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: P869028

Luminaire Tested: **EMM2-HSN-SA2A-740-U-T4W**

Issue Date: 08/22/2024

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:	P869028
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	08/22/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	INVUE
Catalog Number:	EMM2-HSN-SA2A-740-U-T4W
Description:	EPIC MODERN SHORT HOUSING DISCRETE LED ARRAYS 70W 70CRI 4000K FIXTURE w/ TYPE IV WIDE DISTRIBUTION OPTIC
Light Source:	(20) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	9204.5 lumens
Efficiency:	N/A
Efficacy:	150.9 lumens/watt
Luminous Opening:	Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U0 - G2

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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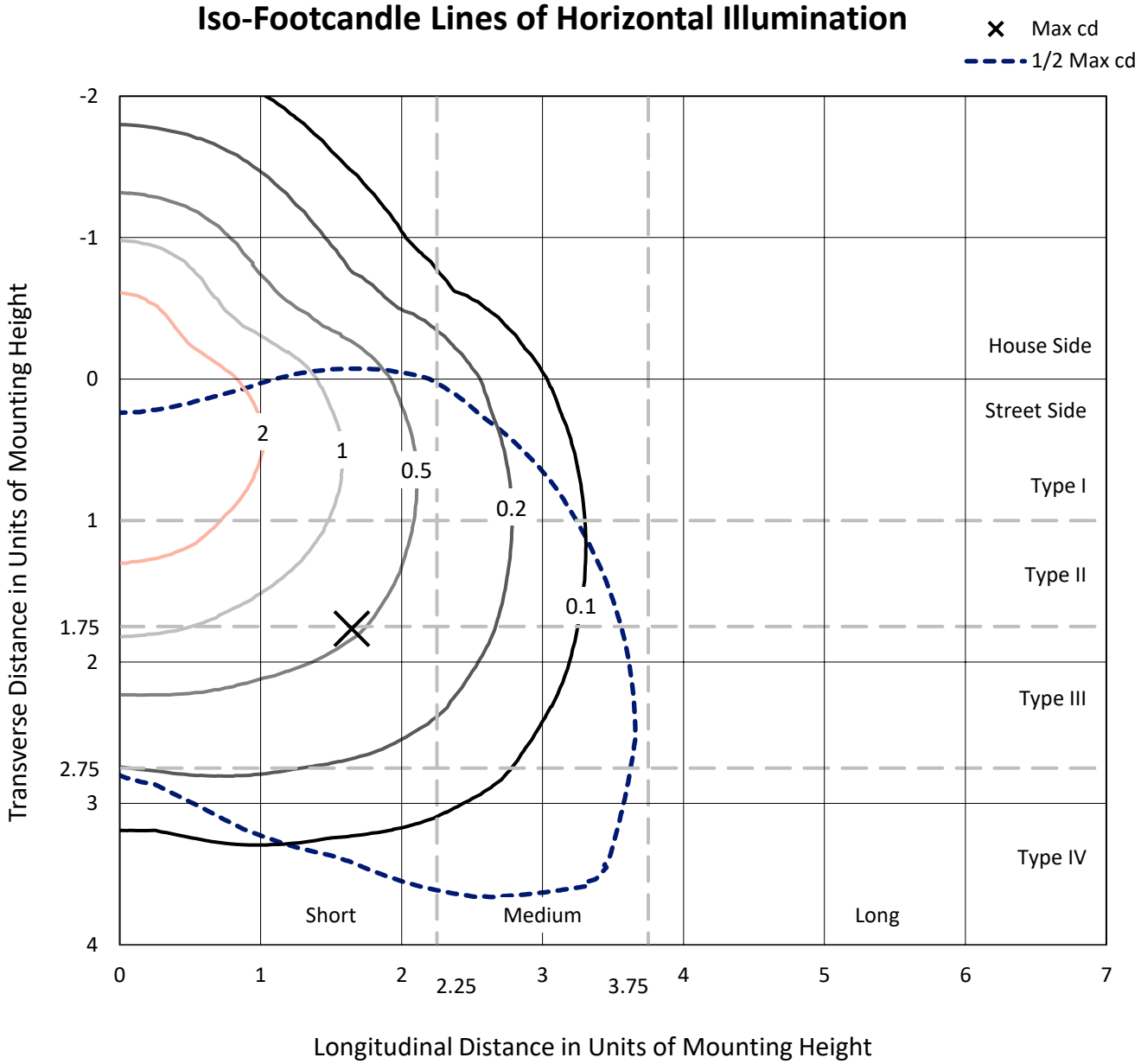
REPORT NUMBER: P869028
CATALOG NUMBER: EMM2-HSN-SA2A-740-U-T4W

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 4.4 fc
Type IV - Short - N/A

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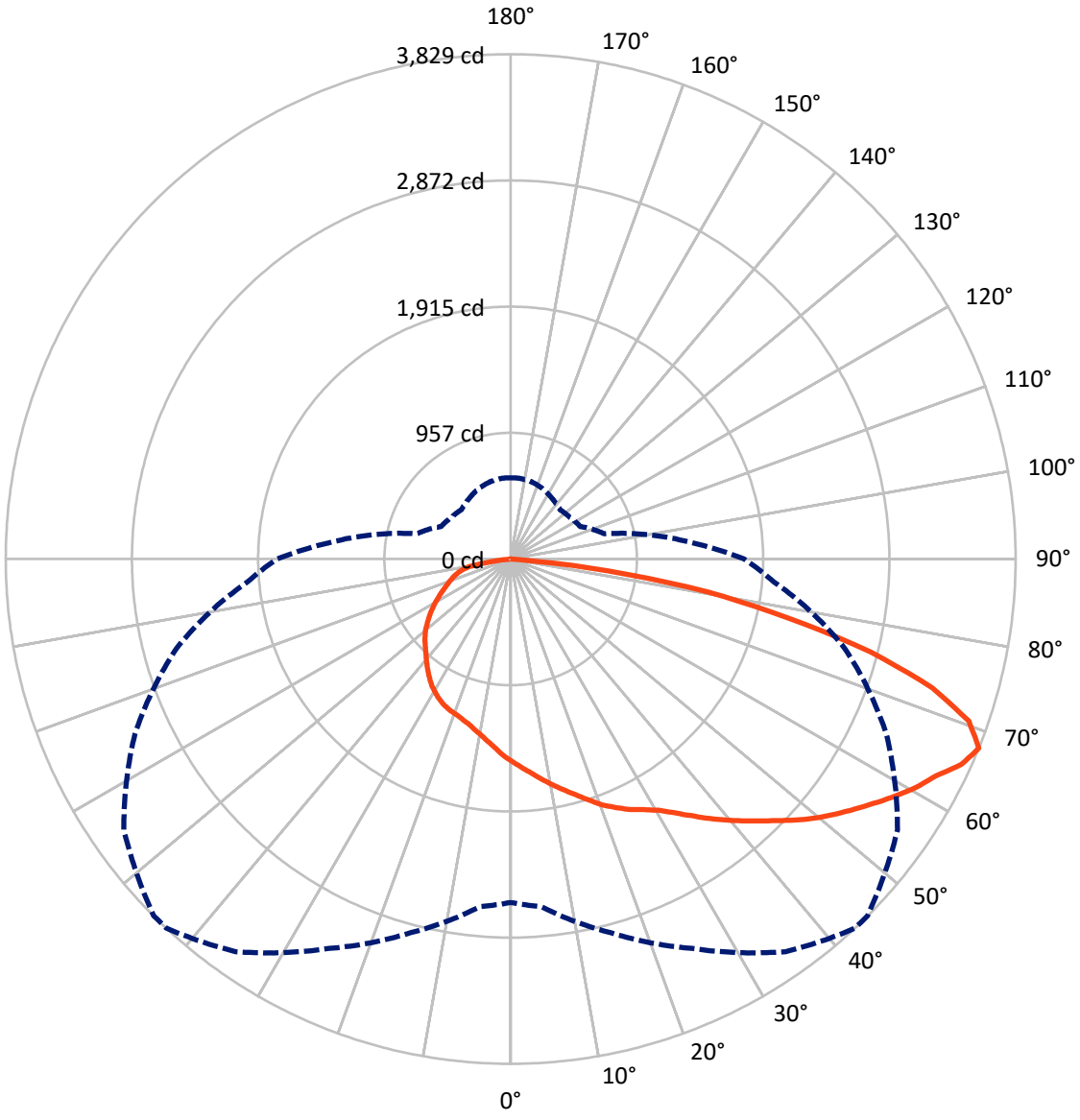
Luminous Intensity Polar Plot



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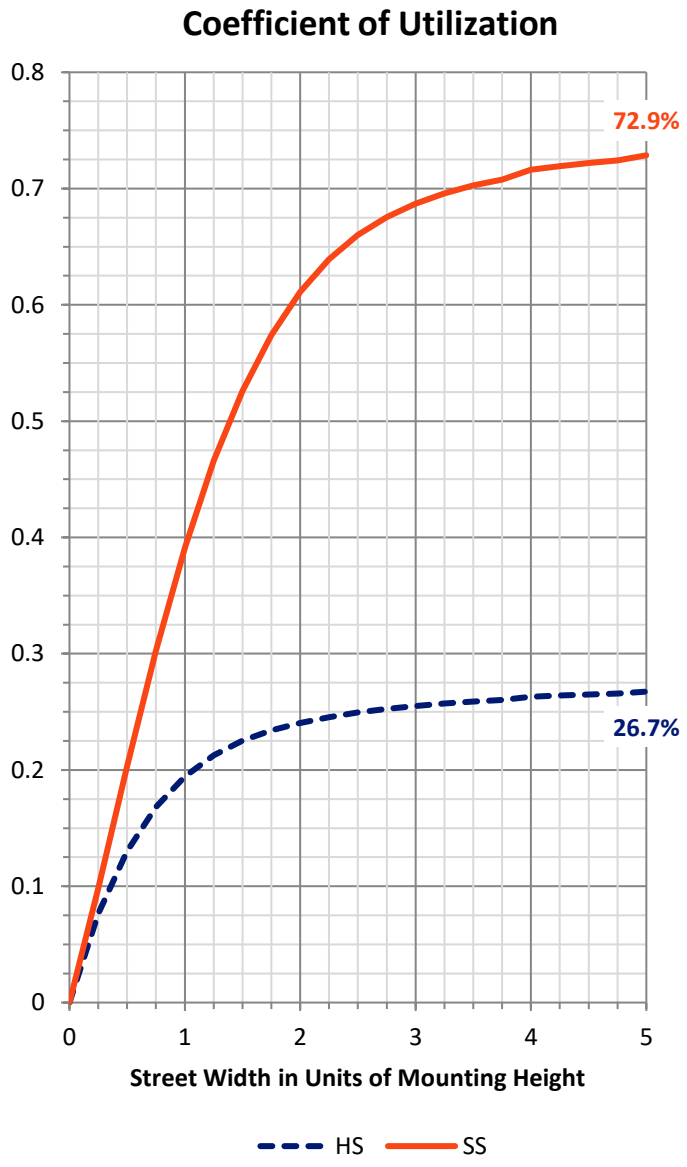
REPORT NUMBER: P869028
CATALOG NUMBER: EMM2-HSN-SA2A-740-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2476.1	0.0	2476.1
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	6728.5	0.0	6728.5
	% Fixture	73.1	0.0	73.1
Total	Lumens	9204.5	0.0	9204.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.0	1.6
10°-20°	449.1	4.9
20°-30°	766.2	8.3
30°-40°	1117.4	12.1
40°-50°	1501.2	16.3
50°-60°	1837.7	20.0
60°-70°	1934.0	21.0
70°-80°	1262.6	13.7
80°-90°	189.4	2.1
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°	9204.5	100.0
0°-180°	9204.5	100.0



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REPORT NUMBER: P869028
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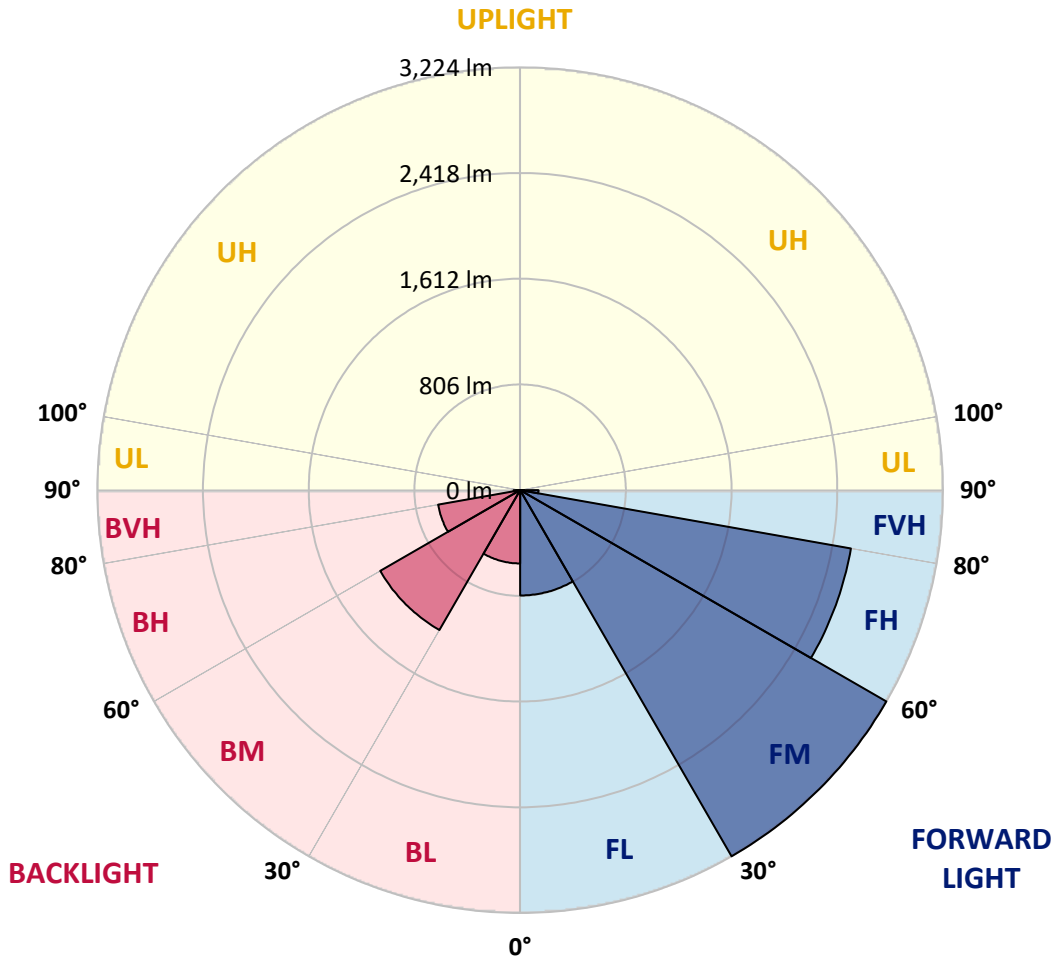
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	803.3	8.7			
FM	(30°-60°)	3224.3	35.0			
FH	(60°-80°)	2561.2	27.8			G2/5000
FVH	(80°-90°)	139.7	1.5			G2/225
BL	(0°-30°)	559.0	6.1	B2/1000		
BM	(30°-60°)	1232.0	13.4	B2/2500		
BH	(60°-80°)	635.4	6.9	B2/1000		G2/1000
BVH	(80°-90°)	49.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	1536.5	1536.5	1536.5	1536.5	1536.5	*1536.5*	1536.5	1536.5	1536.5	1536.5	1536.5
2.5°	1607.3	1605.4	1599.8	1596.1	1584.9	*1583.1*	1583.1	1571.9	1558.9	1551.4	1544.0
5°	1679.9	1670.6	1666.9	1659.4	1640.8	*1629.6*	1633.4	1612.9	1586.8	1568.2	1547.7
7.5°	1745.1	1741.4	1728.3	1719.0	1696.7	*1685.5*	1681.8	1650.1	1616.6	1588.7	1555.1
10°	1823.3	1814.0	1806.6	1787.9	1758.1	*1741.4*	1735.8	1694.8	1652.0	1614.7	1570.0
12.5°	1894.1	1882.9	1873.6	1855.0	1825.2	*1797.3*	1789.8	1743.2	1689.2	1638.9	1583.1
15°	1948.1	1950.0	1940.7	1923.9	1890.4	*1856.9*	1851.3	1789.8	1724.6	1663.2	1596.1
17.5°	1998.4	2005.8	2000.3	1989.1	1955.6	*1922.0*	1916.5	1847.5	1769.3	1691.1	1611.0
20°	2046.8	2046.8	2045.0	2037.5	2013.3	*1990.9*	1979.8	1910.9	1812.2	1720.9	1631.5
22.5°	2074.8	2082.2	2082.2	2082.2	2067.3	*2048.7*	2045.0	1977.9	1869.9	1758.1	1650.1
25°	2117.6	2126.9	2126.9	2123.2	2110.1	*2104.6*	2099.0	2035.6	1925.8	1801.0	1670.6
27.5°	2208.9	2207.0	2192.1	2173.5	2154.8	*2153.0*	2145.5	2100.8	1990.9	1847.5	1698.5
30°	2335.5	2339.2	2320.6	2262.9	2220.0	*2210.7*	2212.6	2173.5	2067.3	1901.6	1730.2
32.5°	2529.2	2529.2	2456.6	2382.1	2320.6	*2296.4*	2290.8	2257.3	2145.5	1961.1	1765.6
35°	2674.5	2668.9	2627.9	2540.4	2464.0	*2395.1*	2385.8	2341.1	2233.1	2028.2	1804.7
37.5°	2784.3	2795.5	2763.9	2696.8	2622.3	*2503.1*	2484.5	2421.2	2313.2	2093.4	1843.8
40°	2996.7	2968.7	2892.4	2830.9	2741.5	*2609.3*	2592.5	2514.3	2395.1	2166.0	1892.2
42.5°	3151.2	3112.1	3024.6	2942.7	2830.9	*2715.4*	2700.5	2614.9	2490.1	2248.0	1942.5
45°	3372.9	3285.3	3164.3	3091.7	2933.3	*2830.9*	2812.3	2719.2	2588.8	2335.5	2005.8
47.5°	3587.1	3434.3	3305.8	3272.3	3045.1	*2955.7*	2940.8	2832.8	2695.0	2430.5	2067.3
50°	3559.1	3458.6	3415.7	3384.1	3141.9	*3073.0*	3058.1	2948.2	2803.0	2531.1	2128.8
52.5°	3488.4	3497.7	3499.5	3423.2	3233.2	*3182.9*	3168.0	3073.0	2914.7	2618.6	2188.4
55°	3562.8	3574.0	3572.2	3456.7	3339.4	*3292.8*	3283.5	3199.7	3022.7	2700.5	2231.2
57.5°	3676.5	3639.2	3633.6	3540.5	3453.0	*3410.1*	3399.0	3326.3	3114.0	2760.1	2264.7
60°	3696.9	3622.4	3646.7	3559.1	3538.6	*3525.6*	3521.9	3436.2	3199.7	2808.6	2277.8
62.5°	3467.9	3454.8	3549.8	3514.4	3583.3	*3620.6*	3622.4	3514.4	3246.2	2827.2	2264.7
65°	3076.8	3128.9	3333.8	3436.2	3650.4	*3756.5*	3752.8	3561.0	3240.6	2773.2	2184.6
67.5°	*2605.6*	*2646.5*	*2935.2*	*3259.3*	*3635.5*	*3829.2*	*3827.3*	*3581.5*	*3143.8*	*2624.2*	*2004.0*
70°	1976.0	2104.6	2514.3	2940.8	3434.3	*3685.8*	3717.4	3466.0	2922.2	2352.3	1730.2
72.5°	1503.0	1523.5	2018.9	2465.9	3074.9	*3344.9*	3339.4	3097.2	2551.5	1981.6	1441.5
75°	1067.2	1111.9	1519.8	1910.9	2519.9	*2819.7*	2806.7	2540.4	2035.6	1542.1	1102.6
77.5°	795.3	812.0	1111.9	1417.3	1884.8	*2154.8*	2149.3	1877.3	1497.4	1132.4	821.3
80°	581.1	609.0	800.8	989.0	1277.6	*1510.4*	1503.0	1246.0	961.0	791.5	599.7
82.5°	325.9	346.4	465.6	597.8	674.2	*746.8*	715.2	597.8	437.7	340.8	294.3
85°	9.3	11.2	16.8	20.5	35.4	*59.6*	65.2	57.7	68.9	42.8	46.6
87.5°	3.7	3.7	3.7	3.7	3.7	*5.6*	5.6	5.6	5.6	5.6	5.6
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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REPORT NUMBER: P869028
CATALOG NUMBER: EMM2-HSN-SA2A-740-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5
2.5°	1540.2	1532.8	1517.9	1508.6	1503.0	1495.5	1484.4	1476.9	1471.3	1478.8	1476.9
5°	1538.4	1523.5	1497.4	1478.8	1460.2	1445.3	1428.5	1415.5	1408.0	1411.7	1409.9
7.5°	1538.4	1519.8	1478.8	1449.0	1421.0	1398.7	1380.1	1363.3	1355.9	1357.7	1355.9
10°	1545.8	1519.8	1465.7	1422.9	1385.7	1359.6	1339.1	1324.2	1318.6	1324.2	1326.1
12.5°	1553.3	1519.8	1454.6	1400.6	1352.1	1324.2	1305.6	1296.3	1300.0	1301.8	1303.7
15°	1557.0	1517.9	1443.4	1374.5	1320.5	1290.7	1279.5	1277.6	1286.9	1296.3	1298.1
17.5°	1566.3	1516.0	1426.6	1348.4	1292.5	1268.3	1262.7	1270.2	1288.8	1301.8	1305.6
20°	1577.5	1519.8	1408.0	1316.7	1264.6	1246.0	1255.3	1272.0	1294.4	1313.0	1316.7
22.5°	1588.7	1521.6	1391.2	1288.8	1234.8	1231.1	1251.6	1275.8	1301.8	1320.5	1324.2
25°	1601.7	1521.6	1368.9	1253.4	1205.0	1210.6	1242.2	1273.9	1298.1	1322.3	1326.1
27.5°	1614.7	1525.3	1344.7	1214.3	1167.8	1184.5	1223.6	1262.7	1288.8	1313.0	1318.6
30°	1637.1	1532.8	1324.2	1180.8	1130.5	1152.9	1199.4	1244.1	1272.0	1298.1	1303.7
32.5°	1659.4	1544.0	1307.4	1145.4	1093.3	1119.3	1171.5	1221.8	1251.6	1275.8	1279.5
35°	1689.2	1558.9	1294.4	1110.0	1056.0	1076.5	1132.4	1188.2	1221.8	1240.4	1249.7
37.5°	1720.9	1579.3	1283.2	1078.4	1015.0	1033.7	1093.3	1152.9	1188.2	1206.9	1210.6
40°	1760.0	1607.3	1275.8	1048.6	975.9	990.8	1050.4	1115.6	1149.1	1162.2	1169.6
42.5°	1802.8	1637.1	1270.2	1018.8	933.1	948.0	1011.3	1074.6	1108.2	1119.3	1124.9
45°	1856.9	1676.2	1266.5	987.1	897.7	910.7	974.1	1037.4	1065.3	1080.2	1085.8
47.5°	1907.1	1715.3	1255.3	949.8	858.6	877.2	934.9	990.8	1022.5	1031.8	1037.4
50°	1957.4	1748.8	1232.9	908.9	823.2	840.0	892.1	933.1	957.3	968.5	972.2
52.5°	2005.8	1773.0	1197.5	866.0	785.9	797.1	840.0	879.1	895.8	899.6	910.7
55°	2037.5	1786.1	1147.3	815.7	748.7	752.4	784.1	819.5	828.8	830.6	830.6
57.5°	2059.9	1778.6	1087.7	765.5	711.5	711.5	730.1	758.0	761.7	763.6	767.3
60°	2063.6	1752.6	1011.3	718.9	670.5	664.9	683.5	700.3	702.1	705.9	709.6
62.5°	2035.6	1694.8	929.4	674.2	631.4	618.3	635.1	651.9	661.2	666.8	670.5
65°	1950.0	1577.5	836.2	629.5	594.1	571.8	592.3	620.2	638.8	640.7	640.7
67.5°	*1771.2*	*1387.5*	*737.5*	*582.9*	*549.4*	*528.9*	*555.0*	*584.8*	*607.2*	*616.5*	*614.6*
70°	1501.1	1177.1	646.3	534.5	504.7	491.7	519.6	553.1	571.8	579.2	582.9
72.5°	1208.7	942.4	566.2	486.1	465.6	458.2	486.1	519.6	545.7	556.9	558.7
75°	940.5	741.3	499.1	435.8	419.0	420.9	450.7	484.2	512.2	517.8	501.0
77.5°	730.1	590.4	435.8	376.2	366.9	379.9	409.7	445.1	461.9	467.5	456.3
80°	527.1	452.6	352.0	296.1	296.1	316.6	342.7	383.7	389.3	381.8	385.5
82.5°	249.6	219.8	173.2	143.4	134.1	149.0	158.3	171.3	186.2	190.0	180.7
85°	33.5	22.3	16.8	18.6	16.8	11.2	7.4	7.4	7.4	5.6	5.6
87.5°	5.6	5.6	3.7	3.7	3.7	3.7	3.7	3.7	1.9	1.9	1.9
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: SP1-2407-157-5

Test Date: 08/07/2024

Luminaire Tested: MEM2-HTN-SA-40-740-U-5WQ-2

Data in this report applies to families of products including MEM2-HTN-SA-40-740-U-5WQ-2

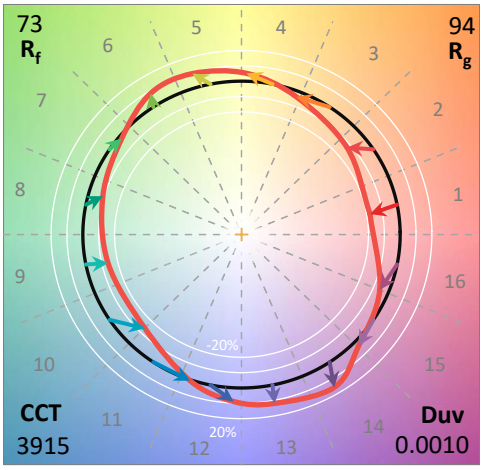
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-157-5
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	08/20/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Streetworks
Catalog Number:	**MEM2-HTN-SA-40-740-U-5WQ-2**
Description:	Epic Modern Light Square 40W 5WQ Optic and Flare Trim

Spectral Parameters

CCT (K):	3915	CRI (Ra):	71.0		
CIE u':	0.2262	R1:	67.6	R9:	-38.4
CIE v':	0.5044	R2:	78.3	R10:	48.9
Duv:	0.0010	R3:	87.1	R11:	65.3
CIE x:	0.3850	R4:	69.7	R12:	40.4
CIE y:	0.3816	R5:	67.4	R13:	69.3
CIE z:	0.2334	R6:	69.3	R14:	92.6
Peak Wavelength (nm):	449	R7:	79.7	R15:	59.9
Dominant Wavelength (nm):	578	R8:	48.7		
Purity:	30.05482				
Rf:	73.2				
Rg:	93.9				



Test Conditions

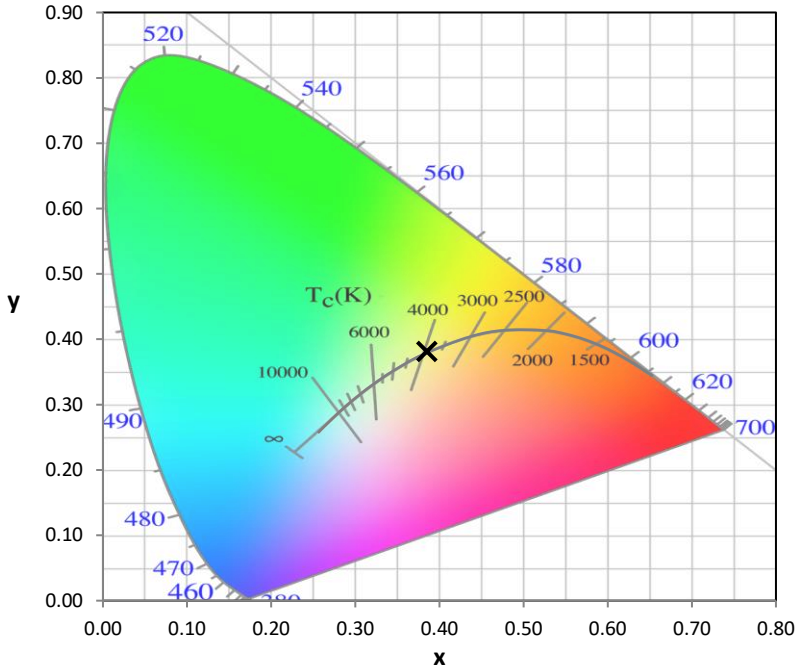
Stabilization Time:	21M
Operation Time:	1H 21M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2407-157-5

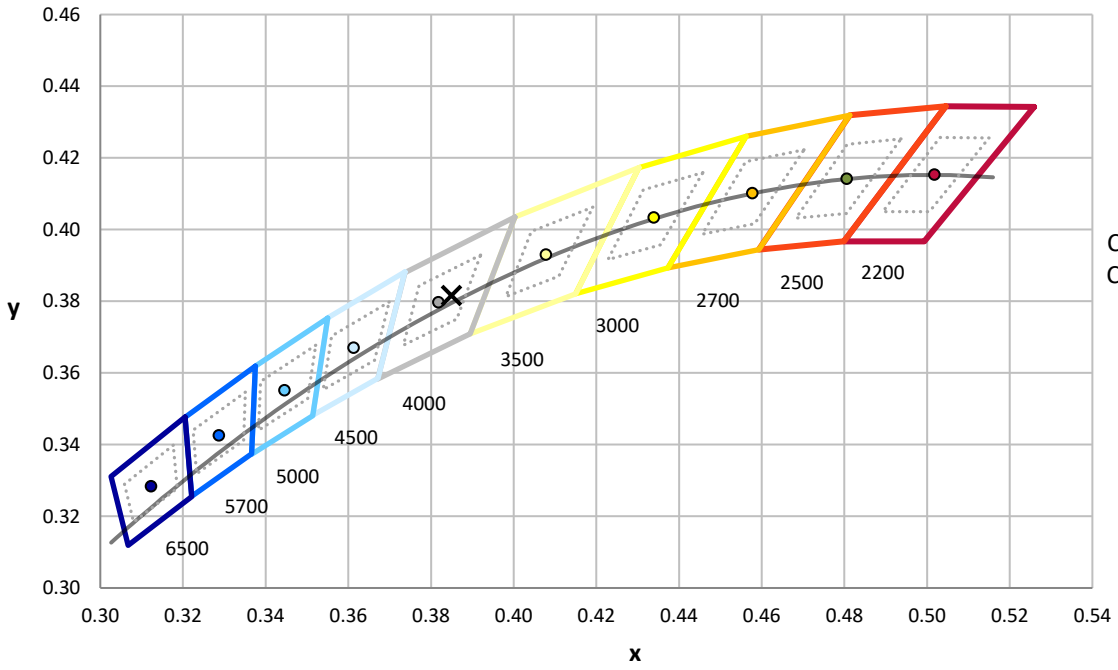
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-157-5

CIE 1931 Chromaticity Diagram



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

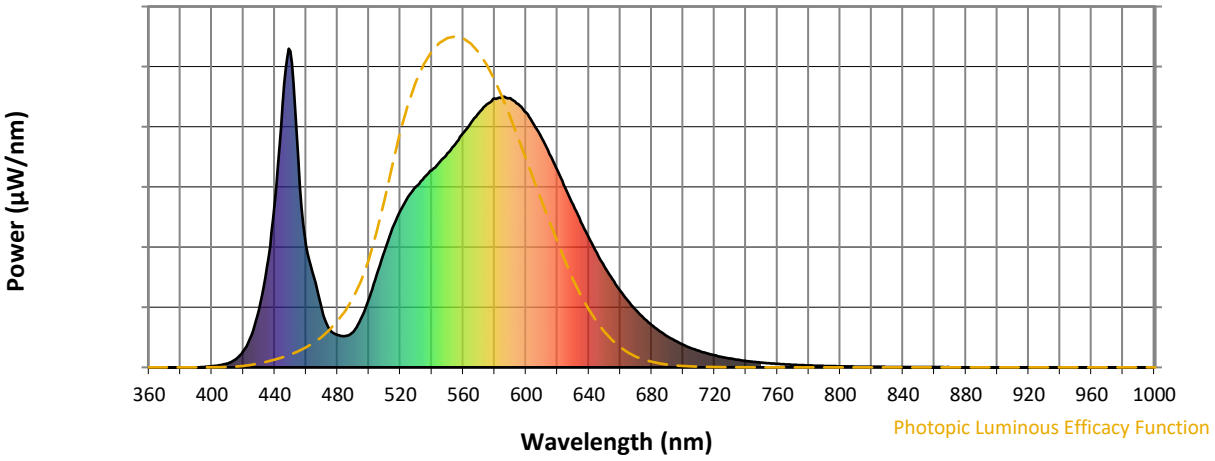


CCT = 3915K
CIE x = 0.3850
CIE y = 0.3816
Duv = 0.0010

Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-157-5

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	112	NR	620	618	NR	750	15	NR	880	0	NR
365	0	NR	495	153	NR	625	563	NR	755	13	NR	885	0	NR
370	0	NR	500	216	NR	630	510	NR	760	11	NR	890	0	NR
375	0	NR	505	291	NR	635	456	NR	765	9	NR	895	0	NR
380	0	NR	510	366	NR	640	407	NR	770	8	NR	900	0	NR
385	0	NR	515	436	NR	645	359	NR	775	7	NR	905	0	NR
390	0	NR	520	492	NR	650	316	NR	780	6	NR	910	0	NR
395	2	NR	525	536	NR	655	277	NR	785	5	NR	915	0	NR
400	4	NR	530	567	NR	660	240	NR	790	4	NR	920	0	NR
405	7	NR	535	596	NR	665	208	NR	795	4	NR	925	0	NR
410	12	NR	540	619	NR	670	179	NR	800	3	NR	930	0	NR
415	25	NR	545	644	NR	675	154	NR	805	3	NR	935	0	NR
420	51	NR	550	671	NR	680	133	NR	810	3	NR	940	0	NR
425	100	NR	555	701	NR	685	114	NR	815	2	NR	945	0	NR
430	180	NR	560	735	NR	690	98	NR	820	2	NR	950	0	NR
435	315	NR	565	768	NR	695	83	NR	825	2	NR	955	0	NR
440	514	NR	570	798	NR	700	71	NR	830	1	NR	960	0	NR
445	828	NR	575	825	NR	705	61	NR	835	1	NR	965	0	NR
450	992	NR	580	843	NR	710	52	NR	840	1	NR	970	0	NR
455	652	NR	585	848	NR	715	44	NR	845	1	NR	975	0	NR
460	382	NR	590	844	NR	720	38	NR	850	1	NR	980	0	NR
465	282	NR	595	826	NR	725	32	NR	855	1	NR	985	0	NR
470	180	NR	600	800	NR	730	28	NR	860	1	NR	990	0	NR
475	119	NR	605	762	NR	735	24	NR	865	1	NR	995	0	NR
480	101	NR	610	719	NR	740	20	NR	870	1	NR	1000	0	NR
485	98	NR	615	669	NR	745	17	NR	875	0	NR			

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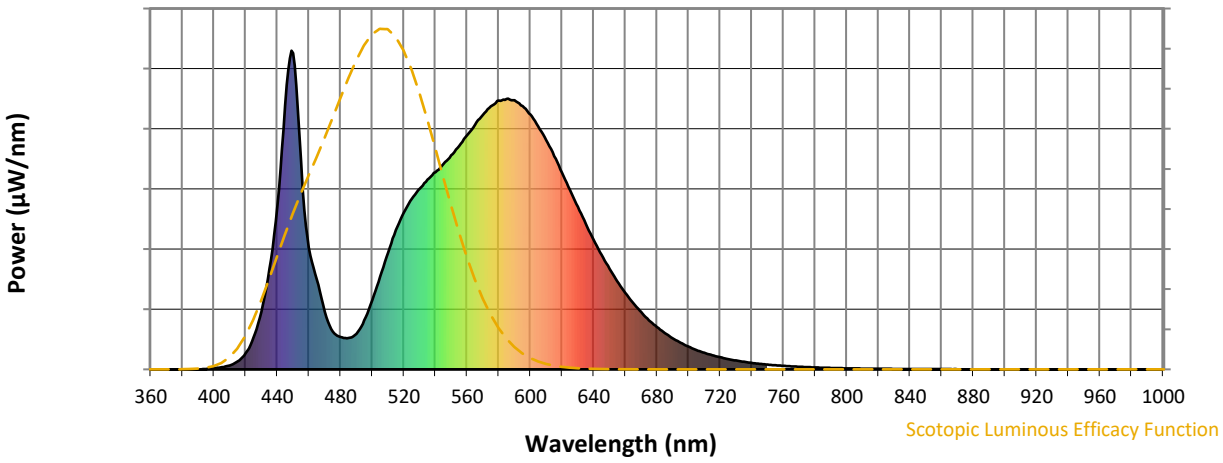
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.49**

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	112	NR	620	618	NR	750	15	NR	880	0	NR
365	0	NR	495	153	NR	625	563	NR	755	13	NR	885	0	NR
370	0	NR	500	216	NR	630	510	NR	760	11	NR	890	0	NR
375	0	NR	505	291	NR	635	456	NR	765	9	NR	895	0	NR
380	0	NR	510	366	NR	640	407	NR	770	8	NR	900	0	NR
385	0	NR	515	436	NR	645	359	NR	775	7	NR	905	0	NR
390	0	NR	520	492	NR	650	316	NR	780	6	NR	910	0	NR
395	2	NR	525	536	NR	655	277	NR	785	5	NR	915	0	NR
400	4	NR	530	567	NR	660	240	NR	790	4	NR	920	0	NR
405	7	NR	535	596	NR	665	208	NR	795	4	NR	925	0	NR
410	12	NR	540	619	NR	670	179	NR	800	3	NR	930	0	NR
415	25	NR	545	644	NR	675	154	NR	805	3	NR	935	0	NR
420	51	NR	550	671	NR	680	133	NR	810	3	NR	940	0	NR
425	100	NR	555	701	NR	685	114	NR	815	2	NR	945	0	NR
430	180	NR	560	735	NR	690	98	NR	820	2	NR	950	0	NR
435	315	NR	565	768	NR	695	83	NR	825	2	NR	955	0	NR
440	514	NR	570	798	NR	700	71	NR	830	1	NR	960	0	NR
445	828	NR	575	825	NR	705	61	NR	835	1	NR	965	0	NR
450	992	NR	580	843	NR	710	52	NR	840	1	NR	970	0	NR
455	652	NR	585	848	NR	715	44	NR	845	1	NR	975	0	NR
460	382	NR	590	844	NR	720	38	NR	850	1	NR	980	0	NR
465	282	NR	595	826	NR	725	32	NR	855	1	NR	985	0	NR
470	180	NR	600	800	NR	730	28	NR	860	1	NR	990	0	NR
475	119	NR	605	762	NR	735	24	NR	865	1	NR	995	0	NR
480	101	NR	610	719	NR	740	20	NR	870	1	NR	1000	0	NR
485	98	NR	615	669	NR	745	17	NR	875	0	NR			

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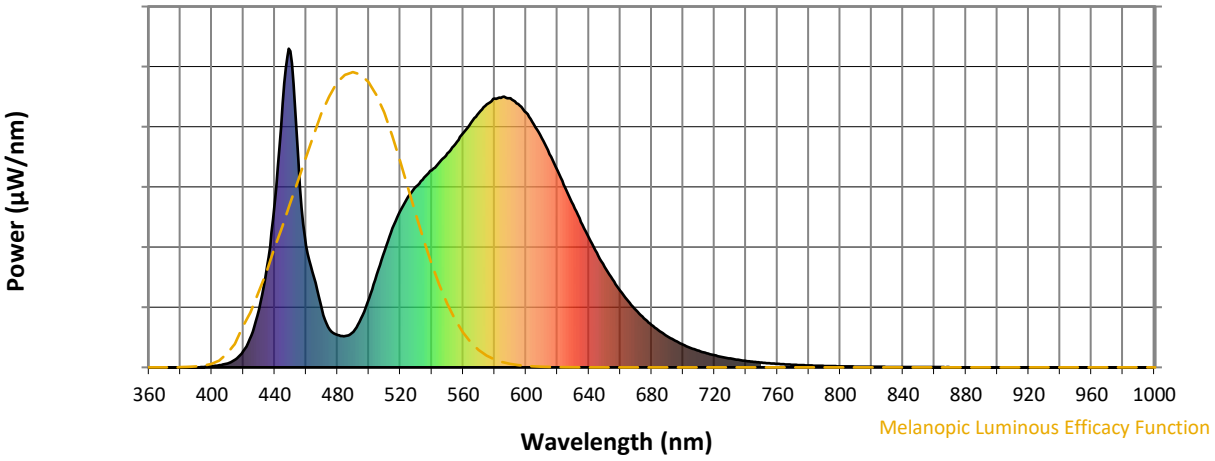
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.88**

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	112	NR	620	618	NR	750	15	NR	880	0	NR
365	0	NR	495	153	NR	625	563	NR	755	13	NR	885	0	NR
370	0	NR	500	216	NR	630	510	NR	760	11	NR	890	0	NR
375	0	NR	505	291	NR	635	456	NR	765	9	NR	895	0	NR
380	0	NR	510	366	NR	640	407	NR	770	8	NR	900	0	NR
385	0	NR	515	436	NR	645	359	NR	775	7	NR	905	0	NR
390	0	NR	520	492	NR	650	316	NR	780	6	NR	910	0	NR
395	2	NR	525	536	NR	655	277	NR	785	5	NR	915	0	NR
400	4	NR	530	567	NR	660	240	NR	790	4	NR	920	0	NR
405	7	NR	535	596	NR	665	208	NR	795	4	NR	925	0	NR
410	12	NR	540	619	NR	670	179	NR	800	3	NR	930	0	NR
415	25	NR	545	644	NR	675	154	NR	805	3	NR	935	0	NR
420	51	NR	550	671	NR	680	133	NR	810	3	NR	940	0	NR
425	100	NR	555	701	NR	685	114	NR	815	2	NR	945	0	NR
430	180	NR	560	735	NR	690	98	NR	820	2	NR	950	0	NR
435	315	NR	565	768	NR	695	83	NR	825	2	NR	955	0	NR
440	514	NR	570	798	NR	700	71	NR	830	1	NR	960	0	NR
445	828	NR	575	825	NR	705	61	NR	835	1	NR	965	0	NR
450	992	NR	580	843	NR	710	52	NR	840	1	NR	970	0	NR
455	652	NR	585	848	NR	715	44	NR	845	1	NR	975	0	NR
460	382	NR	590	844	NR	720	38	NR	850	1	NR	980	0	NR
465	282	NR	595	826	NR	725	32	NR	855	1	NR	985	0	NR
470	180	NR	600	800	NR	730	28	NR	860	1	NR	990	0	NR
475	119	NR	605	762	NR	735	24	NR	865	1	NR	995	0	NR
480	101	NR	610	719	NR	740	20	NR	870	1	NR	1000	0	NR
485	98	NR	615	669	NR	745	17	NR	875	0	NR			

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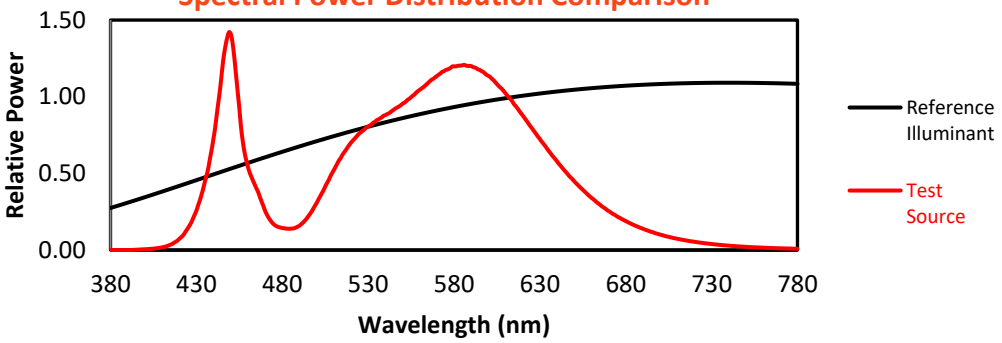
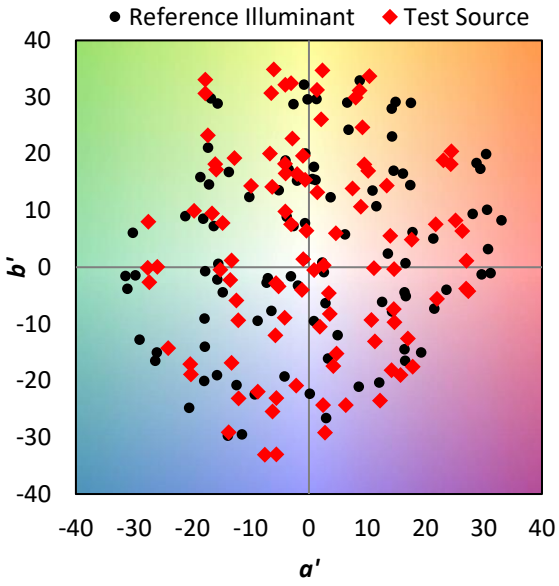
Summary

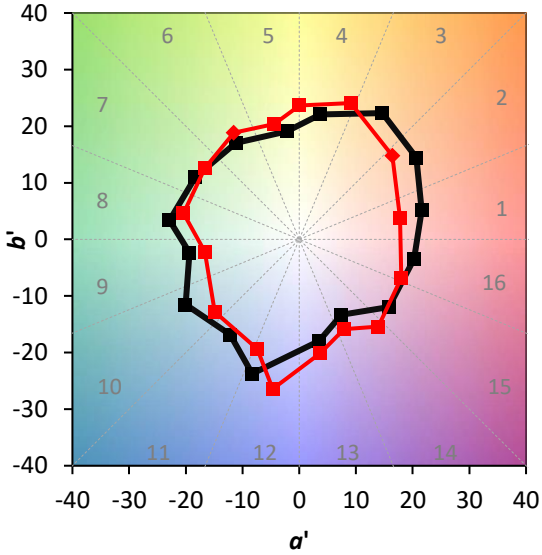
R_f = 73.2
R_g = 93.9
CIE R_a = 71.0
R_9 = -38.4

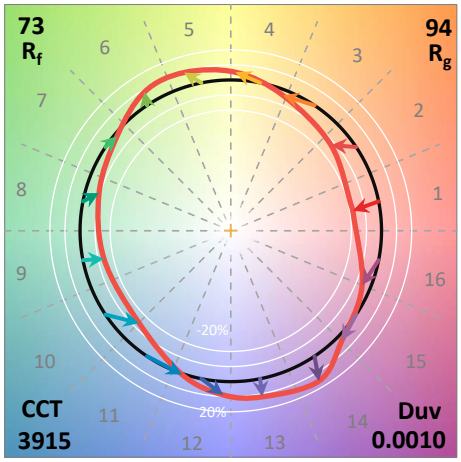
Spectral Power Distribution Comparison

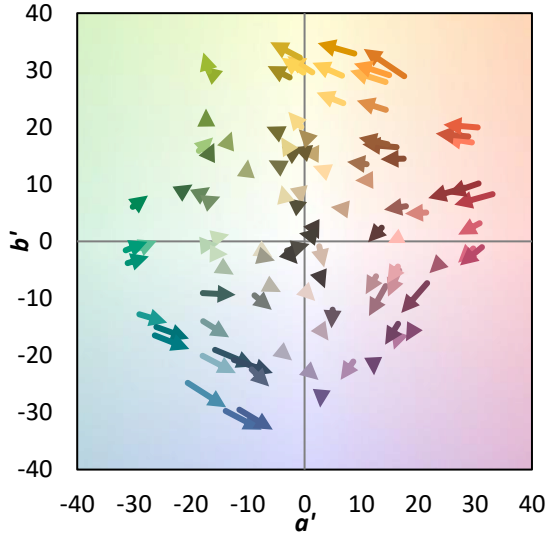


Color Vector Graphics









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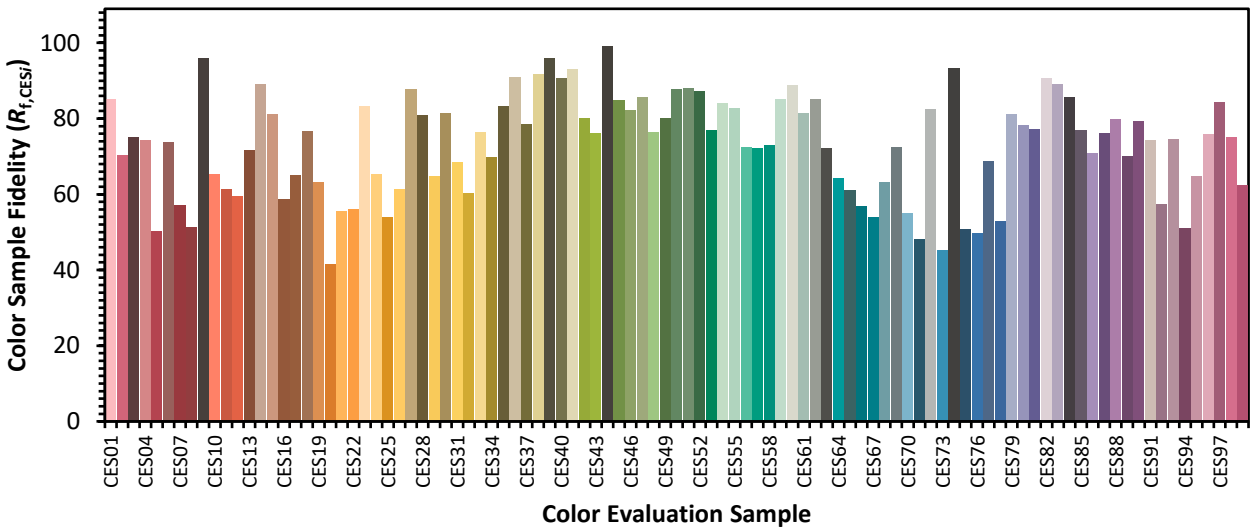
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 61	CES51 = 88	CES76 = 50
CES02 = 61	CES27 = 88	CES52 = 87	CES77 = 69
CES03 = 30	CES28 = 81	CES53 = 77	CES78 = 53
CES04 = 70	CES29 = 65	CES54 = 84	CES79 = 81
CES05 = 47	CES30 = 81	CES55 = 83	CES80 = 78
CES06 = 50	CES31 = 69	CES56 = 73	CES81 = 77
CES07 = 40	CES32 = 60	CES57 = 72	CES82 = 91
CES08 = 39	CES33 = 76	CES58 = 73	CES83 = 89
CES09 = 29	CES34 = 70	CES59 = 85	CES84 = 86
CES10 = 74	CES35 = 83	CES60 = 89	CES85 = 77
CES11 = 57	CES36 = 91	CES61 = 81	CES86 = 71
CES12 = 63	CES37 = 79	CES62 = 85	CES87 = 76
CES13 = 42	CES38 = 92	CES63 = 72	CES88 = 80
CES14 = 74	CES39 = 96	CES64 = 64	CES89 = 70
CES15 = 71	CES40 = 91	CES65 = 61	CES90 = 79
CES16 = 46	CES41 = 93	CES66 = 57	CES91 = 74
CES17 = 49	CES42 = 80	CES67 = 54	CES92 = 57
CES18 = 56	CES43 = 76	CES68 = 63	CES93 = 74
CES19 = 72	CES44 = 99	CES69 = 73	CES94 = 51
CES20 = 65	CES45 = 85	CES70 = 55	CES95 = 65
CES21 = 86	CES46 = 82	CES71 = 48	CES96 = 76
CES22 = 78	CES47 = 86	CES72 = 83	CES97 = 84
CES23 = 92	CES48 = 77	CES73 = 45	CES98 = 75
CES24 = 91	CES49 = 80	CES74 = 93	CES99 = 62
CES25 = 72	CES50 = 88	CES75 = 51	



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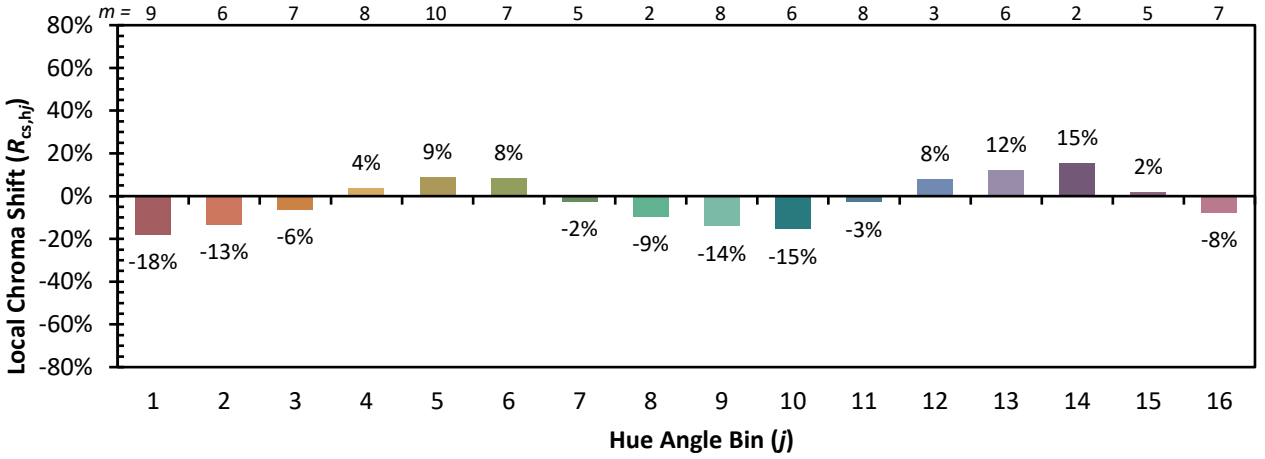
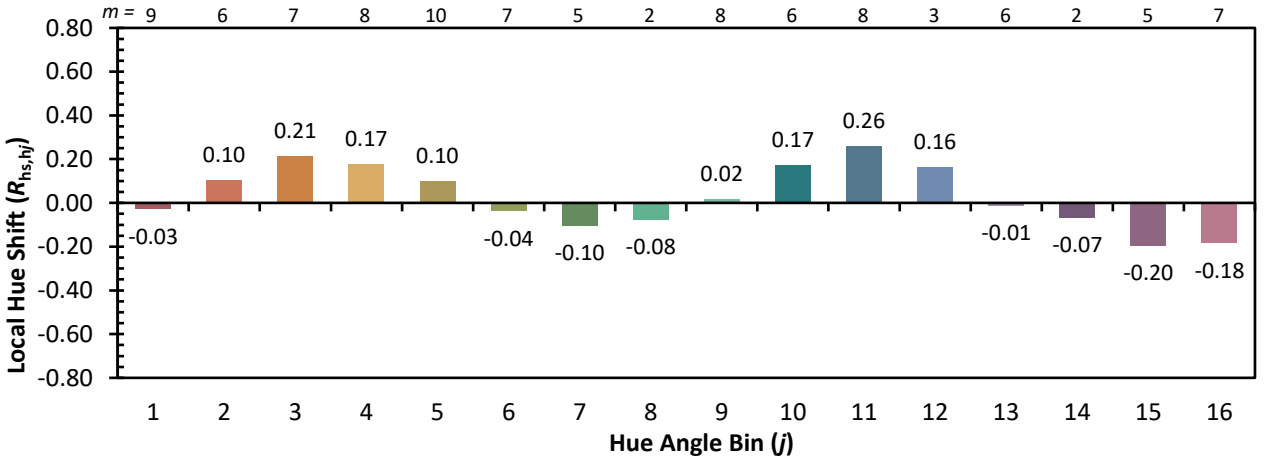
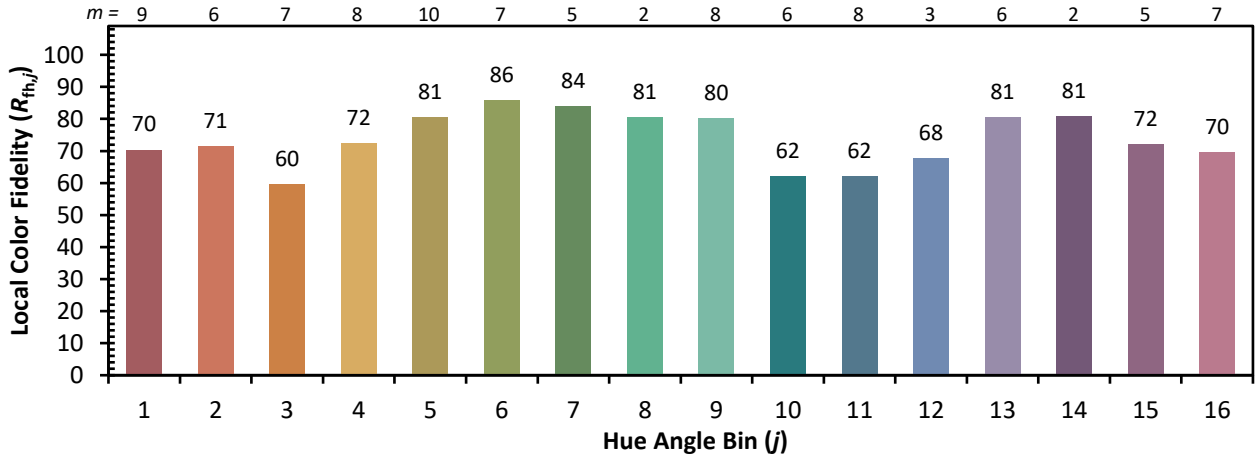
Color Rendition by Hue-Angle Bin







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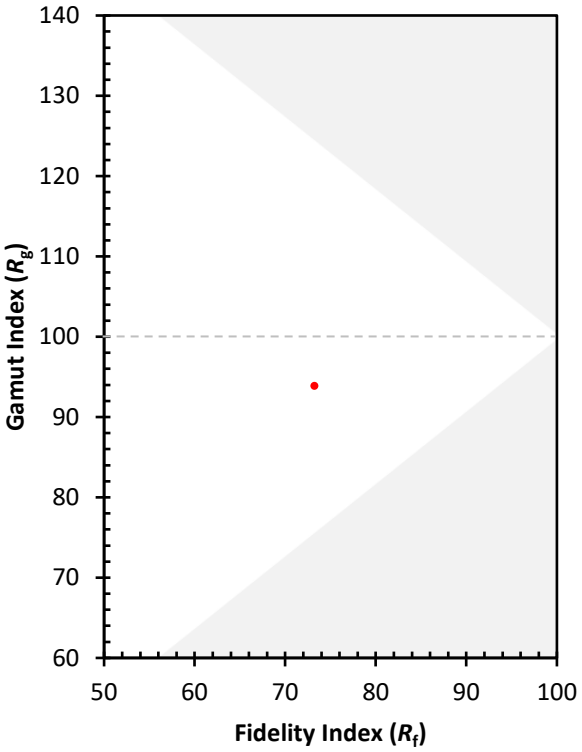
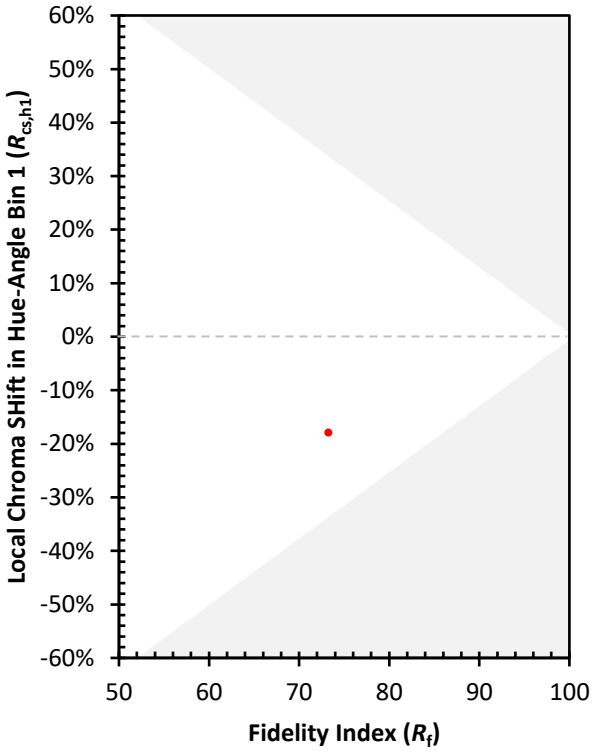
Measure Comparisons





(END OF REPORT)