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: P868770

Luminaire Tested: **EMM2-HSN-SA2B-727-U-T1**

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:	P868770
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	08/22/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	INVUE
Catalog Number:	EMM2-HSN-SA2B-727-U-T1
Description:	EPIC MODERN SHORT HOUSING DISCRETE LED ARRAYS 100W 70CRI 2700K FIXTURE w/ TYPE 1 DISTRIBUTION OPTIC
Light Source:	(20) 2700K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	12307.5 lumens
Efficiency:	N/A
Efficacy:	136.8 lumens/watt
Luminous Opening:	Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification:	Type I - Short
BUG Rating:	B3 - U0 - G3

Input Watts (W):	90
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.99
Total Harmonic Distortion (THDi):	6.20%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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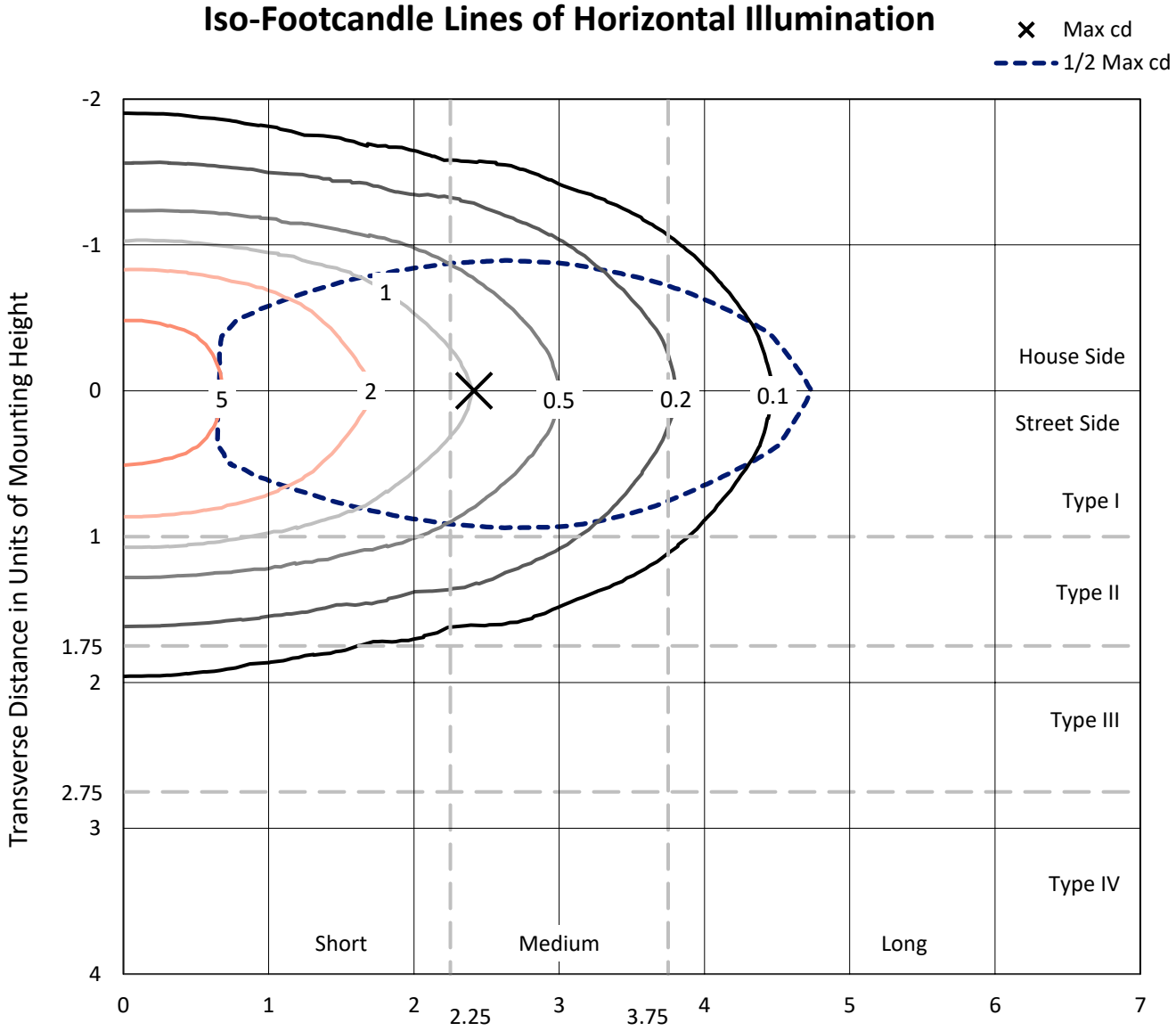
Scaled Data Report

REPORT NUMBER: P868770
CATALOG NUMBER: EMM2-HSN-SA2B-727-U-T1

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 7.5 fc
Type I - Short - N/A

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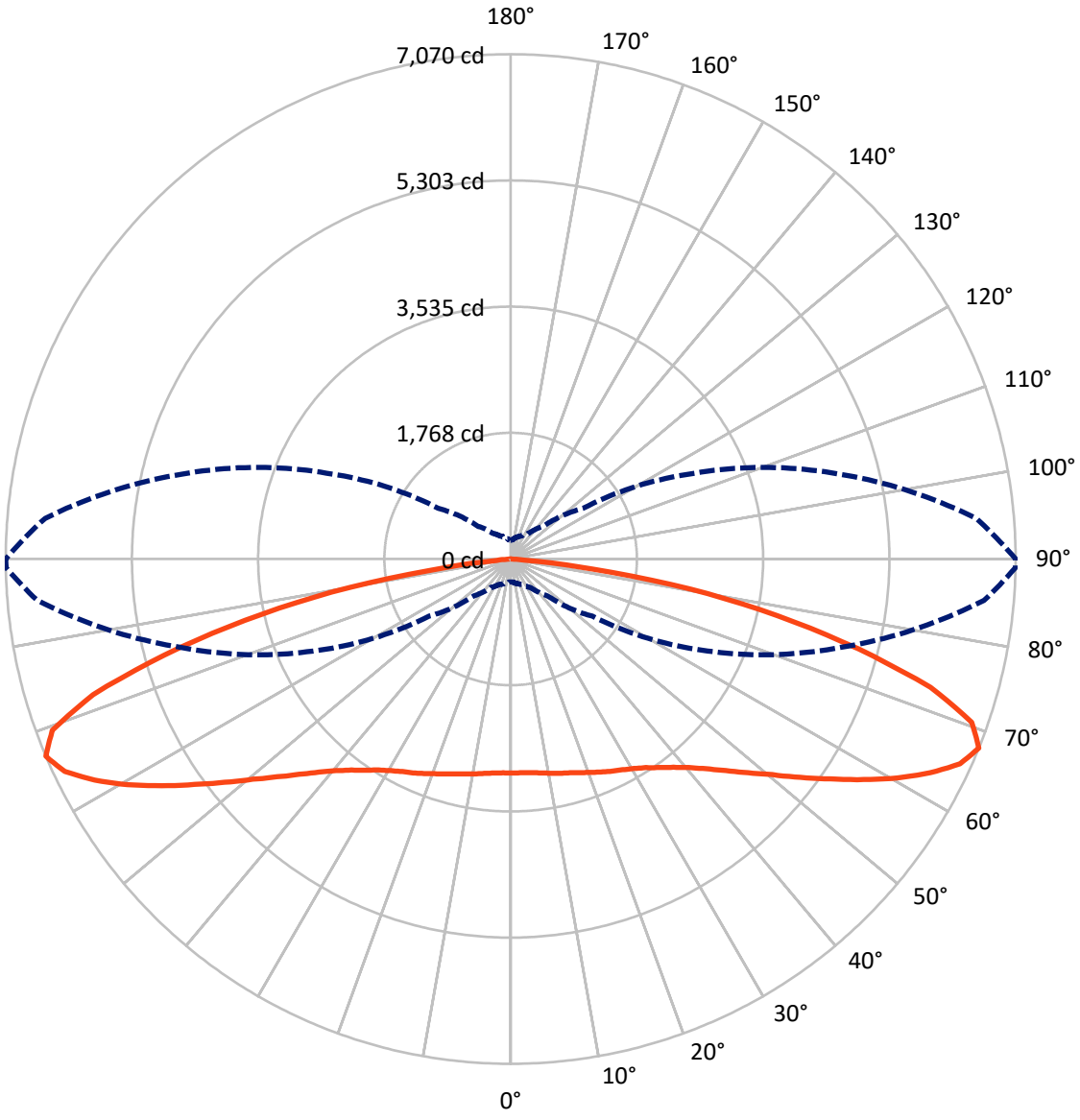
Luminous Intensity Polar Plot



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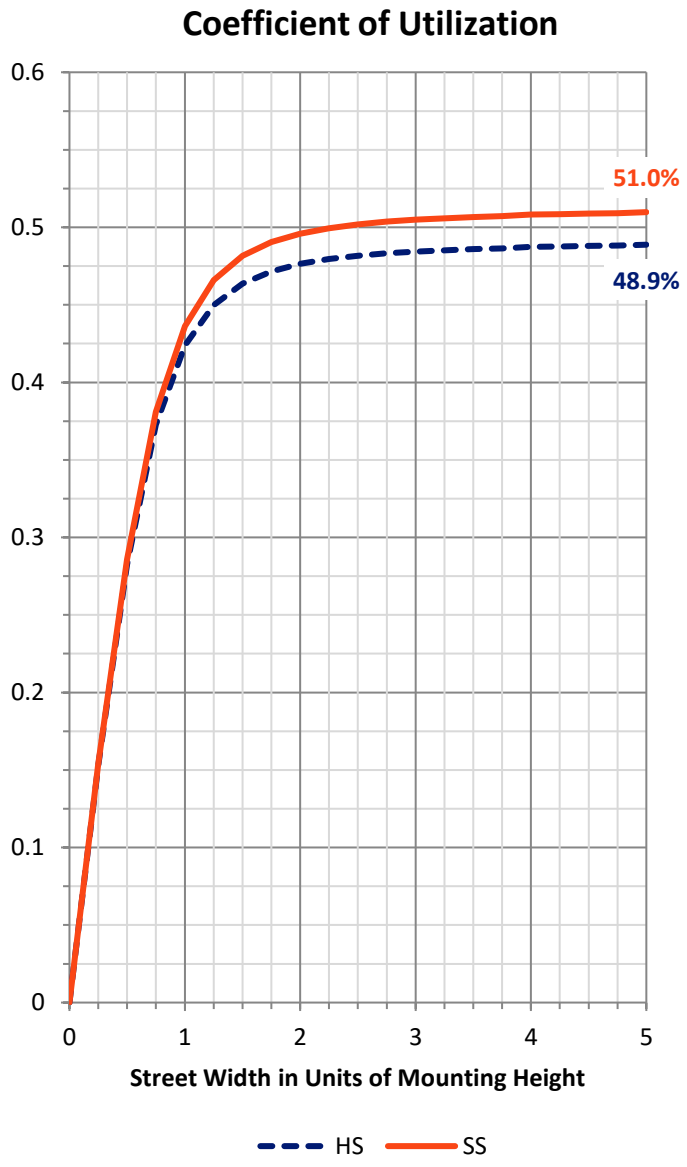
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6044.5	0.0	6044.5
	% Fixture	49.1	0.0	49.1
Street Side	Lumens	6263.1	0.0	6263.1
	% Fixture	50.9	0.0	50.9
Total	Lumens	12307.5	0.0	12307.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.4	2.3
10°-20°	863.6	7.0
20°-30°	1429.3	11.6
30°-40°	1895.2	15.4
40°-50°	2136.8	17.4
50°-60°	2190.6	17.8
60°-70°	2069.0	16.8
70°-80°	1269.5	10.3
80°-90°	166.1	1.3
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°	12307.5	100.0
0°-180°	12307.5	100.0



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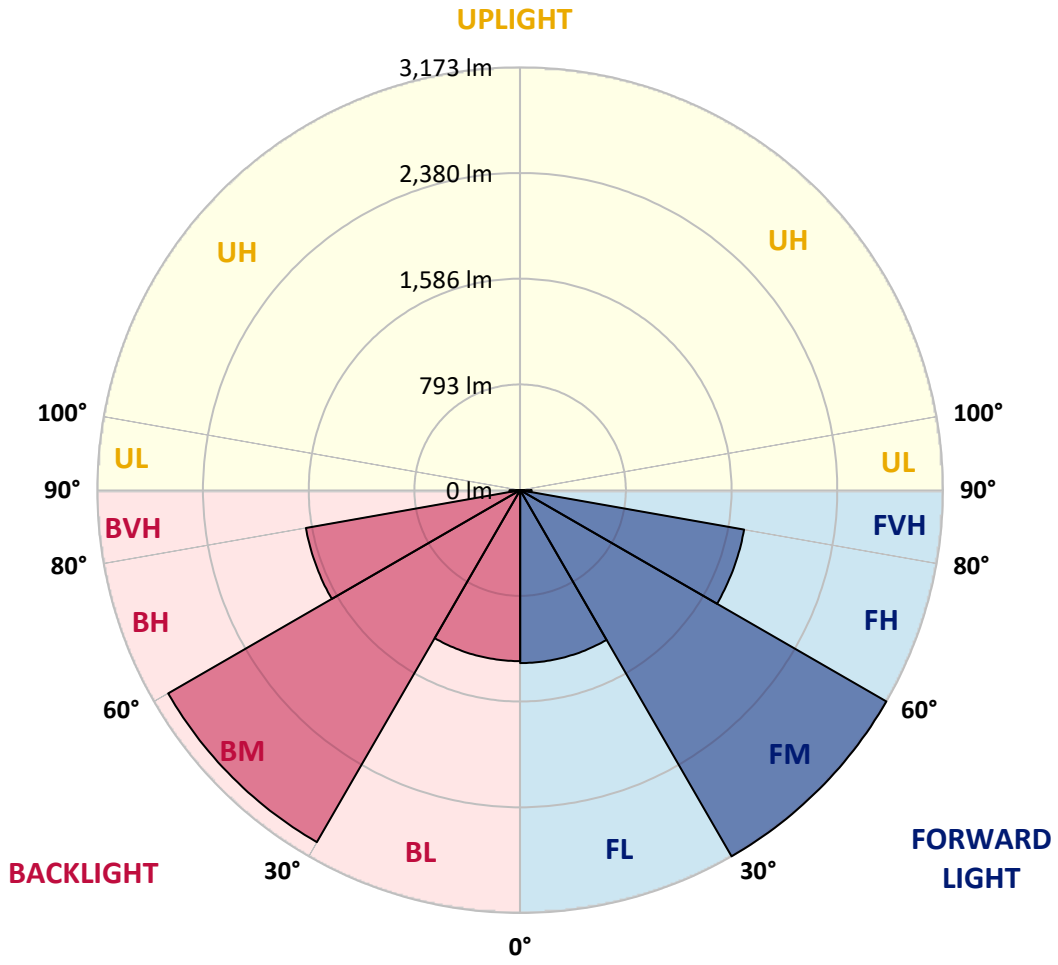
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1297.6	10.5			
FM	(30°-60°)	3172.7	25.8			
FH	(60°-80°)	1706.2	13.9			G1/1800
FVH	(80°-90°)	86.5	0.7			G1/100
BL	(0°-30°)	1282.8	10.4	B3/2500		
BM	(30°-60°)	3049.9	24.8	B3/5000		
BH	(60°-80°)	1632.2	13.3	B3/2500		G3/2500
BVH	(80°-90°)	79.6	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 I Short



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REPORT NUMBER: P868770
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	2998.7	2998.7	2998.7	2998.7	2998.7	2998.7	2998.7	2998.7	2998.7	2998.7	2998.7
2.5°	3010.5	3010.5	3003.4	2991.6	2989.3	2991.6	3005.8	2998.7	2998.7	3001.1	2998.7
5°	3010.5	3010.5	3005.8	2994.0	2994.0	2994.0	3010.5	3003.4	3005.8	3008.2	3008.2
7.5°	3015.2	3015.2	3010.5	3001.1	3001.1	3001.1	3024.7	3020.0	3020.0	3027.1	3022.3
10°	3027.1	3022.3	3017.6	3020.0	3012.9	3024.7	3036.5	3038.9	3048.3	3053.1	3050.7
12.5°	3027.1	3022.3	3010.5	3024.7	3024.7	3041.2	3057.8	3067.2	3079.0	3079.0	3079.0
15°	3012.9	3008.2	2998.7	3022.3	3031.8	3053.1	3076.7	3090.9	3112.1	3112.1	3109.8
17.5°	2996.3	2989.3	2984.5	3020.0	3041.2	3069.6	3105.0	3123.9	3147.6	3149.9	3145.2
20°	2965.6	2963.3	2965.6	3012.9	3050.7	3090.9	3133.4	3159.4	3190.1	3199.6	3192.5
22.5°	2932.5	2932.5	2942.0	3005.8	3064.9	3119.2	3175.9	3209.0	3239.7	3249.2	3239.7
25°	2887.6	2887.6	2906.5	2982.2	3069.6	3149.9	3216.1	3261.0	3289.4	3298.8	3294.1
27.5°	2819.1	2819.1	2840.4	2934.9	3055.4	3173.6	3258.6	3310.6	3341.3	3350.8	3346.1
30°	2722.2	2717.5	2745.9	2864.0	3029.4	3199.6	3308.3	3362.6	3402.8	3409.9	3402.8
32.5°	2568.6	2575.7	2618.3	2767.1	2986.9	3216.1	3367.3	3431.1	3476.0	3490.2	3485.5
35°	2381.9	2393.8	2452.8	2644.2	2906.5	3213.7	3428.8	3506.8	3565.8	3584.7	3582.4
37.5°	2159.8	2176.4	2249.6	2474.1	2786.0	3178.3	3485.5	3591.8	3669.8	3693.4	3698.2
40°	1916.4	1933.0	2027.5	2275.6	2623.0	3095.6	3518.6	3688.7	3792.7	3839.9	3847.0
42.5°	1658.9	1687.2	1800.6	2041.7	2426.8	2963.3	3518.6	3783.2	3910.8	3998.3	4005.4
45°	1410.7	1434.4	1571.4	1807.7	2216.5	2793.1	3478.4	3877.8	4071.5	4222.8	4218.0
47.5°	1195.7	1202.8	1328.0	1566.7	1982.6	2599.3	3395.7	3962.8	4241.7	4442.5	4485.1
50°	973.6	990.1	1096.5	1332.8	1743.9	2386.7	3256.3	4017.2	4416.5	4721.4	4775.7
52.5°	817.6	820.0	900.3	1117.7	1495.8	2129.1	3088.5	4031.4	4584.3	5023.8	5090.0
55°	666.4	678.2	746.7	909.8	1257.1	1876.3	2871.1	4010.1	4737.9	5316.9	5439.7
57.5°	571.9	574.2	623.8	753.8	1061.0	1606.9	2630.1	3939.2	4865.5	5640.6	5796.5
60°	491.5	491.5	529.3	628.6	857.8	1344.6	2346.5	3814.0	4936.4	5988.0	6214.8
62.5°	427.7	430.1	463.2	536.4	713.6	1110.6	2034.6	3617.8	4962.4	6323.5	6583.4
65°	387.5	389.9	408.8	458.4	588.4	902.7	1715.6	3379.2	4926.9	6574.0	6911.9
67.5°	*321.4*	*323.7*	*356.8*	*394.6*	*489.2*	*725.5*	*1394.2*	*3048.3*	*4782.8*	*6652.0*	*7065.5*
70°	245.8	252.8	297.7	337.9	406.4	578.9	1070.5	2611.2	4437.8	6387.3	6812.7
72.5°	205.6	207.9	241.0	285.9	340.3	453.7	812.9	2055.8	3913.2	5704.4	6177.0
75°	179.6	182.0	200.9	241.0	283.6	363.9	564.8	1420.2	3121.6	4612.7	5045.1
77.5°	163.1	165.4	170.1	203.2	238.7	281.2	399.4	843.6	2202.4	3525.7	3752.5
80°	156.0	156.0	144.1	167.8	196.1	219.8	267.0	484.4	1413.1	2377.2	2559.2
82.5°	111.1	108.7	99.2	104.0	120.5	120.5	137.1	200.9	541.1	1004.3	1089.4
85°	7.1	7.1	11.8	14.2	21.3	28.4	35.4	47.3	137.1	186.7	193.8
87.5°	2.4	2.4	2.4	2.4	2.4	4.7	4.7	4.7	7.1	9.5	9.5
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: P868770
CATALOG NUMBER: EMM2-HSN-SA2B-727-U-T1

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2998.7	2998.7	2998.7	2998.7	2998.7	2998.7	2998.7	2998.7	2998.7	2998.7	2998.7
2.5°	2996.3	2998.7	2998.7	3003.4	3008.2	3005.8	3003.4	3008.2	3001.1	2986.9	2984.5
5°	3005.8	3005.8	3003.4	3008.2	3012.9	3008.2	3003.4	3003.4	2998.7	2984.5	2982.2
7.5°	3024.7	3022.3	3022.3	3022.3	3022.3	3015.2	3008.2	3003.4	2996.3	2982.2	2975.1
10°	3050.7	3048.3	3046.0	3043.6	3031.8	3024.7	3012.9	3005.8	2996.3	2979.8	2975.1
12.5°	3079.0	3074.3	3069.6	3072.0	3048.3	3027.1	3015.2	2998.7	2991.6	2953.8	2946.7
15°	3107.4	3100.3	3098.0	3088.5	3064.9	3034.2	3010.5	2986.9	2963.3	2927.8	2916.0
17.5°	3145.2	3140.5	3126.3	3116.9	3083.8	3041.2	3005.8	2972.7	2942.0	2899.5	2892.4
20°	3190.1	3185.4	3171.2	3152.3	3109.8	3057.8	3008.2	2956.2	2918.4	2868.7	2856.9
22.5°	3239.7	3232.6	3220.8	3199.6	3145.2	3083.8	3015.2	2946.7	2890.0	2833.3	2826.2
25°	3291.7	3287.0	3275.2	3244.5	3185.4	3109.8	3015.2	2913.6	2842.7	2793.1	2771.9
27.5°	3341.3	3339.0	3324.8	3289.4	3227.9	3128.7	2994.0	2859.3	2764.8	2698.6	2684.4
30°	3405.1	3400.4	3383.9	3343.7	3275.2	3140.5	2951.4	2767.1	2649.0	2575.7	2554.5
32.5°	3483.1	3478.4	3454.8	3405.1	3331.9	3142.9	2890.0	2649.0	2493.0	2415.0	2389.0
35°	3587.1	3577.7	3546.9	3487.9	3386.2	3119.2	2781.3	2497.7	2306.3	2204.7	2169.3
37.5°	3700.5	3688.7	3648.5	3575.3	3424.1	3055.4	2627.7	2294.5	2077.1	1956.6	1930.6
40°	3839.9	3823.4	3762.0	3660.4	3438.2	2944.4	2455.2	2086.6	1855.0	1722.7	1691.9
42.5°	4014.8	3986.5	3887.2	3754.9	3409.9	2793.1	2249.6	1871.5	1606.9	1484.0	1476.9
45°	4225.1	4180.2	4031.4	3847.0	3348.4	2604.1	2032.2	1630.5	1377.7	1257.1	1226.4
47.5°	4473.2	4418.9	4199.1	3917.9	3227.9	2410.3	1798.3	1396.6	1165.0	1042.1	1018.5
50°	4747.4	4695.4	4376.4	3958.1	3098.0	2183.5	1569.1	1188.6	957.0	855.4	855.4
52.5°	5080.5	4962.4	4546.5	3962.8	2899.5	1933.0	1349.3	985.4	803.4	713.6	694.7
55°	5435.0	5295.6	4700.1	3920.3	2693.9	1703.8	1113.0	820.0	659.3	595.5	578.9
57.5°	5829.6	5617.0	4811.2	3835.2	2433.9	1453.3	928.7	675.8	555.3	503.3	496.2
60°	6226.6	5952.5	4877.3	3691.1	2157.5	1221.7	772.7	564.8	477.3	439.5	432.4
62.5°	6595.3	6226.6	4882.1	3480.8	1888.1	1018.5	633.3	486.8	423.0	394.6	394.6
65°	6914.3	6455.8	4801.7	3211.4	1545.4	817.6	522.2	411.2	368.6	337.9	330.8
67.5°	7070.2	6543.3	4659.9	2842.7	1238.2	647.5	439.5	356.8	316.6	269.4	264.7
70°	6850.5	6290.4	4296.0	2370.1	957.0	515.1	366.3	304.8	264.7	224.5	219.8
72.5°	6148.6	5617.0	3707.6	1836.1	720.7	415.9	304.8	259.9	217.4	196.1	191.4
75°	5030.9	4671.7	2930.2	1264.2	503.3	326.1	255.2	219.8	184.3	174.9	172.5
77.5°	3818.7	3473.7	2140.9	791.6	345.0	255.2	217.4	186.7	160.7	167.8	163.1
80°	2549.7	2391.4	1422.6	449.0	231.6	186.7	165.4	137.1	122.9	141.8	137.1
82.5°	1157.9	1096.5	668.7	196.1	104.0	80.3	56.7	42.5	33.1	30.7	35.4
85°	193.8	170.1	47.3	21.3	11.8	7.1	4.7	4.7	2.4	2.4	2.4
87.5°	9.5	7.1	7.1	4.7	2.4	2.4	2.4	2.4	2.4	0.0	0.0
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: SP1-2407-157-3

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

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

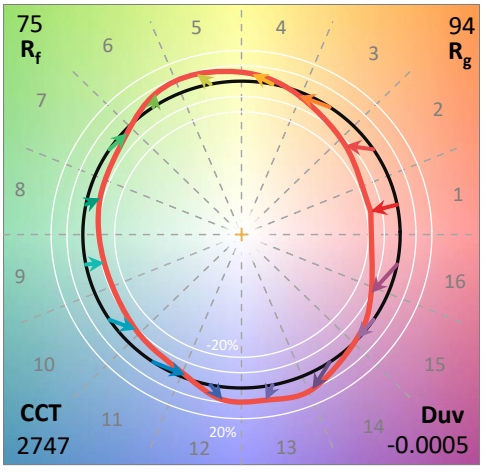
Test Information

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	CRI (Ra):	71.7		
CIE u':	0.2606	R1:	68.1	R9:	-35.3
CIE v':	0.5257	R2:	83.9	R10:	64.2
Duv:	-0.0005	R3:	94.7	R11:	61.7
CIE x:	0.4552	R4:	66.3	R12:	53.9
CIE y:	0.4082	R5:	67.4	R13:	71.2
CIE z:	0.1366	R6:	78.7	R14:	97.6
Peak Wavelength (nm):	597	R7:	75.0	R15:	59.3
Dominant Wavelength (nm):	584	R8:	39.4		
Purity:	59.16856				

Rf:	75.5
Rg:	93.6



Test Conditions

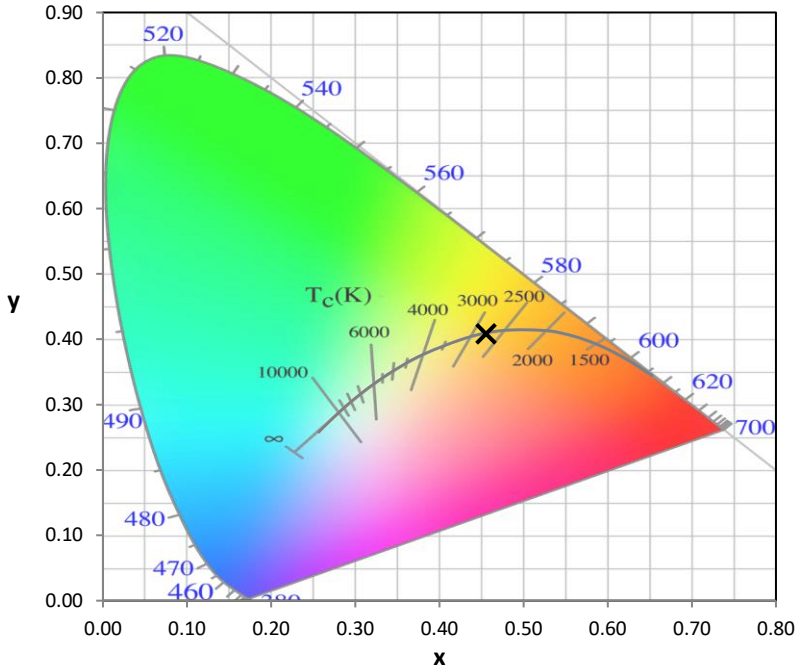
Stabilization Time:	22M
Operation Time:	1H 22M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2407-157-3

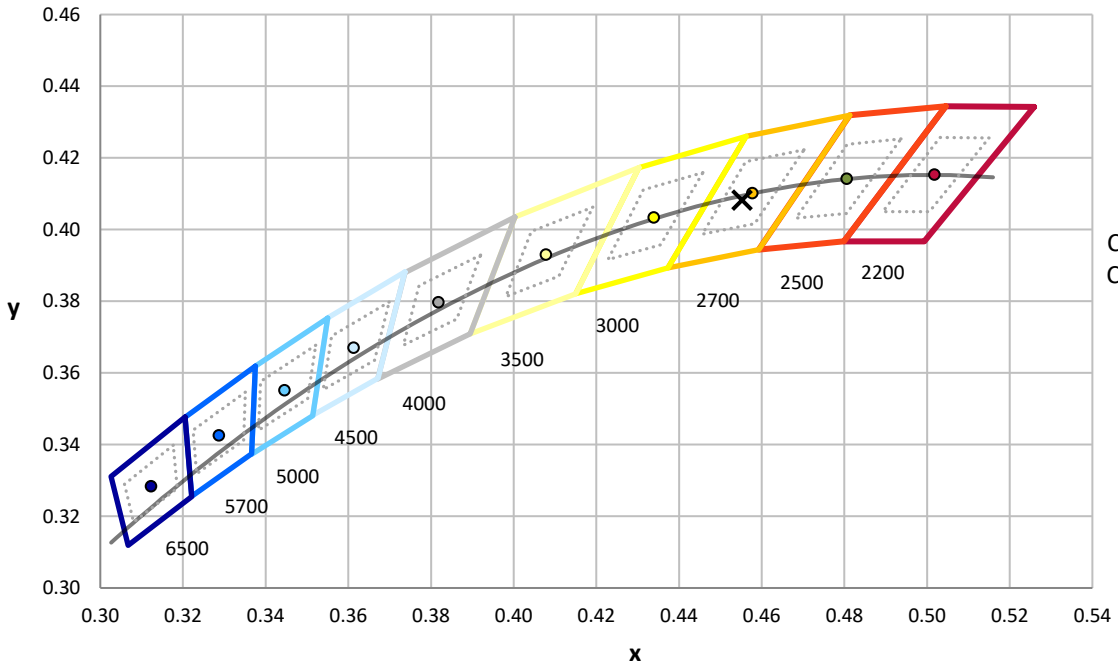
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

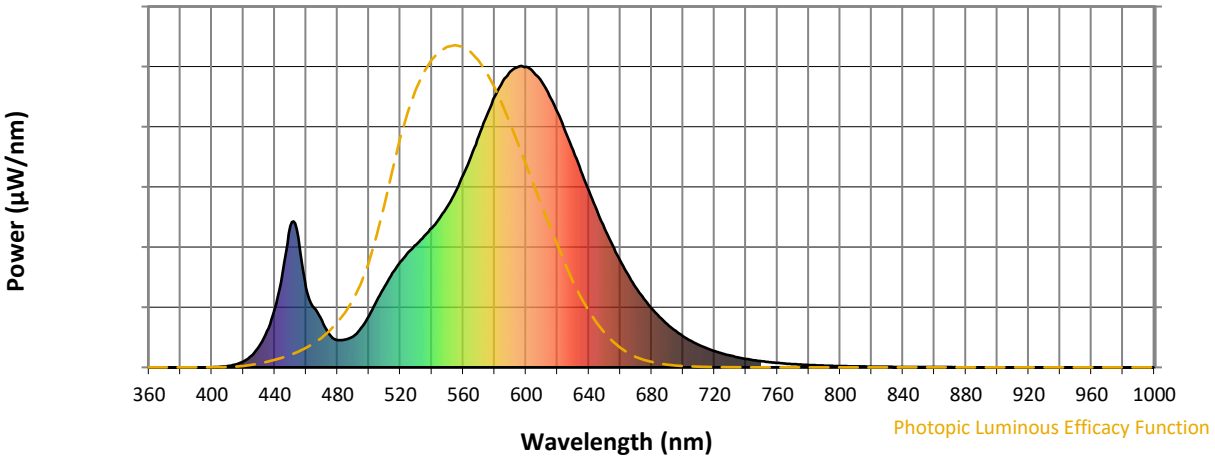


CCT = 2747K
CIE x = 0.4552
CIE y = 0.4082
Duv = -0.0005

Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-157-3

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	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			

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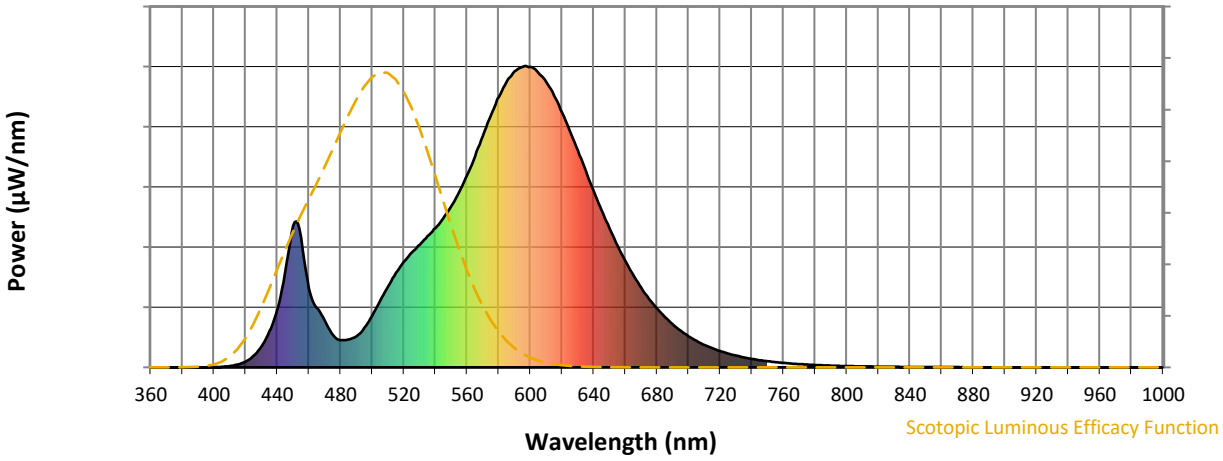
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.13**

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	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			

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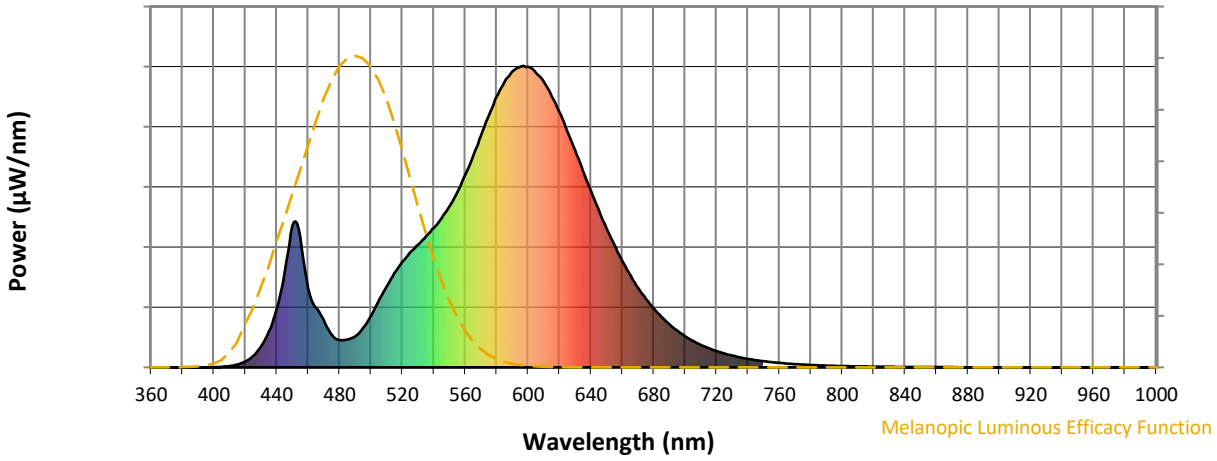
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.04**

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	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			

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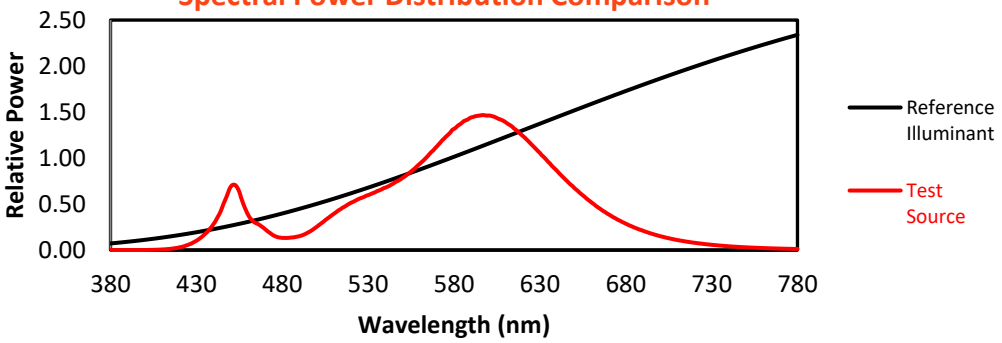
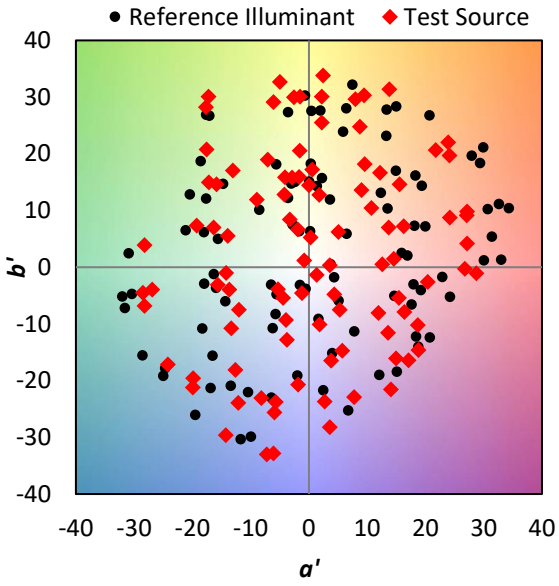
Summary

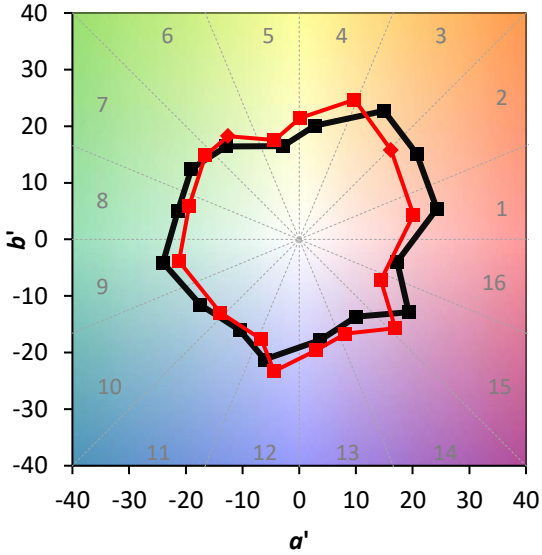
R_f = 75.5
R_g = 93.6
CIE R_a = 71.7
R_9 = -35.3

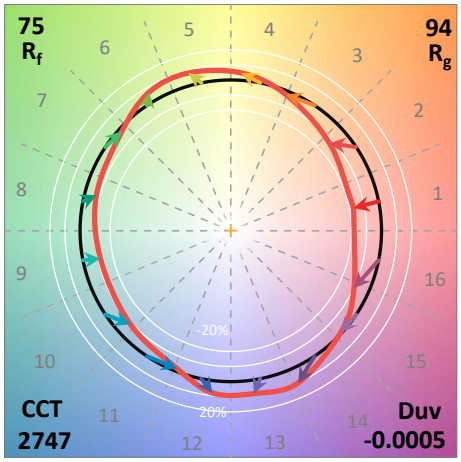
Spectral Power Distribution Comparison

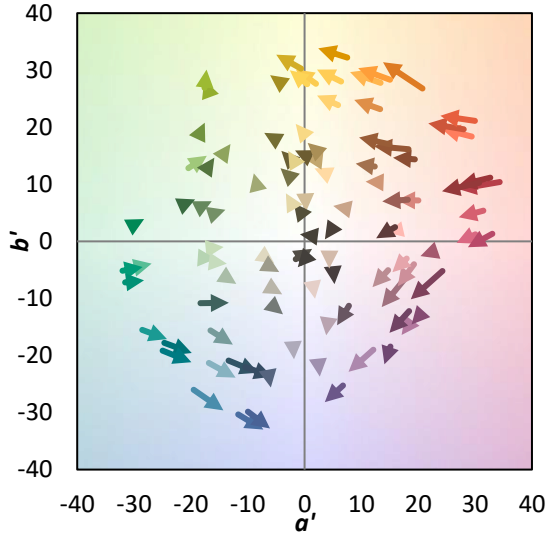


Color Vector Graphics









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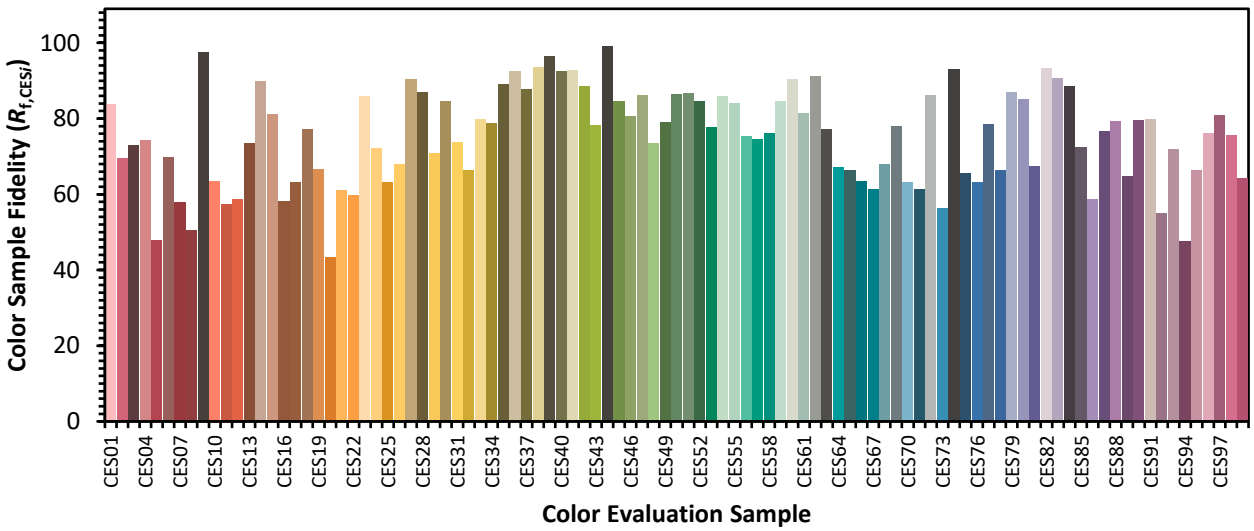
Individual Sample Fidelity Index ($R_{f,i}$)

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	



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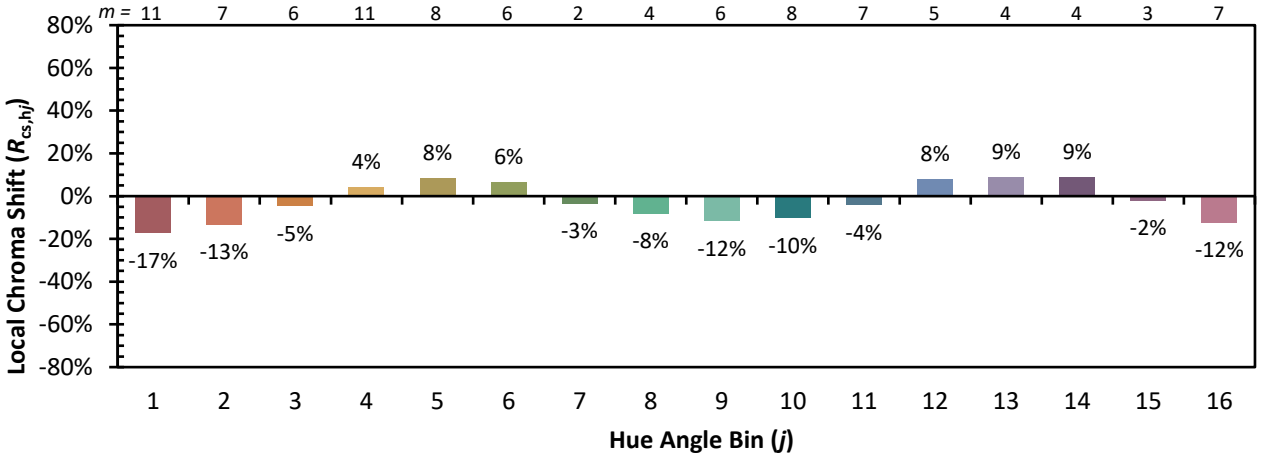
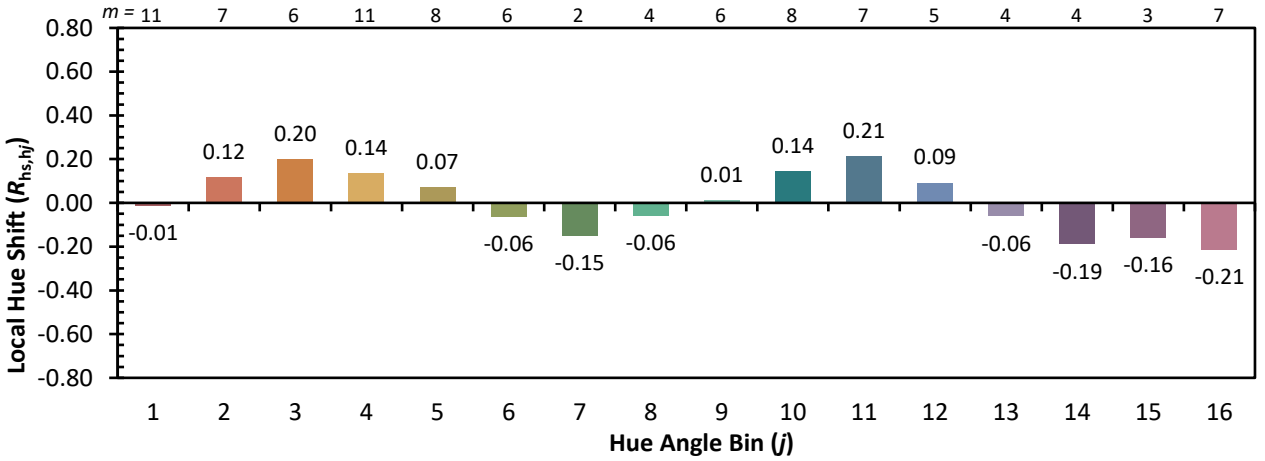
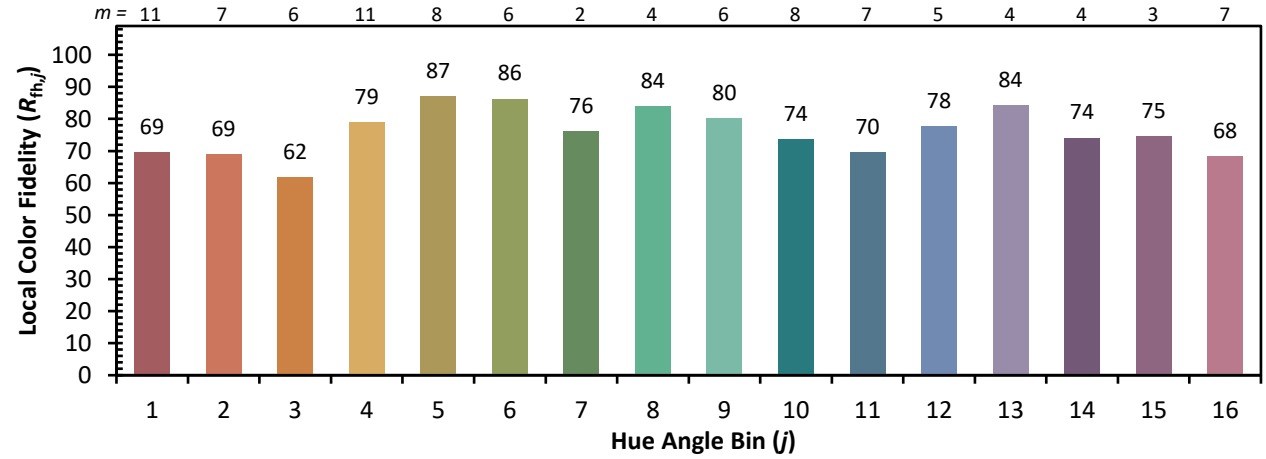
Color Rendition by Hue-Angle Bin







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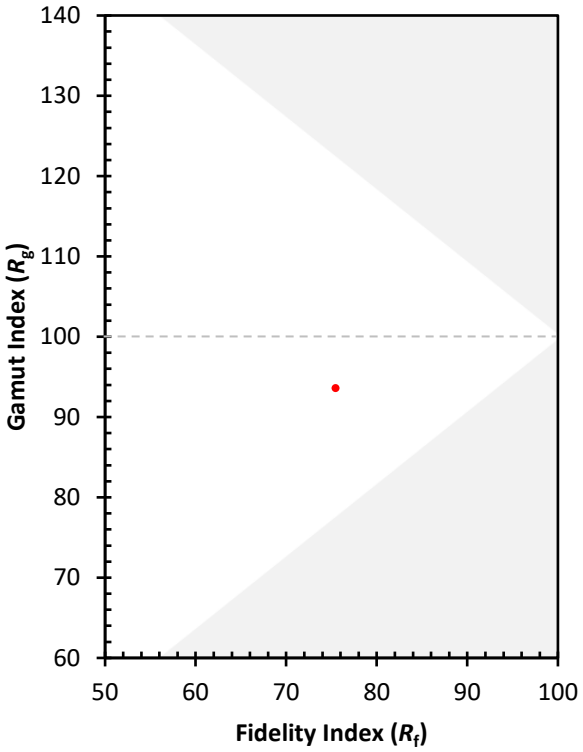
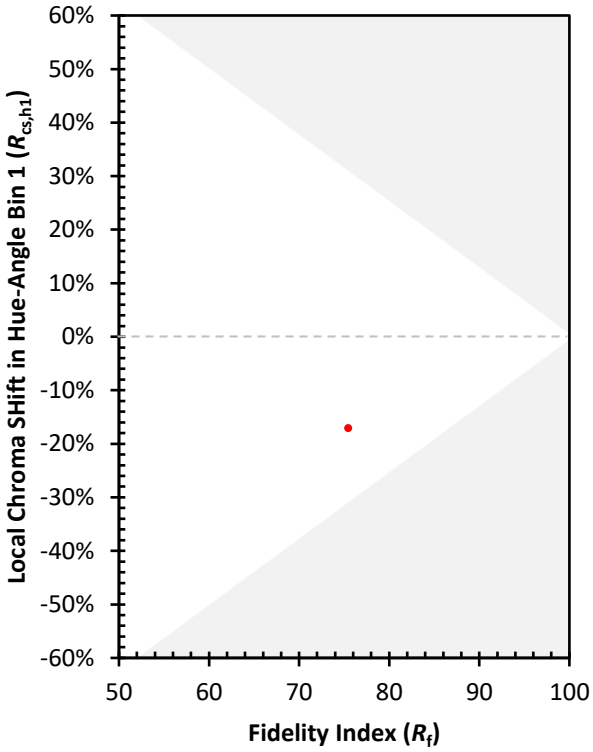
Measure Comparisons





(END OF REPORT)