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: P870709

Luminaire Tested: **EMM2-HTN-SA2C-830-U-T2U**

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:	P870709
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	09/05/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	INVUE
Catalog Number:	EMM2-HTN-SA2C-830-U-T2U
Description:	EPIC MODERN TALL HOUSING DISCRETE LED ARRAYS 120W 80CRI 3000K FIXTURE w/ TYPE II URBAN DISTRIBUTION OPTIC
Light Source:	(20) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	12109.4 lumens
Efficiency:	N/A
Efficacy:	119.9 lumens/watt
Luminous Opening:	Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B3 - U0 - G3

Input Watts (W):	101
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	9.45%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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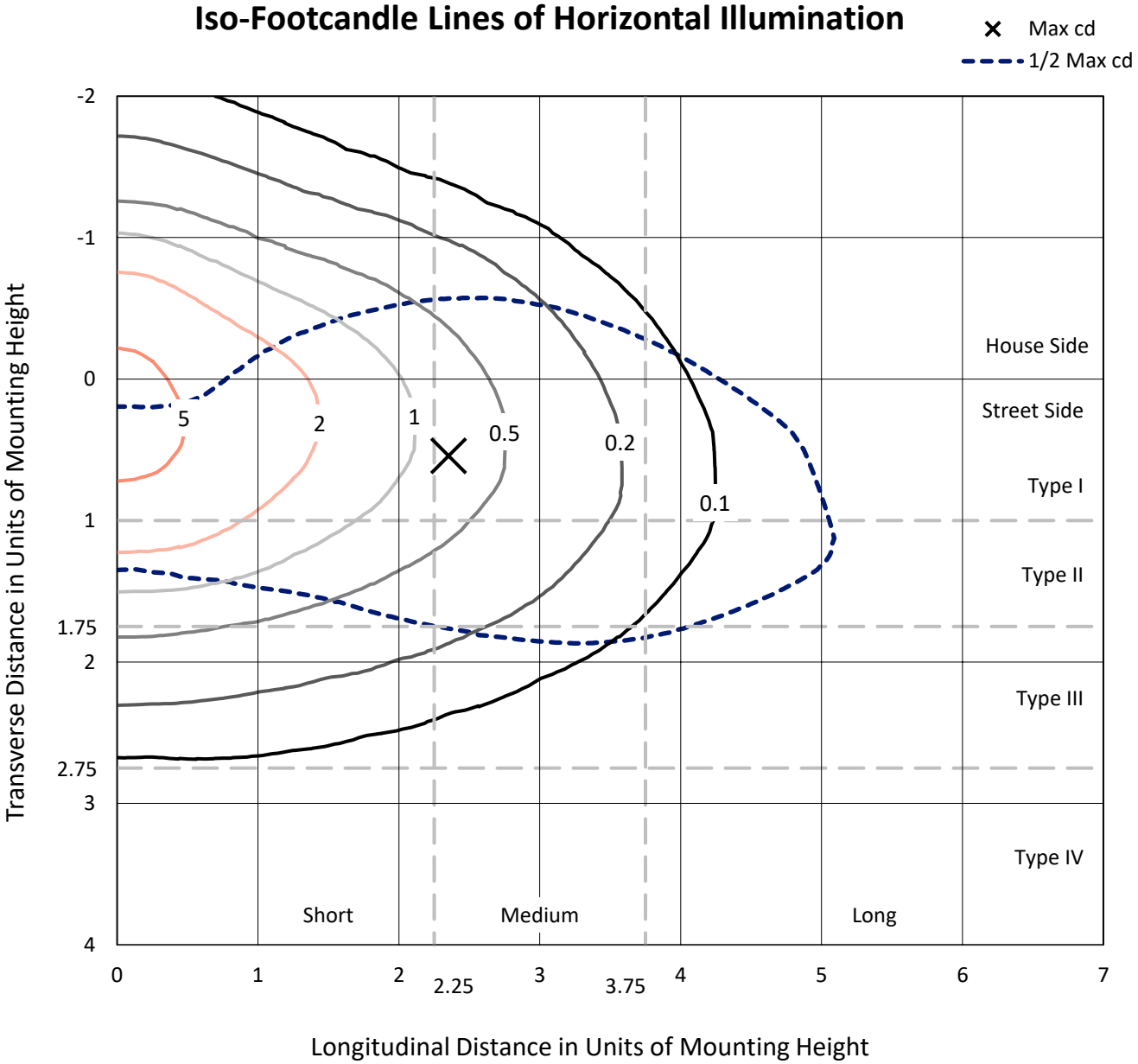
REPORT NUMBER: P870709
CATALOG NUMBER: EMM2-HTN-SA2C-830-U-T2U

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 6.5 fc
Type III - Medium - N/A

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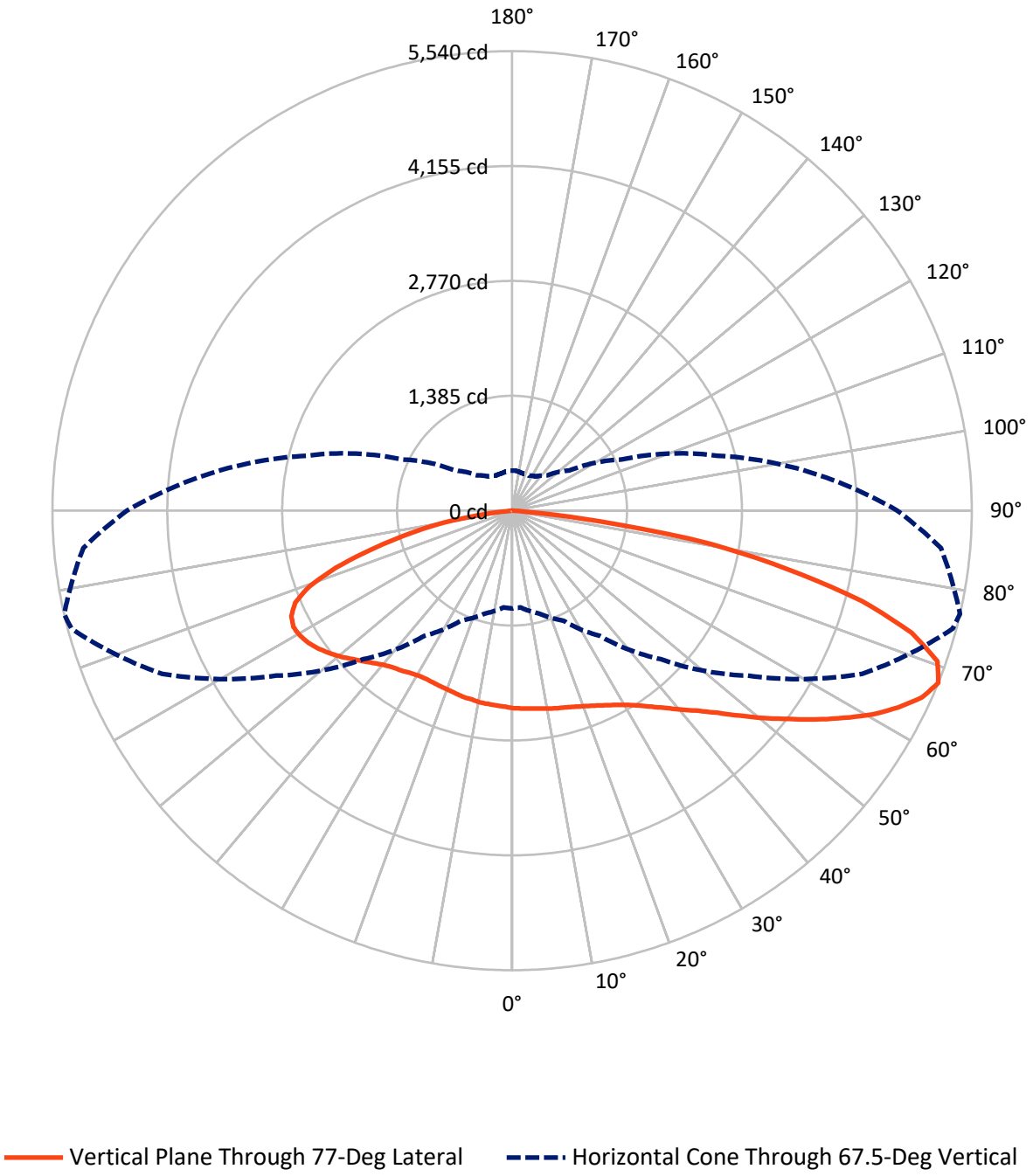
Luminous Intensity Polar Plot



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REPORT NUMBER: P870709
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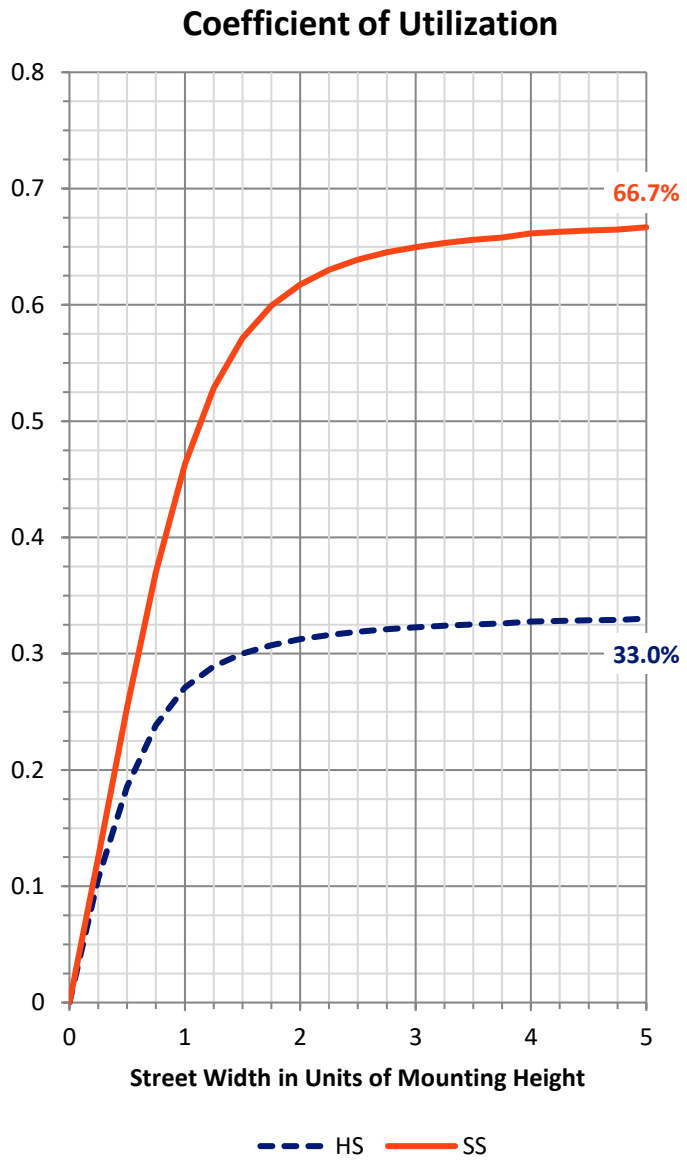
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4026.8	0.0	4026.8
	% Fixture	33.3	0.0	33.3
Street Side	Lumens	8082.6	0.0	8082.6
	% Fixture	66.7	0.0	66.7
Total	Lumens	12109.4	0.0	12109.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.8	1.9
10°-20°	694.0	5.7
20°-30°	1170.0	9.7
30°-40°	1660.3	13.7
40°-50°	2100.7	17.3
50°-60°	2301.2	19.0
60°-70°	2224.5	18.4
70°-80°	1496.1	12.4
80°-90°	233.8	1.9
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°	12109.4	100.0
0°-180°	12109.4	100.0



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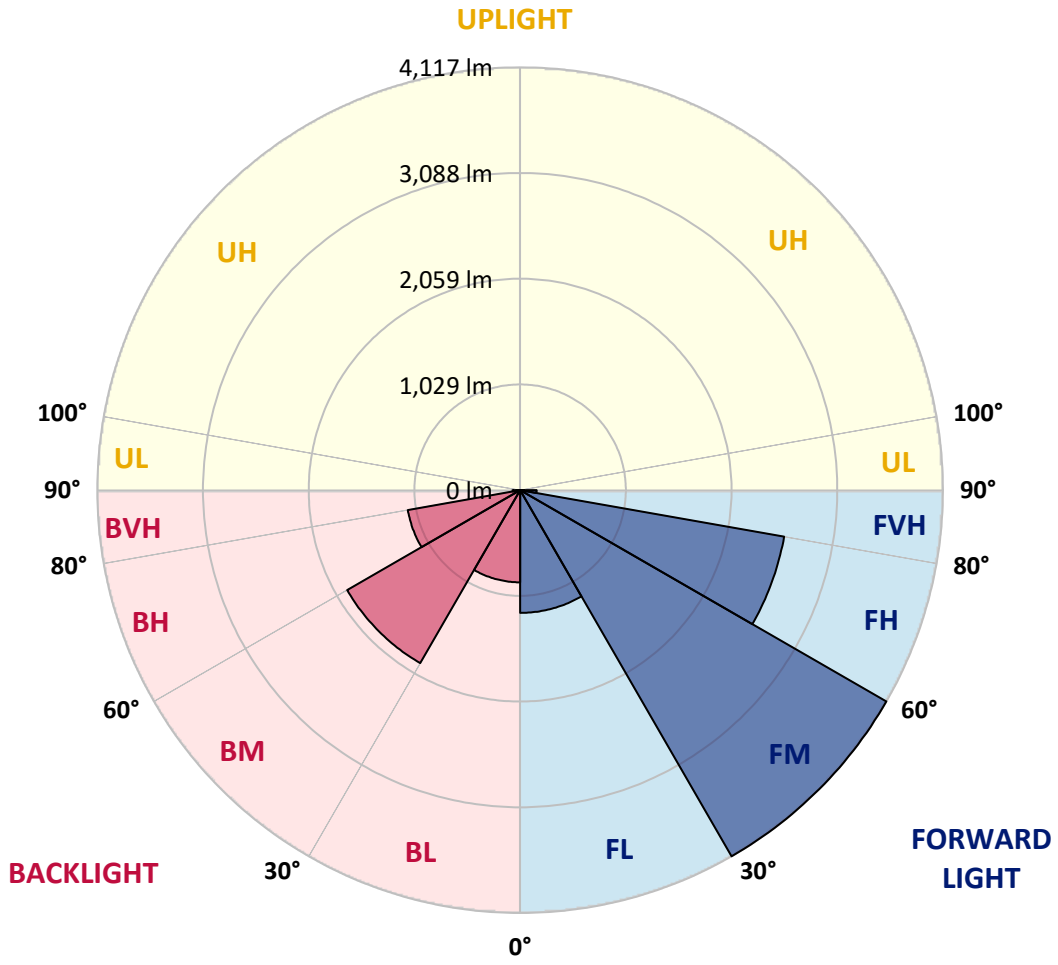
REPORT NUMBER: P870709
CATALOG NUMBER: EMM2-HTN-SA2C-830-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1195.2	9.9			
FM	(30°-60°)	4117.4	34.0			
FH	(60°-80°)	2610.0	21.6			G2/5000
FVH	(80°-90°)	160.1	1.3			G2/225
BL	(0°-30°)	897.7	7.4	B2/1000		
BM	(30°-60°)	1944.8	16.1	B2/2500		
BH	(60°-80°)	1110.6	9.2	B3/2500		G3/2500
BVH	(80°-90°)	73.7	0.6			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8	*2380.8*	2380.8
2.5°	2433.5	2431.1	2419.2	2424.0	2409.6	2419.2	2404.8	2392.8	2390.4	*2388.0*	2390.4
5°	2510.2	2498.2	2486.2	2479.0	2467.1	2462.3	2438.3	2414.4	2400.0	*2397.6*	2392.8
7.5°	2598.8	2594.0	2577.3	2567.7	2534.1	2517.4	2483.8	2440.7	2419.2	*2409.6*	2397.6
10°	2689.8	2701.8	2680.2	2661.1	2622.8	2586.8	2529.3	2474.3	2431.1	*2426.4*	2400.0
12.5°	2802.4	2800.0	2785.6	2752.1	2706.6	2656.3	2586.8	2510.2	2452.7	*2443.1*	2404.8
15°	2903.0	2900.6	2881.4	2850.3	2790.4	2728.1	2634.7	2546.1	2474.3	*2459.9*	2414.4
17.5°	2996.4	2991.6	2979.6	2946.1	2871.9	2795.2	2704.2	2586.8	2500.6	*2483.8*	2421.6
20°	3077.9	3082.6	3068.3	3034.7	2965.3	2883.8	2768.9	2639.5	2534.1	*2515.0*	2443.1
22.5°	3166.5	3168.9	3161.7	3149.7	3061.1	2974.9	2850.3	2699.4	2572.5	*2553.3*	2467.1
25°	3259.9	3262.3	3267.1	3259.9	3159.3	3065.9	2934.1	2773.7	2625.2	*2598.8*	2500.6
27.5°	3367.7	3370.1	3379.6	3365.3	3257.5	3159.3	3027.6	2852.7	2680.2	*2651.5*	2529.3
30°	3489.8	3499.4	3492.2	3487.4	3362.9	3267.1	3121.0	2934.1	2752.1	*2716.2*	2579.6
32.5°	3635.9	3633.5	3619.2	3604.8	3477.9	3377.3	3226.4	3039.5	2840.7	*2800.0*	2661.1
35°	3741.3	3741.3	3719.8	3712.6	3595.2	3489.8	3341.3	3156.9	2941.3	*2903.0*	2747.3
37.5°	3806.0	3815.6	3798.8	3803.6	3691.0	3592.8	3456.3	3276.7	3051.5	*3018.0*	2852.7
40°	3829.9	3853.9	3868.3	3887.4	3774.9	3691.0	3578.5	3406.0	3192.8	*3154.5*	2979.6
42.5°	3834.7	3870.7	3921.0	3961.7	3834.7	3765.3	3695.8	3537.7	3331.7	*3298.2*	3118.6
45°	3810.8	3794.0	3916.2	3921.0	3868.3	3825.2	3798.8	3695.8	3532.9	*3477.9*	3291.0
47.5°	3628.7	3609.6	3643.1	3796.4	3827.6	3851.5	3904.2	3880.2	3734.1	*3691.0*	3489.8
50°	3334.1	3324.6	3458.7	3624.0	3727.0	3849.1	3990.4	4057.5	3956.9	*3930.5*	3741.3
52.5°	2847.9	2821.6	3094.6	3415.6	3595.2	3825.2	4050.3	4239.5	4208.4	*4170.1*	3956.9
55°	2538.9	2538.9	2723.4	3123.4	3427.6	3738.9	4088.6	4431.1	4486.2	*4443.1*	4203.6
57.5°	2208.4	2234.7	2426.4	2701.8	3185.6	3580.8	4083.8	4591.6	4754.5	*4713.8*	4464.7
60°	1925.8	1947.3	2057.5	2335.3	2900.6	3372.5	4031.1	4723.4	5003.6	*4989.2*	4694.6
62.5°	1638.3	1664.7	1753.3	2014.4	2524.6	3132.9	3921.0	4795.2	5238.3	*5224.0*	4927.0
65°	1408.4	1410.8	1499.4	1717.4	2148.5	2843.1	3727.0	4780.8	5420.4	*5430.0*	5123.4
67.5°	*1178.4*	*1171.3*	*1286.2*	*1463.5*	*1841.9*	*2531.7*	*3468.3*	*4653.9*	*5497.0*	*5540.1*	*5188.0*
70°	867.1	876.6	1037.1	1233.5	1556.9	2172.5	3106.6	4407.2	5372.5	*5439.5*	5039.5
72.5°	651.5	670.7	826.3	1029.9	1300.6	1813.2	2711.4	3978.5	5025.2	*5034.7*	4586.8
75°	529.3	534.1	673.1	855.1	1065.9	1453.9	2177.2	3322.2	4249.1	*4359.3*	3897.0
77.5°	450.3	445.5	512.6	689.8	859.9	1161.7	1640.7	2527.0	3336.5	*3386.8*	3051.5
80°	383.2	380.8	404.8	558.1	673.1	828.7	1123.4	1760.5	2380.8	*2435.9*	2167.7
82.5°	201.2	215.6	210.8	344.9	380.8	435.9	538.9	800.0	1039.5	*1053.9*	996.4
85°	9.6	9.6	9.6	14.4	24.0	38.3	74.3	74.3	81.4	*155.7*	177.2
87.5°	2.4	2.4	4.8	4.8	4.8	7.2	7.2	9.6	9.6	*9.6*	9.6
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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Scaled Data Report

REPORT NUMBER: P870709
CATALOG NUMBER: EMM2-HTN-SA2C-830-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8
2.5°	2385.6	2376.1	2361.7	2364.1	2361.7	2361.7	2349.7	2340.1	2337.7	2342.5	2352.1
5°	2388.0	2373.7	2352.1	2344.9	2337.7	2332.9	2313.8	2299.4	2292.2	2297.0	2299.4
7.5°	2388.0	2366.5	2342.5	2328.1	2309.0	2294.6	2273.1	2253.9	2244.3	2246.7	2251.5
10°	2383.2	2359.3	2340.1	2311.4	2280.2	2263.5	2229.9	2206.0	2194.0	2196.4	2184.4
12.5°	2383.2	2356.9	2318.6	2292.2	2249.1	2213.2	2186.8	2160.5	2150.9	2141.3	2136.5
15°	2385.6	2352.1	2313.8	2258.7	2208.4	2170.1	2136.5	2119.8	2105.4	2100.6	2103.0
17.5°	2385.6	2352.1	2294.6	2229.9	2172.5	2124.6	2095.8	2076.7	2071.9	2067.1	2067.1
20°	2397.6	2354.5	2277.8	2201.2	2129.3	2079.0	2052.7	2040.7	2040.7	2033.5	2033.5
22.5°	2416.8	2359.3	2268.3	2177.2	2093.4	2038.3	2009.6	1995.2	2002.4	1997.6	1995.2
25°	2438.3	2376.1	2256.3	2143.7	2045.5	1988.0	1959.3	1949.7	1947.3	1935.3	1952.1
27.5°	2455.1	2388.0	2249.1	2110.2	2002.4	1935.3	1899.4	1882.6	1870.7	1875.5	1870.7
30°	2500.6	2421.6	2251.5	2081.4	1954.5	1873.1	1829.9	1810.8	1806.0	1806.0	1806.0
32.5°	2562.9	2464.7	2268.3	2069.5	1909.0	1813.2	1760.5	1741.3	1736.5	1726.9	1731.7
35°	2641.9	2529.3	2294.6	2050.3	1873.1	1743.7	1686.2	1659.9	1652.7	1643.1	1643.1
37.5°	2730.5	2594.0	2313.8	2040.7	1825.2	1671.9	1607.2	1573.7	1568.9	1559.3	1564.1
40°	2843.1	2682.6	2344.9	2021.6	1770.1	1607.2	1521.0	1465.9	1477.8	1482.6	1492.2
42.5°	2970.1	2795.2	2392.8	2002.4	1726.9	1540.1	1413.2	1358.1	1372.5	1367.7	1377.2
45°	3142.5	2927.0	2452.7	1995.2	1674.3	1458.7	1303.0	1240.7	1235.9	1228.7	1233.5
47.5°	3322.2	3085.0	2510.2	1980.8	1616.8	1358.1	1178.4	1099.4	1080.2	1070.7	1061.1
50°	3509.0	3243.1	2577.3	1971.3	1540.1	1245.5	1053.9	962.9	926.9	915.0	903.0
52.5°	3719.8	3413.2	2634.7	1947.3	1456.3	1128.1	941.3	838.3	797.6	773.7	776.0
55°	3942.5	3568.9	2687.4	1918.6	1360.5	1018.0	828.7	742.5	701.8	694.6	694.6
57.5°	4148.5	3729.3	2725.8	1868.3	1264.7	910.2	735.3	661.1	641.9	651.5	651.5
60°	4359.3	3858.7	2744.9	1813.2	1166.5	819.2	670.7	610.8	601.2	620.4	622.8
62.5°	4529.4	3961.7	2740.1	1736.5	1058.7	740.1	608.4	560.5	565.3	598.8	606.0
65°	4651.5	4012.0	2680.2	1621.6	955.7	670.7	553.3	507.8	507.8	531.7	538.9
67.5°	*4641.9*	*3947.3*	*2560.5*	*1461.1*	*845.5*	*601.2*	*503.0*	*467.1*	*467.1*	*483.8*	*481.4*
70°	4445.5	3724.6	2332.9	1267.1	737.7	541.3	459.9	433.5	431.1	438.3	435.9
72.5°	3973.7	3271.9	1978.4	1046.7	637.1	481.4	416.8	392.8	388.0	378.4	371.3
75°	3279.0	2687.4	1544.9	833.5	538.9	424.0	376.0	354.5	335.3	347.3	340.1
77.5°	2543.7	2062.3	1149.7	646.7	438.3	368.9	335.3	311.4	306.6	349.7	335.3
80°	1856.3	1425.2	812.0	462.3	340.1	299.4	280.2	261.1	330.5	443.1	440.7
82.5°	824.0	687.4	371.3	220.4	158.1	131.7	110.2	124.6	208.4	203.6	210.8
85°	74.3	76.6	40.7	26.3	16.8	14.4	9.6	9.6	7.2	7.2	7.2
87.5°	9.6	9.6	7.2	7.2	4.8	4.8	4.8	4.8	2.4	2.4	2.4
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

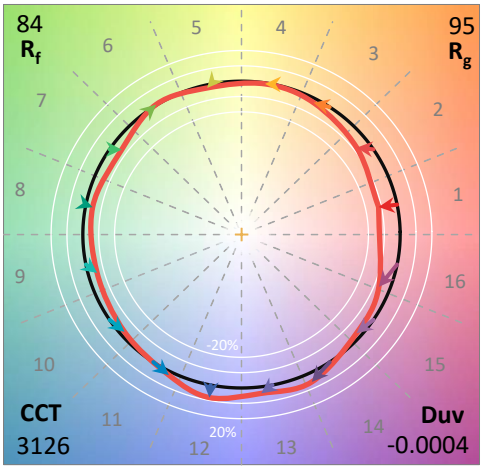
Test Information

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

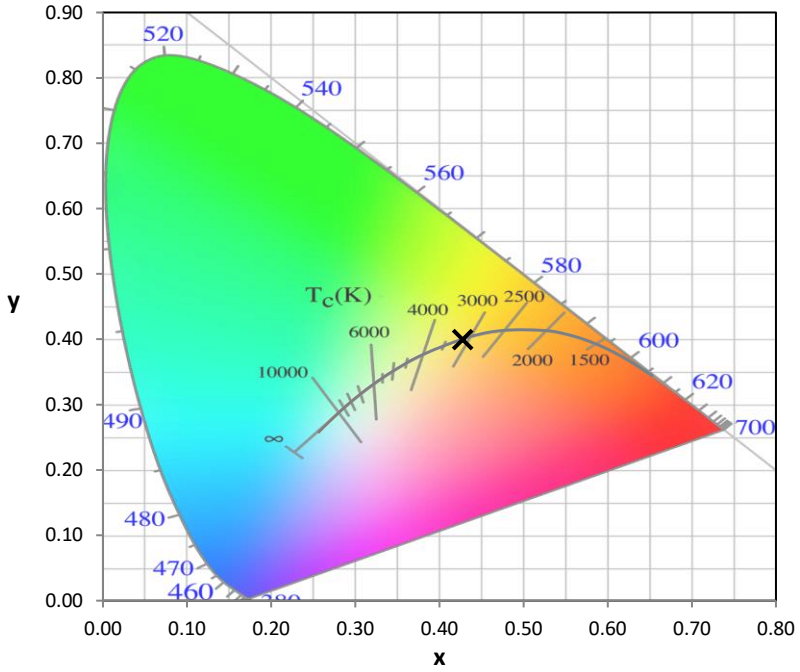
Stabilization Time:	22M
Operation Time:	1H 22M
Sphere Temperature (°C):	24.3

REPORT NUMBER: SP1-2407-157-7

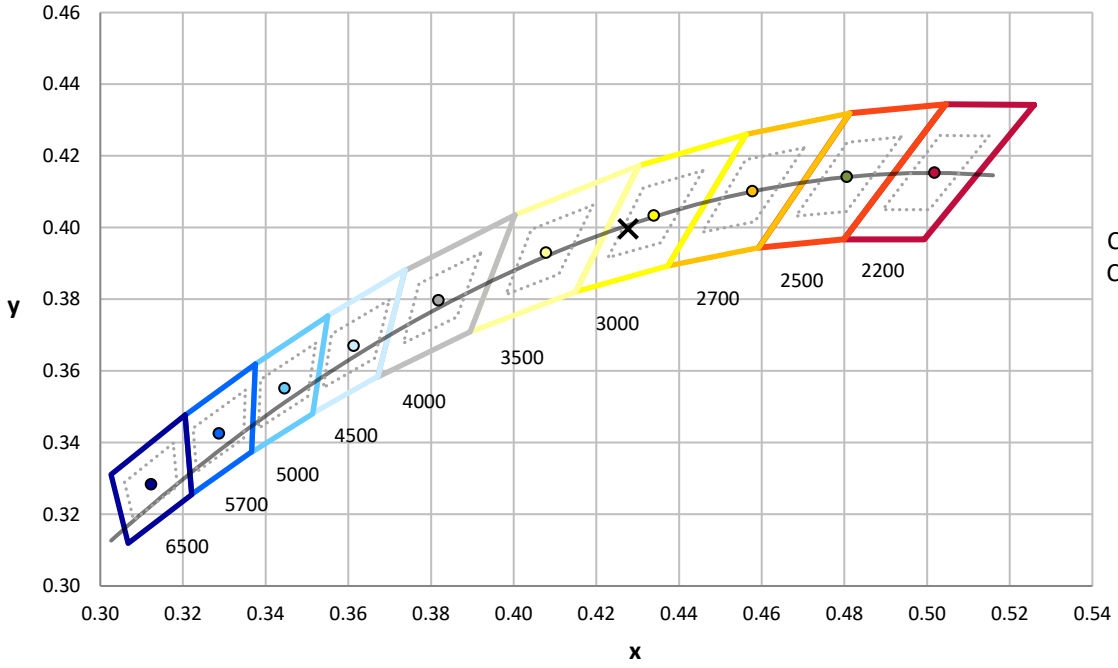
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

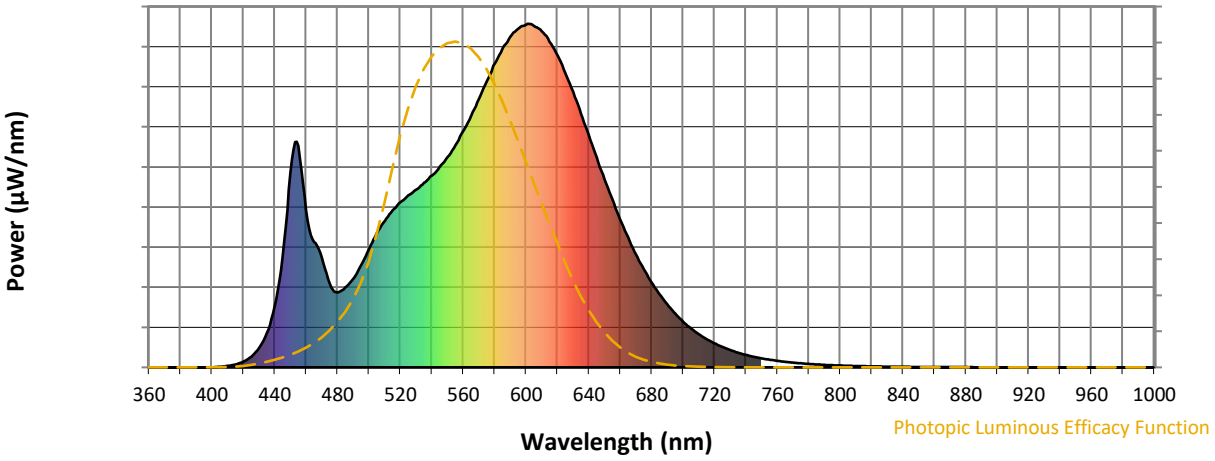


CCT = 3126K
CIE x = 0.4277
CIE y = 0.3997
Duv = -0.0004

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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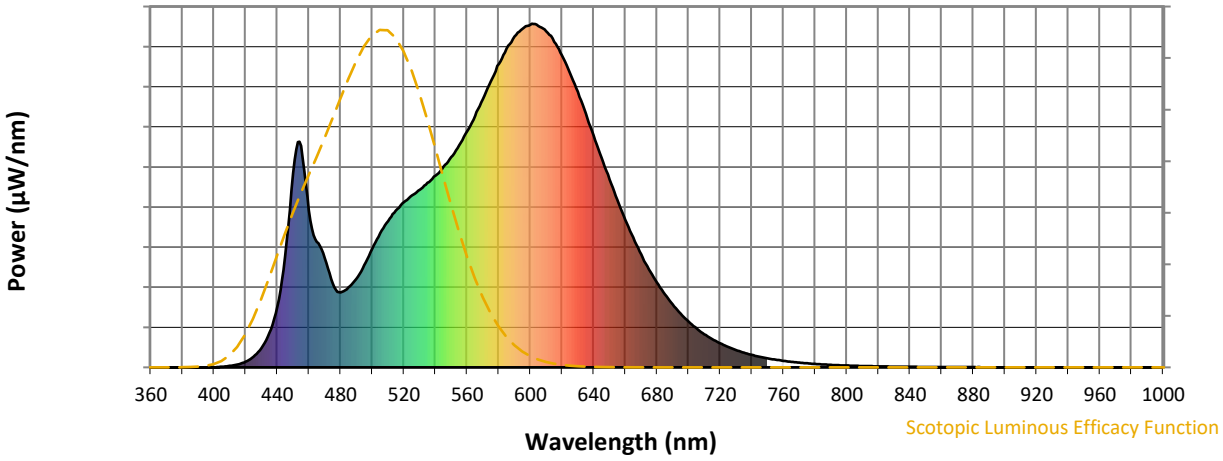
Scotopic Flux vs. Wavelength



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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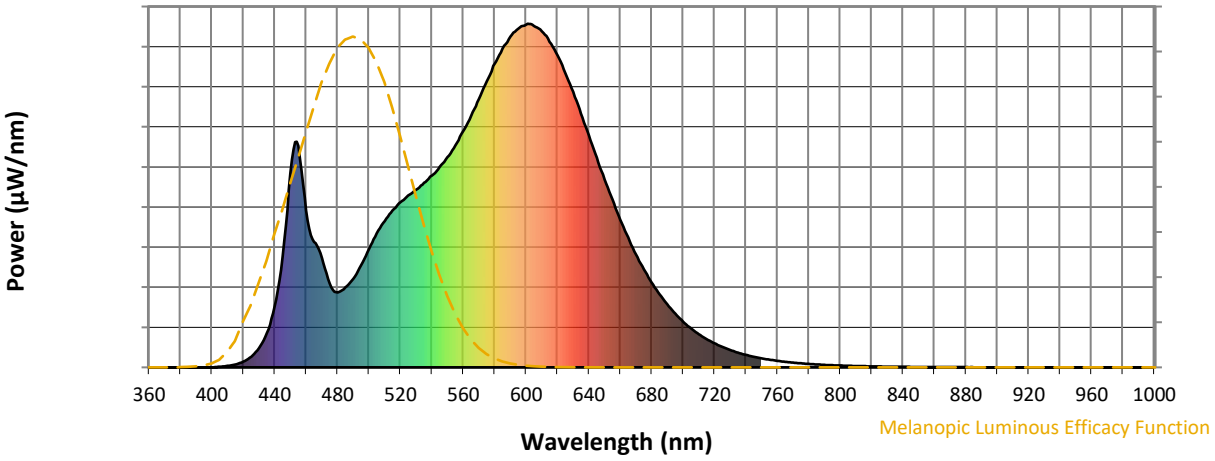
Melanopic Flux vs. Wavelength



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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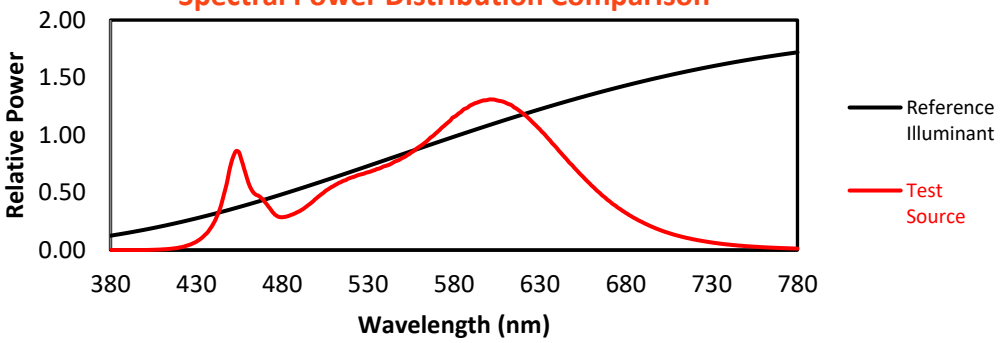
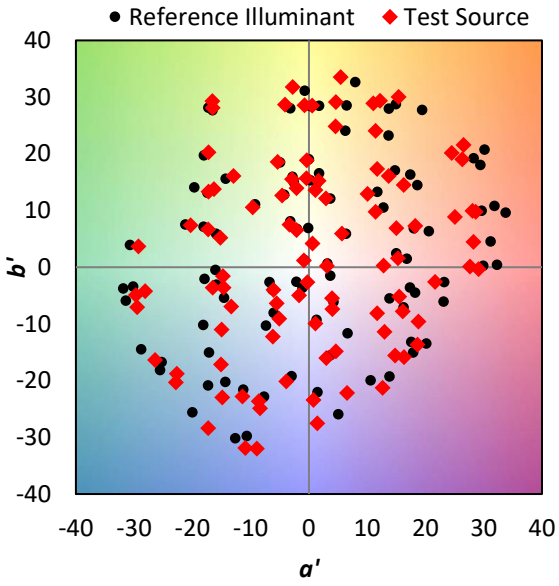
Summary

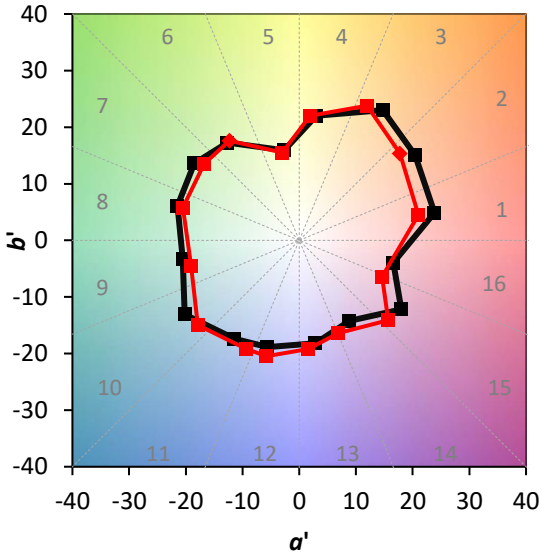
R_f = 84.4
R_g = 94.7
CIE R_a = 82.6
R_9 = 5.1

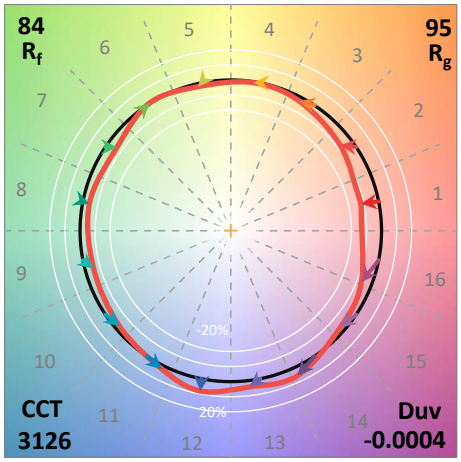
Spectral Power Distribution Comparison

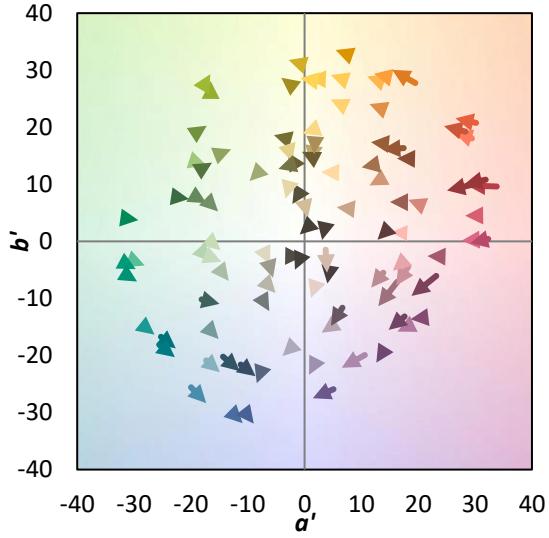


Color Vector Graphics









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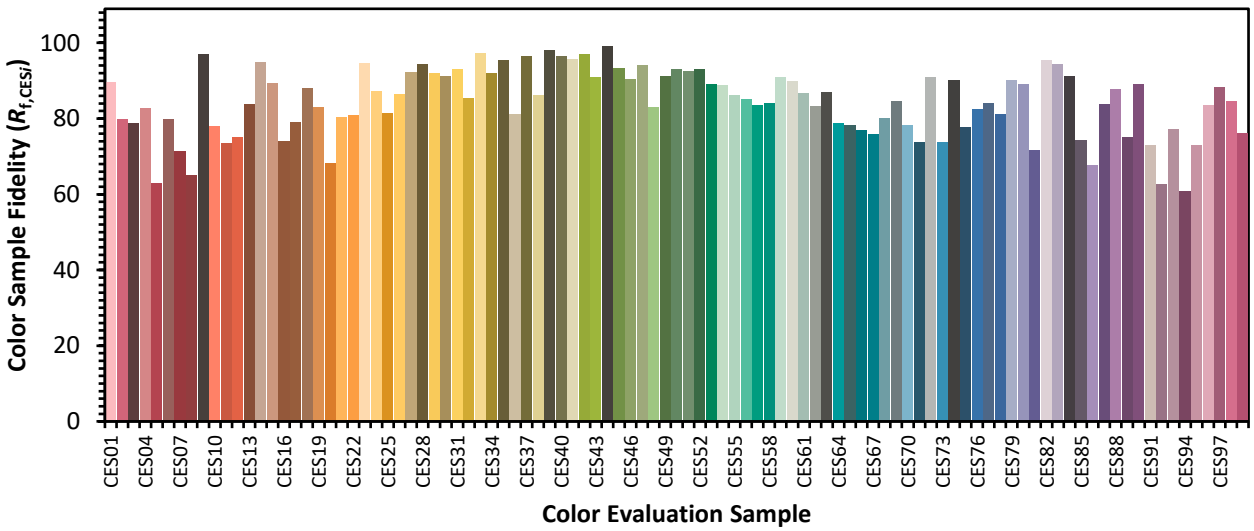
Individual Sample Fidelity Index ($R_{f,i}$)

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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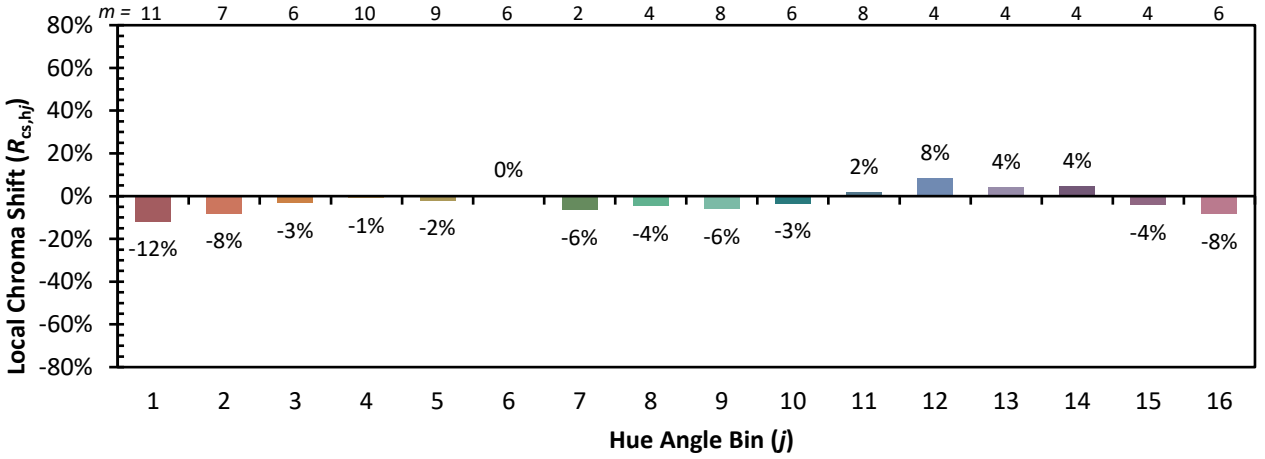
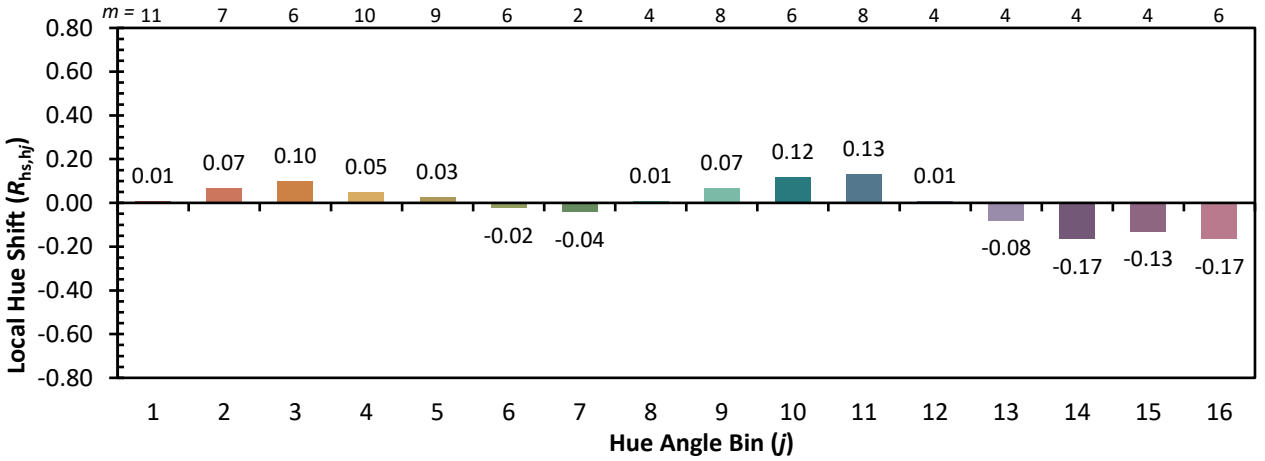
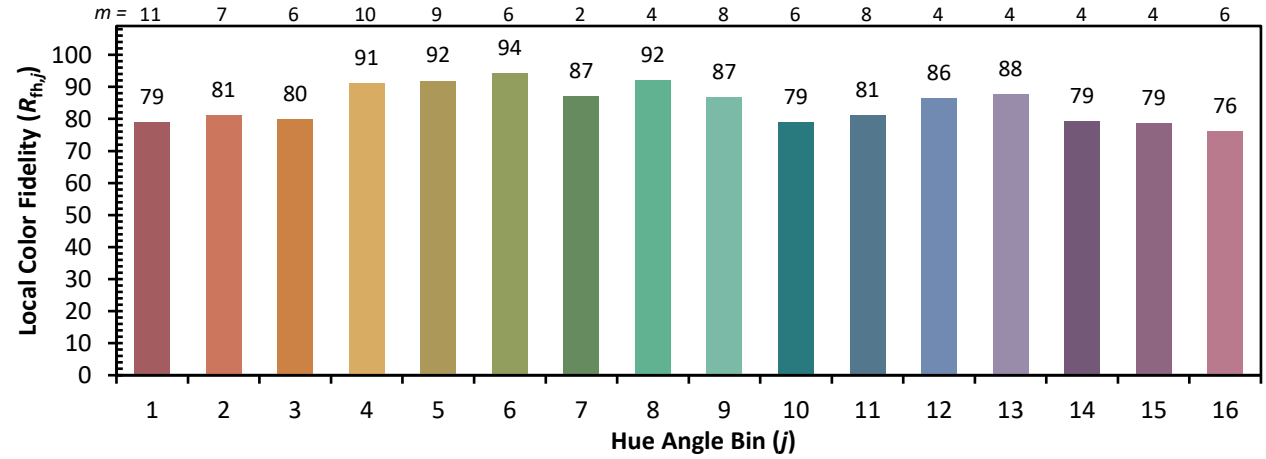
Color Rendition by Hue-Angle Bin







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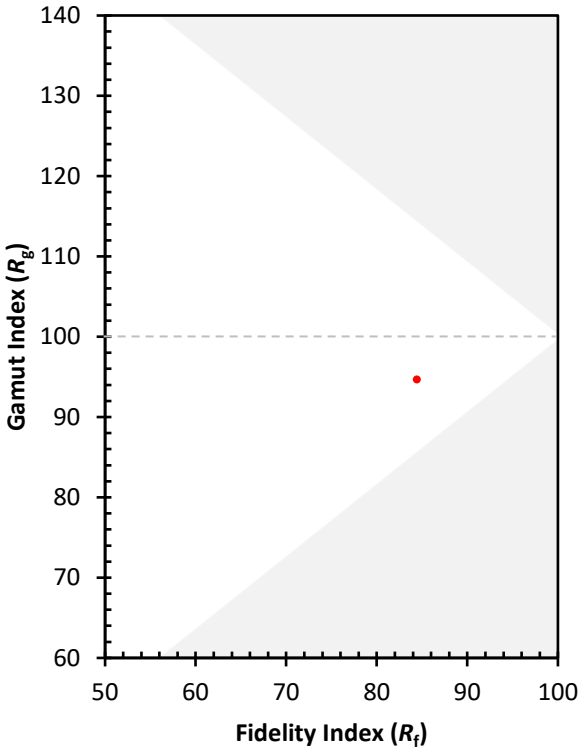
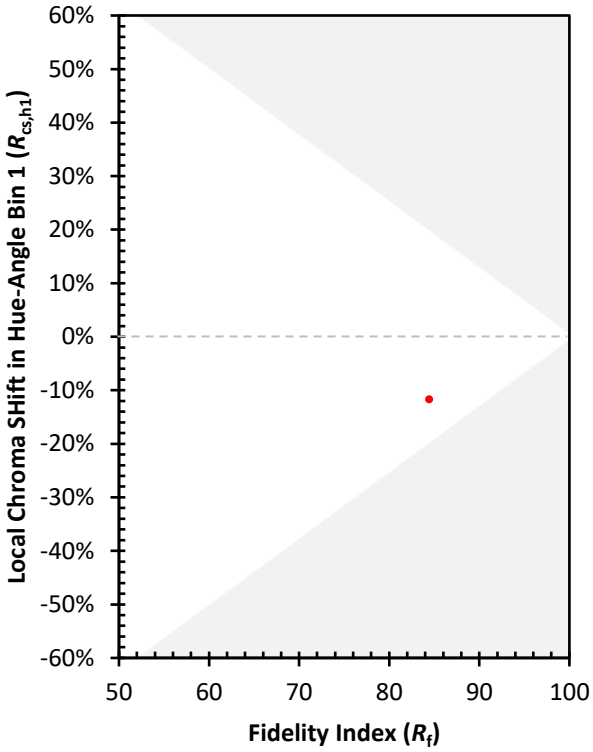
Measure Comparisons





(END OF REPORT)