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: P870350

Luminaire Tested: **MEM2-HSN-SA-60-840-U-T2U-HSS**

Issue Date: 09/05/2024

Report Generated By 670245763

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P870350
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	09/05/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	MEM2-HSN-SA-60-840-U-T2U-HSS
Description:	EPIC MODERN SHORT HOUSING DISCRETE LED ARRAYS 60W 80CRI 4000K FIXTURE w/ TYPE II URBAN DISTRIBUTION OPTIC AND HOUSE SIDE SHIELD
Light Source:	(20) 4000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6010.5 lumens
Efficiency:	N/A
Efficacy:	98.5 lumens/watt
Luminous Opening:	Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G1

Input Watts (W):	61
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	9.89%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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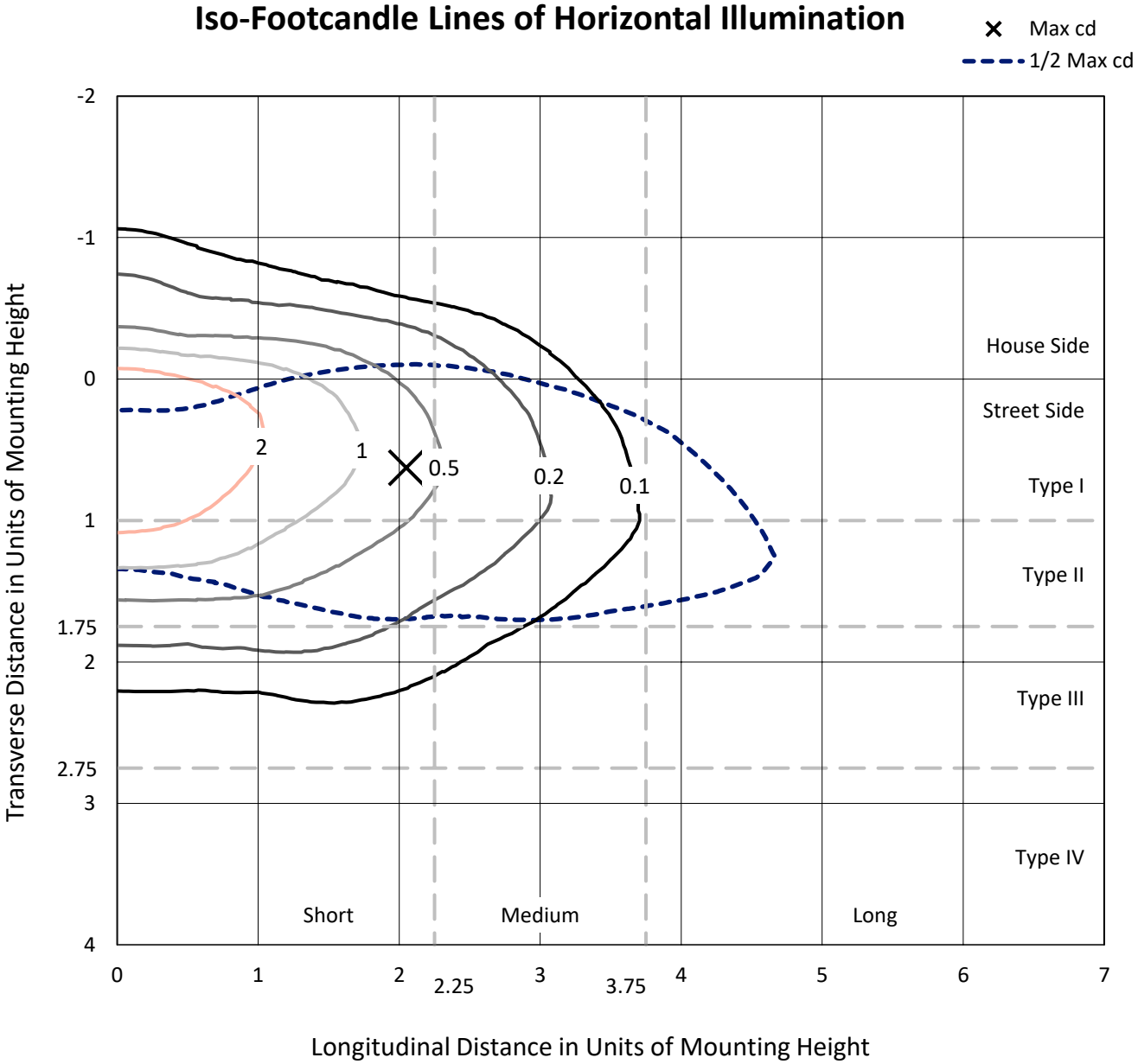
REPORT NUMBER: P870350
CATALOG NUMBER: MEM2-HSN-SA-60-840-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 4.3 fc
Type II - Short - N/A

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REPORT NUMBER: P870350
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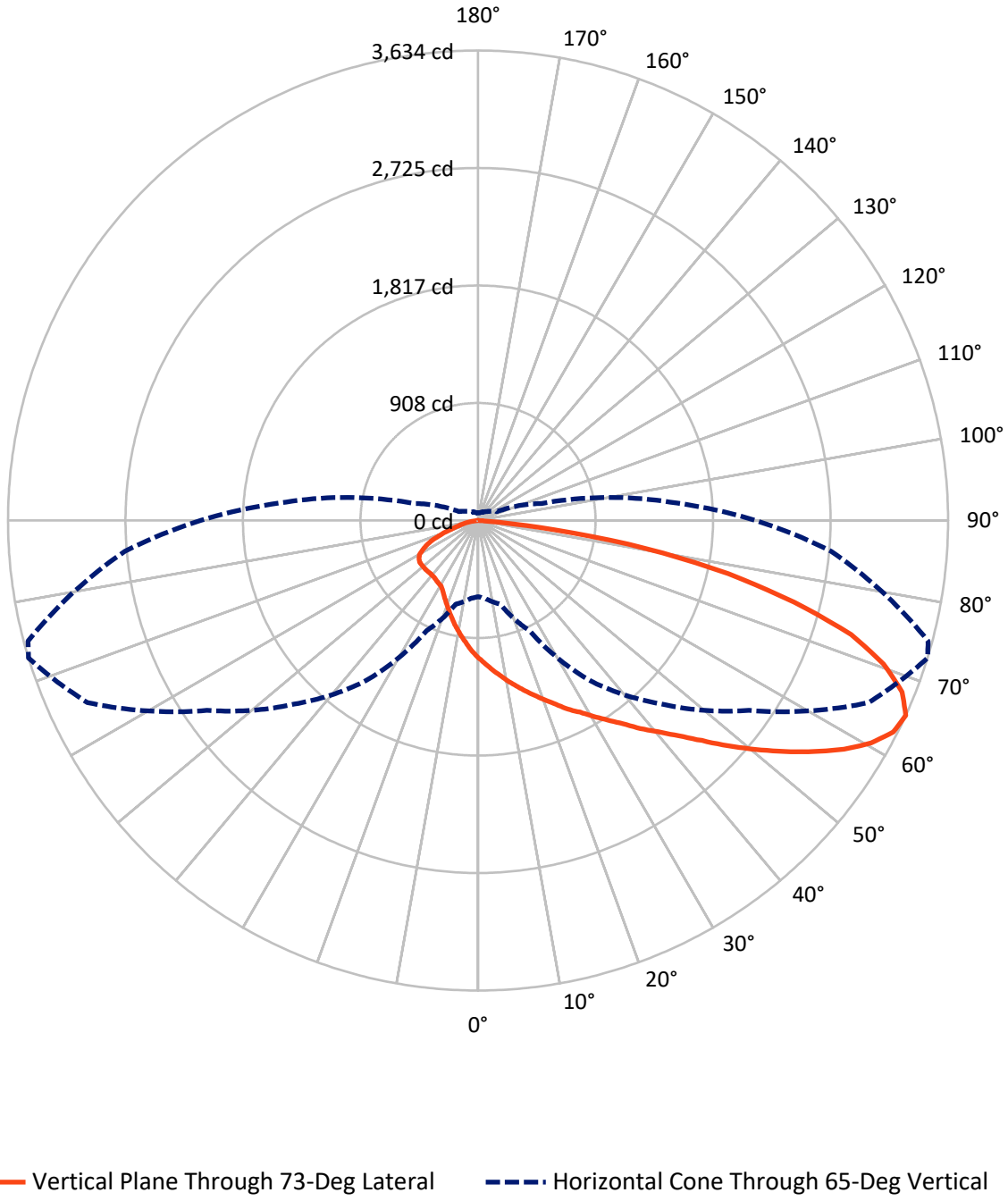
Luminous Intensity Polar Plot



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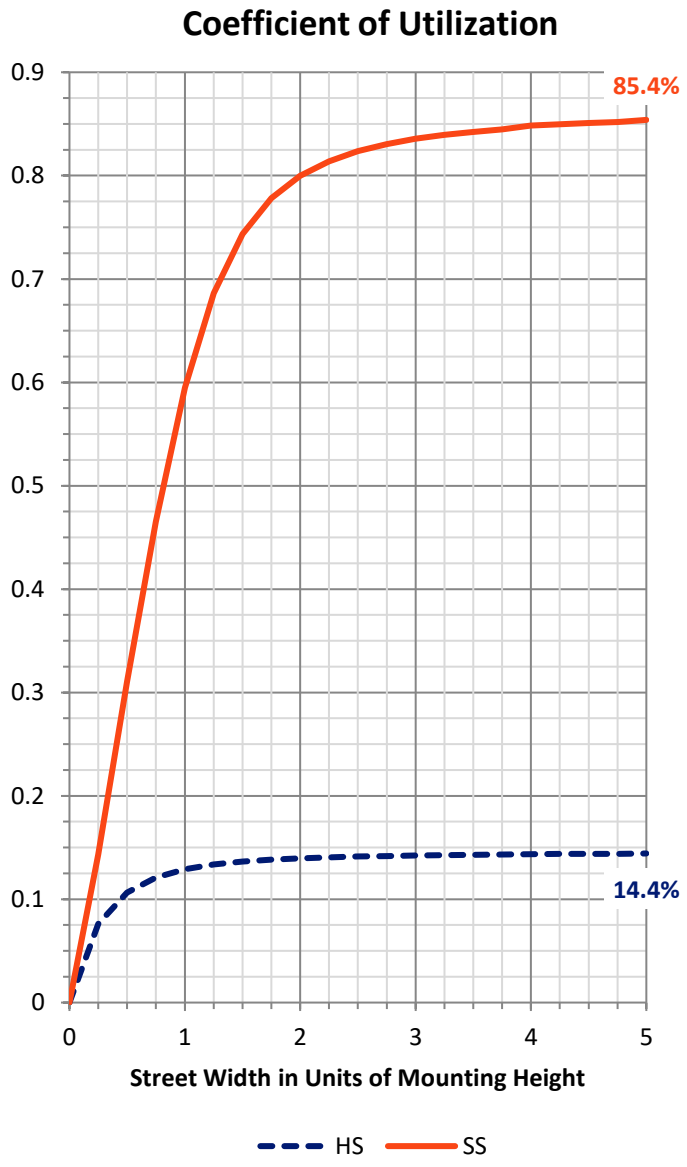
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	874.0	0.0	874.0
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	5136.5	0.0	5136.5
	% Fixture	85.5	0.0	85.5
Total	Lumens	6010.5	0.0	6010.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.9	1.7
10°-20°	312.8	5.2
20°-30°	523.9	8.7
30°-40°	790.2	13.1
40°-50°	1116.6	18.6
50°-60°	1256.4	20.9
60°-70°	1126.6	18.7
70°-80°	685.2	11.4
80°-90°	95.9	1.6
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°	6010.5	100.0
0°-180°	6010.5	100.0



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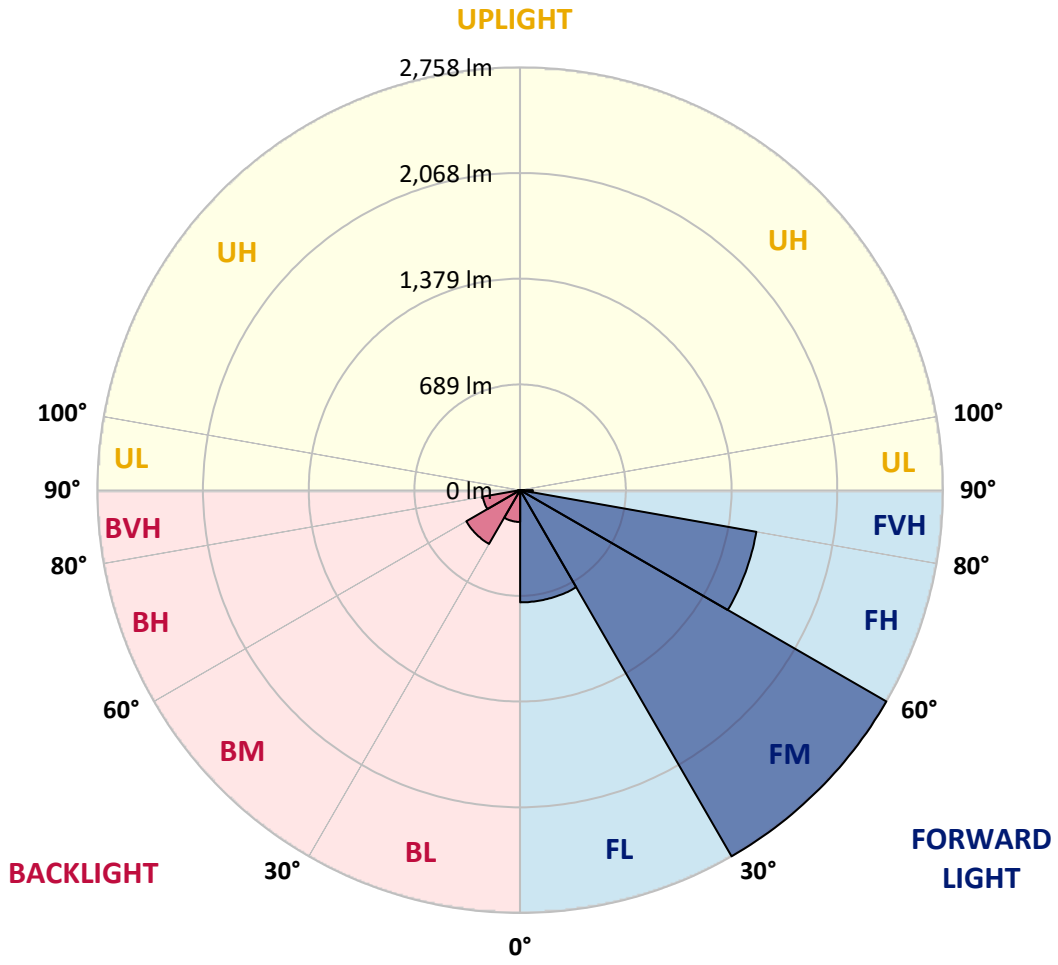
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	731.9	12.2			
FM	(30°-60°)	2757.9	45.9			
FH	(60°-80°)	1564.3	26.0			G1/1800
FVH	(80°-90°)	82.4	1.4			G1/100
BL	(0°-30°)	207.6	3.5	B1/500		
BM	(30°-60°)	405.3	6.7	B1/1000		
BH	(60°-80°)	247.6	4.1	B1/500		G1/500
BVH	(80°-90°)	13.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
Type II Short



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REPORT NUMBER: P870350
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1066.3	1066.3	1066.3	1066.3	1066.3	1066.3	1066.3	1066.3	*1066.3*	1066.3	1066.3
2.5°	1230.7	1223.6	1213.0	1204.2	1188.3	1167.1	1149.4	1126.4	*1110.5*	1105.2	1082.2
5°	1409.3	1400.5	1388.1	1366.9	1324.4	1299.7	1253.7	1200.7	*1158.2*	1149.4	1096.3
7.5°	1593.2	1589.7	1561.4	1529.6	1478.3	1423.5	1352.7	1269.6	*1207.7*	1193.6	1112.2
10°	1748.8	1732.9	1717.0	1686.9	1632.1	1554.3	1462.4	1347.4	*1260.8*	1237.8	1128.2
12.5°	1842.5	1837.2	1823.1	1787.7	1734.7	1667.5	1557.9	1423.5	*1312.1*	1280.2	1144.1
15°	1911.5	1916.8	1902.7	1879.7	1824.9	1761.2	1655.1	1503.0	*1366.9*	1329.7	1161.8
17.5°	1976.9	1973.4	1971.6	1945.1	1895.6	1831.9	1724.1	1568.5	*1421.7*	1381.0	1179.4
20°	2014.1	2015.8	2012.3	2001.7	1953.9	1892.1	1791.3	1646.3	*1481.8*	1435.8	1202.4
22.5°	2033.5	2040.6	2047.7	2045.9	2007.0	1959.3	1854.9	1708.2	*1543.7*	1496.0	1230.7
25°	2045.9	2051.2	2067.1	2088.3	2053.0	2014.1	1925.7	1782.4	*1616.2*	1561.4	1264.3
27.5°	2056.5	2063.6	2083.0	2114.9	2086.6	2063.6	1987.5	1846.1	*1678.1*	1628.6	1303.2
30°	2125.5	2134.3	2134.3	2150.2	2118.4	2113.1	2056.5	1922.1	*1755.9*	1702.9	1352.7
32.5°	2307.6	2289.9	2258.1	2242.2	2166.1	2167.9	2123.7	1998.2	*1839.0*	1786.0	1414.6
35°	2465.0	2465.0	2426.1	2374.8	2252.8	2228.0	2201.5	2098.9	*1929.2*	1877.9	1496.0
37.5°	2617.1	2618.8	2578.1	2533.9	2394.2	2305.8	2291.7	2196.2	*2040.6*	1980.5	1580.8
40°	2712.5	2723.1	2712.5	2678.9	2544.6	2442.0	2380.1	2305.8	*2146.7*	2100.7	1678.1
42.5°	2728.5	2749.7	2788.6	2799.2	2654.2	2564.0	2493.3	2419.0	*2274.0*	2222.7	1789.5
45°	2687.8	2694.9	2781.5	2793.9	2735.5	2661.3	2613.5	2551.6	*2426.1*	2381.9	1913.3
47.5°	2576.4	2562.2	2592.3	2700.2	2723.1	2719.6	2732.0	2701.9	*2602.9*	2546.3	2049.4
50°	2337.7	2343.0	2440.2	2571.1	2650.6	2740.8	2820.4	2854.0	*2781.5*	2724.9	2196.2
52.5°	1902.7	1927.4	2113.1	2422.5	2560.5	2726.7	2884.1	2997.2	*2967.2*	2912.4	2341.2
55°	1563.2	1600.3	1786.0	2183.8	2436.7	2657.7	2921.2	3147.5	*3152.8*	3110.4	2473.8
57.5°	1223.6	1253.7	1450.0	1814.3	2259.9	2549.9	2926.5	3276.6	*3336.7*	3287.2	2590.5
60°	958.4	979.6	1094.6	1511.9	2042.4	2396.0	2887.6	3379.2	*3492.3*	3455.2	2691.3
62.5°	726.8	742.7	845.2	1195.4	1775.4	2215.7	2756.7	3416.3	*3602.0*	3566.6	2747.9
65°	*588.8*	*603.0*	*670.2*	*939.0*	*1511.9*	*2007.0*	*2558.7*	*3331.4*	*3633.8*	*3602.0*	*2740.8*
67.5°	481.0	486.3	541.1	732.1	1278.5	1771.8	2268.7	3110.4	*3536.6*	3534.8	2659.5
70°	389.0	403.2	449.1	583.5	1062.7	1501.3	1931.0	2763.8	*3326.1*	3343.8	2496.8
72.5°	330.7	334.2	374.9	482.7	866.5	1218.3	1598.5	2364.2	*3016.7*	3030.8	2242.2
75°	279.4	284.7	314.8	390.8	703.8	967.2	1285.5	1909.7	*2525.1*	2585.2	1888.5
77.5°	240.5	242.3	263.5	321.8	500.4	726.8	942.5	1432.3	*1976.9*	2019.4	1483.6
80°	189.2	192.7	215.7	254.6	348.4	472.1	650.7	979.6	*1320.9*	1368.6	1027.4
82.5°	88.4	99.0	104.3	139.7	182.1	233.4	307.7	408.5	*597.7*	595.9	479.2
85°	8.8	7.1	7.1	10.6	15.9	15.9	19.5	23.0	*46.0*	54.8	42.4
87.5°	0.0	0.0	0.0	1.8	3.5	3.5	3.5	5.3	*5.3*	5.3	5.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0

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Scaled Data Report

REPORT NUMBER: P870350
CATALOG NUMBER: MEM2-HSN-SA-60-840-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1066.3	1066.3	1066.3	1066.3	1066.3	1066.3	1066.3	1066.3	1066.3	1066.3	1066.3
2.5°	1071.6	1055.7	1027.4	1000.8	983.2	969.0	946.0	931.9	921.3	907.1	905.4
5°	1068.0	1039.7	983.2	935.4	889.4	850.5	809.9	785.1	758.6	746.2	756.8
7.5°	1071.6	1025.6	937.2	864.7	795.7	733.8	680.8	647.2	622.4	610.1	611.8
10°	1073.3	1013.2	898.3	797.5	709.1	636.6	576.5	530.5	500.4	493.3	484.5
12.5°	1069.8	997.3	859.4	732.1	626.0	546.4	475.7	440.3	410.2	396.1	396.1
15°	1073.3	984.9	818.7	671.9	551.7	459.8	399.6	360.7	343.0	330.7	332.4
17.5°	1073.3	974.3	779.8	613.6	479.2	394.3	339.5	307.7	290.0	282.9	281.2
20°	1085.7	965.5	742.7	558.8	415.5	336.0	291.8	267.0	252.9	245.8	242.3
22.5°	1094.6	958.4	709.1	505.7	362.5	293.5	256.4	233.4	222.8	219.3	219.3
25°	1110.5	956.6	679.0	454.4	320.1	261.7	228.1	210.4	201.6	198.0	198.0
27.5°	1133.5	960.2	650.7	410.2	288.2	229.9	205.1	191.0	185.7	183.9	182.1
30°	1167.1	976.1	633.0	376.6	258.2	210.4	187.4	178.6	175.1	173.3	173.3
32.5°	1211.3	1004.4	626.0	359.0	240.5	194.5	175.1	168.0	164.4	164.4	162.7
35°	1266.1	1036.2	620.7	343.0	228.1	183.9	166.2	159.1	157.4	157.4	157.4
37.5°	1331.5	1069.8	611.8	332.4	221.0	175.1	159.1	152.1	152.1	152.1	152.1
40°	1404.0	1119.3	610.1	325.4	215.7	169.8	152.1	145.0	145.0	145.0	145.0
42.5°	1485.4	1172.4	608.3	320.1	212.2	166.2	145.0	137.9	137.9	137.9	137.9
45°	1584.4	1239.6	611.8	316.5	212.2	162.7	139.7	130.9	129.1	129.1	129.1
47.5°	1681.6	1303.2	615.4	313.0	208.7	157.4	132.6	123.8	122.0	120.2	120.2
50°	1786.0	1368.6	615.4	309.4	205.1	152.1	127.3	114.9	113.2	111.4	111.4
52.5°	1888.5	1423.5	617.1	304.1	196.3	143.2	118.5	107.9	104.3	102.6	100.8
55°	1987.5	1481.8	618.9	295.3	185.7	134.4	113.2	100.8	95.5	92.0	92.0
57.5°	2061.8	1529.6	610.1	277.6	171.5	125.5	104.3	92.0	84.9	81.3	81.3
60°	2132.5	1559.6	594.1	251.1	157.4	116.7	97.3	83.1	76.0	72.5	72.5
62.5°	2160.8	1564.9	557.0	205.1	139.7	107.9	88.4	76.0	70.7	69.0	69.0
65°	*2144.9*	*1541.9*	*507.5*	*162.7*	*123.8*	*97.3*	*81.3*	*70.7*	*63.7*	*58.4*	*58.4*
67.5°	2058.3	1462.4	440.3	129.1	107.9	88.4	74.3	63.7	56.6	51.3	51.3
70°	1893.8	1335.0	343.0	102.6	93.7	77.8	67.2	58.4	51.3	46.0	46.0
72.5°	1651.6	1158.2	249.3	86.6	81.3	69.0	60.1	53.0	46.0	42.4	42.4
75°	1361.6	893.0	176.8	74.3	72.5	61.9	54.8	47.7	42.4	38.9	38.9
77.5°	1022.1	622.4	137.9	65.4	63.7	56.6	49.5	44.2	38.9	37.1	35.4
80°	680.8	385.5	104.3	49.5	47.7	44.2	40.7	37.1	31.8	28.3	28.3
82.5°	304.1	162.7	53.0	28.3	24.8	21.2	17.7	12.4	12.4	10.6	10.6
85°	31.8	21.2	10.6	7.1	7.1	5.3	5.3	5.3	3.5	3.5	3.5
87.5°	5.3	5.3	3.5	3.5	3.5	1.8	1.8	1.8	1.8	1.8	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2407-157-8

Test Date: 09/05/2024

Luminaire Tested: MEM2-HTN-SA-30-840-U-5WQ

Data in this report applies to families of products including MEM2-HTN-SA-30-840-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

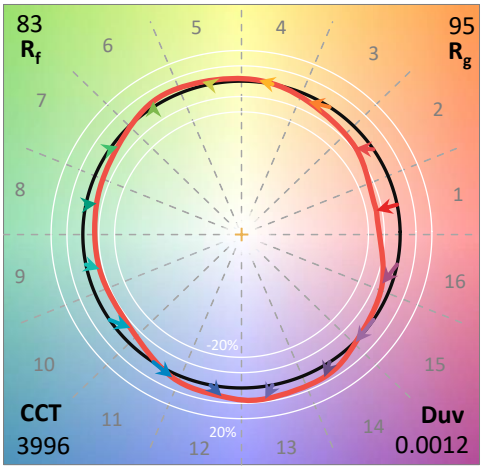
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-157-8
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	09/05/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**MEM2-HTN-SA-30-840-U-5WQ**
Description:	Epic Modern Light Square 30W 5WQ Optic

Spectral Parameters

CCT (K):	3996
CIE u':	0.2245
CIE v':	0.5031
Duv:	0.0012
CIE x:	0.3815
CIE y:	0.3799
CIE z:	0.2386
Peak Wavelength (nm):	449
Dominant Wavelength (nm):	578
Purity:	28.49233
Rf:	82.6
Rg:	95.1

CRI (Ra):	80.6
R1:	78.1
R2:	87.1
R3:	94.5
R4:	79.7
R5:	78.7
R6:	82.7
R7:	84.3
R8:	59.5
R9:	-5.8
R10:	70.3
R11:	78.7
R12:	60.5
R13:	80.2
R14:	97.2
R15:	70.6



Test Conditions

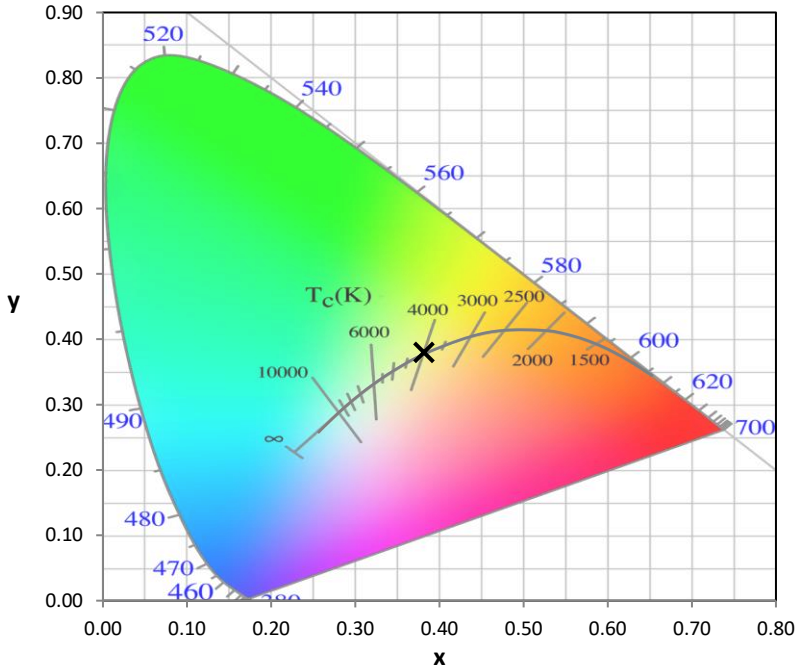
Stabilization Time:	29M
Operation Time:	1H 29M
Sphere Temperature (°C):	24.3

REPORT NUMBER: SP1-2407-157-8

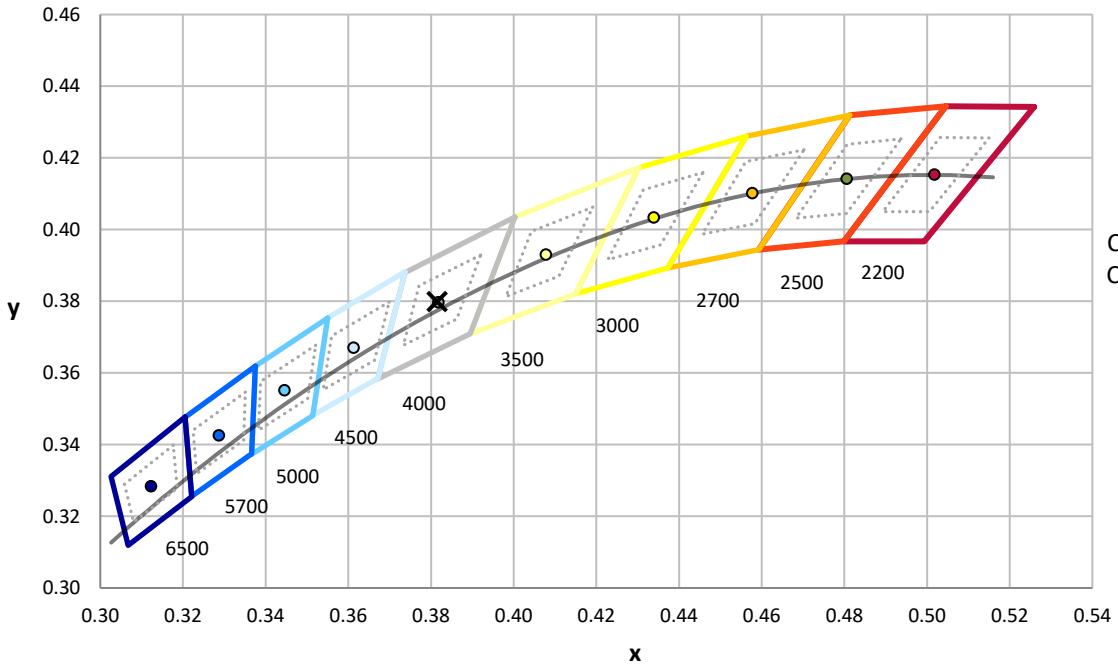
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-157-8

CIE 1931 Chromaticity Diagram



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

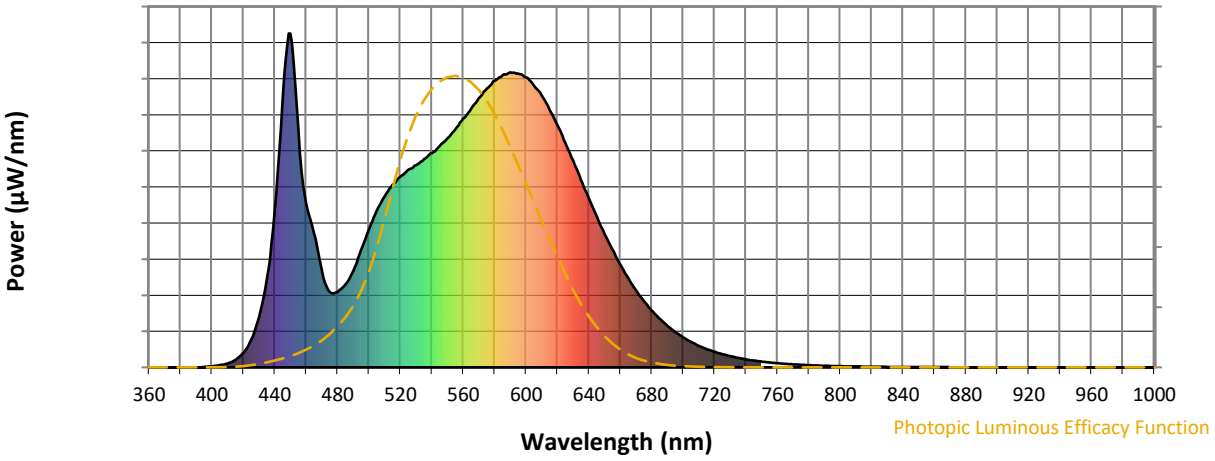


CCT = 3996K
CIE x = 0.3815
CIE y = 0.3799
Duv = 0.0012

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-157-8

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	289	NR	620	725	NR	750	17	NR	880	0	NR
365	0	NR	495	351	NR	625	673	NR	755	15	NR	885	0	NR
370	0	NR	500	414	NR	630	619	NR	760	13	NR	890	0	NR
375	0	NR	505	470	NR	635	562	NR	765	11	NR	895	0	NR
380	0	NR	510	513	NR	640	506	NR	770	9	NR	900	0	NR
385	0	NR	515	546	NR	645	452	NR	775	8	NR	905	0	NR
390	0	NR	520	571	NR	650	400	NR	780	7	NR	910	0	NR
395	1	NR	525	592	NR	655	352	NR	785	6	NR	915	0	NR
400	3	NR	530	606	NR	660	307	NR	790	5	NR	920	0	NR
405	6	NR	535	624	NR	665	267	NR	795	4	NR	925	0	NR
410	12	NR	540	642	NR	670	231	NR	800	4	NR	930	0	NR
415	22	NR	545	663	NR	675	199	NR	805	3	NR	935	0	NR
420	44	NR	550	686	NR	680	171	NR	810	3	NR	940	0	NR
425	83	NR	555	713	NR	685	146	NR	815	2	NR	945	0	NR
430	150	NR	560	745	NR	690	125	NR	820	2	NR	950	0	NR
435	267	NR	565	774	NR	695	106	NR	825	2	NR	955	0	NR
440	466	NR	570	806	NR	700	90	NR	830	1	NR	960	0	NR
445	804	NR	575	835	NR	705	76	NR	835	1	NR	965	0	NR
450	1000	NR	580	858	NR	710	65	NR	840	1	NR	970	0	NR
455	715	NR	585	875	NR	715	55	NR	845	1	NR	975	0	NR
460	492	NR	590	884	NR	720	47	NR	850	1	NR	980	0	NR
465	402	NR	595	880	NR	725	40	NR	855	1	NR	985	0	NR
470	288	NR	600	868	NR	730	34	NR	860	1	NR	990	0	NR
475	226	NR	605	844	NR	735	28	NR	865	1	NR	995	0	NR
480	227	NR	610	814	NR	740	24	NR	870	0	NR	1000	0	NR
485	248	NR	615	771	NR	745	20	NR	875	0	NR			

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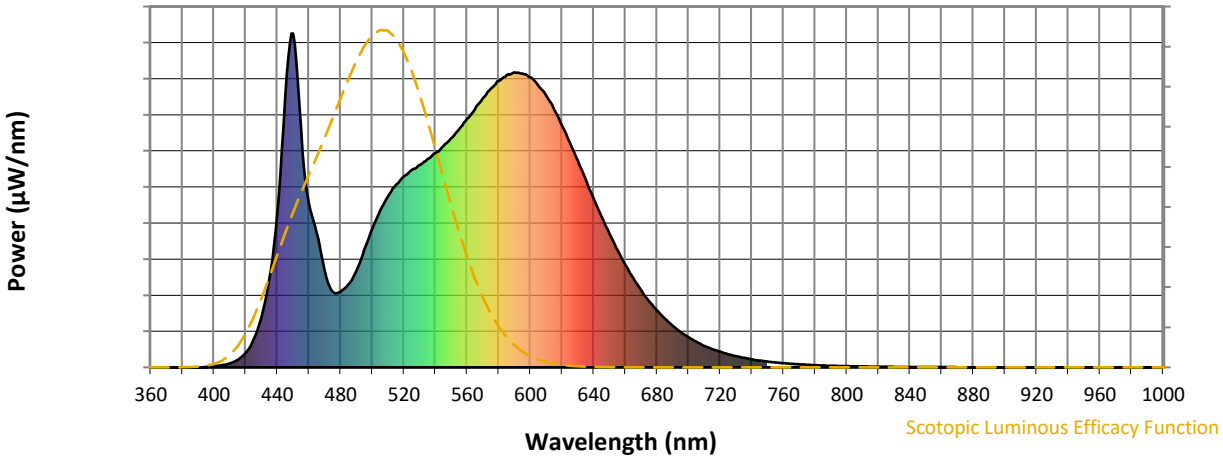
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.66**

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	289	NR	620	725	NR	750	17	NR	880	0	NR
365	0	NR	495	351	NR	625	673	NR	755	15	NR	885	0	NR
370	0	NR	500	414	NR	630	619	NR	760	13	NR	890	0	NR
375	0	NR	505	470	NR	635	562	NR	765	11	NR	895	0	NR
380	0	NR	510	513	NR	640	506	NR	770	9	NR	900	0	NR
385	0	NR	515	546	NR	645	452	NR	775	8	NR	905	0	NR
390	0	NR	520	571	NR	650	400	NR	780	7	NR	910	0	NR
395	1	NR	525	592	NR	655	352	NR	785	6	NR	915	0	NR
400	3	NR	530	606	NR	660	307	NR	790	5	NR	920	0	NR
405	6	NR	535	624	NR	665	267	NR	795	4	NR	925	0	NR
410	12	NR	540	642	NR	670	231	NR	800	4	NR	930	0	NR
415	22	NR	545	663	NR	675	199	NR	805	3	NR	935	0	NR
420	44	NR	550	686	NR	680	171	NR	810	3	NR	940	0	NR
425	83	NR	555	713	NR	685	146	NR	815	2	NR	945	0	NR
430	150	NR	560	745	NR	690	125	NR	820	2	NR	950	0	NR
435	267	NR	565	774	NR	695	106	NR	825	2	NR	955	0	NR
440	466	NR	570	806	NR	700	90	NR	830	1	NR	960	0	NR
445	804	NR	575	835	NR	705	76	NR	835	1	NR	965	0	NR
450	1000	NR	580	858	NR	710	65	NR	840	1	NR	970	0	NR
455	715	NR	585	875	NR	715	55	NR	845	1	NR	975	0	NR
460	492	NR	590	884	NR	720	47	NR	850	1	NR	980	0	NR
465	402	NR	595	880	NR	725	40	NR	855	1	NR	985	0	NR
470	288	NR	600	868	NR	730	34	NR	860	1	NR	990	0	NR
475	226	NR	605	844	NR	735	28	NR	865	1	NR	995	0	NR
480	227	NR	610	814	NR	740	24	NR	870	0	NR	1000	0	NR
485	248	NR	615	771	NR	745	20	NR	875	0	NR			

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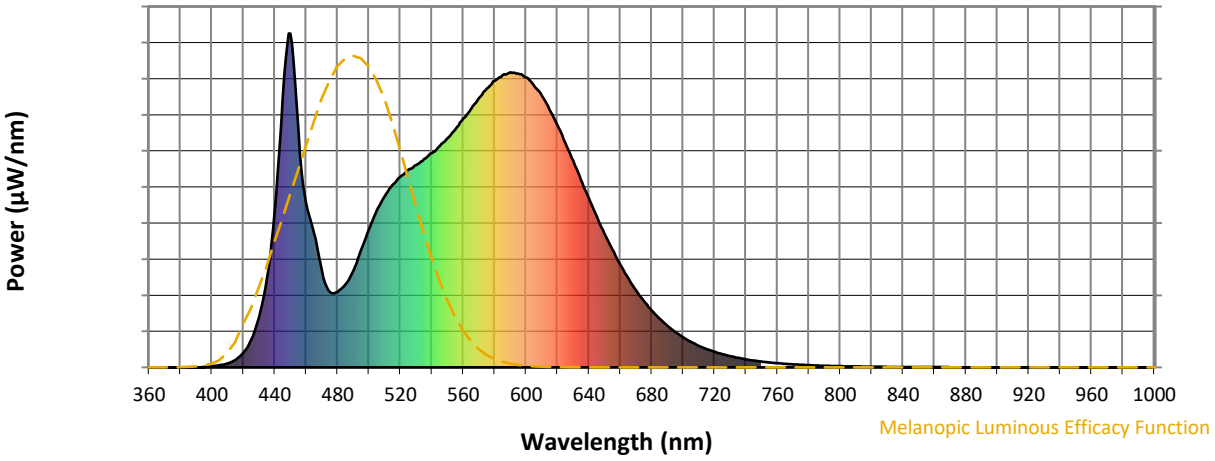
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.37**

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	289	NR	620	725	NR	750	17	NR	880	0	NR
365	0	NR	495	351	NR	625	673	NR	755	15	NR	885	0	NR
370	0	NR	500	414	NR	630	619	NR	760	13	NR	890	0	NR
375	0	NR	505	470	NR	635	562	NR	765	11	NR	895	0	NR
380	0	NR	510	513	NR	640	506	NR	770	9	NR	900	0	NR
385	0	NR	515	546	NR	645	452	NR	775	8	NR	905	0	NR
390	0	NR	520	571	NR	650	400	NR	780	7	NR	910	0	NR
395	1	NR	525	592	NR	655	352	NR	785	6	NR	915	0	NR
400	3	NR	530	606	NR	660	307	NR	790	5	NR	920	0	NR
405	6	NR	535	624	NR	665	267	NR	795	4	NR	925	0	NR
410	12	NR	540	642	NR	670	231	NR	800	4	NR	930	0	NR
415	22	NR	545	663	NR	675	199	NR	805	3	NR	935	0	NR
420	44	NR	550	686	NR	680	171	NR	810	3	NR	940	0	NR
425	83	NR	555	713	NR	685	146	NR	815	2	NR	945	0	NR
430	150	NR	560	745	NR	690	125	NR	820	2	NR	950	0	NR
435	267	NR	565	774	NR	695	106	NR	825	2	NR	955	0	NR
440	466	NR	570	806	NR	700	90	NR	830	1	NR	960	0	NR
445	804	NR	575	835	NR	705	76	NR	835	1	NR	965	0	NR
450	1000	NR	580	858	NR	710	65	NR	840	1	NR	970	0	NR
455	715	NR	585	875	NR	715	55	NR	845	1	NR	975	0	NR
460	492	NR	590	884	NR	720	47	NR	850	1	NR	980	0	NR
465	402	NR	595	880	NR	725	40	NR	855	1	NR	985	0	NR
470	288	NR	600	868	NR	730	34	NR	860	1	NR	990	0	NR
475	226	NR	605	844	NR	735	28	NR	865	1	NR	995	0	NR
480	227	NR	610	814	NR	740	24	NR	870	0	NR	1000	0	NR
485	248	NR	615	771	NR	745	20	NR	875	0	NR			

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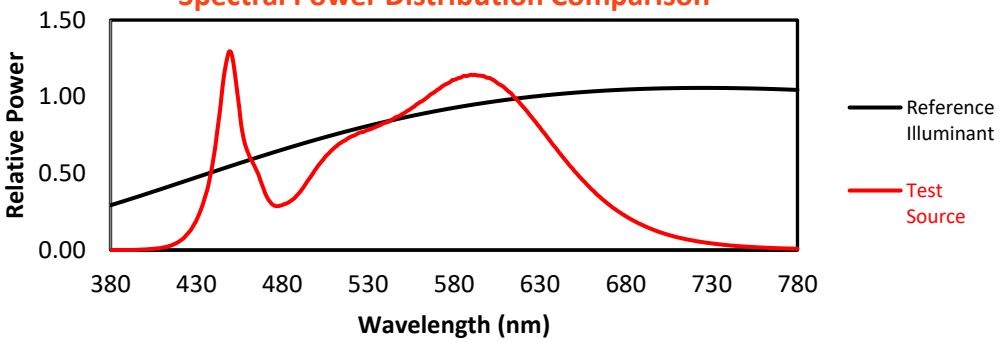
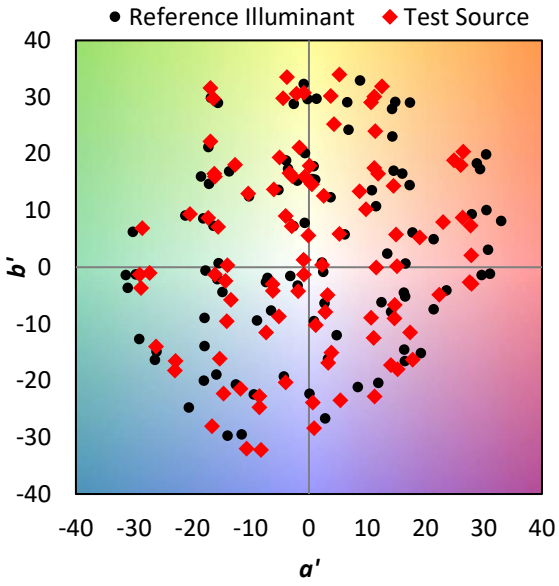
Summary

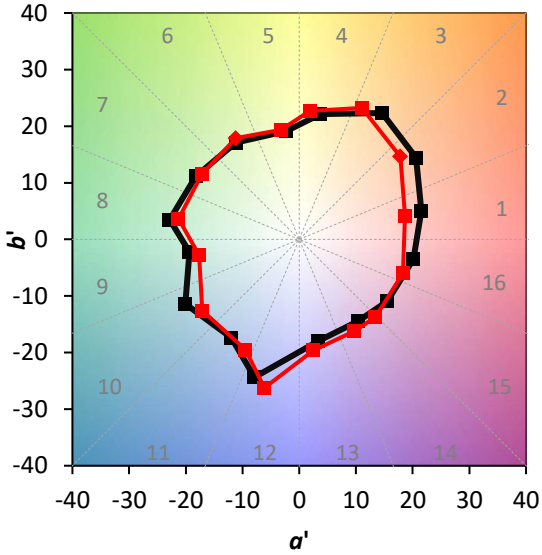
R_f = 82.6
R_g = 95.1
CIE R_a = 80.6
R_9 = -5.8

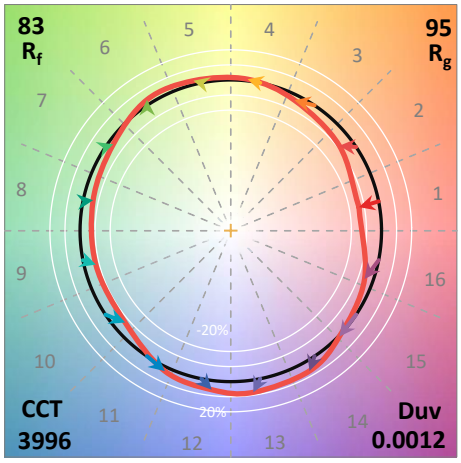
Spectral Power Distribution Comparison

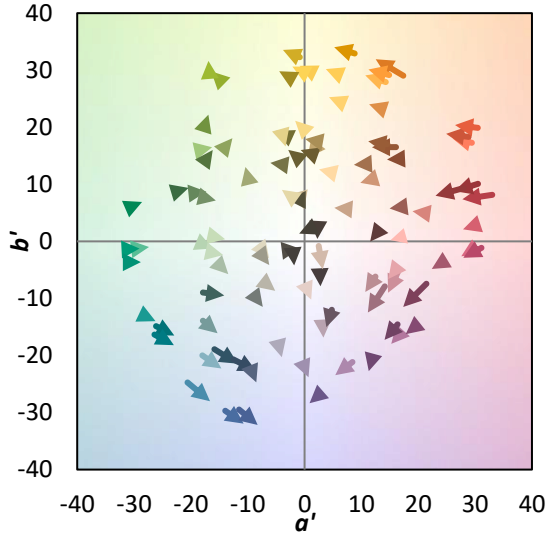


Color Vector Graphics









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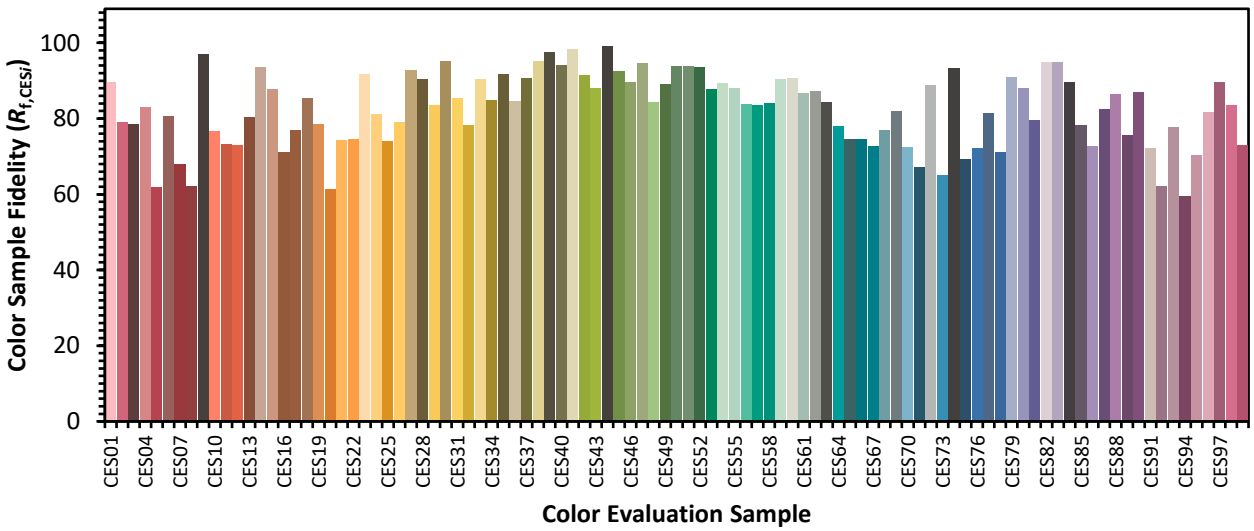
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 79	CES51 = 94	CES76 = 72
CES02 = 61	CES27 = 93	CES52 = 94	CES77 = 82
CES03 = 31	CES28 = 90	CES53 = 88	CES78 = 71
CES04 = 69	CES29 = 83	CES54 = 89	CES79 = 91
CES05 = 48	CES30 = 95	CES55 = 88	CES80 = 88
CES06 = 50	CES31 = 86	CES56 = 84	CES81 = 80
CES07 = 40	CES32 = 78	CES57 = 84	CES82 = 95
CES08 = 39	CES33 = 90	CES58 = 84	CES83 = 95
CES09 = 29	CES34 = 85	CES59 = 90	CES84 = 90
CES10 = 74	CES35 = 92	CES60 = 91	CES85 = 78
CES11 = 57	CES36 = 85	CES61 = 87	CES86 = 73
CES12 = 63	CES37 = 91	CES62 = 87	CES87 = 83
CES13 = 42	CES38 = 95	CES63 = 84	CES88 = 86
CES14 = 74	CES39 = 98	CES64 = 78	CES89 = 76
CES15 = 71	CES40 = 94	CES65 = 75	CES90 = 87
CES16 = 46	CES41 = 98	CES66 = 75	CES91 = 72
CES17 = 49	CES42 = 92	CES67 = 73	CES92 = 62
CES18 = 56	CES43 = 88	CES68 = 77	CES93 = 78
CES19 = 71	CES44 = 99	CES69 = 82	CES94 = 60
CES20 = 65	CES45 = 93	CES70 = 72	CES95 = 70
CES21 = 86	CES46 = 90	CES71 = 67	CES96 = 82
CES22 = 78	CES47 = 95	CES72 = 89	CES97 = 90
CES23 = 91	CES48 = 84	CES73 = 65	CES98 = 84
CES24 = 90	CES49 = 89	CES74 = 93	CES99 = 73
CES25 = 71	CES50 = 94	CES75 = 69	



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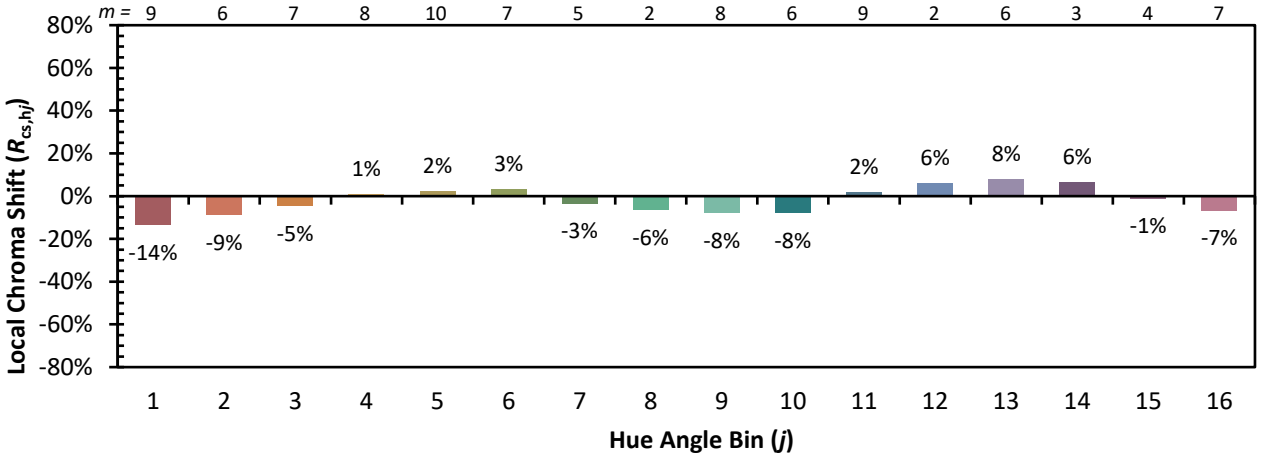
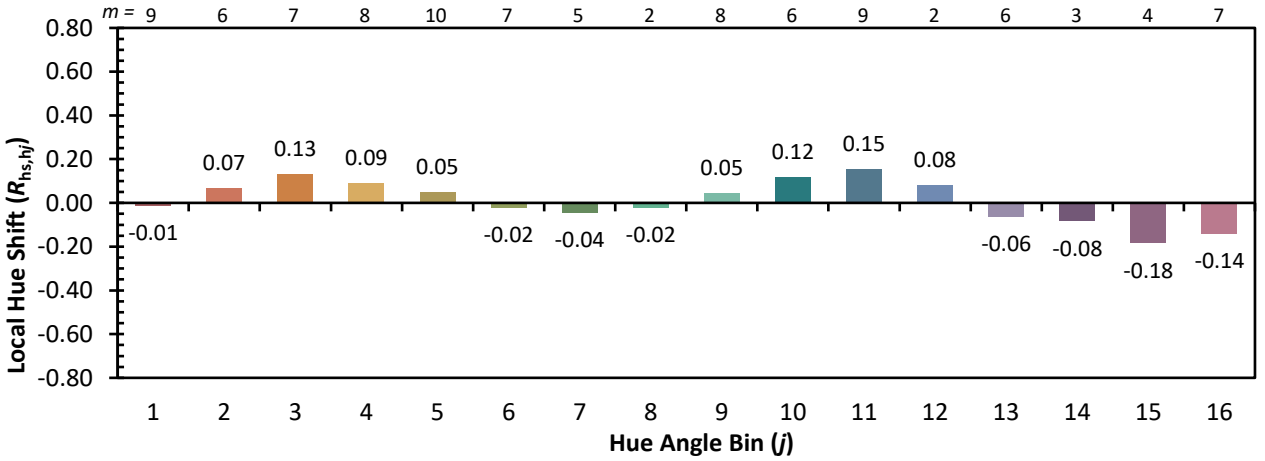
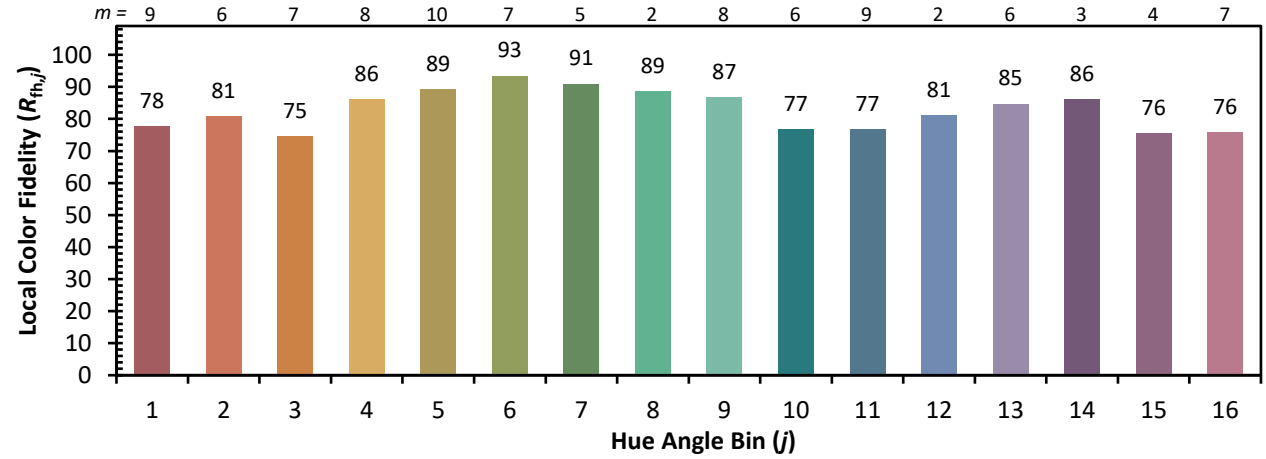
Color Rendition by Hue-Angle Bin







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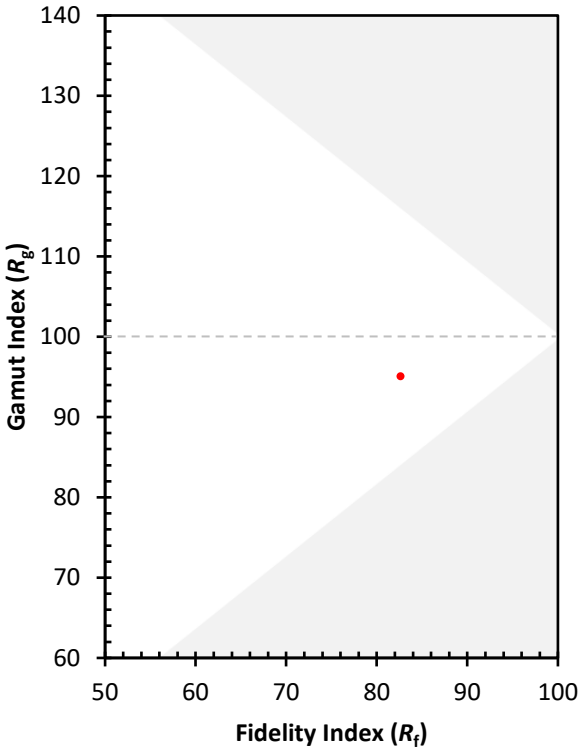
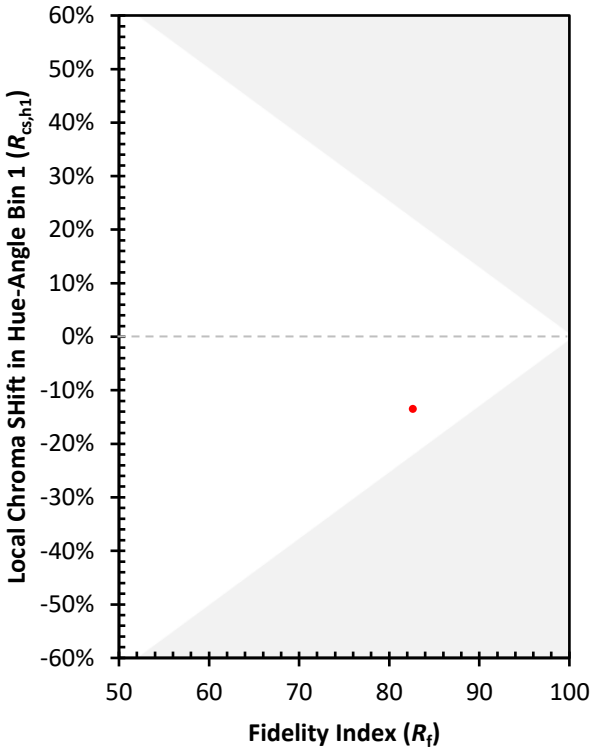
Measure Comparisons





(END OF REPORT)