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: P870451

Luminaire Tested: **MEM2-HSN-SA-110-830-U-T4W**

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:	P870451
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	09/05/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	MEM2-HSN-SA-110-830-U-T4W
Description:	EPIC MODERN SHORT HOUSING DISCRETE LED ARRAYS 110W 80CRI 3000K FIXTURE w/ TYPE IV WIDE DISTRIBUTION OPTIC
Light Source:	(30) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	14526.3 lumens
Efficiency:	N/A
Efficacy:	128.6 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.33' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U0 - G3

Input Watts (W):	113
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	7.77%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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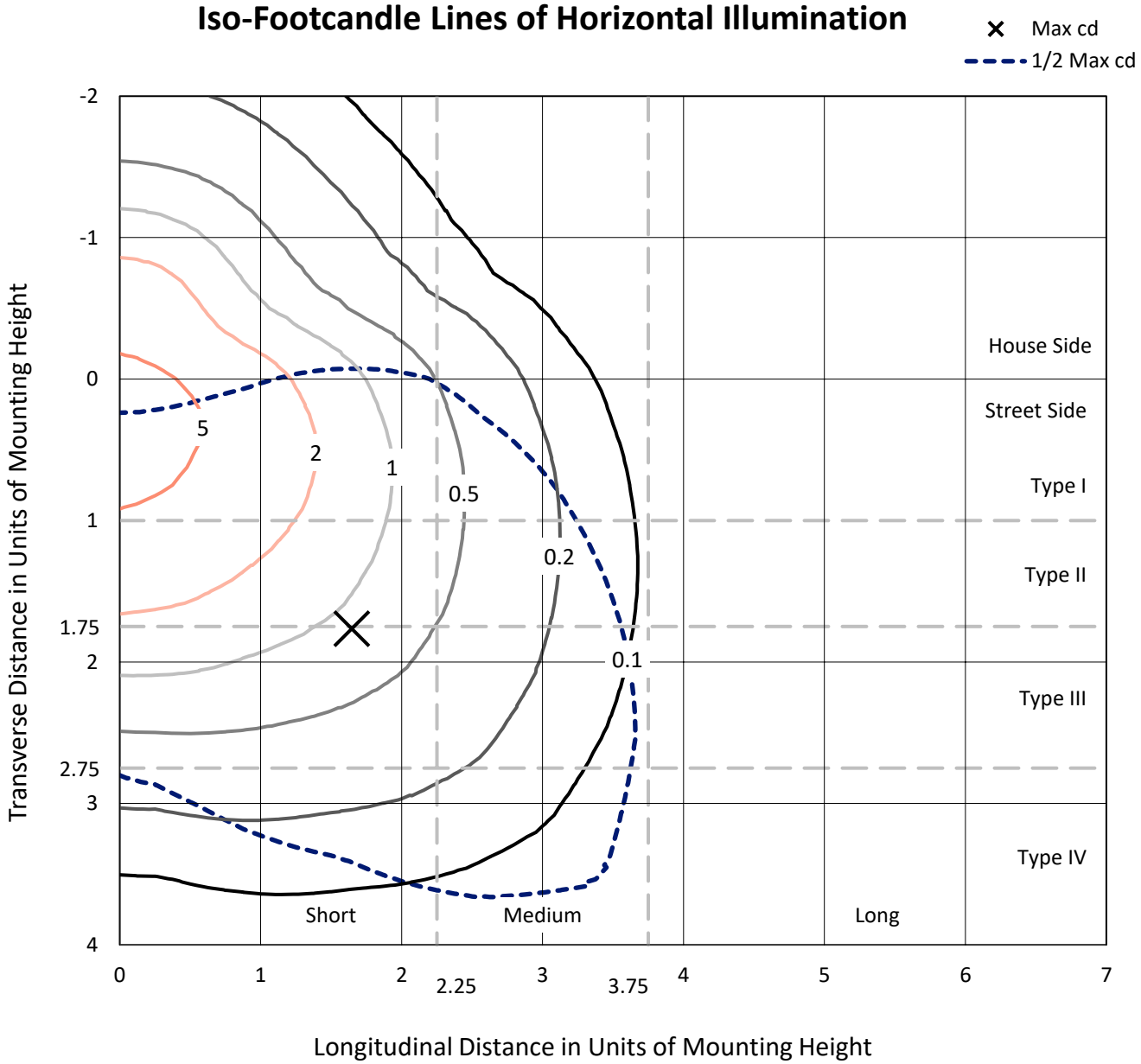
REPORT NUMBER: P870451
CATALOG NUMBER: MEM2-HSN-SA-110-830-U-T4W

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 6.9 fc
Type IV - Short - N/A

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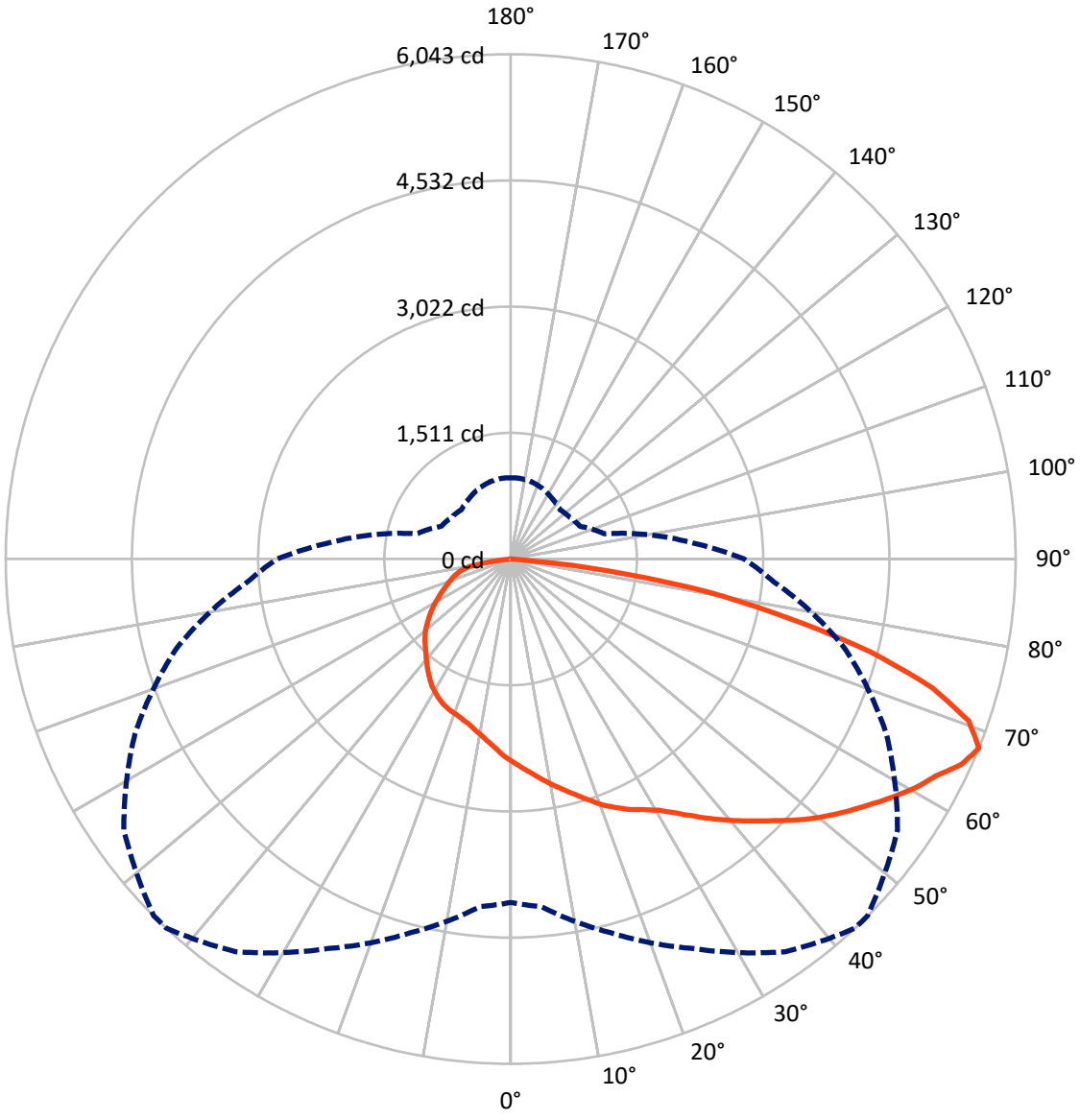
Luminous Intensity Polar Plot



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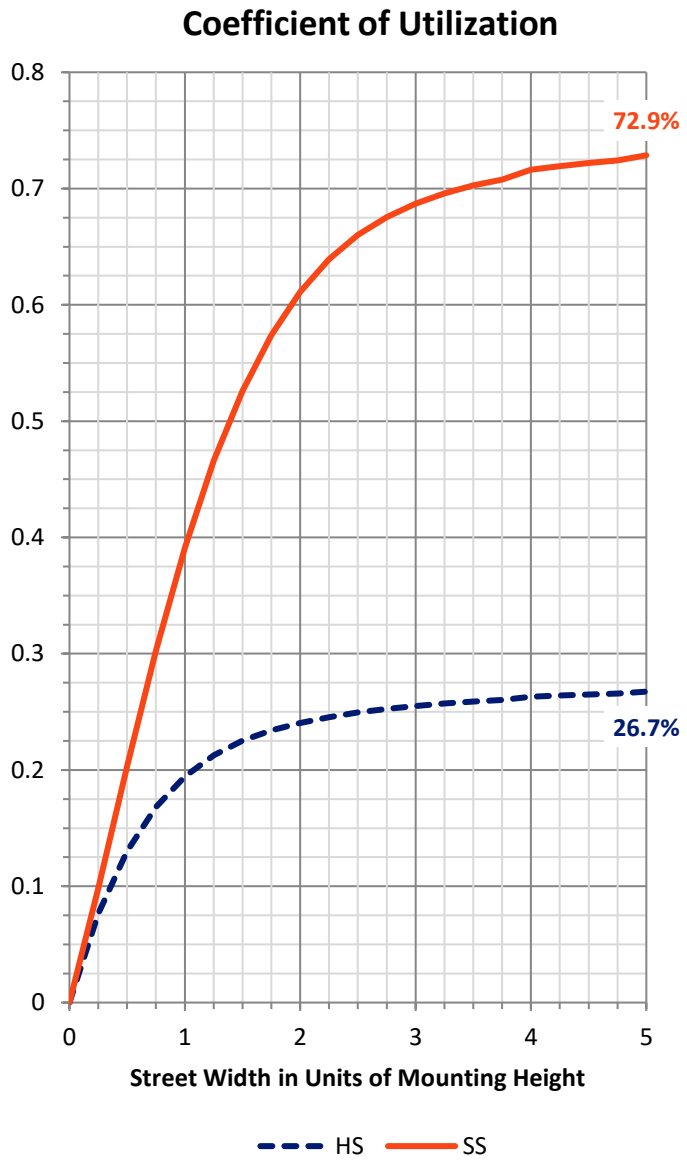
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3907.6	0.0	3907.6
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	10618.7	0.0	10618.7
	% Fixture	73.1	0.0	73.1
Total	Lumens	14526.3	0.0	14526.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.1	1.6
10°-20°	708.7	4.9
20°-30°	1209.2	8.3
30°-40°	1763.5	12.1
40°-50°	2369.1	16.3
50°-60°	2900.1	20.0
60°-70°	3052.2	21.0
70°-80°	1992.6	13.7
80°-90°	298.9	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°	14526.3	100.0
0°-180°	14526.3	100.0



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REPORT NUMBER: P870451
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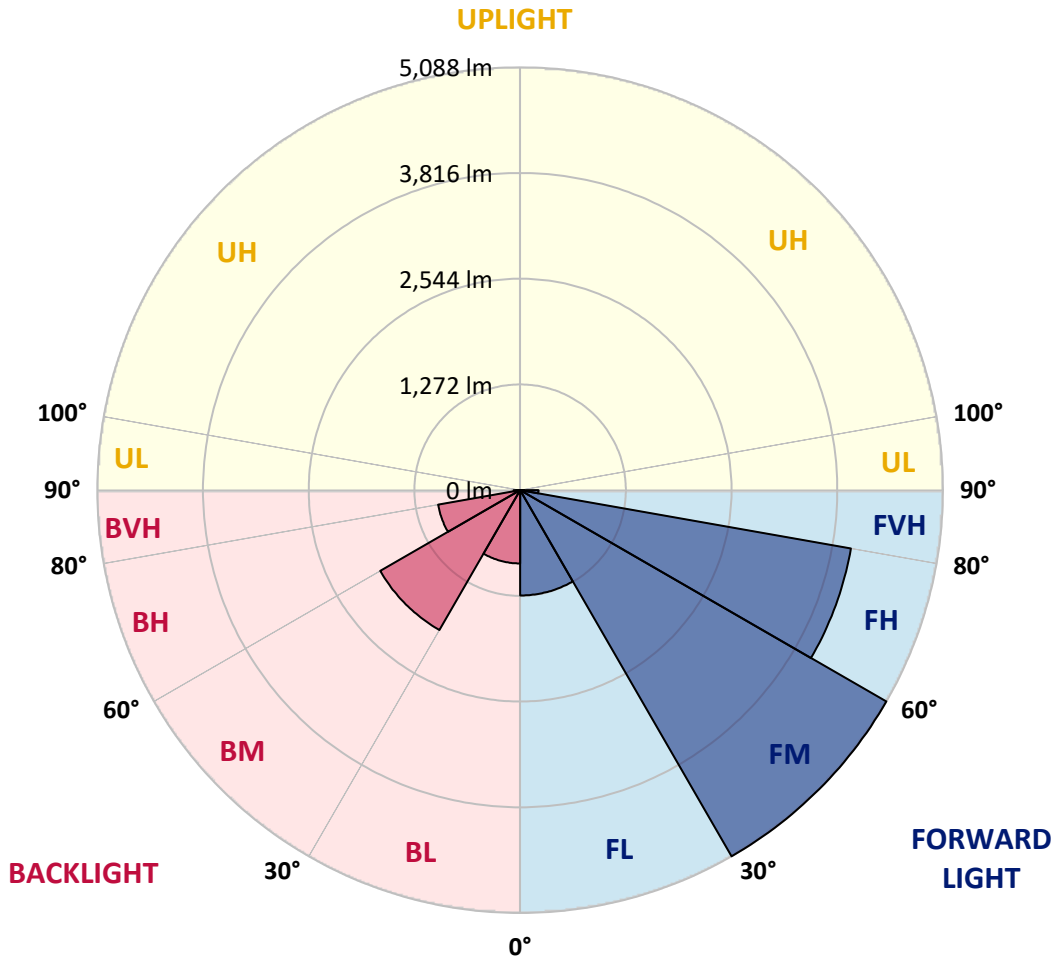
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1267.7	8.7			
FM	(30°-60°)	5088.4	35.0			
FH	(60°-80°)	4042.0	27.8			G2/5000
FVH	(80°-90°)	220.5	1.5			G2/225
BL	(0°-30°)	882.2	6.1	B2/1000		
BM	(30°-60°)	1944.2	13.4	B2/2500		
BH	(60°-80°)	1002.8	6.9	B3/2500		G3/2500
BVH	(80°-90°)	78.4	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
Type IV Short



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REPORT NUMBER: P870451
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	2424.9	2424.9	2424.9	2424.9	2424.9	*2424.9*	2424.9	2424.9	2424.9	2424.9	2424.9
2.5°	2536.6	2533.6	2524.8	2518.9	2501.3	*2498.4*	2498.4	2480.7	2460.1	2448.4	2436.6
5°	2651.2	2636.5	2630.6	2618.9	2589.5	*2571.8*	2577.7	2545.4	2504.2	2474.8	2442.5
7.5°	2754.1	2748.2	2727.6	2712.9	2677.6	*2660.0*	2654.1	2604.2	2551.3	2507.2	2454.3
10°	2877.5	2862.8	2851.1	2821.7	2774.6	*2748.2*	2739.4	2674.7	2607.1	2548.3	2477.8
12.5°	2989.2	2971.6	2956.9	2927.5	2880.5	*2836.4*	2824.6	2751.1	2665.9	2586.5	2498.4
15°	3074.4	3077.4	3062.7	3036.2	2983.3	*2930.4*	2921.6	2824.6	2721.7	2624.7	2518.9
17.5°	3153.8	3165.6	3156.7	3139.1	3086.2	*3033.3*	3024.5	2915.7	2792.3	2668.8	2542.4
20°	3230.2	3230.2	3227.3	3215.5	3177.3	*3142.0*	3124.4	3015.7	2859.9	2715.9	2574.8
22.5°	3274.3	3286.1	3286.1	3286.1	3262.6	*3233.2*	3227.3	3121.5	2951.0	2774.6	2604.2
25°	3341.9	3356.6	3356.6	3350.7	3330.2	*3321.3*	3312.5	3212.6	3039.2	2842.2	2636.5
27.5°	3485.9	3483.0	3459.5	3430.1	3400.7	*3397.8*	3386.0	3315.5	3142.0	2915.7	2680.6
30°	3685.8	3691.7	3662.3	3571.2	3503.6	*3488.9*	3491.8	3430.1	3262.6	3001.0	2730.6
32.5°	3991.5	3991.5	3876.9	3759.3	3662.3	*3624.1*	3615.3	3562.4	3386.0	3095.0	2786.4
35°	4220.8	4211.9	4147.3	4009.1	3888.6	*3779.9*	3765.2	3694.6	3524.2	3200.8	2848.1
37.5°	4394.2	4411.8	4361.8	4256.0	4138.5	*3950.3*	3920.9	3821.0	3650.5	3303.7	2909.8
40°	4729.2	4685.2	4564.6	4467.6	4326.6	*4117.9*	4091.4	3968.0	3779.9	3418.3	2986.3
42.5°	4973.2	4911.5	4773.3	4644.0	4467.6	*4285.4*	4261.9	4126.7	3929.8	3547.7	3065.6
45°	5323.0	5184.8	4993.8	4879.1	4629.3	*4467.6*	4438.3	4291.3	4085.5	3685.8	3165.6
47.5°	5661.0	5420.0	5217.2	5164.2	4805.7	*4664.6*	4641.1	4470.6	4253.1	3835.7	3262.6
50°	5616.9	5458.2	5390.6	5340.6	4958.5	*4849.7*	4826.2	4652.8	4423.6	3994.4	3359.6
52.5°	5505.2	5519.9	5522.8	5402.3	5102.5	*5023.2*	4999.6	4849.7	4599.9	4132.6	3453.6
55°	5622.8	5640.4	5637.5	5455.2	5270.1	*5196.6*	5181.9	5049.6	4770.4	4261.9	3521.2
57.5°	5802.1	5743.3	5734.5	5587.5	5449.4	*5381.8*	5364.1	5249.5	4914.4	4356.0	3574.1
60°	5834.4	5716.8	5755.0	5616.9	5584.6	*5564.0*	5558.1	5422.9	5049.6	4432.4	3594.7
62.5°	5472.9	5452.3	5602.2	5546.3	5655.1	*5713.9*	5716.8	5546.3	5123.1	4461.8	3574.1
65°	4855.6	4937.9	5261.2	5422.9	5760.9	*5928.4*	5922.6	5619.8	5114.3	4376.5	3447.7
67.5°	*4112.0*	*4176.7*	*4632.2*	*5143.7*	*5737.4*	*6043.1*	*6040.1*	*5652.2*	*4961.4*	*4141.4*	*3162.6*
70°	3118.5	3321.3	3968.0	4641.1	5420.0	*5816.8*	5866.7	5469.9	4611.7	3712.3	2730.6
72.5°	2372.0	2404.3	3186.1	3891.6	4852.7	*5278.9*	5270.1	4888.0	4026.8	3127.4	2275.0
75°	1684.2	1754.7	2398.4	3015.7	3976.8	*4450.0*	4429.4	4009.1	3212.6	2433.7	1740.0
77.5°	1255.1	1281.5	1754.7	2236.8	2974.5	*3400.7*	3391.9	2962.8	2363.2	1787.1	1296.2
80°	917.0	961.1	1263.9	1560.7	2016.3	*2383.7*	2372.0	1966.4	1516.6	1249.2	946.4
82.5°	514.4	546.7	734.8	943.5	1064.0	*1178.6*	1128.7	943.5	690.7	537.9	464.4
85°	14.7	17.6	26.5	32.3	55.8	*94.1*	102.9	91.1	108.8	67.6	73.5
87.5°	5.9	5.9	5.9	5.9	5.9	*8.8*	8.8	8.8	8.8	8.8	8.8
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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CATALOG NUMBER: MEM2-HSN-SA-110-830-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2424.9	2424.9	2424.9	2424.9	2424.9	2424.9	2424.9	2424.9	2424.9	2424.9	2424.9
2.5°	2430.8	2419.0	2395.5	2380.8	2372.0	2360.2	2342.6	2330.8	2322.0	2333.8	2330.8
5°	2427.8	2404.3	2363.2	2333.8	2304.4	2280.9	2254.4	2233.8	2222.1	2227.9	2225.0
7.5°	2427.8	2398.4	2333.8	2286.7	2242.6	2207.4	2178.0	2151.5	2139.8	2142.7	2139.8
10°	2439.6	2398.4	2313.2	2245.6	2186.8	2145.6	2113.3	2089.8	2081.0	2089.8	2092.7
12.5°	2451.3	2398.4	2295.5	2210.3	2133.9	2089.8	2060.4	2045.7	2051.6	2054.5	2057.5
15°	2457.2	2395.5	2277.9	2169.2	2083.9	2036.9	2019.3	2016.3	2031.0	2045.7	2048.7
17.5°	2471.9	2392.5	2251.5	2128.0	2039.8	2001.6	1992.8	2004.6	2034.0	2054.5	2060.4
20°	2489.5	2398.4	2222.1	2078.0	1995.7	1966.4	1981.0	2007.5	2042.8	2072.2	2078.0
22.5°	2507.2	2401.4	2195.6	2034.0	1948.7	1942.8	1975.2	2013.4	2054.5	2083.9	2089.8
25°	2527.7	2401.4	2160.3	1978.1	1901.7	1910.5	1960.5	2010.4	2048.7	2086.9	2092.7
27.5°	2548.3	2407.2	2122.1	1916.4	1842.9	1869.4	1931.1	1992.8	2034.0	2072.2	2081.0
30°	2583.6	2419.0	2089.8	1863.5	1784.1	1819.4	1892.9	1963.4	2007.5	2048.7	2057.5
32.5°	2618.9	2436.6	2063.3	1807.6	1725.3	1766.5	1848.8	1928.1	1975.2	2013.4	2019.3
35°	2665.9	2460.1	2042.8	1751.8	1666.5	1698.9	1787.1	1875.2	1928.1	1957.5	1972.2
37.5°	2715.9	2492.5	2025.1	1701.8	1601.9	1631.3	1725.3	1819.4	1875.2	1904.6	1910.5
40°	2777.6	2536.6	2013.4	1654.8	1540.2	1563.7	1657.7	1760.6	1813.5	1834.1	1845.8
42.5°	2845.2	2583.6	2004.6	1607.8	1472.6	1496.1	1596.0	1695.9	1748.8	1766.5	1775.3
45°	2930.4	2645.3	1998.7	1557.8	1416.7	1437.3	1537.2	1637.2	1681.2	1704.8	1713.6
47.5°	3009.8	2707.0	1981.0	1499.0	1355.0	1384.4	1475.5	1563.7	1613.6	1628.3	1637.2
50°	3089.1	2759.9	1945.8	1434.3	1299.1	1325.6	1407.9	1472.6	1510.8	1528.4	1534.3
52.5°	3165.6	2798.2	1889.9	1366.7	1240.4	1258.0	1325.6	1387.3	1413.8	1419.7	1437.3
55°	3215.5	2818.7	1810.6	1287.4	1181.6	1187.5	1237.4	1293.3	1308.0	1310.9	1310.9
57.5°	3250.8	2807.0	1716.5	1208.0	1122.8	1122.8	1152.2	1196.3	1202.1	1205.1	1211.0
60°	3256.7	2765.8	1596.0	1134.5	1058.1	1049.3	1078.7	1105.2	1108.1	1114.0	1119.9
62.5°	3212.6	2674.7	1466.7	1064.0	996.4	975.8	1002.3	1028.7	1043.4	1052.2	1058.1
65°	3077.4	2489.5	1319.7	993.5	937.6	902.3	934.7	978.8	1008.2	1011.1	1011.1
67.5°	*2795.2*	*2189.7*	*1163.9*	*920.0*	*867.1*	*834.7*	*875.9*	*922.9*	*958.2*	*972.9*	*969.9*
70°	2369.0	1857.6	1019.9	843.6	796.5	776.0	820.0	873.0	902.3	914.1	920.0
72.5°	1907.6	1487.3	893.5	767.1	734.8	723.1	767.1	820.0	861.2	878.8	881.8
75°	1484.3	1169.8	787.7	687.8	661.3	664.3	711.3	764.2	808.3	817.1	790.7
77.5°	1152.2	931.7	687.8	593.7	579.0	599.6	646.6	702.5	728.9	737.7	720.1
80°	831.8	714.2	555.5	467.3	467.3	499.7	540.8	605.5	614.3	602.5	608.4
82.5°	393.9	346.8	273.3	226.3	211.6	235.1	249.8	270.4	293.9	299.8	285.1
85°	52.9	35.3	26.5	29.4	26.5	17.6	11.8	11.8	11.8	8.8	8.8
87.5°	8.8	8.8	5.9	5.9	5.9	5.9	5.9	5.9	2.9	2.9	2.9
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: SP1-2407-157-7

Test Date: 09/05/2024

Luminaire Tested: MEM2-HTN-SA-30-830-U-5WQ

Data in this report applies to families of products including MEM2-HTN-SA-30-830-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

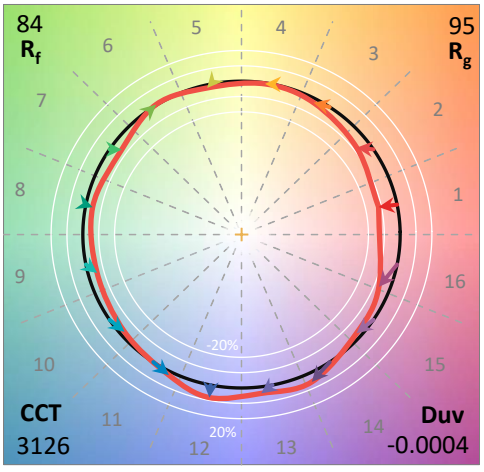
Test Information

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-30-830-U-5WQ**
Description:	Epic Modern Light Square 30W 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

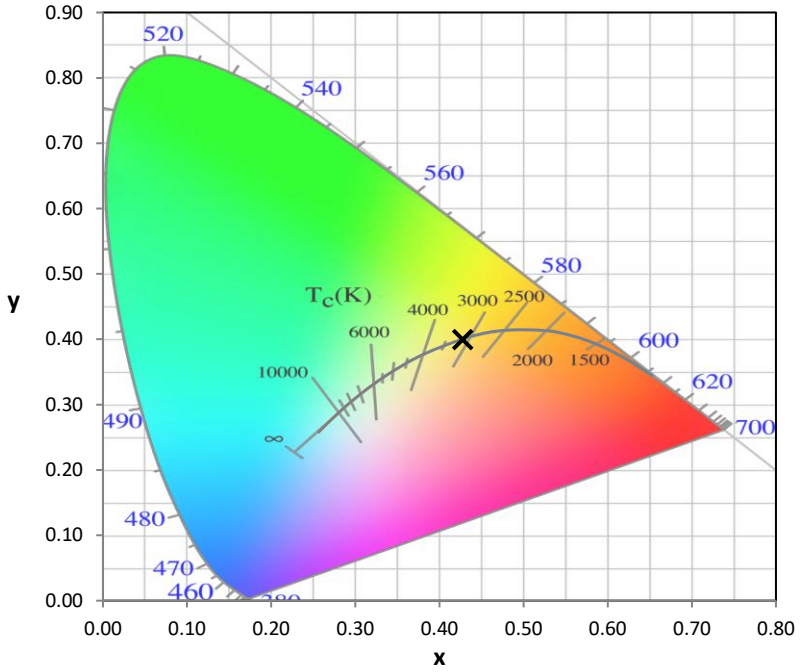
Stabilization Time:	22M
Operation Time:	1H 22M
Sphere Temperature (°C):	24.3

REPORT NUMBER: SP1-2407-157-7

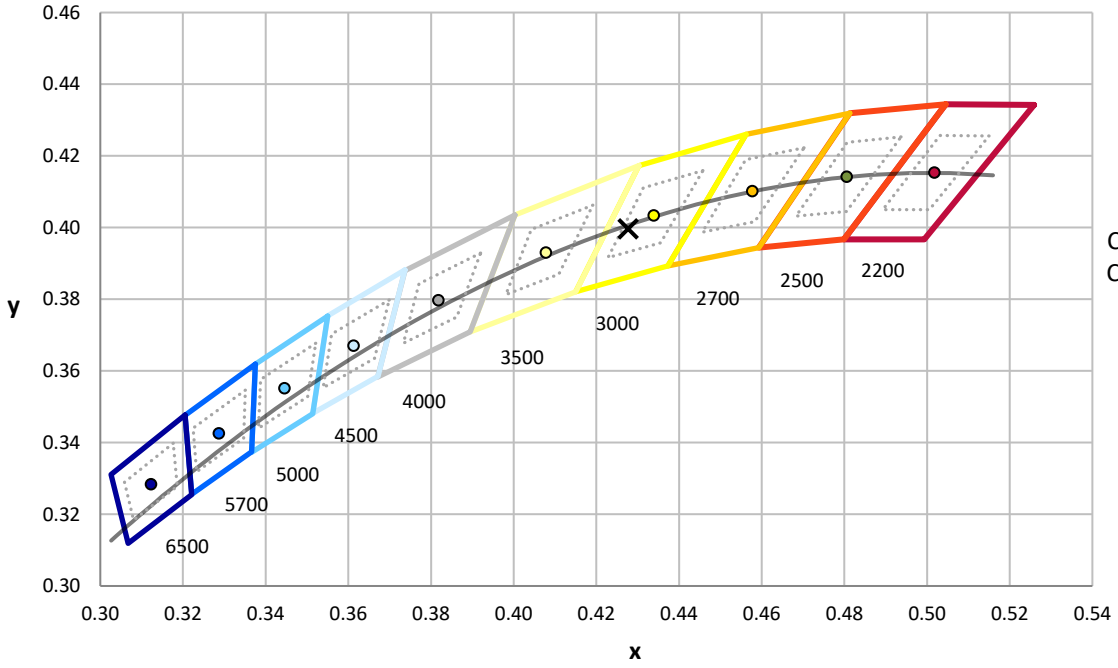
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

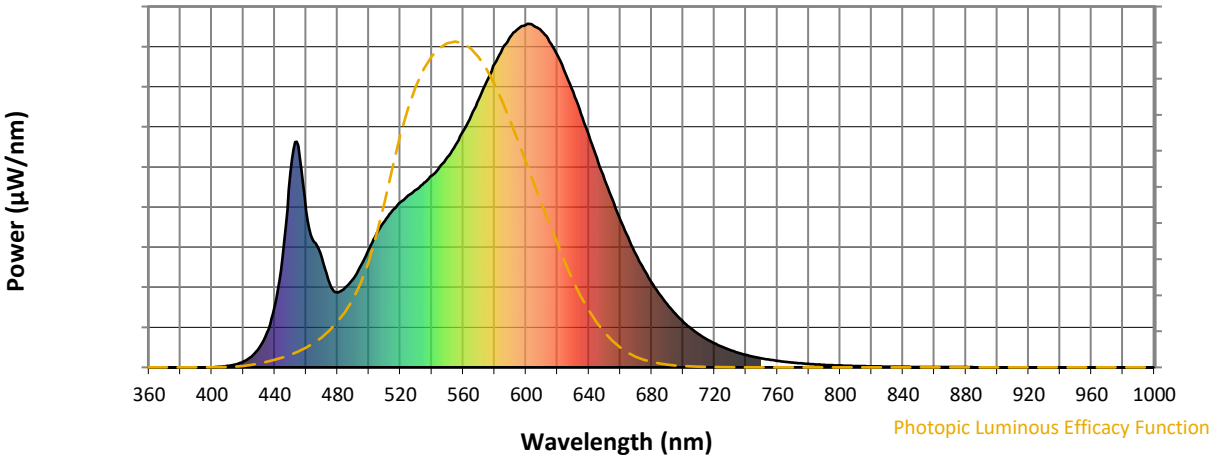


CCT = 3126K
CIE x = 0.4277
CIE y = 0.3997
Duv = -0.0004

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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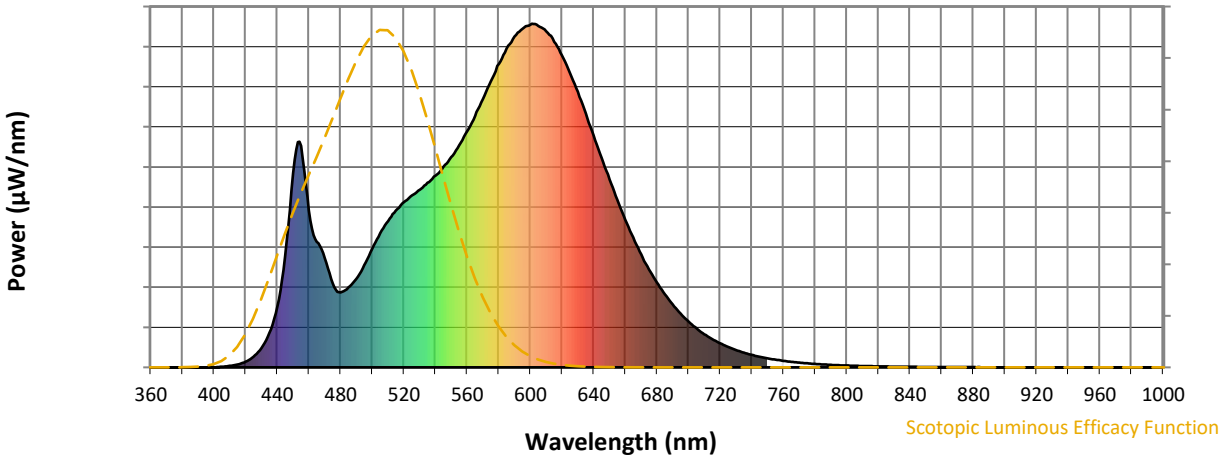
Scotopic Flux vs. Wavelength



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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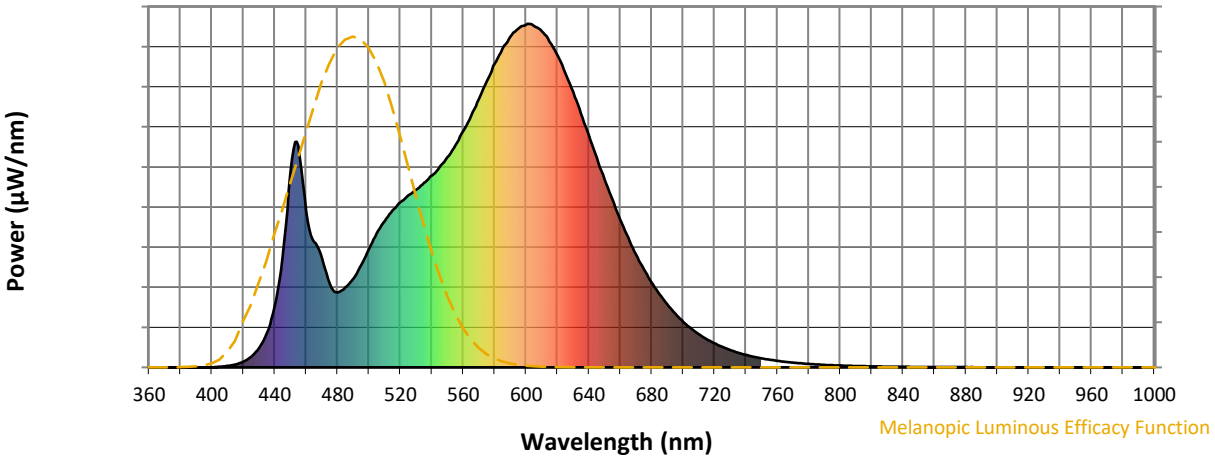
Melanopic Flux vs. Wavelength



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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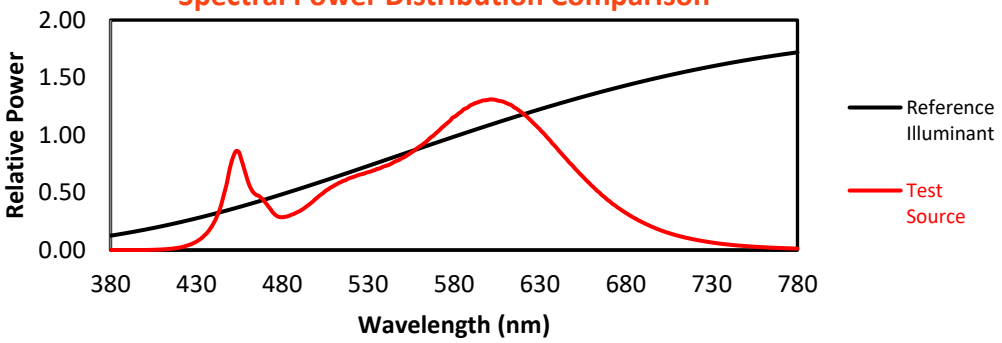
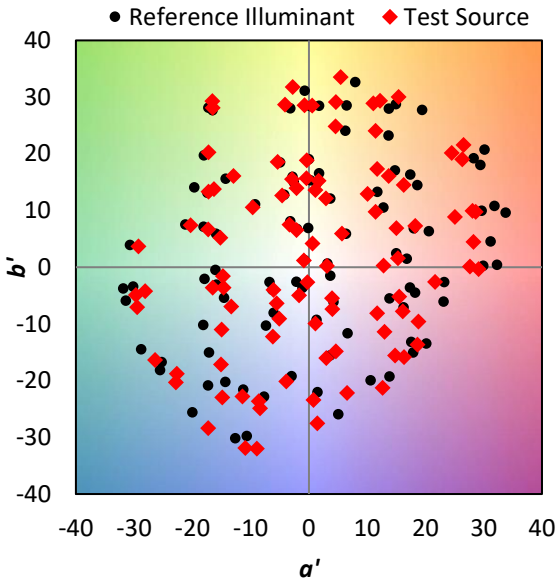
Summary

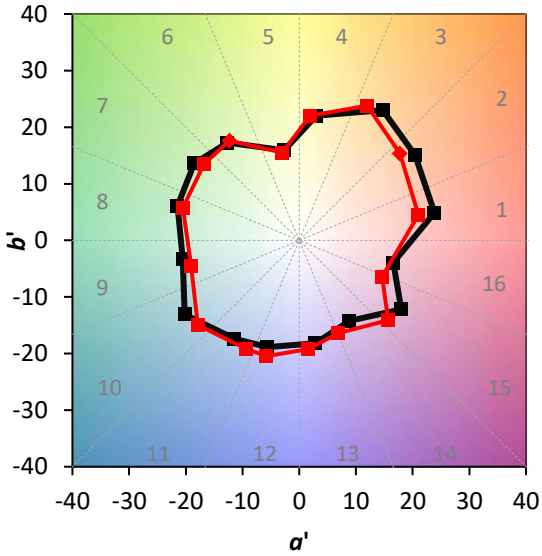
R_f = 84.4
R_g = 94.7
CIE R_a = 82.6
R_9 = 5.1

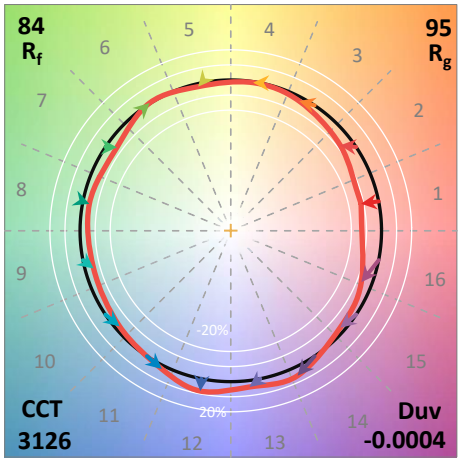
Spectral Power Distribution Comparison

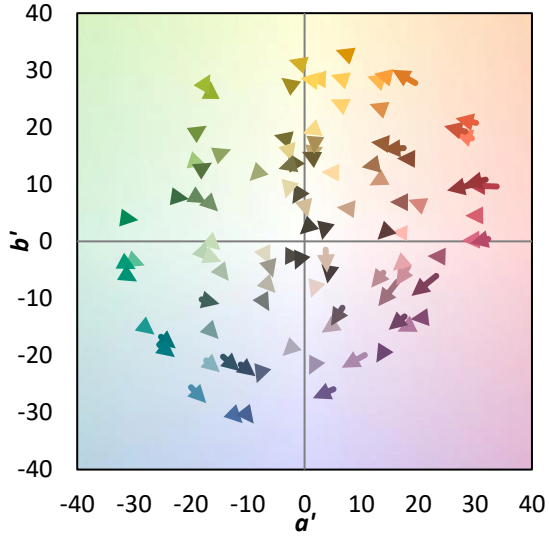


Color Vector Graphics









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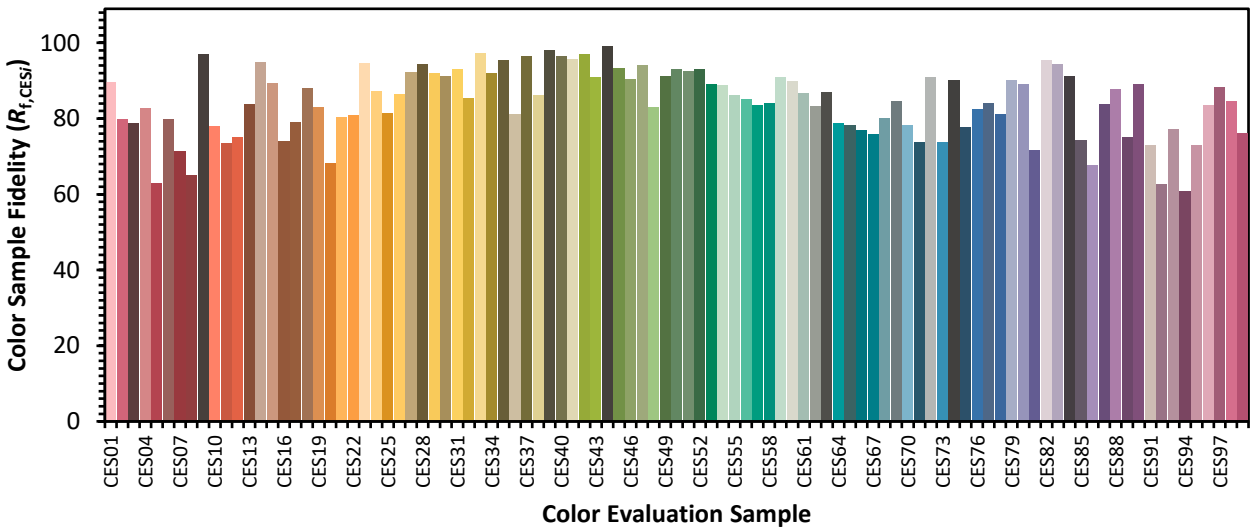
Individual Sample Fidelity Index ($R_{f,i}$)

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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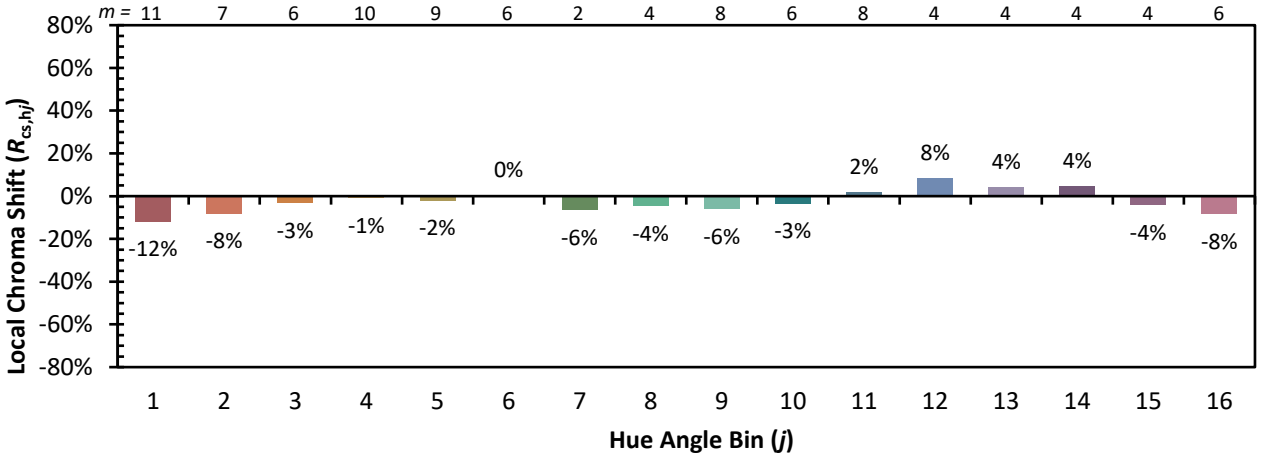
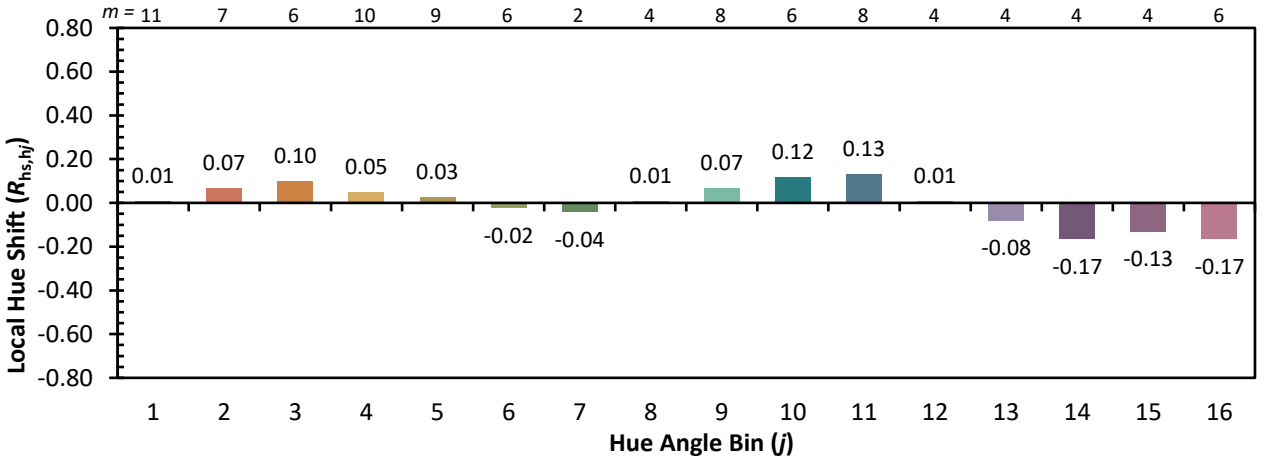
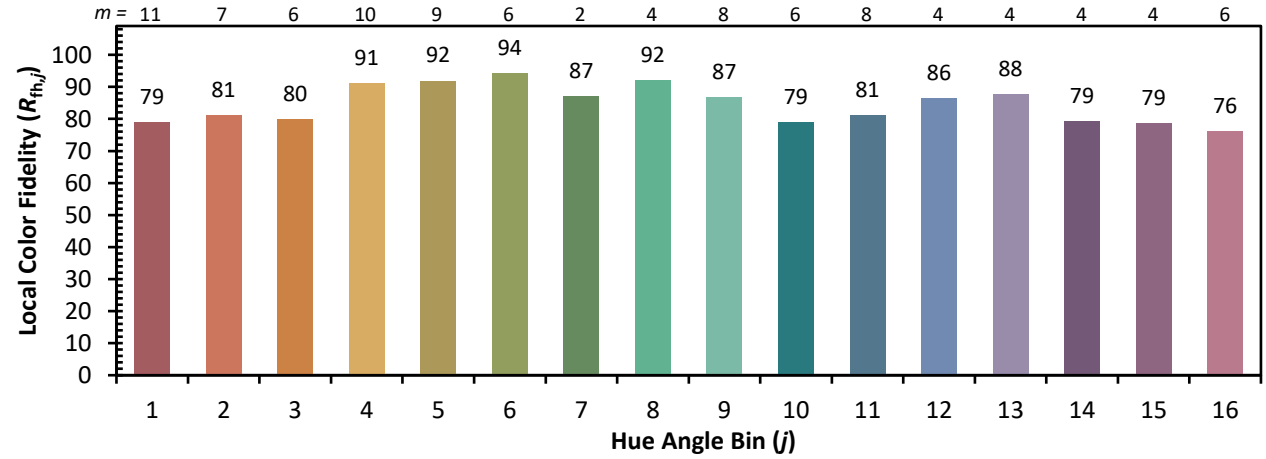
Color Rendition by Hue-Angle Bin







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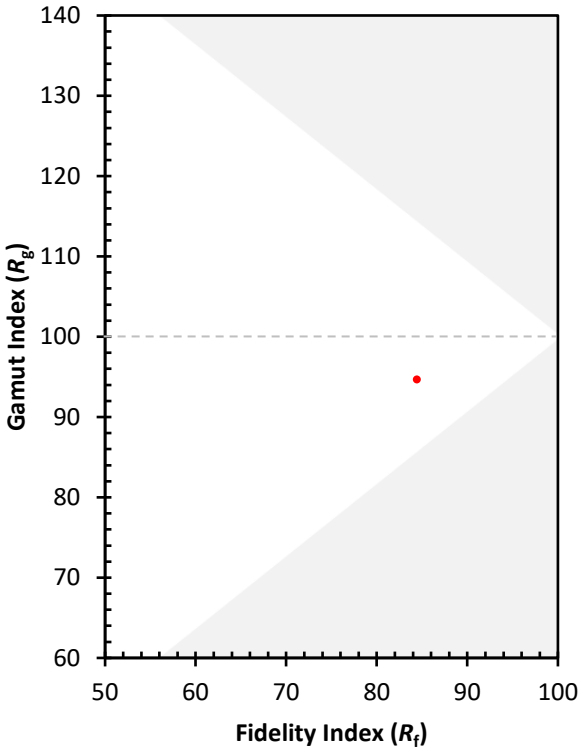
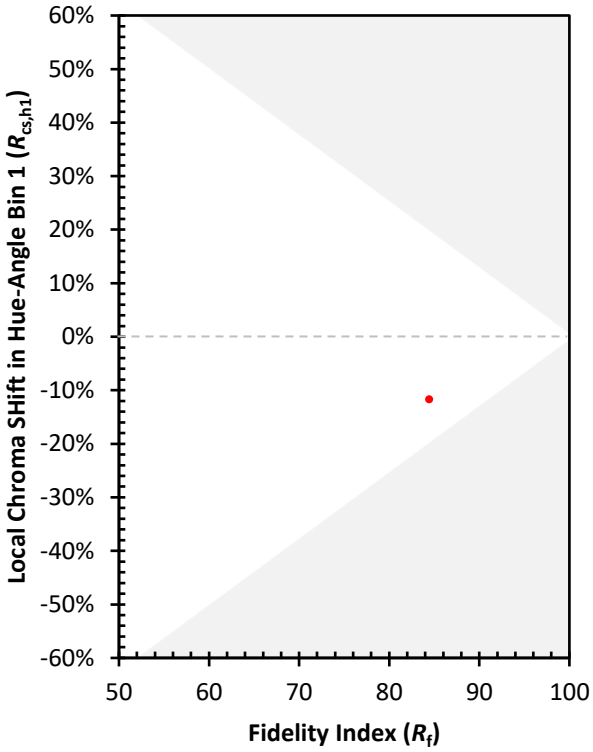
Measure Comparisons





(END OF REPORT)