.5	267.7	267.3
45°	491.4	447.4	373.4	333.5	314.2	306.4	301.8	300.6	301.4	301.4	305.5
47.5°	566.2	514.4	425.2	377.1	359.4	349.9	347.1	343.0	340.9	340.1	347.1
50°	644.4	579.8	478.2	424.4	408.3	400.9	401.8	393.5	390.7	387.4	386.5
52.5°	722.9	649.7	538.7	490.2	471.7	475.4	473.7	465.1	448.2	444.1	434.2
55°	817.1	728.7	596.7	538.7	522.7	525.5	532.1	532.1	528.4	519.4	511.6
57.5°	896.9	794.1	640.3	567.9	553.9	561.3	574.5	584.3	593.0	599.6	599.1
60°	941.3	834.4	668.6	590.1	573.6	588.0	607.8	624.6	643.1	662.5	661.6
62.5°	1002.5	890.7	719.2	629.6	601.2	605.7	628.3	657.5	674.4	690.4	695.0
65°	1018.6	901.0	738.1	657.5	634.5	635.3	650.5	674.4	688.8	692.9	695.4
67.5°	975.4	855.7	706.9	641.1	628.8	640.3	664.9	683.9	685.9	676.0	675.2
70°	910.4	800.2	657.5	602.4	594.6	612.3	644.8	667.4	662.5	642.3	641.1
72.5°	818.7	716.3	591.3	551.4	543.6	565.8	594.6	618.5	611.1	595.9	594.6
75°	708.5	612.7	511.1	481.5	481.1	505.4	530.5	544.9	544.5	533.8	530.5
77.5°	588.9	511.1	421.1	394.4	404.2	427.3	445.8	456.5	452.8	449.0	447.8
80°	461.0	391.9	324.9	308.8	324.0	331.9	351.6	350.8	352.8	345.0	350.8
82.5°	328.2	282.5	232.7	225.8	227.8	243.4	254.1	252.9	247.6	241.8	239.3
85°	199.0	173.9	149.3	139.4	146.4	145.2	151.7	146.4	143.1	140.2	142.7
87.5°	55.1	47.7	45.6	32.9	40.7	32.1	33.7	23.4	20.6	24.7	21.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2407-176-4

Test Date: 09/24/2024

Luminaire Tested: MEM2-HTN-VA-30-735-U-WQ

Data in this report applies to families of products including MEM2-HTN-VA-30-735-U-WQ

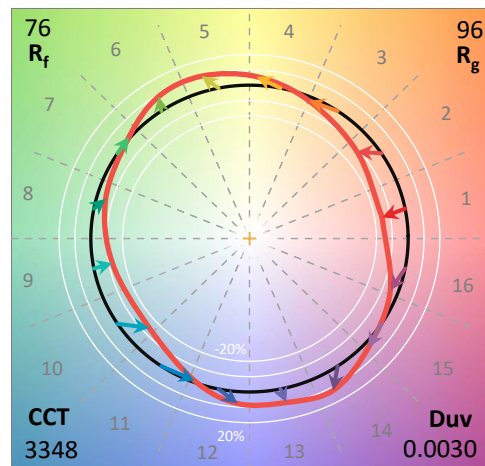
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-176-4
 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-30-735-U-WQ**
 Description: EPIC MODERN VISUAL COMFORT 30W WAVESTREAM WIDE

Spectral Parameters

CCT (K): 3348
 CIE u': 0.2384
 CIE v': 0.5184
 Duv: 0.0030
 CIE x: 0.4177
 CIE y: 0.4036
 CIE z: 0.1787
 Peak Wavelength (nm): 593
 Dominant Wavelength (nm): 580
 Purity: 46.5223
 Rf: 75.8
 Rg: 95.8

CRI (Ra):	73.4		
R1:	70.8	R9:	-19.2
R2:	79.9	R10:	52.5
R3:	87.6	R11:	68.0
R4:	72.6	R12:	42.6
R5:	69.3	R13:	72.0
R6:	71.3	R14:	92.6
R7:	82.1	R15:	63.8
R8:	53.3		



Test Conditions

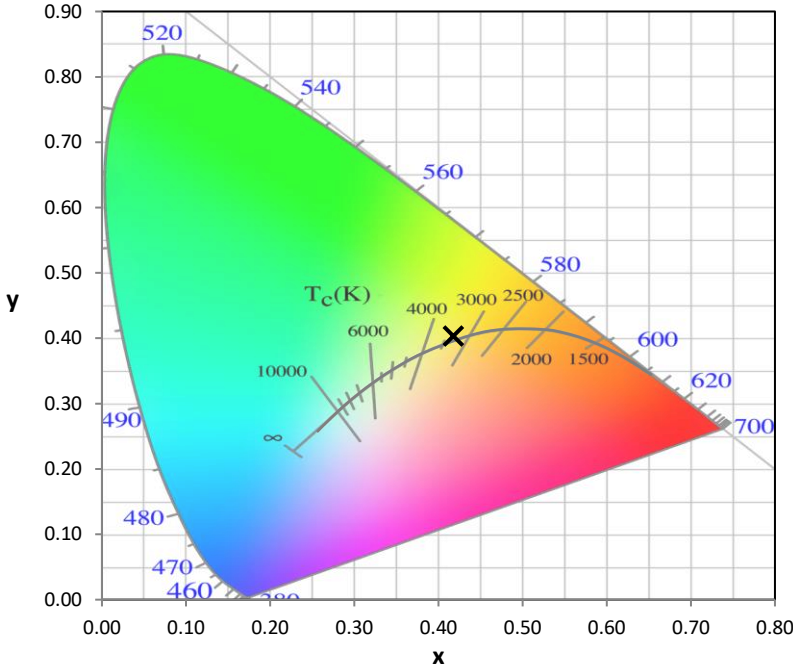
Stabilization Time: 30M
 Operation Time: 1H 30M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-176-4

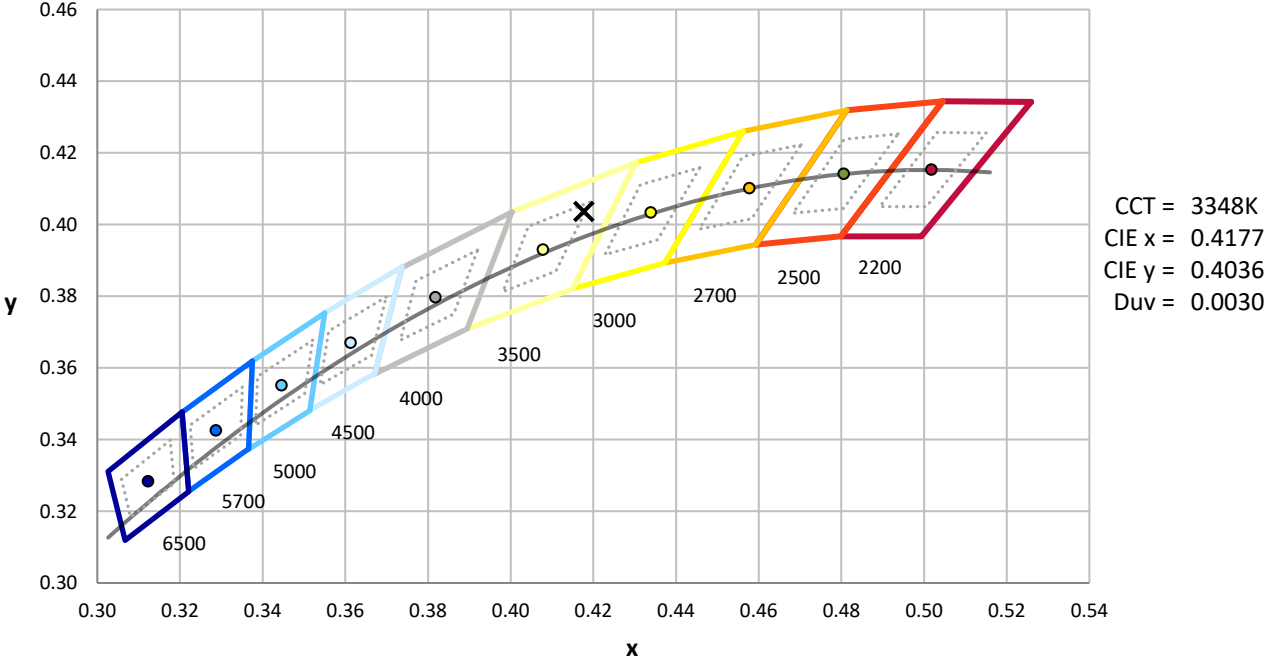
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



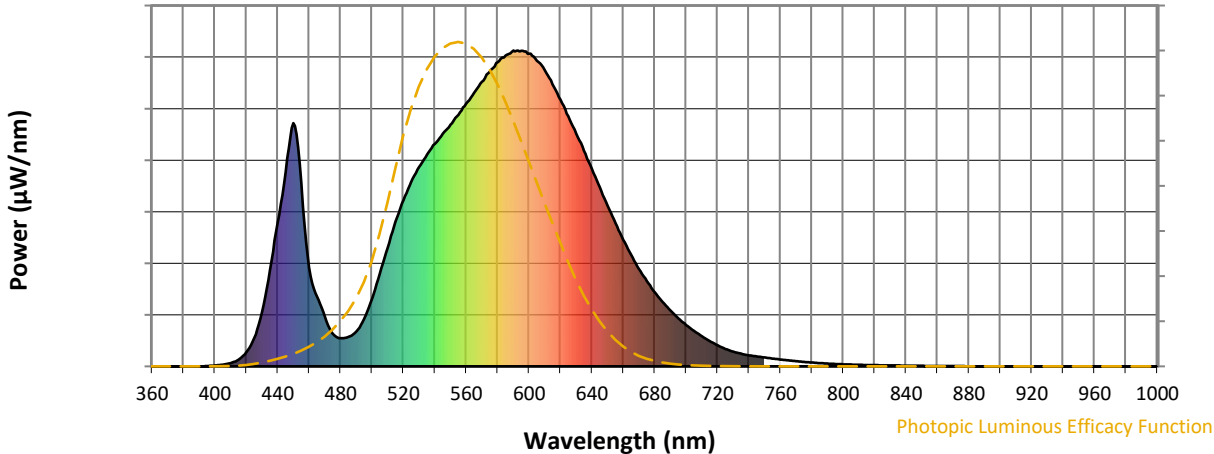
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

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Photopic Flux vs. Wavelength

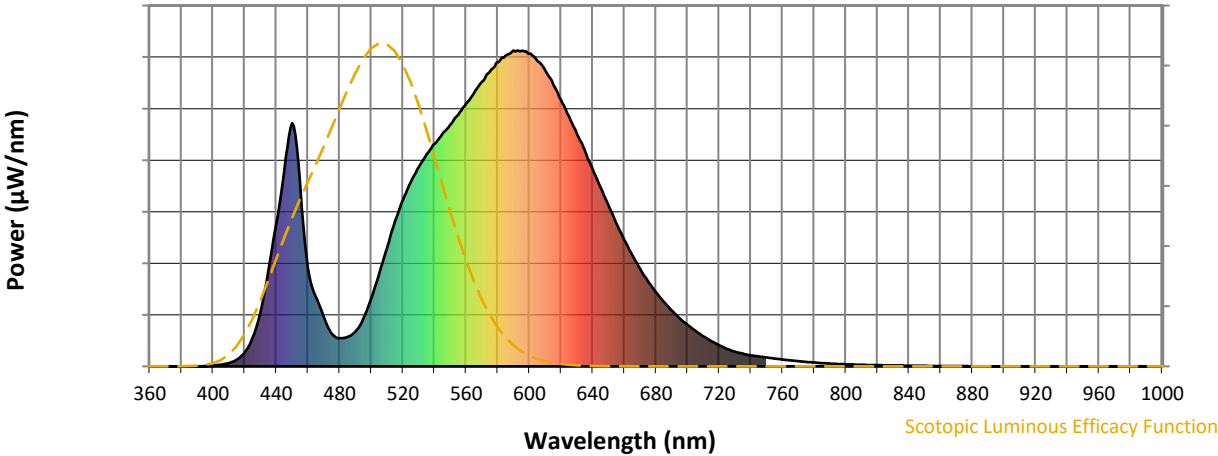


Photopic Lumens: NR

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	844	NR	750	28	NR	880	0	NR
365	0	NR	495	150	NR	625	792	NR	755	25	NR	885	0	NR
370	0	NR	500	214	NR	630	737	NR	760	22	NR	890	0	NR
375	0	NR	505	293	NR	635	683	NR	765	19	NR	895	0	NR
380	0	NR	510	376	NR	640	625	NR	770	16	NR	900	0	NR
385	0	NR	515	458	NR	645	566	NR	775	14	NR	905	0	NR
390	0	NR	520	526	NR	650	509	NR	780	12	NR	910	0	NR
395	1	NR	525	584	NR	655	453	NR	785	10	NR	915	0	NR
400	3	NR	530	631	NR	660	401	NR	790	9	NR	920	0	NR
405	5	NR	535	671	NR	665	353	NR	795	8	NR	925	0	NR
410	10	NR	540	704	NR	670	308	NR	800	7	NR	930	0	NR
415	21	NR	545	737	NR	675	269	NR	805	6	NR	935	0	NR
420	44	NR	550	766	NR	680	235	NR	810	5	NR	940	0	NR
425	90	NR	555	797	NR	685	204	NR	815	4	NR	945	0	NR
430	171	NR	560	832	NR	690	177	NR	820	4	NR	950	0	NR
435	305	NR	565	866	NR	695	152	NR	825	3	NR	955	0	NR
440	455	NR	570	901	NR	700	131	NR	830	3	NR	960	0	NR
445	615	NR	575	933	NR	705	112	NR	835	3	NR	965	0	NR
450	771	NR	580	963	NR	710	96	NR	840	2	NR	970	0	NR
455	579	NR	585	984	NR	715	80	NR	845	2	NR	975	0	NR
460	313	NR	590	1000	NR	720	67	NR	850	2	NR	980	0	NR
465	221	NR	595	999	NR	725	55	NR	855	1	NR	985	0	NR
470	156	NR	600	990	NR	730	46	NR	860	1	NR	990	0	NR
475	103	NR	605	968	NR	735	40	NR	865	1	NR	995	0	NR
480	89	NR	610	937	NR	740	35	NR	870	1	NR	1000	0	NR
485	93	NR	615	893	NR	745	31	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



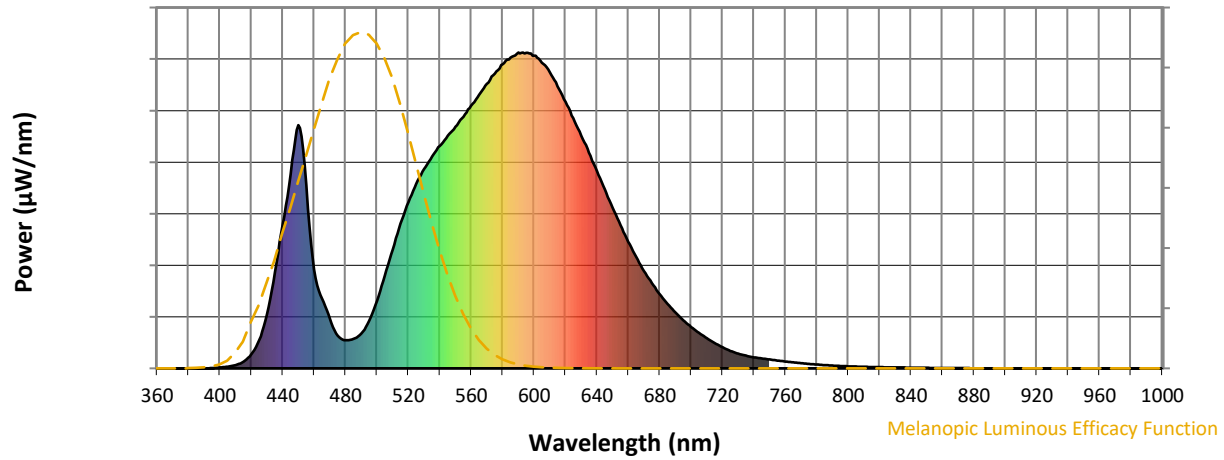
Scotopic Lumens: NR

S/P: 1.31

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	844	NR	750	28	NR	880	0	NR
365	0	NR	495	150	NR	625	792	NR	755	25	NR	885	0	NR
370	0	NR	500	214	NR	630	737	NR	760	22	NR	890	0	NR
375	0	NR	505	293	NR	635	683	NR	765	19	NR	895	0	NR
380	0	NR	510	376	NR	640	625	NR	770	16	NR	900	0	NR
385	0	NR	515	458	NR	645	566	NR	775	14	NR	905	0	NR
390	0	NR	520	526	NR	650	509	NR	780	12	NR	910	0	NR
395	1	NR	525	584	NR	655	453	NR	785	10	NR	915	0	NR
400	3	NR	530	631	NR	660	401	NR	790	9	NR	920	0	NR
405	5	NR	535	671	NR	665	353	NR	795	8	NR	925	0	NR
410	10	NR	540	704	NR	670	308	NR	800	7	NR	930	0	NR
415	21	NR	545	737	NR	675	269	NR	805	6	NR	935	0	NR
420	44	NR	550	766	NR	680	235	NR	810	5	NR	940	0	NR
425	90	NR	555	797	NR	685	204	NR	815	4	NR	945	0	NR
430	171	NR	560	832	NR	690	177	NR	820	4	NR	950	0	NR
435	305	NR	565	866	NR	695	152	NR	825	3	NR	955	0	NR
440	455	NR	570	901	NR	700	131	NR	830	3	NR	960	0	NR
445	615	NR	575	933	NR	705	112	NR	835	3	NR	965	0	NR
450	771	NR	580	963	NR	710	96	NR	840	2	NR	970	0	NR
455	579	NR	585	984	NR	715	80	NR	845	2	NR	975	0	NR
460	313	NR	590	1000	NR	720	67	NR	850	2	NR	980	0	NR
465	221	NR	595	999	NR	725	55	NR	855	1	NR	985	0	NR
470	156	NR	600	990	NR	730	46	NR	860	1	NR	990	0	NR
475	103	NR	605	968	NR	735	40	NR	865	1	NR	995	0	NR
480	89	NR	610	937	NR	740	35	NR	870	1	NR	1000	0	NR
485	93	NR	615	893	NR	745	31	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



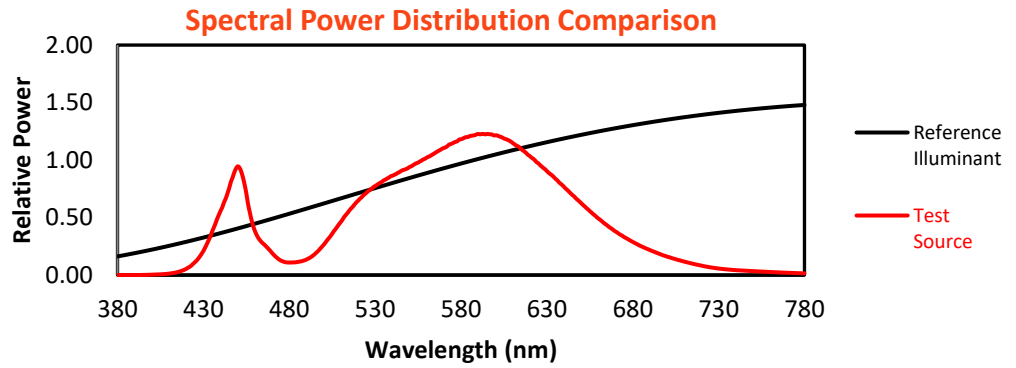
Melanopic Lumens: NR

M/P: 2.4

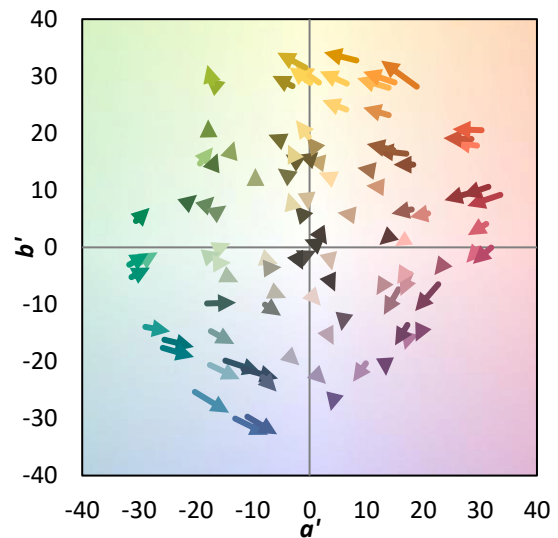
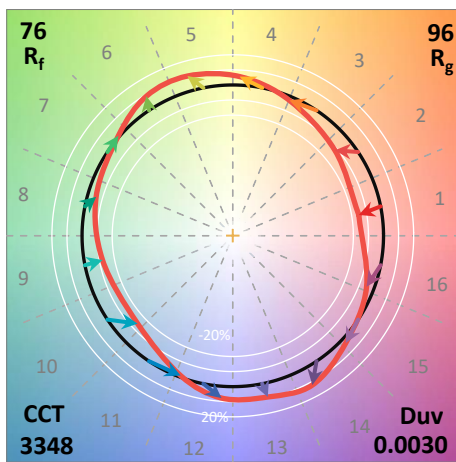
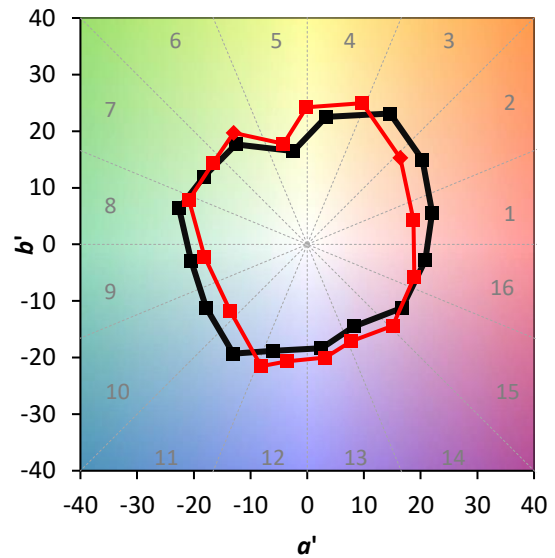
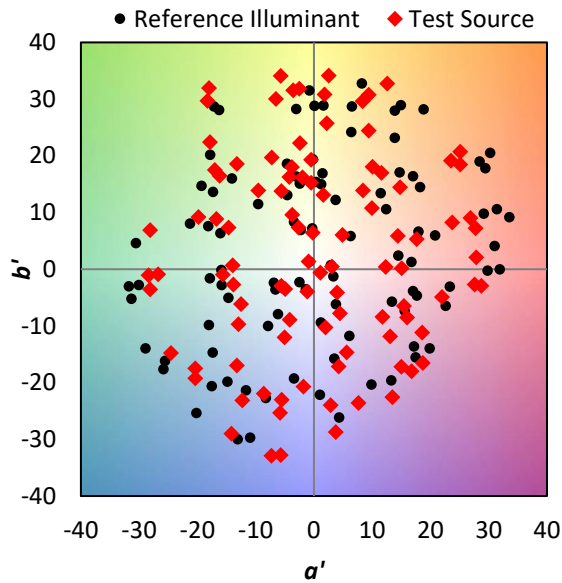
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	110	NR	620	844	NR	750	28	NR	880	0	NR
365	0	NR	495	150	NR	625	792	NR	755	25	NR	885	0	NR
370	0	NR	500	214	NR	630	737	NR	760	22	NR	890	0	NR
375	0	NR	505	293	NR	635	683	NR	765	19	NR	895	0	NR
380	0	NR	510	376	NR	640	625	NR	770	16	NR	900	0	NR
385	0	NR	515	458	NR	645	566	NR	775	14	NR	905	0	NR
390	0	NR	520	526	NR	650	509	NR	780	12	NR	910	0	NR
395	1	NR	525	584	NR	655	453	NR	785	10	NR	915	0	NR
400	3	NR	530	631	NR	660	401	NR	790	9	NR	920	0	NR
405	5	NR	535	671	NR	665	353	NR	795	8	NR	925	0	NR
410	10	NR	540	704	NR	670	308	NR	800	7	NR	930	0	NR
415	21	NR	545	737	NR	675	269	NR	805	6	NR	935	0	NR
420	44	NR	550	766	NR	680	235	NR	810	5	NR	940	0	NR
425	90	NR	555	797	NR	685	204	NR	815	4	NR	945	0	NR
430	171	NR	560	832	NR	690	177	NR	820	4	NR	950	0	NR
435	305	NR	565	866	NR	695	152	NR	825	3	NR	955	0	NR
440	455	NR	570	901	NR	700	131	NR	830	3	NR	960	0	NR
445	615	NR	575	933	NR	705	112	NR	835	3	NR	965	0	NR
450	771	NR	580	963	NR	710	96	NR	840	2	NR	970	0	NR
455	579	NR	585	984	NR	715	80	NR	845	2	NR	975	0	NR
460	313	NR	590	1000	NR	720	67	NR	850	2	NR	980	0	NR
465	221	NR	595	999	NR	725	55	NR	855	1	NR	985	0	NR
470	156	NR	600	990	NR	730	46	NR	860	1	NR	990	0	NR
475	103	NR	605	968	NR	735	40	NR	865	1	NR	995	0	NR
480	89	NR	610	937	NR	740	35	NR	870	1	NR	1000	0	NR
485	93	NR	615	893	NR	745	31	NR	875	1	NR			

Summary

$R_f = 75.8$
 $R_g = 95.8$
 $CIE R_a = 73.4$
 $R_9 = -19.2$

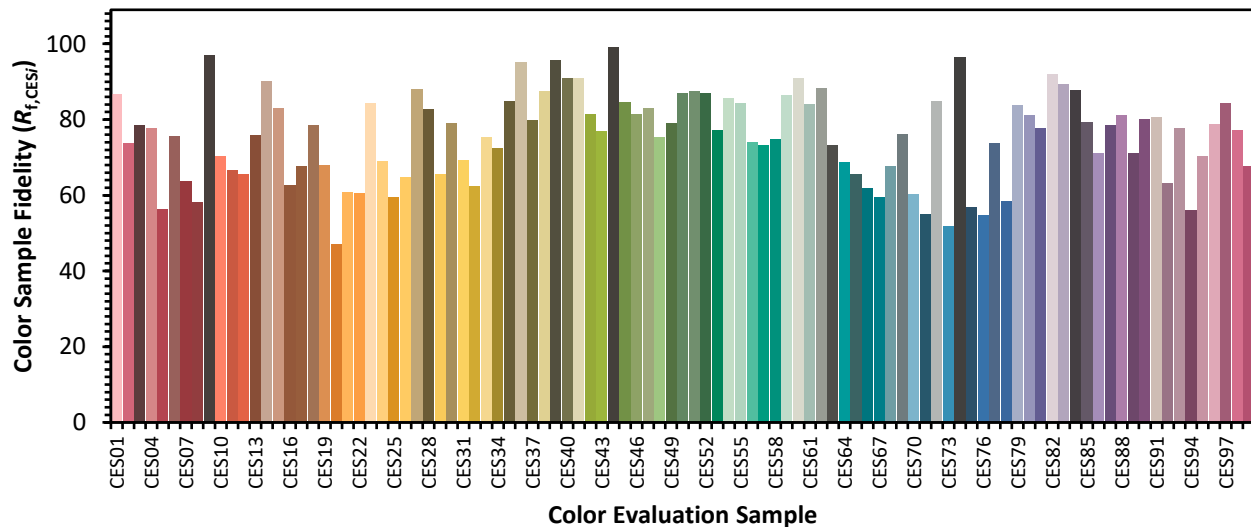


Color Vector Graphics

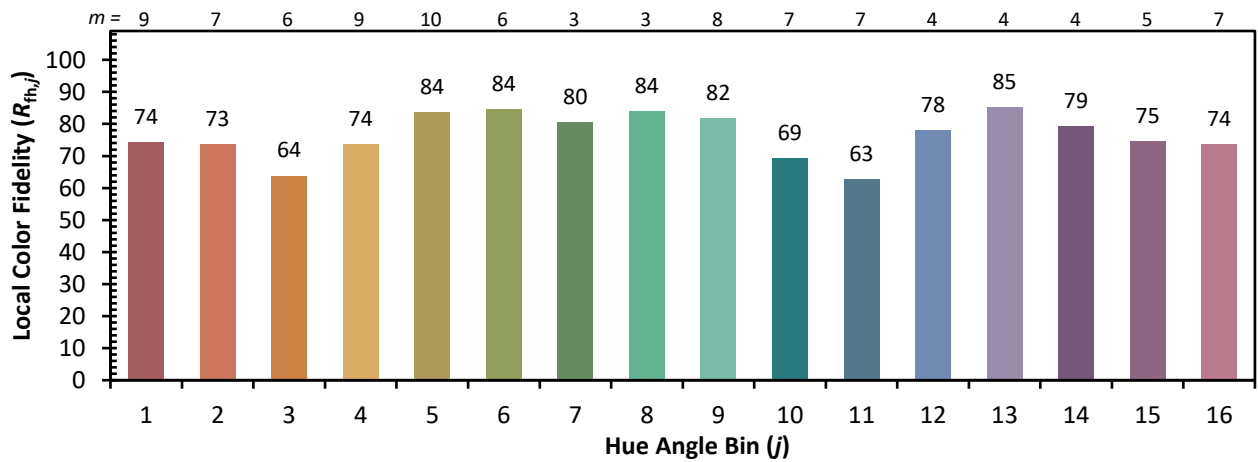
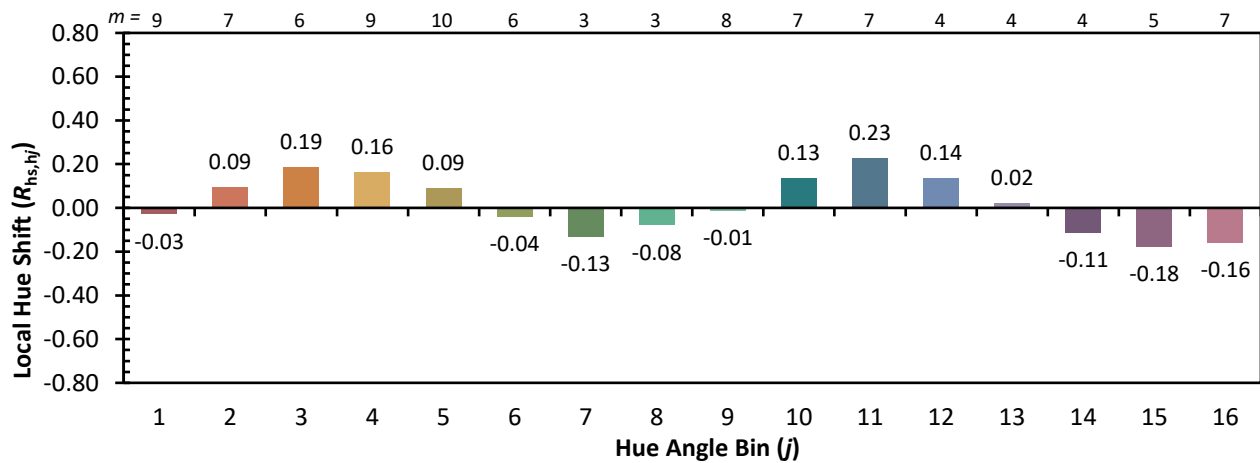
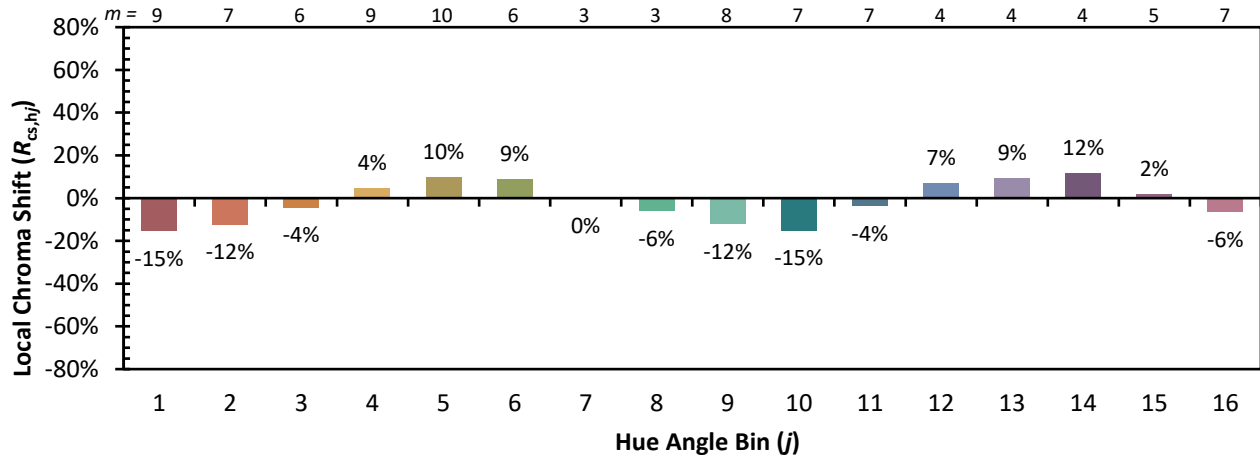


Individual Sample Fidelity Index ($R_{f,i}$)

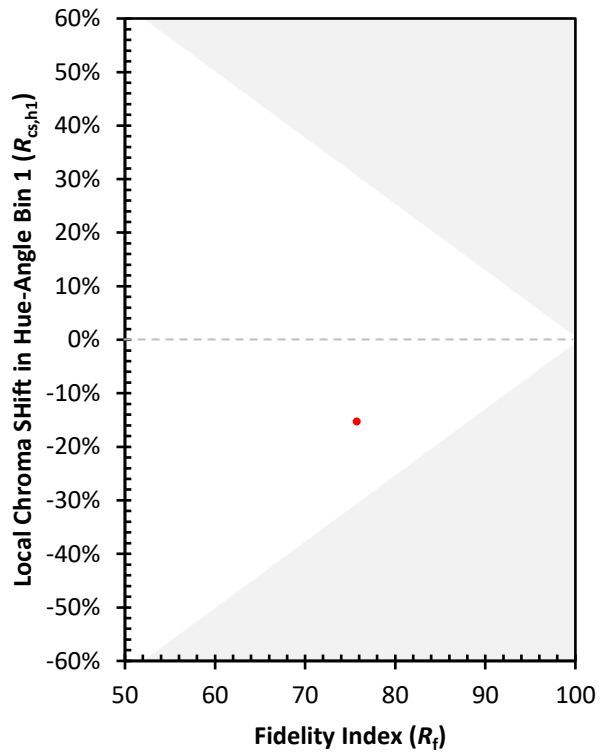
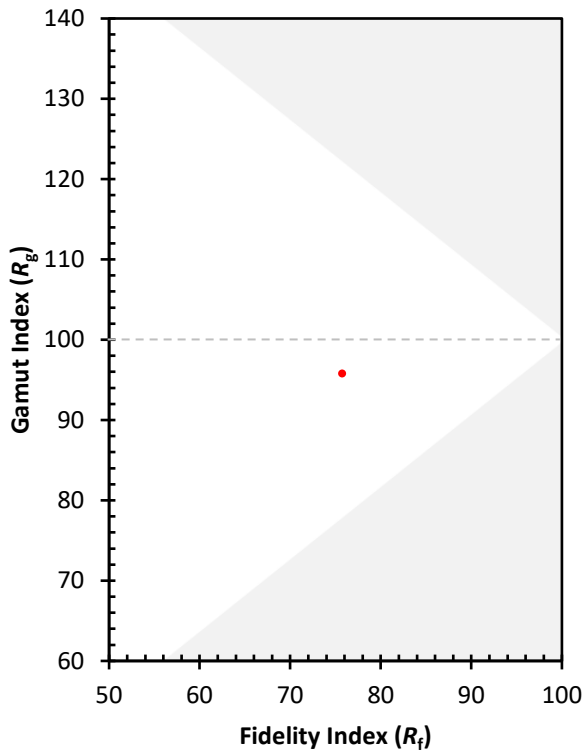
CES01 = 86	CES26 = 65	CES51 = 88	CES76 = 55
CES02 = 62	CES27 = 88	CES52 = 87	CES77 = 74
CES03 = 31	CES28 = 83	CES53 = 77	CES78 = 58
CES04 = 70	CES29 = 66	CES54 = 86	CES79 = 84
CES05 = 48	CES30 = 79	CES55 = 84	CES80 = 81
CES06 = 51	CES31 = 69	CES56 = 74	CES81 = 78
CES07 = 41	CES32 = 62	CES57 = 73	CES82 = 92
CES08 = 40	CES33 = 75	CES58 = 75	CES83 = 89
CES09 = 29	CES34 = 73	CES59 = 87	CES84 = 88
CES10 = 75	CES35 = 85	CES60 = 91	CES85 = 79
CES11 = 58	CES36 = 95	CES61 = 84	CES86 = 71
CES12 = 64	CES37 = 80	CES62 = 88	CES87 = 79
CES13 = 43	CES38 = 88	CES63 = 73	CES88 = 81
CES14 = 74	CES39 = 96	CES64 = 69	CES89 = 71
CES15 = 71	CES40 = 91	CES65 = 66	CES90 = 80
CES16 = 47	CES41 = 91	CES66 = 62	CES91 = 81
CES17 = 50	CES42 = 81	CES67 = 60	CES92 = 63
CES18 = 56	CES43 = 77	CES68 = 68	CES93 = 78
CES19 = 72	CES44 = 99	CES69 = 76	CES94 = 56
CES20 = 65	CES45 = 85	CES70 = 60	CES95 = 70
CES21 = 87	CES46 = 82	CES71 = 55	CES96 = 79
CES22 = 79	CES47 = 83	CES72 = 85	CES97 = 84
CES23 = 92	CES48 = 75	CES73 = 52	CES98 = 77
CES24 = 91	CES49 = 79	CES74 = 96	CES99 = 68
CES25 = 72	CES50 = 87	CES75 = 57	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)