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: P870343

Luminaire Tested: **MEM2-HSN-SA-70-830-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:	P870343
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	09/05/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	MEM2-HSN-SA-70-830-U-T2U-HSS
Description:	EPIC MODERN SHORT HOUSING DISCRETE LED ARRAYS 70W 80CRI 3000K FIXTURE w/ TYPE II URBAN DISTRIBUTION OPTIC AND HOUSE SIDE SHIELD
Light Source:	(20) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5529.3 lumens
Efficiency:	N/A
Efficacy:	90.6 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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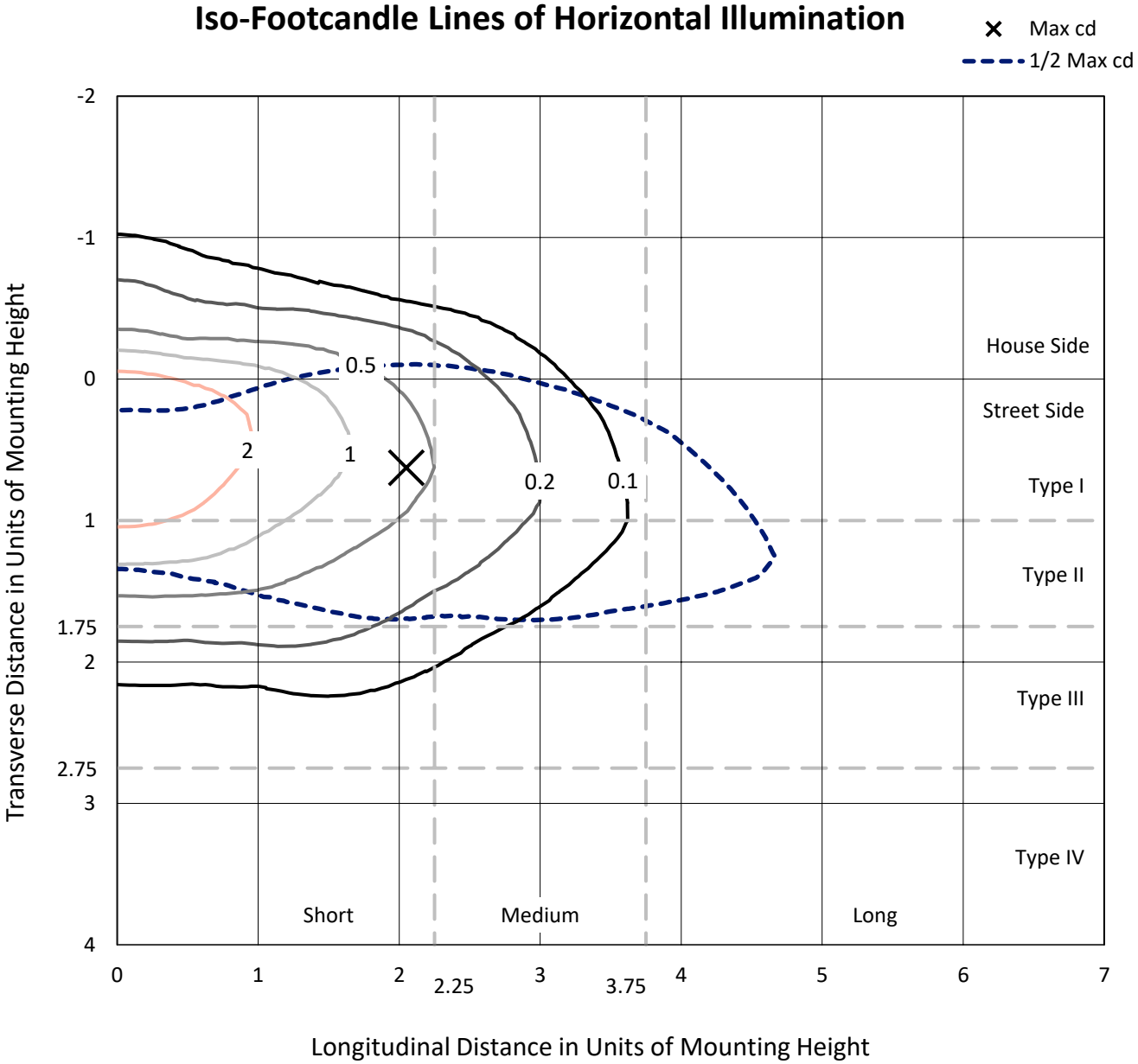
REPORT NUMBER: P870343
CATALOG NUMBER: MEM2-HSN-SA-70-830-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 4 fc
Type II - Short - N/A

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REPORT NUMBER: P870343
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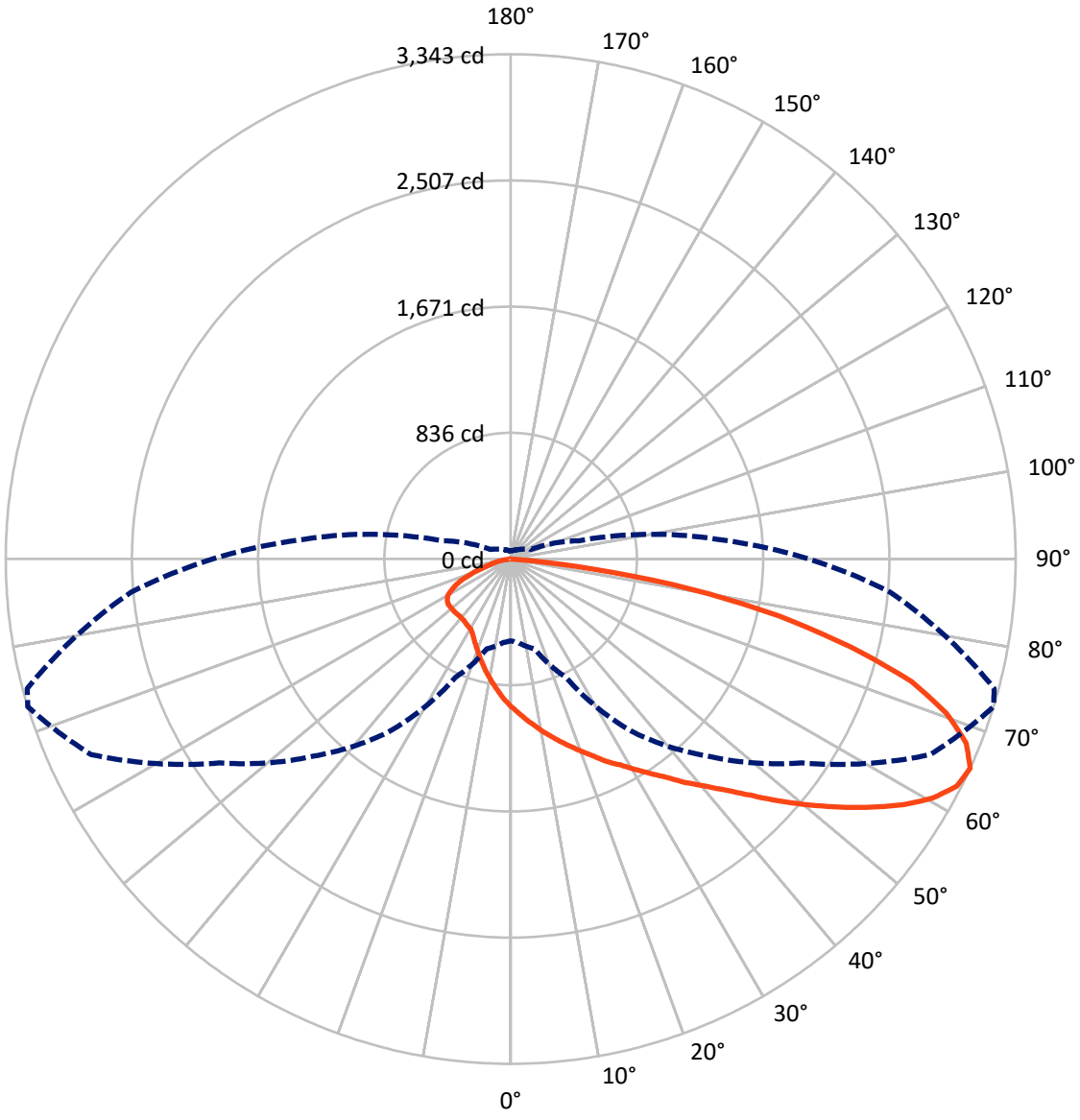
Luminous Intensity Polar Plot



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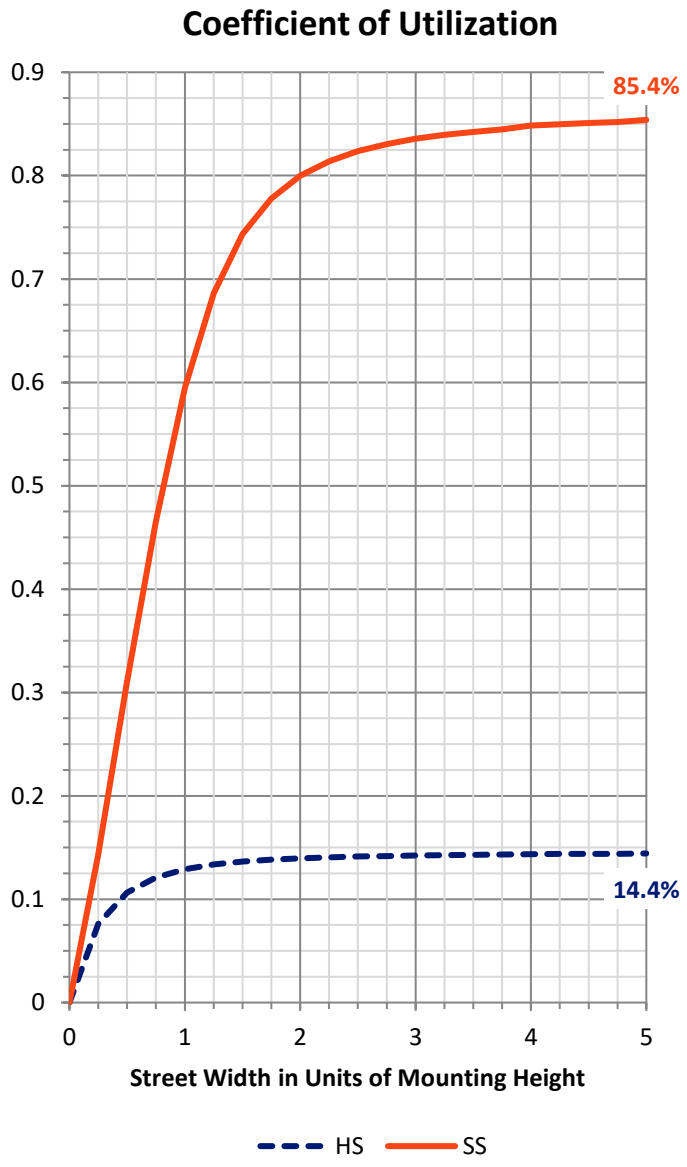
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	804.1	0.0	804.1
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	4725.3	0.0	4725.3
	% Fixture	85.5	0.0	85.5
Total	Lumens	5529.3	0.0	5529.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.7	1.7
10°-20°	287.8	5.2
20°-30°	481.9	8.7
30°-40°	727.0	13.1
40°-50°	1027.2	18.6
50°-60°	1155.8	20.9
60°-70°	1036.4	18.7
70°-80°	630.4	11.4
80°-90°	88.2	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°	5529.3	100.0
0°-180°	5529.3	100.0



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REPORT NUMBER: P870343
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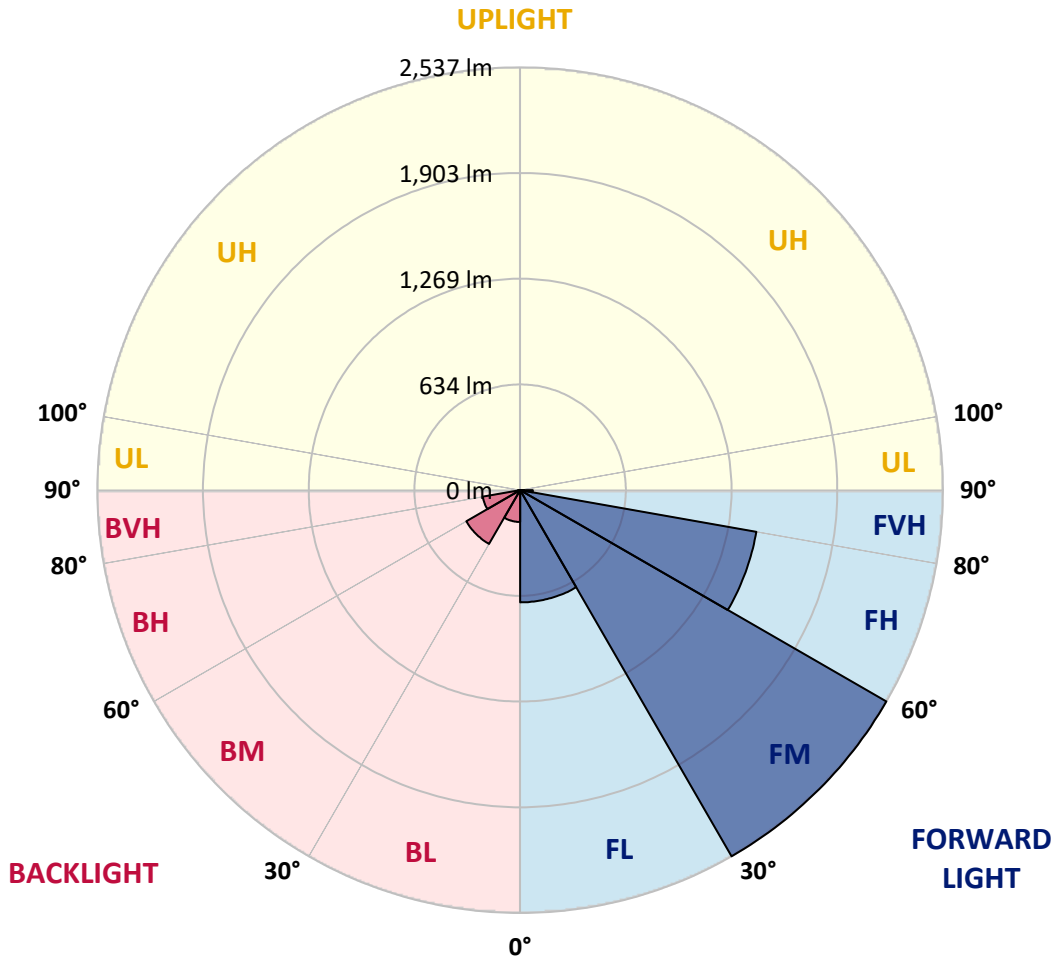
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	673.4	12.2			
FM	(30°-60°)	2537.1	45.9			
FH	(60°-80°)	1439.1	26.0			G1/1800
FVH	(80°-90°)	75.8	1.4			G1/100
BL	(0°-30°)	191.0	3.5	B1/500		
BM	(30°-60°)	372.8	6.7	B1/1000		
BH	(60°-80°)	227.8	4.1	B1/500		G1/500
BVH	(80°-90°)	12.4	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: P870343
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	980.9	980.9	980.9	980.9	980.9	980.9	980.9	980.9	*980.9*	980.9	980.9
2.5°	1132.2	1125.7	1115.9	1107.8	1093.2	1073.6	1057.4	1036.2	*1021.6*	1016.7	995.6
5°	1296.5	1288.4	1277.0	1257.5	1218.4	1195.6	1153.3	1104.5	*1065.5*	1057.4	1008.6
7.5°	1465.7	1462.4	1436.4	1407.1	1359.9	1309.5	1244.4	1168.0	*1111.1*	1098.0	1023.2
10°	1608.8	1594.2	1579.6	1551.9	1501.5	1429.9	1345.3	1239.6	*1159.9*	1138.7	1037.9
12.5°	1695.0	1690.2	1677.2	1644.6	1595.8	1534.0	1433.1	1309.5	*1207.0*	1177.7	1052.5
15°	1758.5	1763.4	1750.4	1729.2	1678.8	1620.2	1522.6	1382.7	*1257.5*	1223.3	1068.8
17.5°	1818.7	1815.4	1813.8	1789.4	1743.9	1685.3	1586.1	1442.9	*1307.9*	1270.5	1085.0
20°	1852.8	1854.5	1851.2	1841.5	1797.5	1740.6	1647.9	1514.5	*1363.2*	1320.9	1106.2
22.5°	1870.7	1877.2	1883.7	1882.1	1846.3	1802.4	1706.4	1571.4	*1420.1*	1376.2	1132.2
25°	1882.1	1887.0	1901.6	1921.2	1888.6	1852.8	1771.5	1639.7	*1486.8*	1436.4	1163.1
27.5°	1891.9	1898.4	1916.3	1945.6	1919.5	1898.4	1828.4	1698.3	*1543.8*	1498.2	1198.9
30°	1955.3	1963.5	1963.5	1978.1	1948.8	1943.9	1891.9	1768.3	*1615.3*	1566.5	1244.4
32.5°	2122.9	2106.6	2077.3	2062.7	1992.7	1994.4	1953.7	1838.2	*1691.8*	1643.0	1301.4
35°	2267.7	2267.7	2231.9	2184.7	2072.4	2049.7	2025.3	1930.9	*1774.8*	1727.6	1376.2
37.5°	2407.6	2409.2	2371.8	2331.1	2202.6	2121.3	2108.2	2020.4	*1877.2*	1821.9	1454.3
40°	2495.4	2505.2	2495.4	2464.5	2340.9	2246.5	2189.6	2121.3	*1974.8*	1932.6	1543.8
42.5°	2510.0	2529.6	2565.3	2575.1	2441.7	2358.8	2293.7	2225.4	*2092.0*	2044.8	1646.2
45°	2472.6	2479.1	2558.8	2570.2	2516.5	2448.2	2404.3	2347.4	*2231.9*	2191.2	1760.1
47.5°	2370.1	2357.1	2384.8	2484.0	2505.2	2501.9	2513.3	2485.6	*2394.5*	2342.5	1885.4
50°	2150.5	2155.4	2244.9	2365.3	2438.5	2521.4	2594.6	2625.5	*2558.8*	2506.8	2020.4
52.5°	1750.4	1773.1	1943.9	2228.6	2355.5	2508.4	2653.2	2757.3	*2729.6*	2679.2	2153.8
55°	1438.0	1472.2	1643.0	2009.0	2241.6	2445.0	2687.4	2895.6	*2900.5*	2861.4	2275.8
57.5°	1125.7	1153.3	1333.9	1669.0	2079.0	2345.7	2692.2	3014.3	*3069.6*	3024.1	2383.2
60°	881.7	901.2	1006.9	1390.9	1878.9	2204.2	2656.4	3108.7	*3212.8*	3178.6	2475.9
62.5°	668.6	683.2	777.6	1099.7	1633.2	2038.3	2536.1	3142.8	*3313.6*	3281.1	2527.9
65°	*541.7*	*554.7*	*616.5*	*863.8*	*1390.9*	*1846.3*	*2353.9*	*3064.8*	*3342.9*	*3313.6*	*2521.4*
67.5°	442.5	447.3	497.8	673.5	1176.1	1630.0	2087.1	2861.4	*3253.5*	3251.8	2446.6
70°	357.9	370.9	413.2	536.8	977.7	1381.1	1776.4	2542.6	*3059.9*	3076.1	2296.9
72.5°	304.2	307.5	344.9	444.1	797.1	1120.8	1470.6	2174.9	*2775.2*	2788.2	2062.7
75°	257.0	261.9	289.6	359.5	647.4	889.8	1182.6	1756.9	*2323.0*	2378.3	1737.3
77.5°	221.2	222.9	242.4	296.1	460.4	668.6	867.0	1317.6	*1818.7*	1857.7	1364.8
80°	174.1	177.3	198.5	234.2	320.5	434.3	598.6	901.2	*1215.2*	1259.1	945.1
82.5°	81.3	91.1	96.0	128.5	167.6	214.7	283.1	375.8	*549.8*	548.2	440.8
85°	8.1	6.5	6.5	9.8	14.6	14.6	17.9	21.1	*42.3*	50.4	39.0
87.5°	0.0	0.0	0.0	1.6	3.3	3.3	3.3	4.9	*4.9*	4.9	4.9
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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CATALOG NUMBER: MEM2-HSN-SA-70-830-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	980.9	980.9	980.9	980.9	980.9	980.9	980.9	980.9	980.9	980.9	980.9
2.5°	985.8	971.2	945.1	920.7	904.5	891.4	870.3	857.3	847.5	834.5	832.9
5°	982.5	956.5	904.5	860.5	818.2	782.5	745.0	722.3	697.9	686.5	696.2
7.5°	985.8	943.5	862.2	795.5	732.0	675.1	626.3	595.4	572.6	561.2	562.8
10°	987.4	932.1	826.4	733.7	652.3	585.6	530.3	488.0	460.4	453.9	445.7
12.5°	984.2	917.5	790.6	673.5	575.9	502.7	437.6	405.1	377.4	364.4	364.4
15°	987.4	906.1	753.2	618.2	507.5	422.9	367.6	331.9	315.6	304.2	305.8
17.5°	987.4	896.3	717.4	564.5	440.8	362.8	312.3	283.1	266.8	260.3	258.6
20°	998.8	888.2	683.2	514.0	382.3	309.1	268.4	245.6	232.6	226.1	222.9
22.5°	1006.9	881.7	652.3	465.2	333.5	270.0	235.9	214.7	205.0	201.7	201.7
25°	1021.6	880.1	624.7	418.1	294.4	240.8	209.8	193.6	185.4	182.2	182.2
27.5°	1042.7	883.3	598.6	377.4	265.2	211.5	188.7	175.7	170.8	169.2	167.6
30°	1073.6	898.0	582.4	346.5	237.5	193.6	172.4	164.3	161.0	159.4	159.4
32.5°	1114.3	924.0	575.9	330.2	221.2	178.9	161.0	154.5	151.3	151.3	149.7
35°	1164.7	953.3	571.0	315.6	209.8	169.2	152.9	146.4	144.8	144.8	144.8
37.5°	1224.9	984.2	562.8	305.8	203.3	161.0	146.4	139.9	139.9	139.9	139.9
40°	1291.6	1029.7	561.2	299.3	198.5	156.2	139.9	133.4	133.4	133.4	133.4
42.5°	1366.4	1078.5	559.6	294.4	195.2	152.9	133.4	126.9	126.9	126.9	126.9
45°	1457.5	1140.3	562.8	291.2	195.2	149.7	128.5	120.4	118.8	118.8	118.8
47.5°	1547.0	1198.9	566.1	287.9	192.0	144.8	122.0	113.9	112.2	110.6	110.6
50°	1643.0	1259.1	566.1	284.7	188.7	139.9	117.1	105.7	104.1	102.5	102.5
52.5°	1737.3	1309.5	567.7	279.8	180.6	131.8	109.0	99.2	96.0	94.4	92.7
55°	1828.4	1363.2	569.4	271.7	170.8	123.6	104.1	92.7	87.8	84.6	84.6
57.5°	1896.8	1407.1	561.2	255.4	157.8	115.5	96.0	84.6	78.1	74.8	74.8
60°	1961.8	1434.8	546.6	231.0	144.8	107.4	89.5	76.5	69.9	66.7	66.7
62.5°	1987.9	1439.7	512.4	188.7	128.5	99.2	81.3	69.9	65.1	63.4	63.4
65°	*1973.2*	*1418.5*	*466.9*	*149.7*	*113.9*	*89.5*	*74.8*	*65.1*	*58.6*	*53.7*	*53.7*
67.5°	1893.5	1345.3	405.1	118.8	99.2	81.3	68.3	58.6	52.1	47.2	47.2
70°	1742.2	1228.2	315.6	94.4	86.2	71.6	61.8	53.7	47.2	42.3	42.3
72.5°	1519.4	1065.5	229.4	79.7	74.8	63.4	55.3	48.8	42.3	39.0	39.0
75°	1252.6	821.5	162.7	68.3	66.7	56.9	50.4	43.9	39.0	35.8	35.8
77.5°	940.2	572.6	126.9	60.2	58.6	52.1	45.5	40.7	35.8	34.2	32.5
80°	626.3	354.6	96.0	45.5	43.9	40.7	37.4	34.2	29.3	26.0	26.0
82.5°	279.8	149.7	48.8	26.0	22.8	19.5	16.3	11.4	11.4	9.8	9.8
85°	29.3	19.5	9.8	6.5	6.5	4.9	4.9	4.9	3.3	3.3	3.3
87.5°	4.9	4.9	3.3	3.3	3.3	1.6	1.6	1.6	1.6	1.6	1.6
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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LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2407-157-7

Test Date: 09/05/2024

Luminaire Tested: MEM2-HTN-SA-40-830-U-5WQ

Data in this report applies to families of products including MEM2-HTN-SA-40-830-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

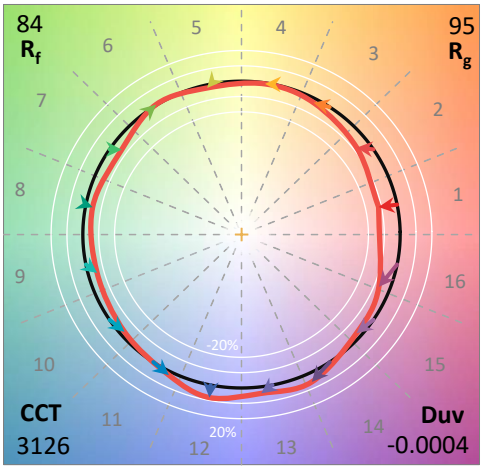
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-157-7
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-40-830-U-5WQ**
Description:	Epic Modern Light Square 40W 5WQ Optic

Spectral Parameters

CCT (K):	3126
CIE u':	0.2465
CIE v':	0.5182
Duv:	-0.0004
CIE x:	0.4277
CIE y:	0.3997
CIE z:	0.1727
Peak Wavelength (nm):	601
Dominant Wavelength (nm):	582
Purity:	48.31913
Rf:	84.4
Rg:	94.7

CRI (Ra):	82.6
R1:	81.4
R2:	92.2
R3:	94.9
R4:	80.1
R5:	81.8
R6:	90.5
R7:	81.8
R8:	58.0
R9:	5.1
R10:	82.2
R11:	79.8
R12:	70.4
R13:	84.2
R14:	97.9
R15:	73.6



Test Conditions

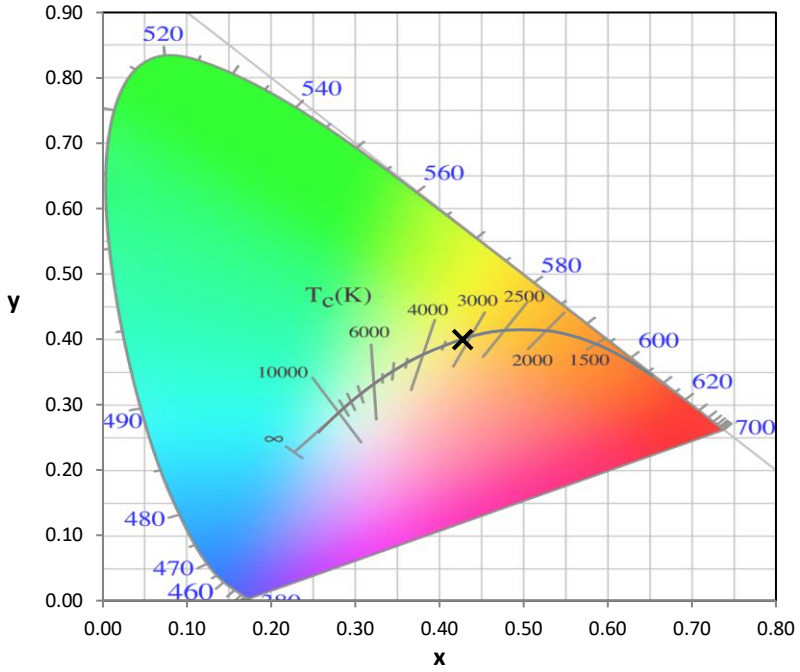
Stabilization Time:	22M
Operation Time:	1H 22M
Sphere Temperature (°C):	24.3

REPORT NUMBER: SP1-2407-157-7

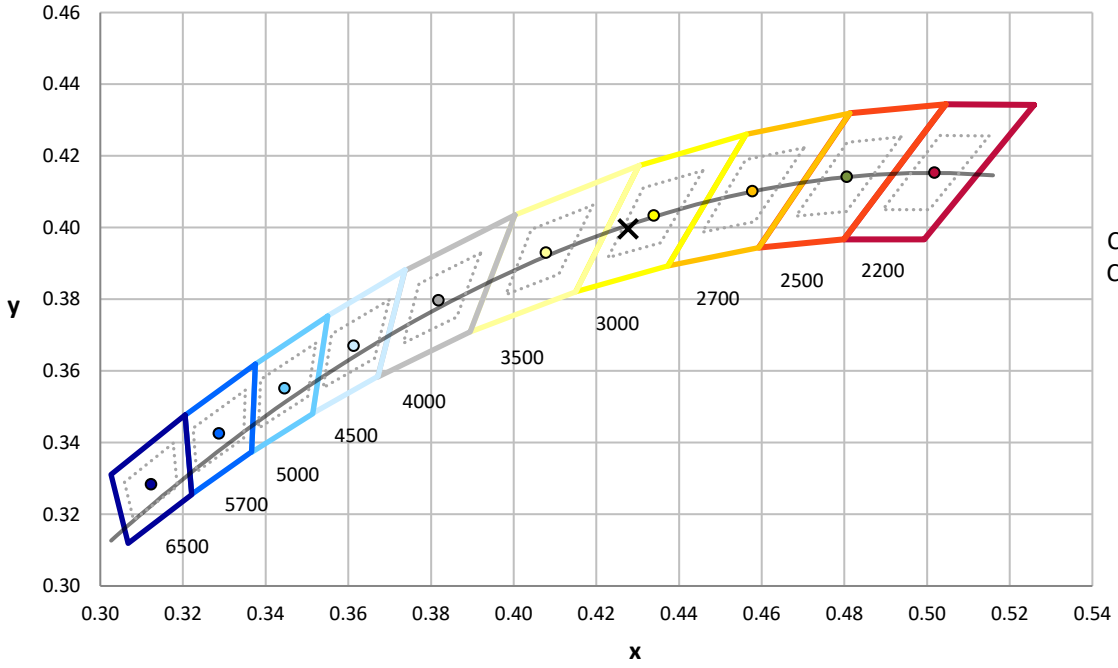
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-157-7

CIE 1931 Chromaticity Diagram



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

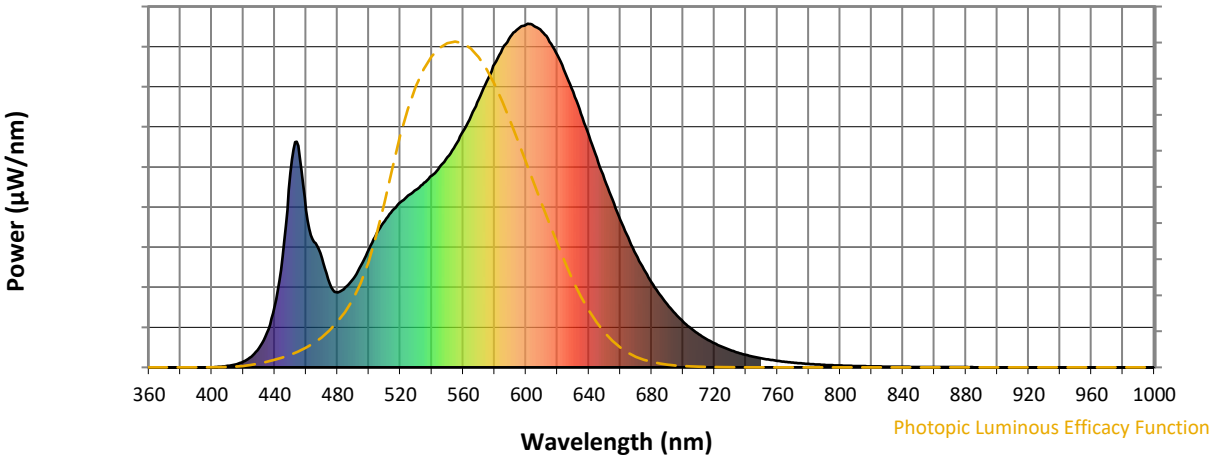


CCT = 3126K
CIE x = 0.4277
CIE y = 0.3997
Duv = -0.0004

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-157-7

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	258	NR	620	908	NR	750	26	NR	880	1	NR
365	0	NR	495	297	NR	625	857	NR	755	22	NR	885	0	NR
370	0	NR	500	345	NR	630	801	NR	760	19	NR	890	0	NR
375	0	NR	505	391	NR	635	738	NR	765	16	NR	895	0	NR
380	0	NR	510	426	NR	640	675	NR	770	14	NR	900	0	NR
385	0	NR	515	456	NR	645	610	NR	775	12	NR	905	0	NR
390	0	NR	520	480	NR	650	547	NR	780	10	NR	910	0	NR
395	0	NR	525	500	NR	655	488	NR	785	9	NR	915	0	NR
400	0	NR	530	517	NR	660	429	NR	790	7	NR	920	0	NR
405	2	NR	535	538	NR	665	378	NR	795	6	NR	925	0	NR
410	4	NR	540	558	NR	670	328	NR	800	5	NR	930	0	NR
415	9	NR	545	584	NR	675	285	NR	805	5	NR	935	0	NR
420	16	NR	550	611	NR	680	247	NR	810	4	NR	940	0	NR
425	31	NR	555	646	NR	685	212	NR	815	3	NR	945	0	NR
430	56	NR	560	687	NR	690	183	NR	820	3	NR	950	0	NR
435	101	NR	565	731	NR	695	156	NR	825	3	NR	955	0	NR
440	178	NR	570	780	NR	700	133	NR	830	2	NR	960	0	NR
445	323	NR	575	832	NR	705	114	NR	835	2	NR	965	0	NR
450	566	NR	580	883	NR	710	96	NR	840	2	NR	970	0	NR
455	645	NR	585	927	NR	715	82	NR	845	1	NR	975	0	NR
460	457	NR	590	963	NR	720	70	NR	850	1	NR	980	0	NR
465	365	NR	595	985	NR	725	59	NR	855	1	NR	985	0	NR
470	317	NR	600	998	NR	730	50	NR	860	1	NR	990	0	NR
475	244	NR	605	994	NR	735	43	NR	865	1	NR	995	0	NR
480	218	NR	610	978	NR	740	36	NR	870	1	NR	1000	0	NR
485	233	NR	615	947	NR	745	31	NR	875	1	NR			

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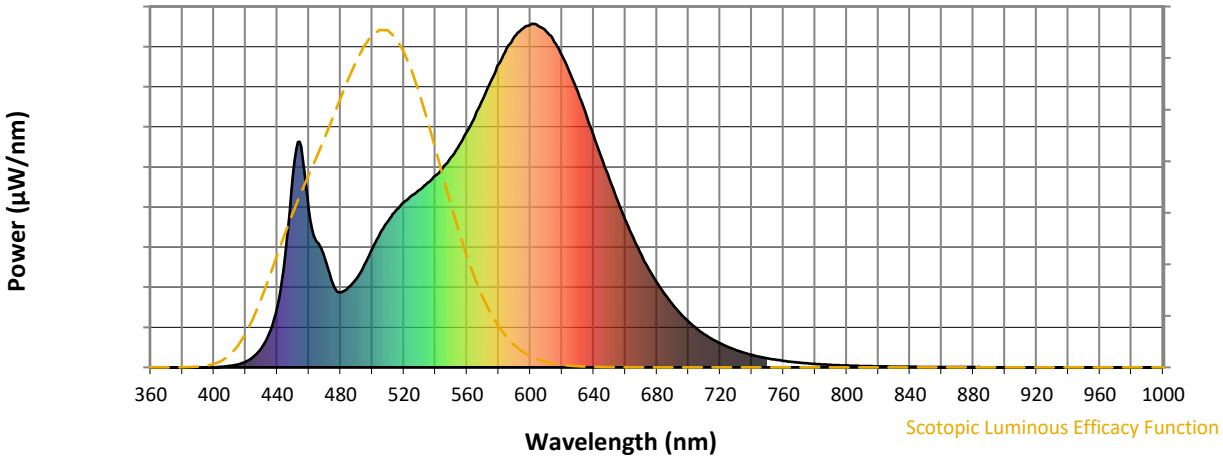
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.42**

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	258	NR	620	908	NR	750	26	NR	880	1	NR
365	0	NR	495	297	NR	625	857	NR	755	22	NR	885	0	NR
370	0	NR	500	345	NR	630	801	NR	760	19	NR	890	0	NR
375	0	NR	505	391	NR	635	738	NR	765	16	NR	895	0	NR
380	0	NR	510	426	NR	640	675	NR	770	14	NR	900	0	NR
385	0	NR	515	456	NR	645	610	NR	775	12	NR	905	0	NR
390	0	NR	520	480	NR	650	547	NR	780	10	NR	910	0	NR
395	0	NR	525	500	NR	655	488	NR	785	9	NR	915	0	NR
400	0	NR	530	517	NR	660	429	NR	790	7	NR	920	0	NR
405	2	NR	535	538	NR	665	378	NR	795	6	NR	925	0	NR
410	4	NR	540	558	NR	670	328	NR	800	5	NR	930	0	NR
415	9	NR	545	584	NR	675	285	NR	805	5	NR	935	0	NR
420	16	NR	550	611	NR	680	247	NR	810	4	NR	940	0	NR
425	31	NR	555	646	NR	685	212	NR	815	3	NR	945	0	NR
430	56	NR	560	687	NR	690	183	NR	820	3	NR	950	0	NR
435	101	NR	565	731	NR	695	156	NR	825	3	NR	955	0	NR
440	178	NR	570	780	NR	700	133	NR	830	2	NR	960	0	NR
445	323	NR	575	832	NR	705	114	NR	835	2	NR	965	0	NR
450	566	NR	580	883	NR	710	96	NR	840	2	NR	970	0	NR
455	645	NR	585	927	NR	715	82	NR	845	1	NR	975	0	NR
460	457	NR	590	963	NR	720	70	NR	850	1	NR	980	0	NR
465	365	NR	595	985	NR	725	59	NR	855	1	NR	985	0	NR
470	317	NR	600	998	NR	730	50	NR	860	1	NR	990	0	NR
475	244	NR	605	994	NR	735	43	NR	865	1	NR	995	0	NR
480	218	NR	610	978	NR	740	36	NR	870	1	NR	1000	0	NR
485	233	NR	615	947	NR	745	31	NR	875	1	NR			

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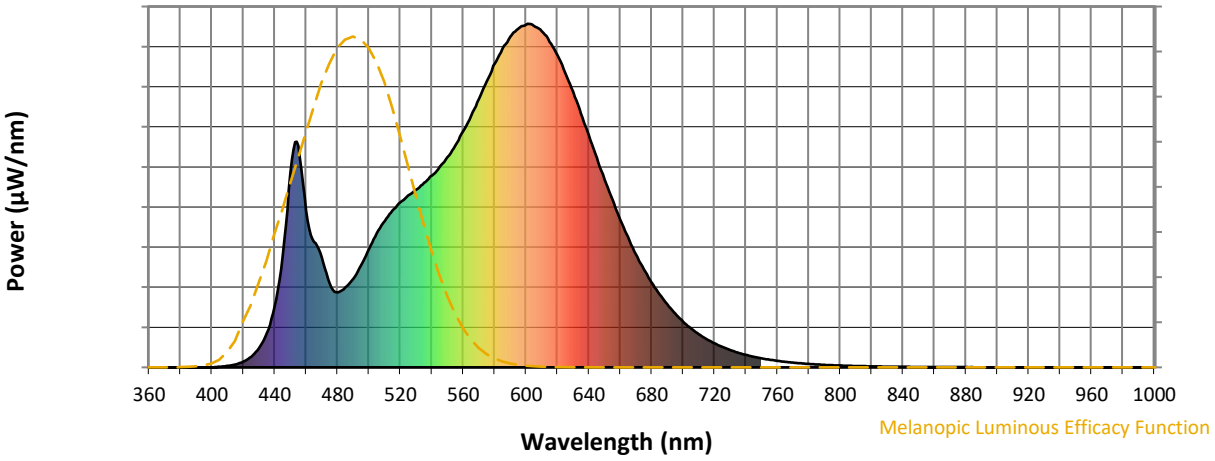
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.79**

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	258	NR	620	908	NR	750	26	NR	880	1	NR
365	0	NR	495	297	NR	625	857	NR	755	22	NR	885	0	NR
370	0	NR	500	345	NR	630	801	NR	760	19	NR	890	0	NR
375	0	NR	505	391	NR	635	738	NR	765	16	NR	895	0	NR
380	0	NR	510	426	NR	640	675	NR	770	14	NR	900	0	NR
385	0	NR	515	456	NR	645	610	NR	775	12	NR	905	0	NR
390	0	NR	520	480	NR	650	547	NR	780	10	NR	910	0	NR
395	0	NR	525	500	NR	655	488	NR	785	9	NR	915	0	NR
400	0	NR	530	517	NR	660	429	NR	790	7	NR	920	0	NR
405	2	NR	535	538	NR	665	378	NR	795	6	NR	925	0	NR
410	4	NR	540	558	NR	670	328	NR	800	5	NR	930	0	NR
415	9	NR	545	584	NR	675	285	NR	805	5	NR	935	0	NR
420	16	NR	550	611	NR	680	247	NR	810	4	NR	940	0	NR
425	31	NR	555	646	NR	685	212	NR	815	3	NR	945	0	NR
430	56	NR	560	687	NR	690	183	NR	820	3	NR	950	0	NR
435	101	NR	565	731	NR	695	156	NR	825	3	NR	955	0	NR
440	178	NR	570	780	NR	700	133	NR	830	2	NR	960	0	NR
445	323	NR	575	832	NR	705	114	NR	835	2	NR	965	0	NR
450	566	NR	580	883	NR	710	96	NR	840	2	NR	970	0	NR
455	645	NR	585	927	NR	715	82	NR	845	1	NR	975	0	NR
460	457	NR	590	963	NR	720	70	NR	850	1	NR	980	0	NR
465	365	NR	595	985	NR	725	59	NR	855	1	NR	985	0	NR
470	317	NR	600	998	NR	730	50	NR	860	1	NR	990	0	NR
475	244	NR	605	994	NR	735	43	NR	865	1	NR	995	0	NR
480	218	NR	610	978	NR	740	36	NR	870	1	NR	1000	0	NR
485	233	NR	615	947	NR	745	31	NR	875	1	NR			

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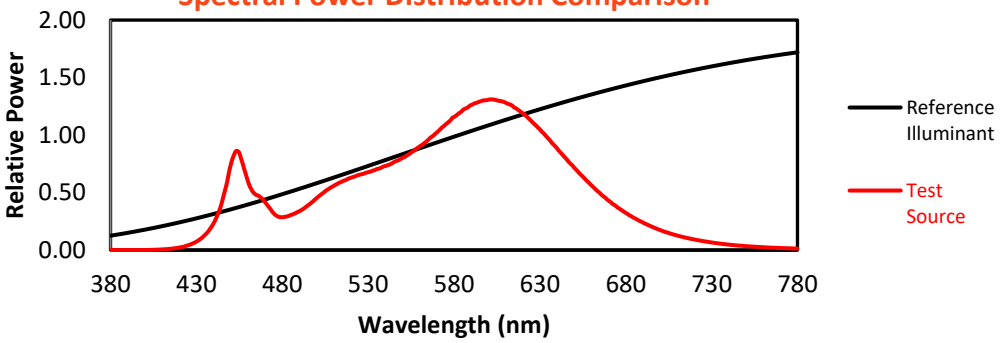
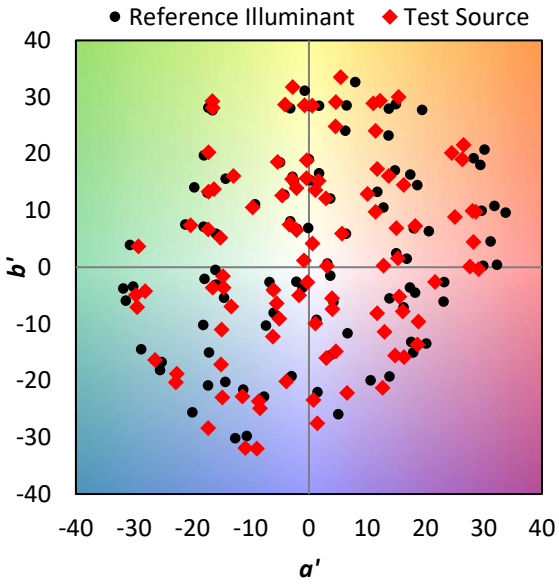
Summary

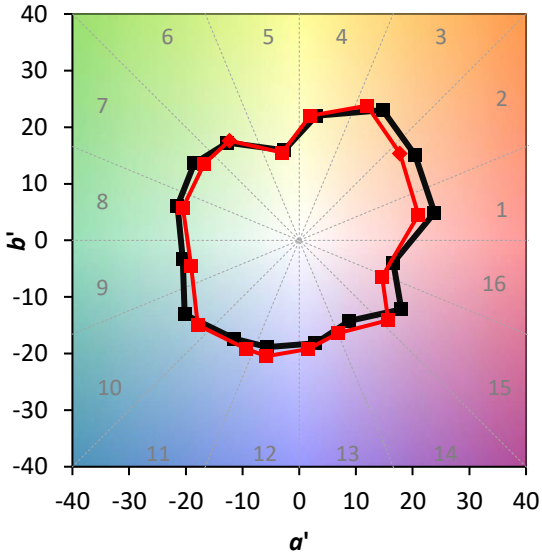
R_f = 84.4
R_g = 94.7
CIE R_a = 82.6
R_9 = 5.1

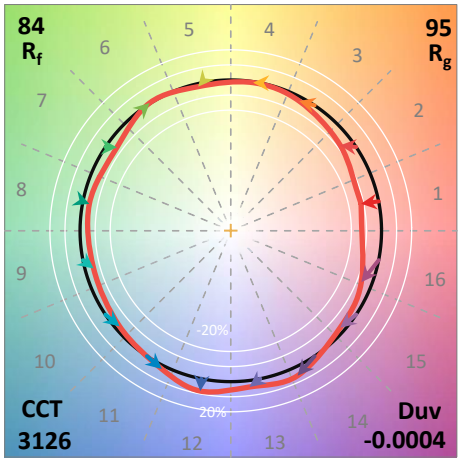
Spectral Power Distribution Comparison

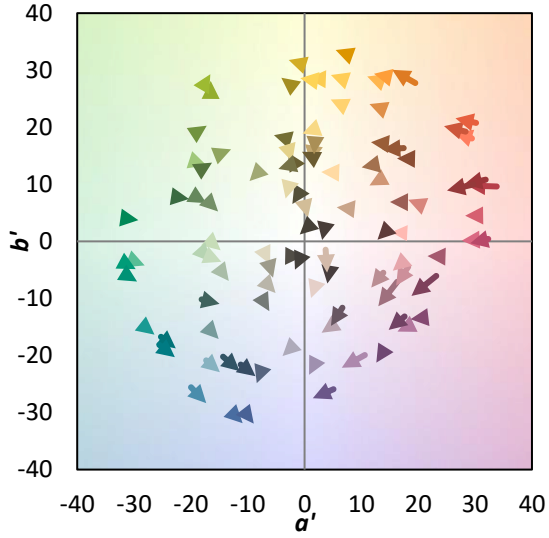


Color Vector Graphics









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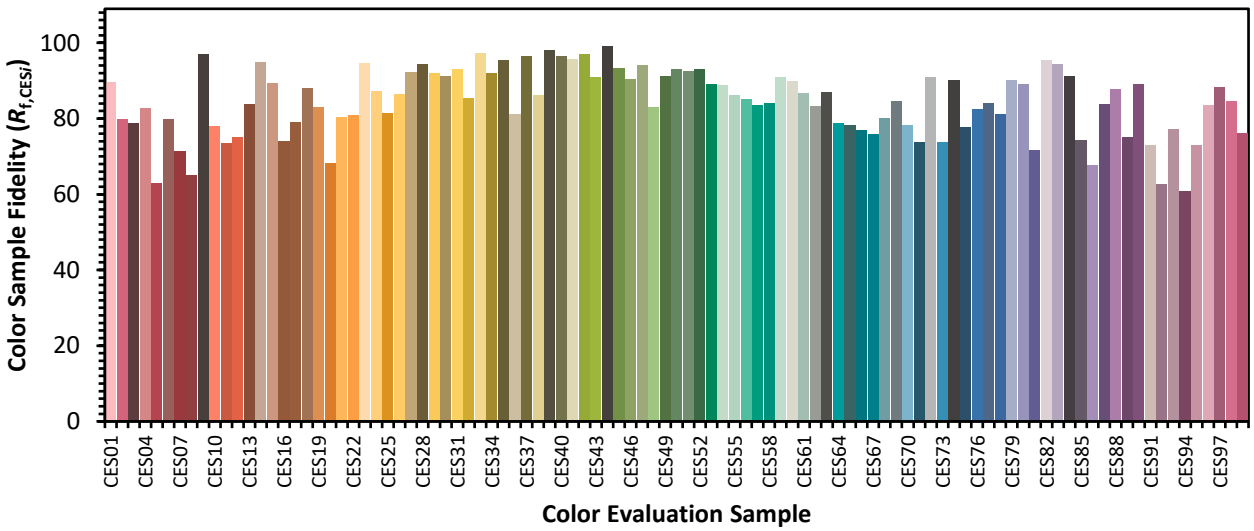
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 86	CES51 = 93	CES76 = 82
CES02 = 63	CES27 = 92	CES52 = 93	CES77 = 84
CES03 = 31	CES28 = 94	CES53 = 89	CES78 = 81
CES04 = 70	CES29 = 92	CES54 = 89	CES79 = 90
CES05 = 49	CES30 = 91	CES55 = 86	CES80 = 89
CES06 = 51	CES31 = 93	CES56 = 85	CES81 = 72
CES07 = 42	CES32 = 85	CES57 = 83	CES82 = 95
CES08 = 41	CES33 = 97	CES58 = 84	CES83 = 94
CES09 = 29	CES34 = 92	CES59 = 91	CES84 = 91
CES10 = 76	CES35 = 96	CES60 = 90	CES85 = 74
CES11 = 59	CES36 = 81	CES61 = 87	CES86 = 68
CES12 = 65	CES37 = 96	CES62 = 83	CES87 = 84
CES13 = 43	CES38 = 86	CES63 = 87	CES88 = 88
CES14 = 74	CES39 = 98	CES64 = 79	CES89 = 75
CES15 = 71	CES40 = 96	CES65 = 78	CES90 = 89
CES16 = 47	CES41 = 96	CES66 = 77	CES91 = 73
CES17 = 50	CES42 = 97	CES67 = 76	CES92 = 63
CES18 = 56	CES43 = 91	CES68 = 80	CES93 = 77
CES19 = 72	CES44 = 99	CES69 = 85	CES94 = 61
CES20 = 66	CES45 = 93	CES70 = 78	CES95 = 73
CES21 = 87	CES46 = 90	CES71 = 74	CES96 = 84
CES22 = 79	CES47 = 94	CES72 = 91	CES97 = 88
CES23 = 92	CES48 = 83	CES73 = 74	CES98 = 85
CES24 = 91	CES49 = 91	CES74 = 90	CES99 = 76
CES25 = 72	CES50 = 93	CES75 = 78	



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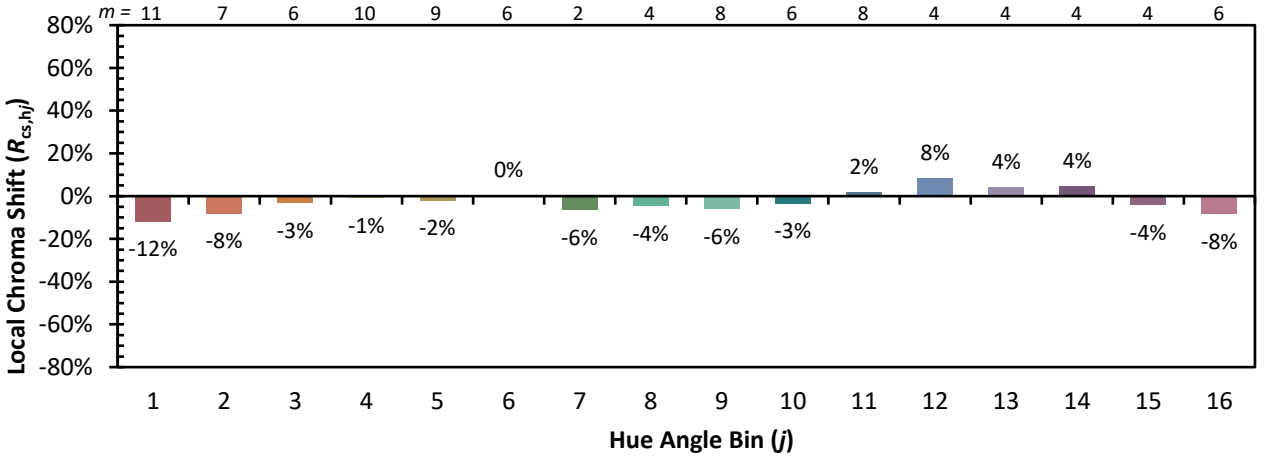
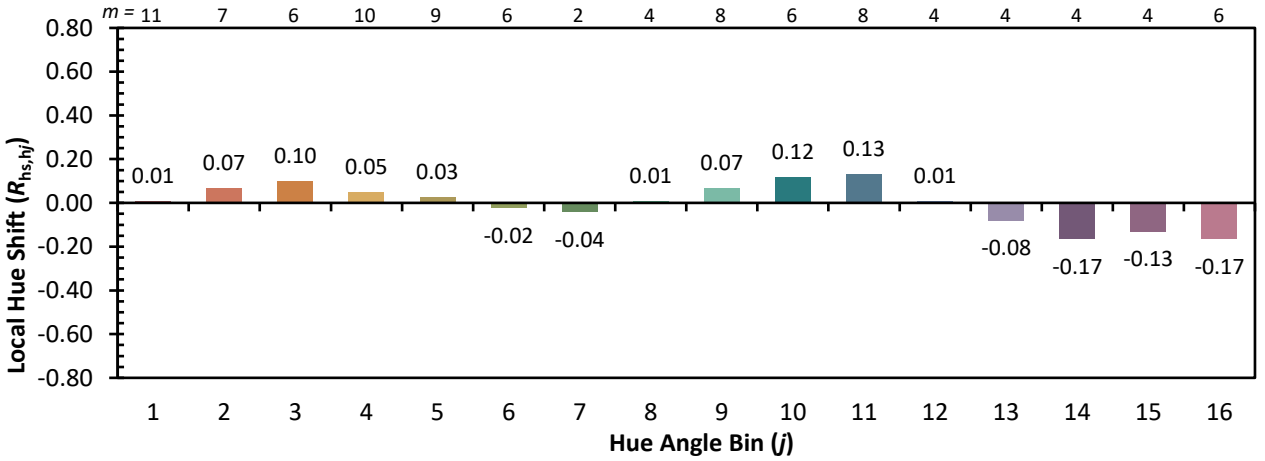
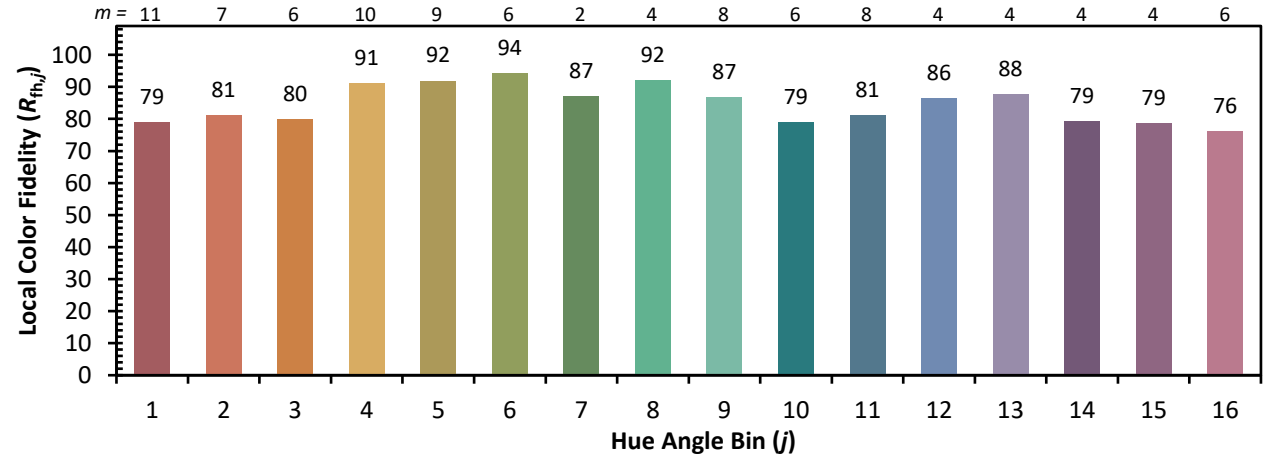
Color Rendition by Hue-Angle Bin







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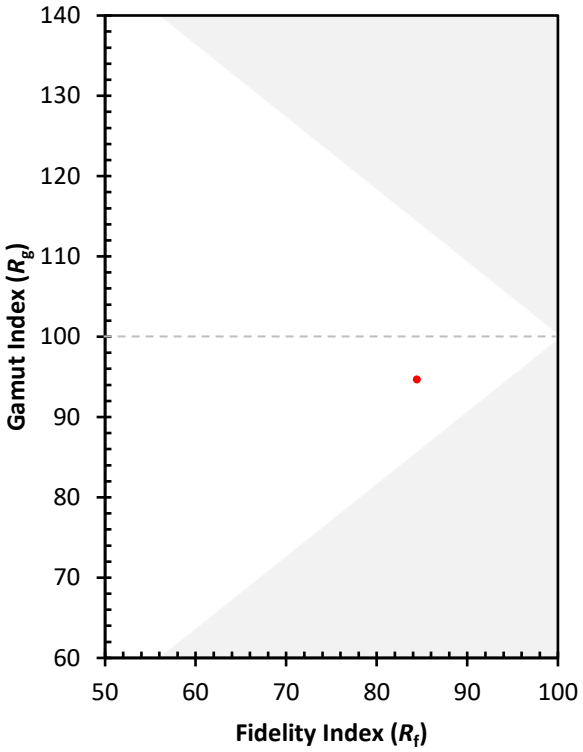
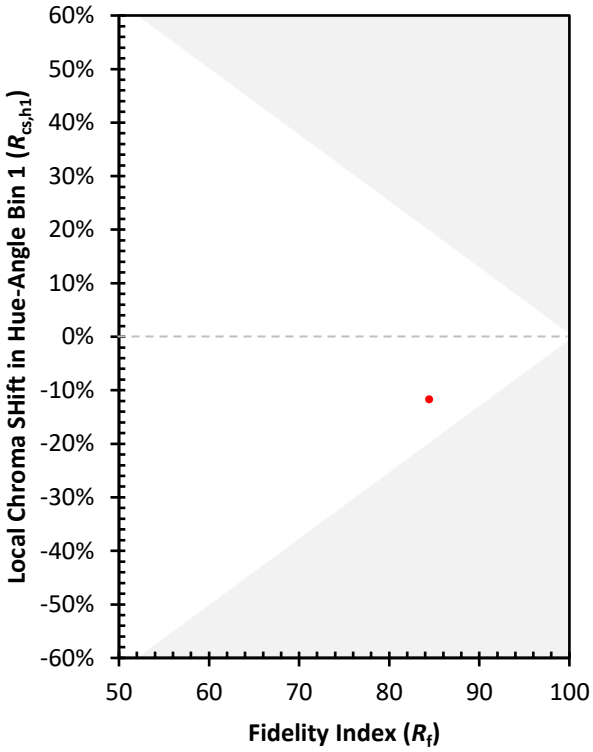
Measure Comparisons





(END OF REPORT)