

Signify Classified - Internal  
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: P868876

Luminaire Tested: **EMM2-HSN-SA2C-727-U-T2U**

Issue Date: 08/22/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P868876  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 08/22/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: EMM2-HSN-SA2C-727-U-T2U  
Description: EPIC MODERN SHORT HOUSING DISCRETE LED ARRAYS 120W 70CRI 2700K  
FIXTURE w/ TYPE II URBAN DISTRIBUTION OPTIC  
Light Source: (20) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

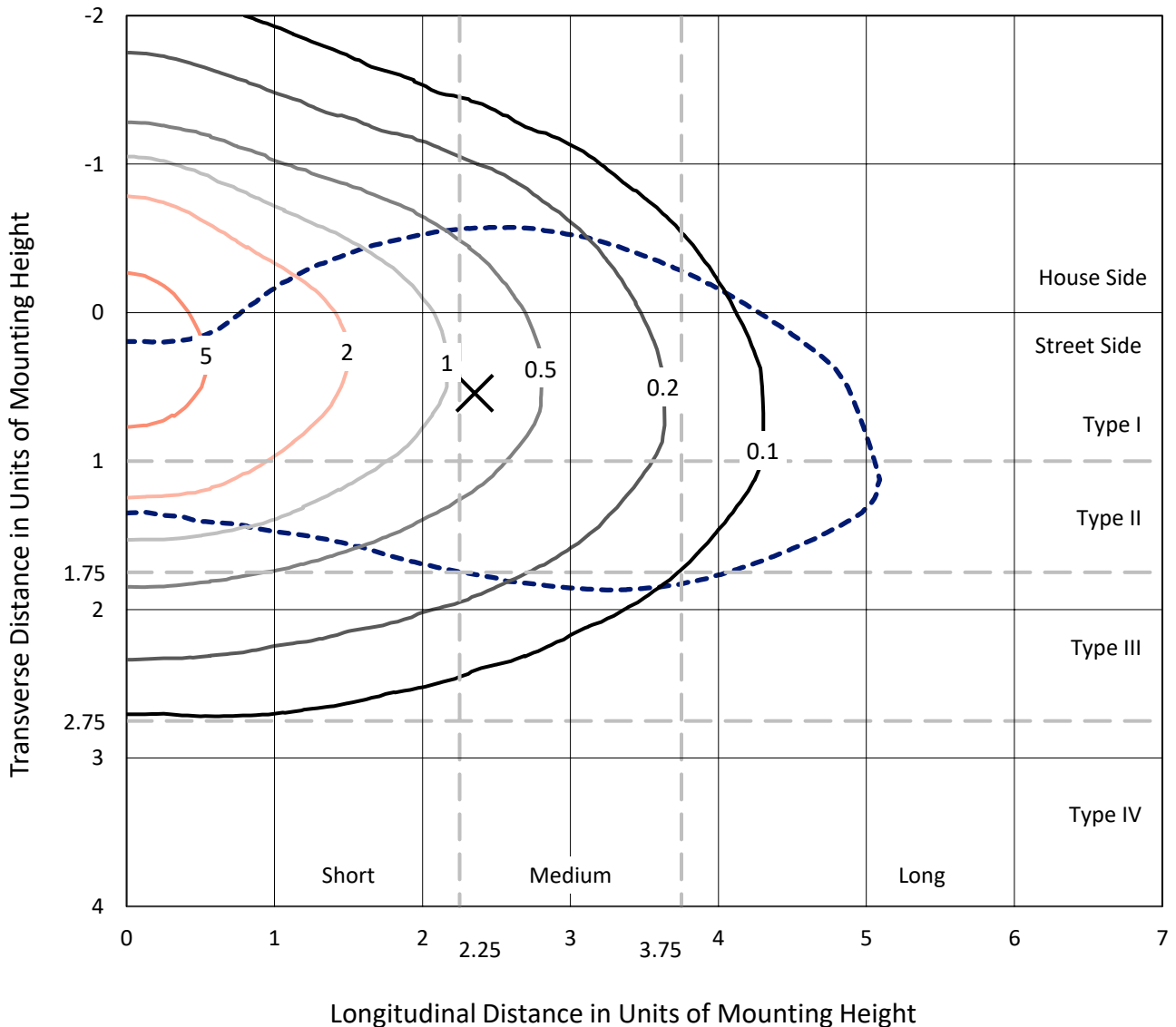
Lumens per Lamp: N/A  
Luminaire Lumens: 12798.5 lumens  
Efficiency: N/A  
Efficacy: 126.7 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3

Input Watts (W): 101  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

REPORT NUMBER: P868876  
 CATALOG NUMBER: EMM2-HSN-SA2C-727-U-T2U

### Iso-Footcandle Lines of Horizontal Illumination

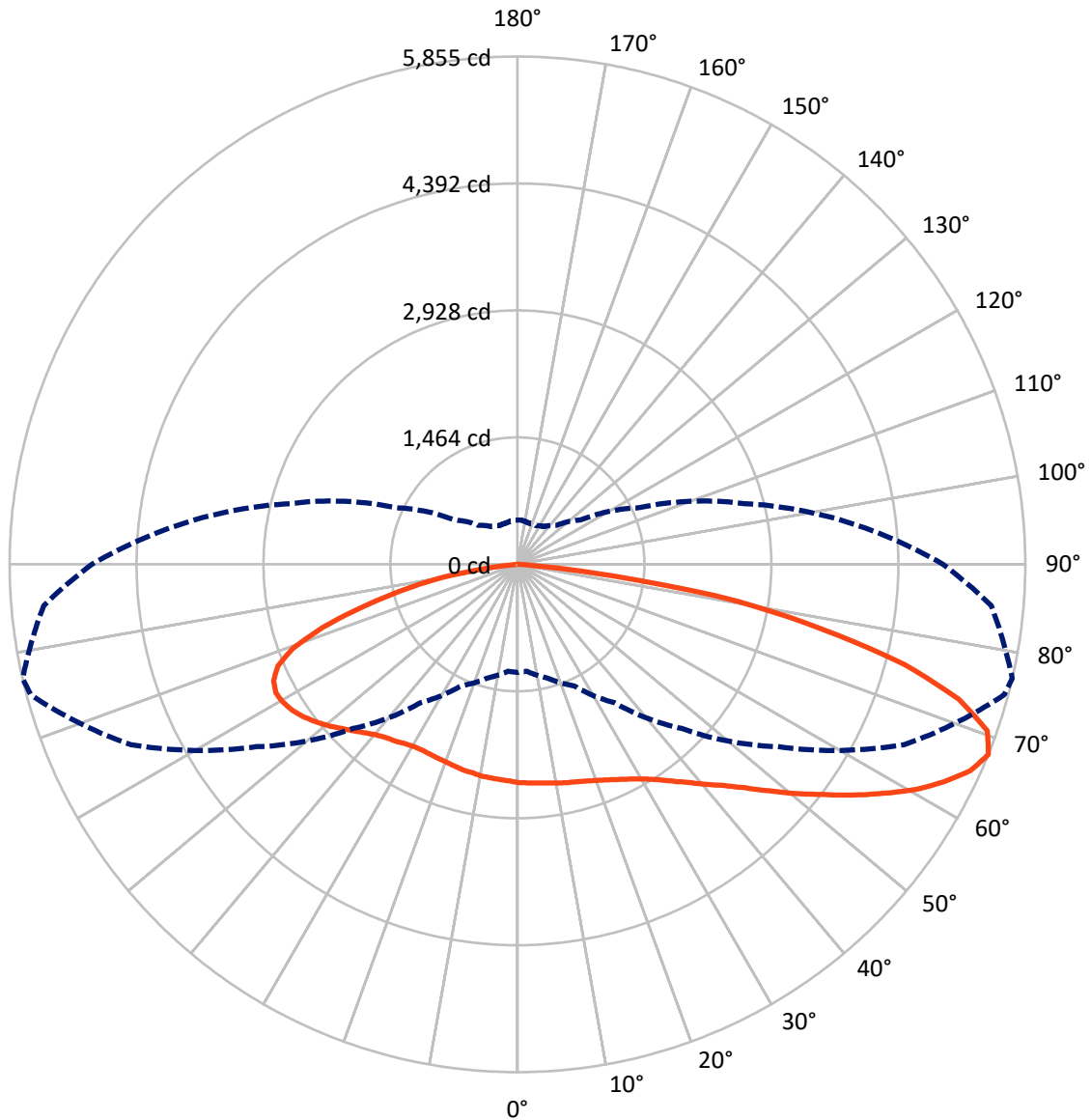
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P868876  
CATALOG NUMBER: EMM2-HSN-SA2C-727-U-T2U

### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P868876  
 CATALOG NUMBER: EMM2-HSN-SA2C-727-U-T2U

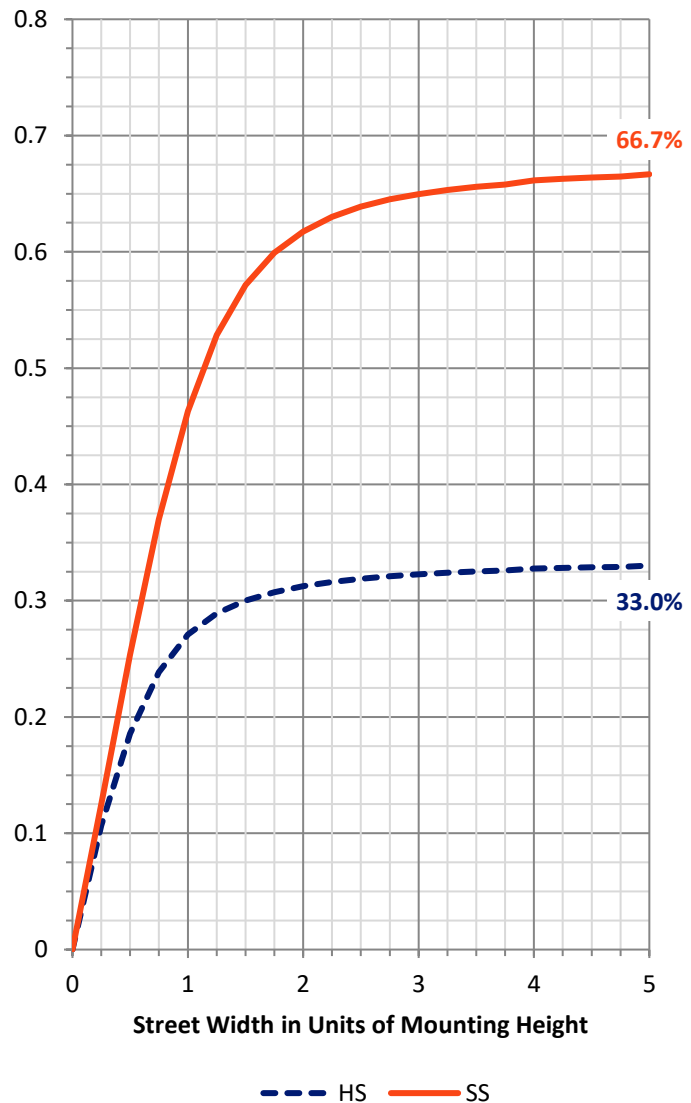
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4255.9	0.0	4255.9
	% Fixture	33.3	0.0	33.3
<b>Street Side</b>	Lumens	8542.6	0.0	8542.6
	% Fixture	66.7	0.0	66.7
<b>Total</b>	Lumens	12798.5	0.0	12798.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.9	1.9
10°-20°	733.5	5.7
20°-30°	1236.6	9.7
30°-40°	1754.8	13.7
40°-50°	2220.2	17.3
50°-60°	2432.1	19.0
60°-70°	2351.1	18.4
70°-80°	1581.2	12.4
80°-90°	247.1	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°	12798.5	100.0
0°-180°	12798.5	100.0



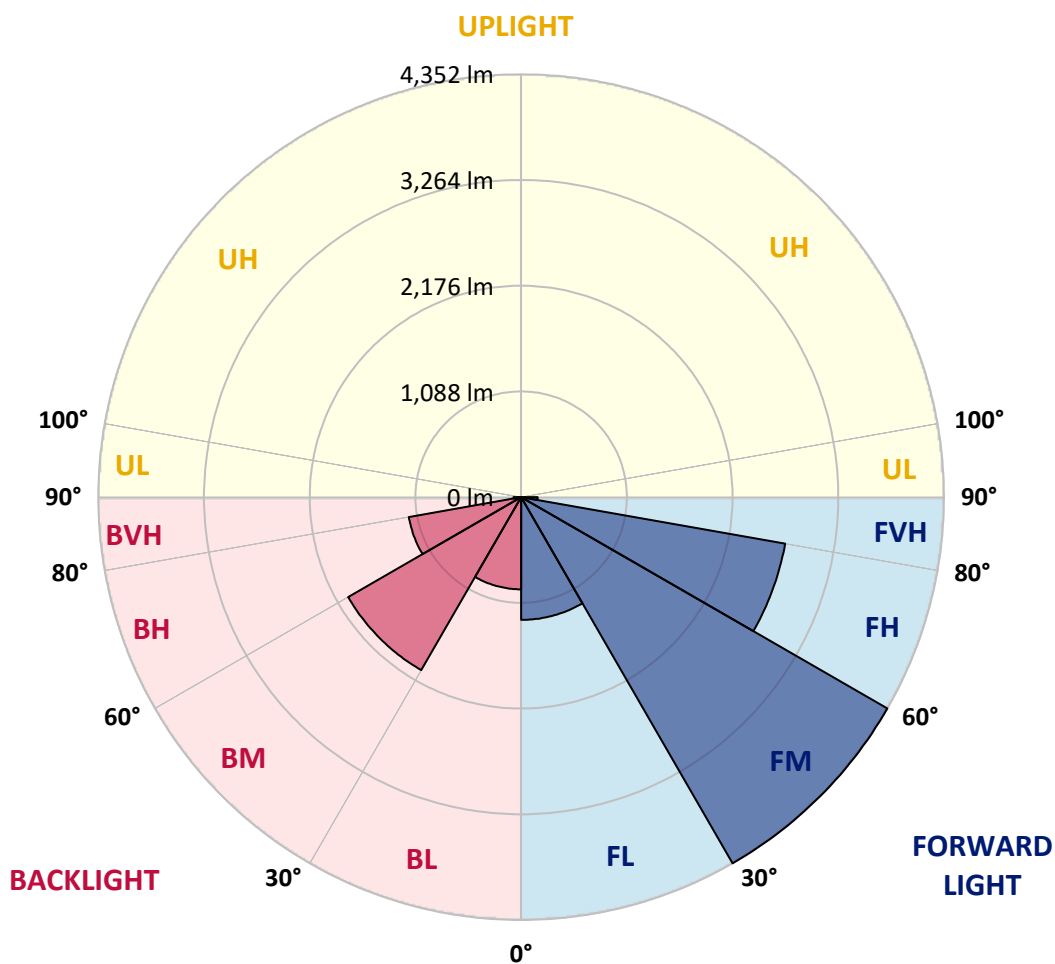
REPORT NUMBER: P868876  
 CATALOG NUMBER: EMM2-HSN-SA2C-727-U-T2U

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1263.2	9.9			
FM (30°-60°)	4351.6	34.0			
FH (60°-80°)	2758.5	21.6			G2/5000
FVH (80°-90°)	169.2	1.3			G2/225
BL (0°-30°)	948.7	7.4	B2/1000		
BM (30°-60°)	2055.5	16.1	B2/2500		
BH (60°-80°)	1173.8	9.2	B3/2500		G3/2500
BVH (80°-90°)	77.9	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





REPORT NUMBER: P868876

CATALOG NUMBER: EMM2-HSN-SA2C-727-U-T2U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2516.3	2516.3	2516.3	2516.3	2516.3	2516.3	2516.3	2516.3	2516.3	2516.3	2516.3
2.5°	2572.0	2569.5	2556.8	2561.9	2546.7	2556.8	2541.6	2529.0	2526.4	2523.9	2526.4
5°	2653.0	2640.4	2627.7	2620.1	2607.5	2602.4	2577.1	2551.8	2536.6	2534.0	2529.0
7.5°	2746.7	2741.6	2723.9	2713.8	2678.3	2660.6	2625.2	2579.6	2556.8	2546.7	2534.0
10°	2842.9	2855.5	2832.8	2812.5	2772.0	2734.0	2673.3	2615.1	2569.5	2564.4	2536.6
12.5°	2961.9	2959.3	2944.1	2908.7	2860.6	2807.4	2734.0	2653.0	2592.3	2582.1	2541.6
15°	3068.2	3065.7	3045.4	3012.5	2949.2	2883.4	2784.7	2691.0	2615.1	2599.9	2551.8
17.5°	3166.9	3161.9	3149.2	3113.8	3035.3	2954.3	2858.1	2734.0	2642.9	2625.2	2559.4
20°	3253.0	3258.1	3242.9	3207.4	3134.0	3047.9	2926.4	2789.7	2678.3	2658.1	2582.1
22.5°	3346.7	3349.2	3341.6	3328.9	3235.3	3144.1	3012.5	2853.0	2718.8	2698.6	2607.5
25°	3445.4	3447.9	3453.0	3445.4	3339.1	3240.3	3101.1	2931.5	2774.5	2746.7	2642.9
27.5°	3559.3	3561.8	3572.0	3556.8	3442.9	3339.1	3199.8	3015.0	2832.8	2802.4	2673.3
30°	3688.4	3698.5	3690.9	3685.9	3554.2	3453.0	3298.6	3101.1	2908.7	2870.7	2726.4
32.5°	3842.8	3840.3	3825.1	3809.9	3675.8	3569.4	3409.9	3212.5	3002.4	2959.3	2812.5
35°	3954.2	3954.2	3931.4	3923.8	3799.8	3688.4	3531.5	3336.5	3108.7	3068.2	2903.6
37.5°	4022.6	4032.7	4015.0	4020.0	3901.1	3797.3	3653.0	3463.1	3225.1	3189.7	3015.0
40°	4047.9	4073.2	4088.4	4108.6	3989.7	3901.1	3782.1	3599.8	3374.5	3334.0	3149.2
42.5°	4053.0	4090.9	4144.1	4187.1	4053.0	3979.5	3906.1	3739.0	3521.3	3485.9	3296.0
45°	4027.6	4009.9	4139.0	4144.1	4088.4	4042.8	4015.0	3906.1	3734.0	3675.8	3478.3
47.5°	3835.2	3815.0	3850.4	4012.4	4045.4	4070.7	4126.4	4101.0	3946.6	3901.1	3688.4
50°	3523.9	3513.7	3655.5	3830.2	3939.0	4068.1	4217.5	4288.4	4182.1	4154.2	3954.2
52.5°	3010.0	2982.1	3270.7	3609.9	3799.8	4042.8	4280.8	4480.8	4447.9	4407.4	4182.1
55°	2683.4	2683.4	2878.3	3301.1	3622.6	3951.7	4321.3	4683.3	4741.5	4696.0	4442.8
57.5°	2334.1	2361.9	2564.4	2855.5	3366.9	3784.6	4316.2	4852.9	5025.1	4982.0	4718.7
60°	2035.3	2058.1	2174.6	2468.2	3065.7	3564.4	4260.5	4992.1	5288.3	5273.1	4961.8
62.5°	1731.6	1759.4	1853.1	2129.0	2668.2	3311.2	4144.1	5068.1	5536.4	5521.2	5207.3
65°	1488.5	1491.1	1584.7	1815.1	2270.8	3004.9	3939.0	5052.9	5728.8	5738.9	5414.9
67.5°	1245.5	1237.9	1359.4	1546.8	1946.7	2675.8	3665.6	4918.7	5809.8	5855.4	5483.3
70°	916.4	926.5	1096.1	1303.7	1645.5	2296.1	3283.4	4658.0	5678.2	5749.1	5326.3
72.5°	688.6	708.8	873.4	1088.6	1374.6	1916.4	2865.7	4204.8	5311.1	5321.2	4847.8
75°	559.5	564.5	711.4	903.7	1126.5	1536.6	2301.1	3511.2	4490.9	4607.4	4118.8
77.5°	475.9	470.9	541.7	729.1	908.8	1227.8	1734.1	2670.7	3526.4	3579.6	3225.1
80°	405.0	402.5	427.8	589.8	711.4	875.9	1187.3	1860.7	2516.3	2574.5	2291.0
82.5°	212.6	227.8	222.8	364.5	402.5	460.7	569.6	845.5	1098.7	1113.9	1053.1
85°	10.1	10.1	10.1	15.2	25.3	40.5	78.5	78.5	86.1	164.5	187.3
87.5°	2.5	2.5	5.1	5.1	5.1	7.6	7.6	10.1	10.1	10.1	10.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P868876

CATALOG NUMBER: EMM2-HSN-SA2C-727-U-T2U

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2516.3	2516.3	2516.3	2516.3	2516.3	2516.3	2516.3	2516.3	2516.3	2516.3	2516.3
2.5°	2521.4	2511.3	2496.1	2498.6	2496.1	2496.1	2483.4	2473.3	2470.8	2475.8	2485.9
5°	2523.9	2508.7	2485.9	2478.4	2470.8	2465.7	2445.4	2430.3	2422.7	2427.7	2430.3
7.5°	2523.9	2501.1	2475.8	2460.6	2440.4	2425.2	2402.4	2382.2	2372.0	2374.6	2379.6
10°	2518.9	2493.5	2473.3	2442.9	2410.0	2392.3	2356.8	2331.5	2318.9	2321.4	2308.7
12.5°	2518.9	2491.0	2450.5	2422.7	2377.1	2339.1	2311.3	2283.4	2273.3	2263.2	2258.1
15°	2521.4	2485.9	2445.4	2387.2	2334.1	2293.5	2258.1	2240.4	2225.2	2220.1	2222.7
17.5°	2521.4	2485.9	2425.2	2356.8	2296.1	2245.5	2215.1	2194.8	2189.8	2184.7	2184.7
20°	2534.0	2488.5	2407.5	2326.5	2250.5	2197.4	2169.5	2156.8	2156.8	2149.3	2149.3
22.5°	2554.3	2493.5	2397.3	2301.1	2212.5	2154.3	2123.9	2108.7	2116.3	2111.3	2108.7
25°	2577.1	2511.3	2384.7	2265.7	2161.9	2101.2	2070.8	2060.7	2058.1	2045.5	2063.2
27.5°	2594.8	2523.9	2377.1	2230.3	2116.3	2045.5	2007.5	1989.8	1977.1	1982.2	1977.1
30°	2642.9	2559.4	2379.6	2199.9	2065.7	1979.6	1934.1	1913.8	1908.8	1908.8	1908.8
32.5°	2708.7	2604.9	2397.3	2187.2	2017.6	1916.4	1860.7	1840.4	1835.3	1825.2	1830.3
35°	2792.3	2673.3	2425.2	2167.0	1979.6	1842.9	1782.2	1754.3	1746.7	1736.6	1736.6
37.5°	2885.9	2741.6	2445.4	2156.8	1929.0	1767.0	1698.6	1663.2	1658.1	1648.0	1653.1
40°	3004.9	2835.3	2478.4	2136.6	1870.8	1698.6	1607.5	1549.3	1561.9	1567.0	1577.1
42.5°	3139.1	2954.3	2529.0	2116.3	1825.2	1627.8	1493.6	1435.4	1450.6	1445.5	1455.6
45°	3321.3	3093.5	2592.3	2108.7	1769.5	1541.7	1377.1	1311.3	1306.3	1298.7	1303.7
47.5°	3511.2	3260.6	2653.0	2093.6	1708.8	1435.4	1245.5	1162.0	1141.7	1131.6	1121.5
50°	3708.7	3427.7	2723.9	2083.4	1627.8	1316.4	1113.9	1017.7	979.7	967.0	954.4
52.5°	3931.4	3607.4	2784.7	2058.1	1539.2	1192.3	994.9	886.0	843.0	817.7	820.2
55°	4166.9	3772.0	2840.4	2027.7	1437.9	1075.9	875.9	784.8	741.7	734.1	734.1
57.5°	4384.6	3941.6	2880.9	1974.6	1336.6	962.0	777.2	698.7	678.4	688.6	688.6
60°	4607.4	4078.3	2901.1	1916.4	1232.8	865.8	708.8	645.5	635.4	655.7	658.2
62.5°	4787.1	4187.1	2896.0	1835.3	1118.9	782.2	643.0	592.4	597.4	632.9	640.5
65°	4916.2	4240.3	2832.8	1713.8	1010.1	708.8	584.8	536.7	536.7	562.0	569.6
67.5°	4906.1	4171.9	2706.2	1544.2	893.6	635.4	531.6	493.6	493.6	511.4	508.8
70°	4698.5	3936.5	2465.7	1339.2	779.7	572.1	486.1	458.2	455.7	463.3	460.7
72.5°	4199.8	3458.0	2091.0	1106.3	673.4	508.8	440.5	415.2	410.1	400.0	392.4
75°	3465.6	2840.4	1632.8	881.0	569.6	448.1	397.4	374.7	354.4	367.1	359.5
77.5°	2688.5	2179.6	1215.1	683.5	463.3	389.9	354.4	329.1	324.0	369.6	354.4
80°	1961.9	1506.2	858.2	488.6	359.5	316.4	296.2	275.9	349.3	468.3	465.8
82.5°	870.8	726.5	392.4	232.9	167.1	139.2	116.4	131.6	220.2	215.2	222.8
85°	78.5	81.0	43.0	27.8	17.7	15.2	10.1	10.1	7.6	7.6	7.6
87.5°	10.1	10.1	7.6	7.6	5.1	5.1	5.1	5.1	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2407-157-3

Test Date: 08/07/2024

Luminaire Tested: MEM2-HTN-SA-40-727-U-5WQ-2

Data in this report applies to families of products including MEM2-HTN-SA-40-727-U-5WQ-2

**Test Information**

Test Method: LM-79-2019  
 Report Number: SP1-2407-157-3  
 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-40-727-U-5WQ-2**  
 Description: Epic Modern Light Square 40W 5WQ Optic and Flare Trim

**Spectral Parameters**

CCT (K): 2747  
 CIE u': 0.2606  
 CIE v': 0.5257  
 Duv: -0.0005  
 CIE x: 0.4552  
 CIE y: 0.4082  
 CIE z: 0.1366  
 Peak Wavelength (nm): 597  
 Dominant Wavelength (nm): 584  
 Purity: 59.16856  
 Rf: 75.5  
 Rg: 93.6

CRI (Ra):	71.7		
R1:	68.1	R9:	-35.3
R2:	83.9	R10:	64.2
R3:	94.7	R11:	61.7
R4:	66.3	R12:	53.9
R5:	67.4	R13:	71.2
R6:	78.7	R14:	97.6
R7:	75.0	R15:	59.3
R8:	39.4		



**Test Conditions**

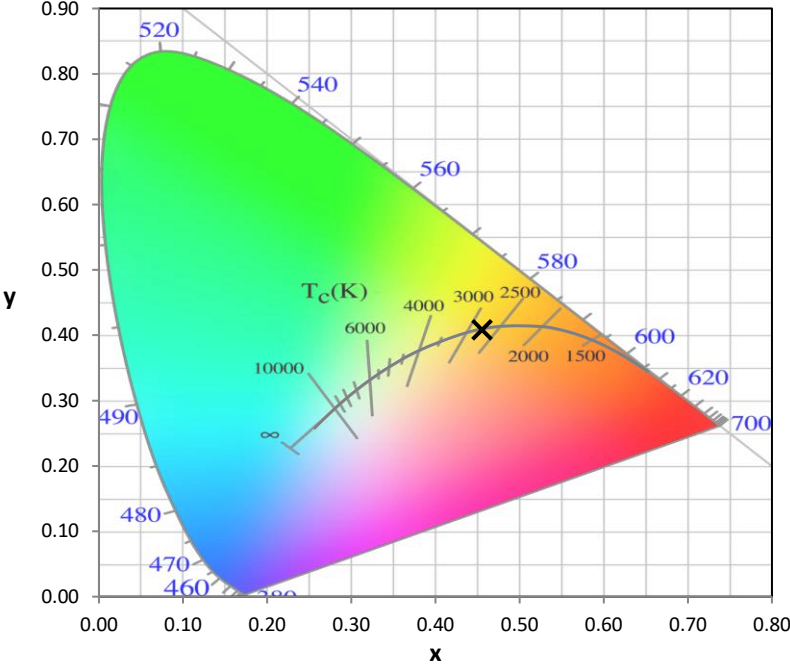
Stabilization Time: 22M  
 Operation Time: 1H 22M  
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2407-157-3

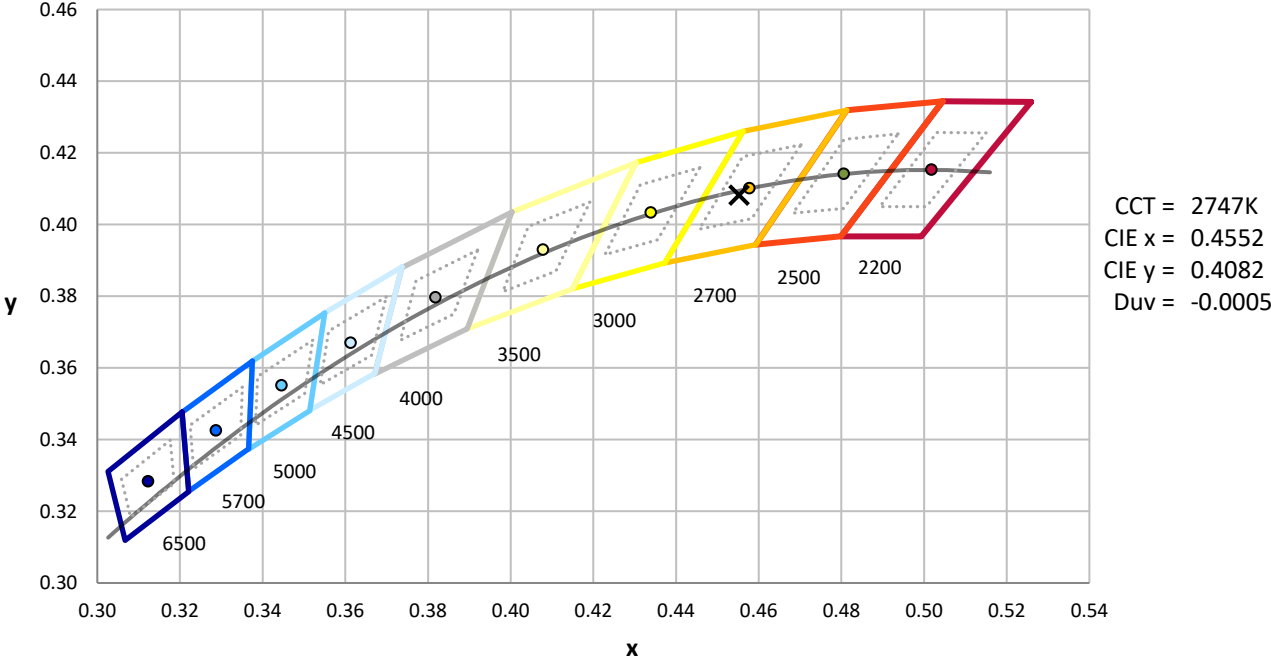
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-157-3

**CIE 1931 Chromaticity Diagram**



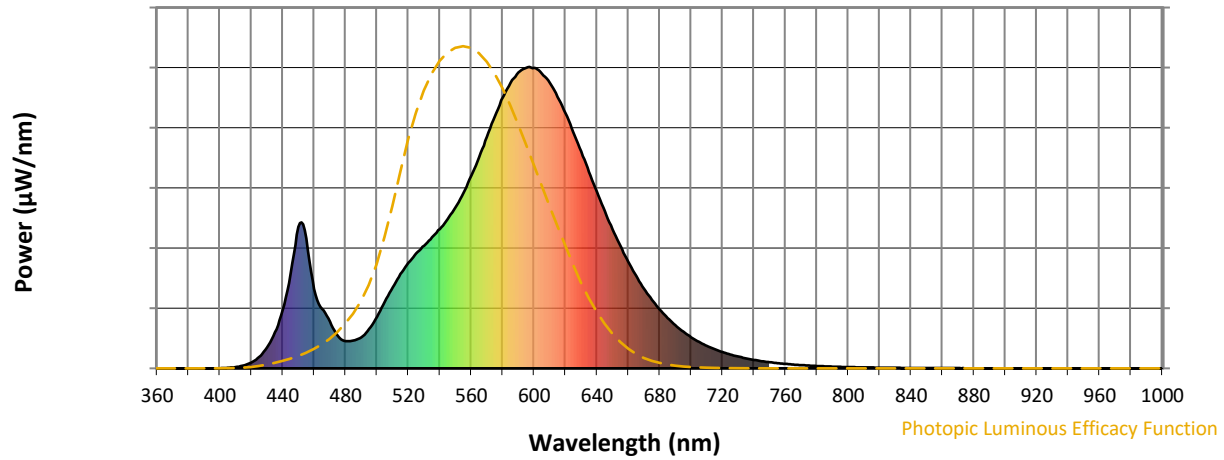
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-157-3

**Photopic Flux vs. Wavelength**



**Photopic Lumens: NR**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)
360	0	NR	490	103	NR	620	846	NR	750	20	NR	880	0	NR
365	0	NR	495	130	NR	625	784	NR	755	17	NR	885	1	NR
370	0	NR	500	171	NR	630	720	NR	760	15	NR	890	0	NR
375	0	NR	505	221	NR	635	652	NR	765	13	NR	895	0	NR
380	0	NR	510	268	NR	640	587	NR	770	11	NR	900	0	NR
385	0	NR	515	313	NR	645	521	NR	775	9	NR	905	0	NR
390	0	NR	520	350	NR	650	461	NR	780	8	NR	910	0	NR
395	0	NR	525	381	NR	655	406	NR	785	7	NR	915	0	NR
400	0	NR	530	407	NR	660	353	NR	790	6	NR	920	0	NR
405	2	NR	535	435	NR	665	307	NR	795	5	NR	925	0	NR
410	4	NR	540	462	NR	670	264	NR	800	4	NR	930	0	NR
415	9	NR	545	496	NR	675	227	NR	805	4	NR	935	0	NR
420	20	NR	550	534	NR	680	196	NR	810	3	NR	940	0	NR
425	38	NR	555	582	NR	685	167	NR	815	3	NR	945	0	NR
430	69	NR	560	638	NR	690	144	NR	820	2	NR	950	0	NR
435	120	NR	565	700	NR	695	122	NR	825	2	NR	955	0	NR
440	193	NR	570	767	NR	700	103	NR	830	2	NR	960	0	NR
445	316	NR	575	836	NR	705	88	NR	835	2	NR	965	0	NR
450	469	NR	580	898	NR	710	74	NR	840	1	NR	970	0	NR
455	431	NR	585	947	NR	715	63	NR	845	1	NR	975	0	NR
460	264	NR	590	982	NR	720	54	NR	850	1	NR	980	0	NR
465	197	NR	595	997	NR	725	46	NR	855	1	NR	985	0	NR
470	155	NR	600	997	NR	730	39	NR	860	1	NR	990	0	NR
475	108	NR	605	978	NR	735	33	NR	865	1	NR	995	0	NR
480	90	NR	610	947	NR	740	28	NR	870	1	NR	1000	0	NR
485	92	NR	615	900	NR	745	24	NR	875	1	NR			

REPORT NUMBER: SP1-2407-157-3

**Scotopic Flux vs. Wavelength**



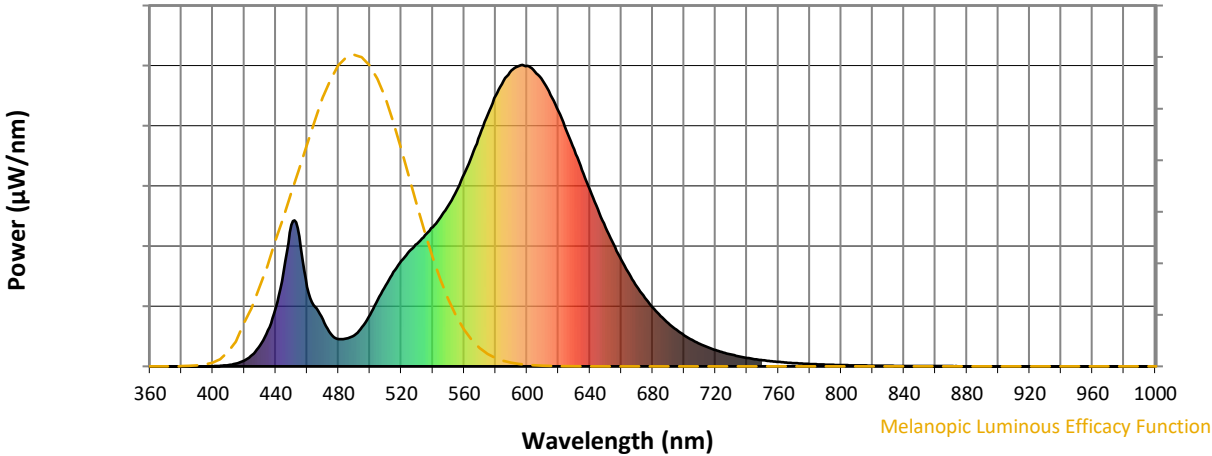
**Scotopic Lumens: NR**

**S/P: 1.13**

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	103	NR	620	846	NR	750	20	NR	880	0	NR
365	0	NR	495	130	NR	625	784	NR	755	17	NR	885	1	NR
370	0	NR	500	171	NR	630	720	NR	760	15	NR	890	0	NR
375	0	NR	505	221	NR	635	652	NR	765	13	NR	895	0	NR
380	0	NR	510	268	NR	640	587	NR	770	11	NR	900	0	NR
385	0	NR	515	313	NR	645	521	NR	775	9	NR	905	0	NR
390	0	NR	520	350	NR	650	461	NR	780	8	NR	910	0	NR
395	0	NR	525	381	NR	655	406	NR	785	7	NR	915	0	NR
400	0	NR	530	407	NR	660	353	NR	790	6	NR	920	0	NR
405	2	NR	535	435	NR	665	307	NR	795	5	NR	925	0	NR
410	4	NR	540	462	NR	670	264	NR	800	4	NR	930	0	NR
415	9	NR	545	496	NR	675	227	NR	805	4	NR	935	0	NR
420	20	NR	550	534	NR	680	196	NR	810	3	NR	940	0	NR
425	38	NR	555	582	NR	685	167	NR	815	3	NR	945	0	NR
430	69	NR	560	638	NR	690	144	NR	820	2	NR	950	0	NR
435	120	NR	565	700	NR	695	122	NR	825	2	NR	955	0	NR
440	193	NR	570	767	NR	700	103	NR	830	2	NR	960	0	NR
445	316	NR	575	836	NR	705	88	NR	835	2	NR	965	0	NR
450	469	NR	580	898	NR	710	74	NR	840	1	NR	970	0	NR
455	431	NR	585	947	NR	715	63	NR	845	1	NR	975	0	NR
460	264	NR	590	982	NR	720	54	NR	850	1	NR	980	0	NR
465	197	NR	595	997	NR	725	46	NR	855	1	NR	985	0	NR
470	155	NR	600	997	NR	730	39	NR	860	1	NR	990	0	NR
475	108	NR	605	978	NR	735	33	NR	865	1	NR	995	0	NR
480	90	NR	610	947	NR	740	28	NR	870	1	NR	1000	0	NR
485	92	NR	615	900	NR	745	24	NR	875	1	NR			

REPORT NUMBER: SP1-2407-157-3

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.04

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	103	NR	620	846	NR	750	20	NR	880	0	NR
365	0	NR	495	130	NR	625	784	NR	755	17	NR	885	1	NR
370	0	NR	500	171	NR	630	720	NR	760	15	NR	890	0	NR
375	0	NR	505	221	NR	635	652	NR	765	13	NR	895	0	NR
380	0	NR	510	268	NR	640	587	NR	770	11	NR	900	0	NR
385	0	NR	515	313	NR	645	521	NR	775	9	NR	905	0	NR
390	0	NR	520	350	NR	650	461	NR	780	8	NR	910	0	NR
395	0	NR	525	381	NR	655	406	NR	785	7	NR	915	0	NR
400	0	NR	530	407	NR	660	353	NR	790	6	NR	920	0	NR
405	2	NR	535	435	NR	665	307	NR	795	5	NR	925	0	NR
410	4	NR	540	462	NR	670	264	NR	800	4	NR	930	0	NR
415	9	NR	545	496	NR	675	227	NR	805	4	NR	935	0	NR
420	20	NR	550	534	NR	680	196	NR	810	3	NR	940	0	NR
425	38	NR	555	582	NR	685	167	NR	815	3	NR	945	0	NR
430	69	NR	560	638	NR	690	144	NR	820	2	NR	950	0	NR
435	120	NR	565	700	NR	695	122	NR	825	2	NR	955	0	NR
440	193	NR	570	767	NR	700	103	NR	830	2	NR	960	0	NR
445	316	NR	575	836	NR	705	88	NR	835	2	NR	965	0	NR
450	469	NR	580	898	NR	710	74	NR	840	1	NR	970	0	NR
455	431	NR	585	947	NR	715	63	NR	845	1	NR	975	0	NR
460	264	NR	590	982	NR	720	54	NR	850	1	NR	980	0	NR
465	197	NR	595	997	NR	725	46	NR	855	1	NR	985	0	NR
470	155	NR	600	997	NR	730	39	NR	860	1	NR	990	0	NR
475	108	NR	605	978	NR	735	33	NR	865	1	NR	995	0	NR
480	90	NR	610	947	NR	740	28	NR	870	1	NR	1000	0	NR
485	92	NR	615	900	NR	745	24	NR	875	1	NR			

**Summary**

$R_f = 75.5$   
 $R_g = 93.6$   
 $CIE R_a = 71.7$   
 $R_9 = -35.3$



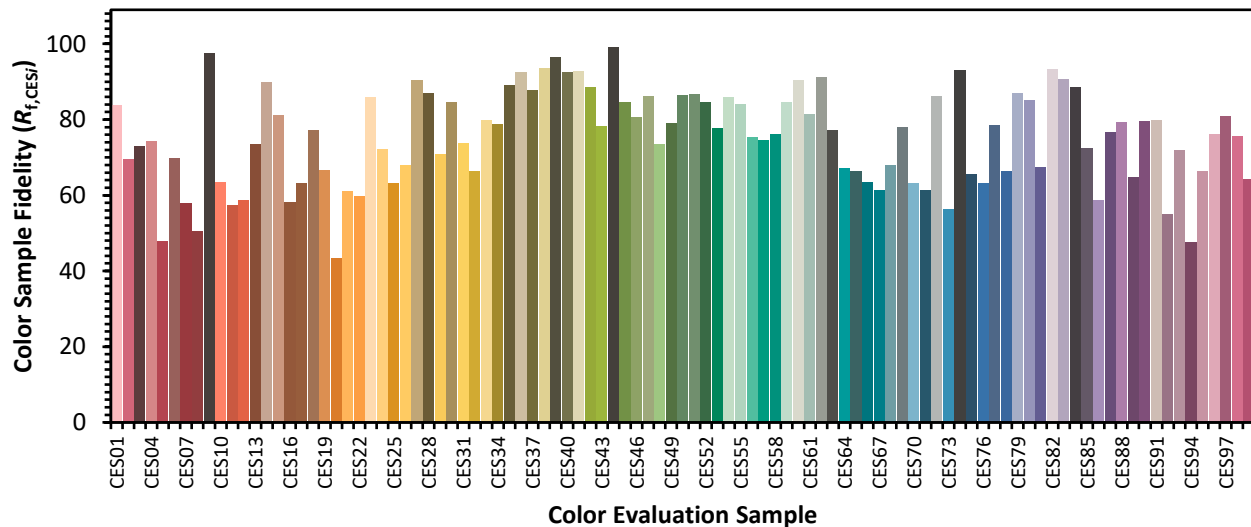
**Color Vector Graphics**



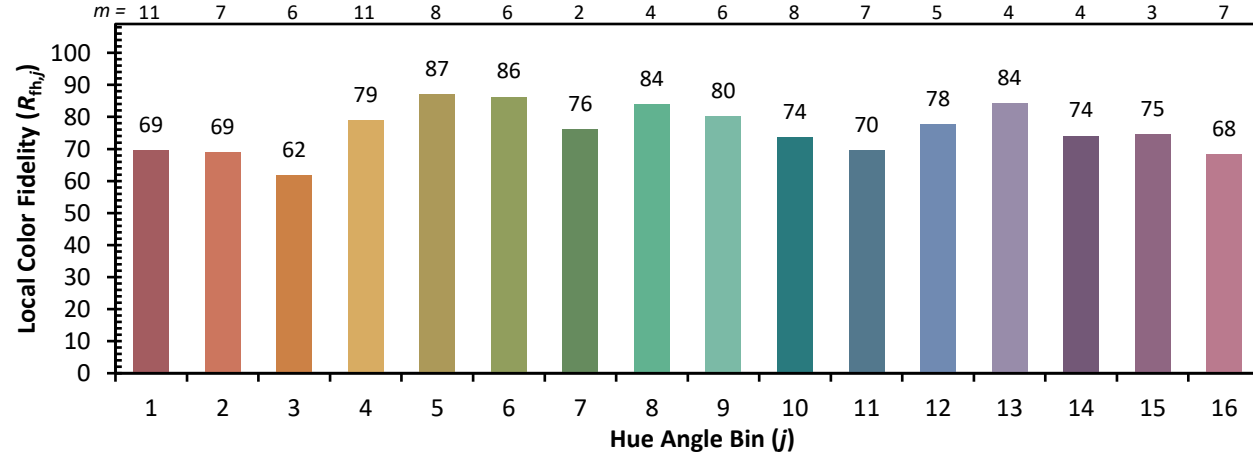


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

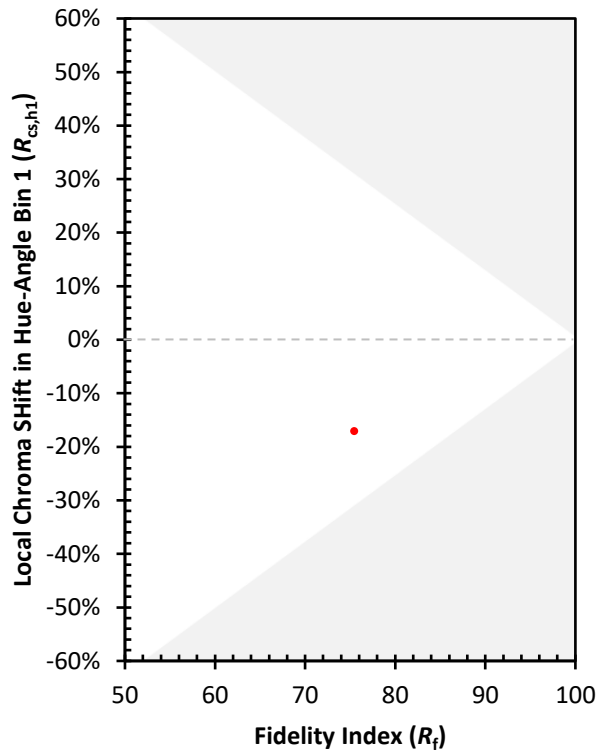
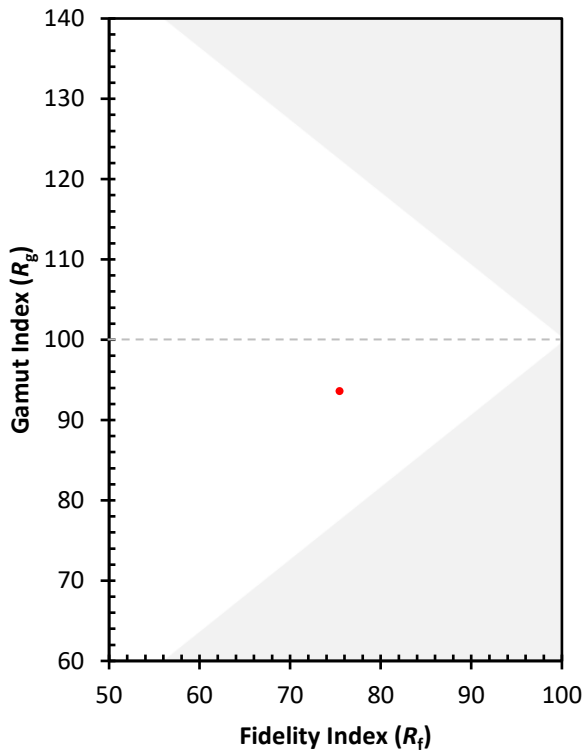
CES01 = 86	CES26 = 68	CES51 = 87	CES76 = 63
CES02 = 63	CES27 = 90	CES52 = 85	CES77 = 79
CES03 = 31	CES28 = 87	CES53 = 78	CES78 = 66
CES04 = 71	CES29 = 71	CES54 = 86	CES79 = 87
CES05 = 50	CES30 = 85	CES55 = 84	CES80 = 85
CES06 = 52	CES31 = 74	CES56 = 75	CES81 = 67
CES07 = 42	CES32 = 66	CES57 = 75	CES82 = 93
CES08 = 41	CES33 = 80	CES58 = 76	CES83 = 91
CES09 = 29	CES34 = 79	CES59 = 85	CES84 = 89
CES10 = 77	CES35 = 89	CES60 = 90	CES85 = 72
CES11 = 60	CES36 = 93	CES61 = 81	CES86 = 59
CES12 = 66	CES37 = 88	CES62 = 91	CES87 = 77
CES13 = 43	CES38 = 93	CES63 = 77	CES88 = 79
CES14 = 74	CES39 = 97	CES64 = 67	CES89 = 65
CES15 = 72	CES40 = 93	CES65 = 66	CES90 = 80
CES16 = 48	CES41 = 93	CES66 = 63	CES91 = 80
CES17 = 51	CES42 = 89	CES67 = 61	CES92 = 55
CES18 = 57	CES43 = 78	CES68 = 68	CES93 = 72
CES19 = 73	CES44 = 99	CES69 = 78	CES94 = 48
CES20 = 67	CES45 = 85	CES70 = 63	CES95 = 66
CES21 = 88	CES46 = 81	CES71 = 61	CES96 = 76
CES22 = 80	CES47 = 86	CES72 = 86	CES97 = 81
CES23 = 92	CES48 = 74	CES73 = 56	CES98 = 76
CES24 = 91	CES49 = 79	CES74 = 93	CES99 = 64
CES25 = 73	CES50 = 86	CES75 = 66	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)