

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: STREETWORKS

Report Number: P1065793

Luminaire Tested: **NVN-SA4A-730-U-T3BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1065793
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SA4A-730-U-T3BC
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 4xLight Square PACKAGE
70CRI 3000K FIXTURE w/ TYPE III ANGLED BACKLIGHT CONTROL
Light Source: (56) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13466.4 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 107.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

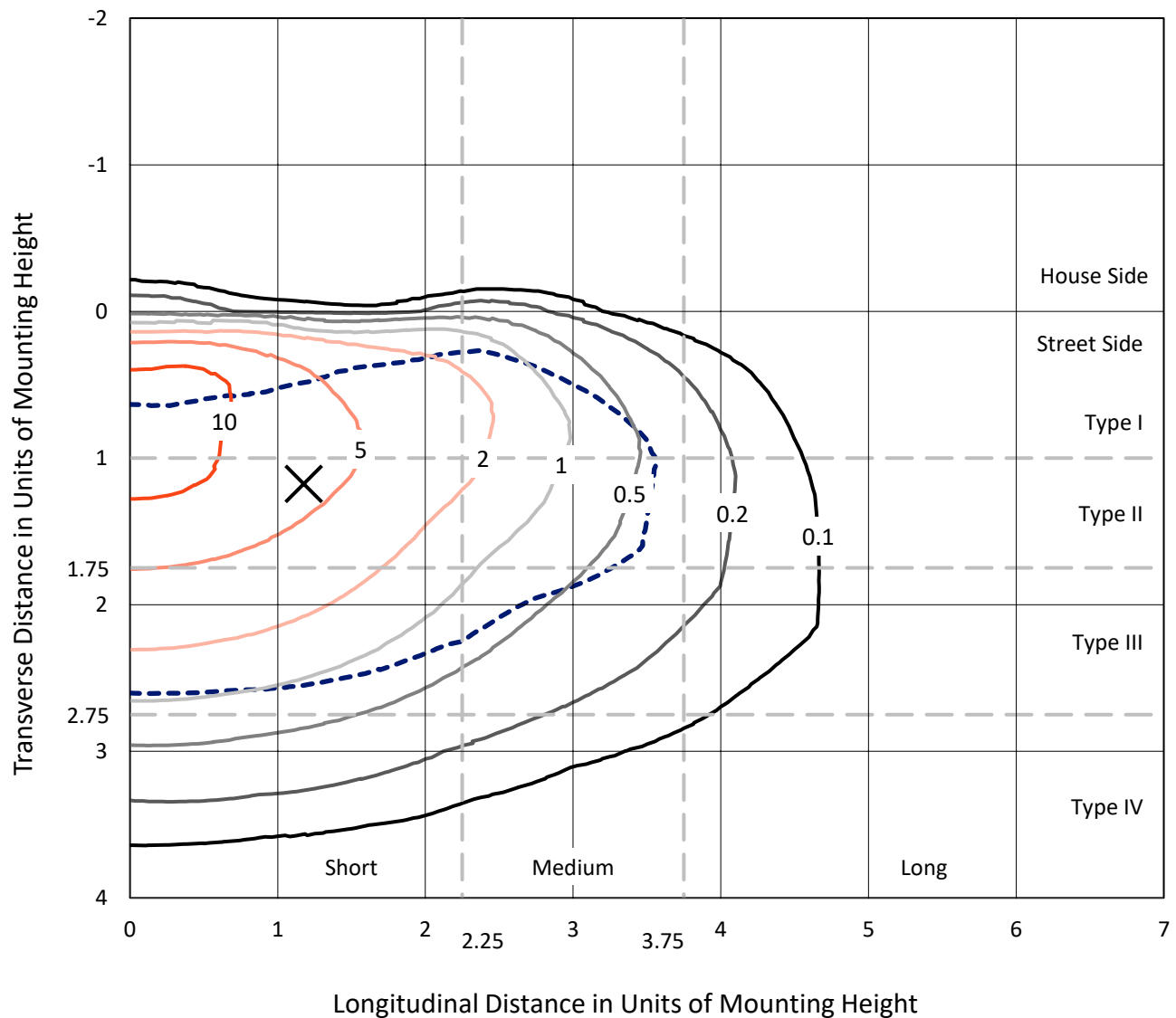


REPORT NUMBER: P1065793

CATALOG NUMBER: NVN-SA4A-730-U-T3BC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

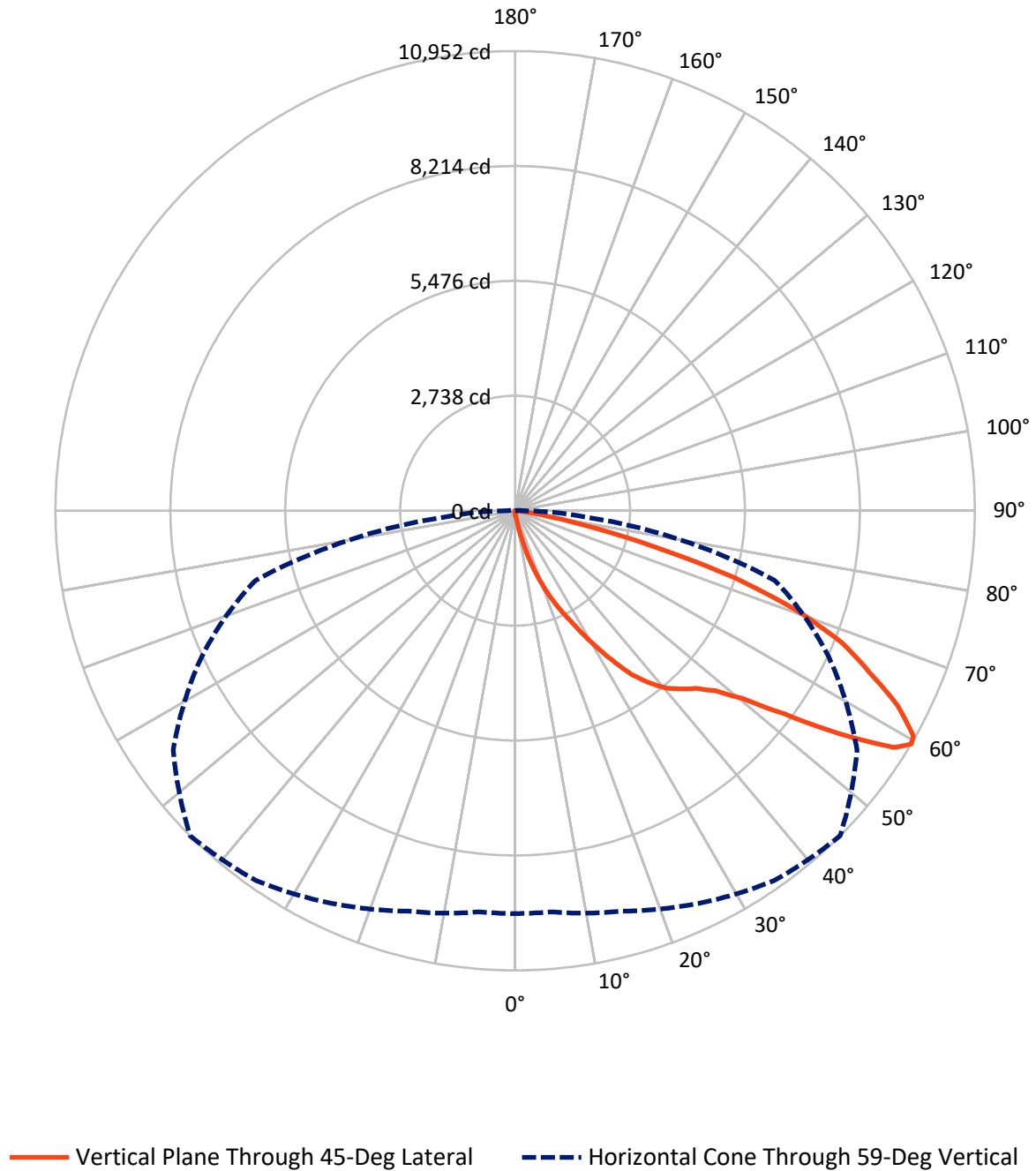


Based on 15 foot mounting height. Maximum calculated value = 14.7 fc
 Type III - Short - N/A

REPORT NUMBER: P1065793

CATALOG NUMBER: NVN-SA4A-730-U-T3BC

Luminous Intensity Polar Plot



REPORT NUMBER: P1065793

CATALOG NUMBER: NVN-SA4A-730-U-T3BC

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	47.8	0.0	47.8
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	13418.6	0.0	13418.6
	% Fixture	99.6	0.0	99.6
Total	Lumens	13466.4	0.0	13466.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.5	0.1
10°-20°	148.8	1.1
20°-30°	534.8	4.0
30°-40°	1242.8	9.2
40°-50°	2118.2	15.7
50°-60°	3490.2	25.9
60°-70°	4035.5	30.0
70°-80°	1733.8	12.9
80°-90°	149.8	1.1
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°	13466.4	100.0
0°-180°	13466.4	100.0



REPORT NUMBER: P1065793

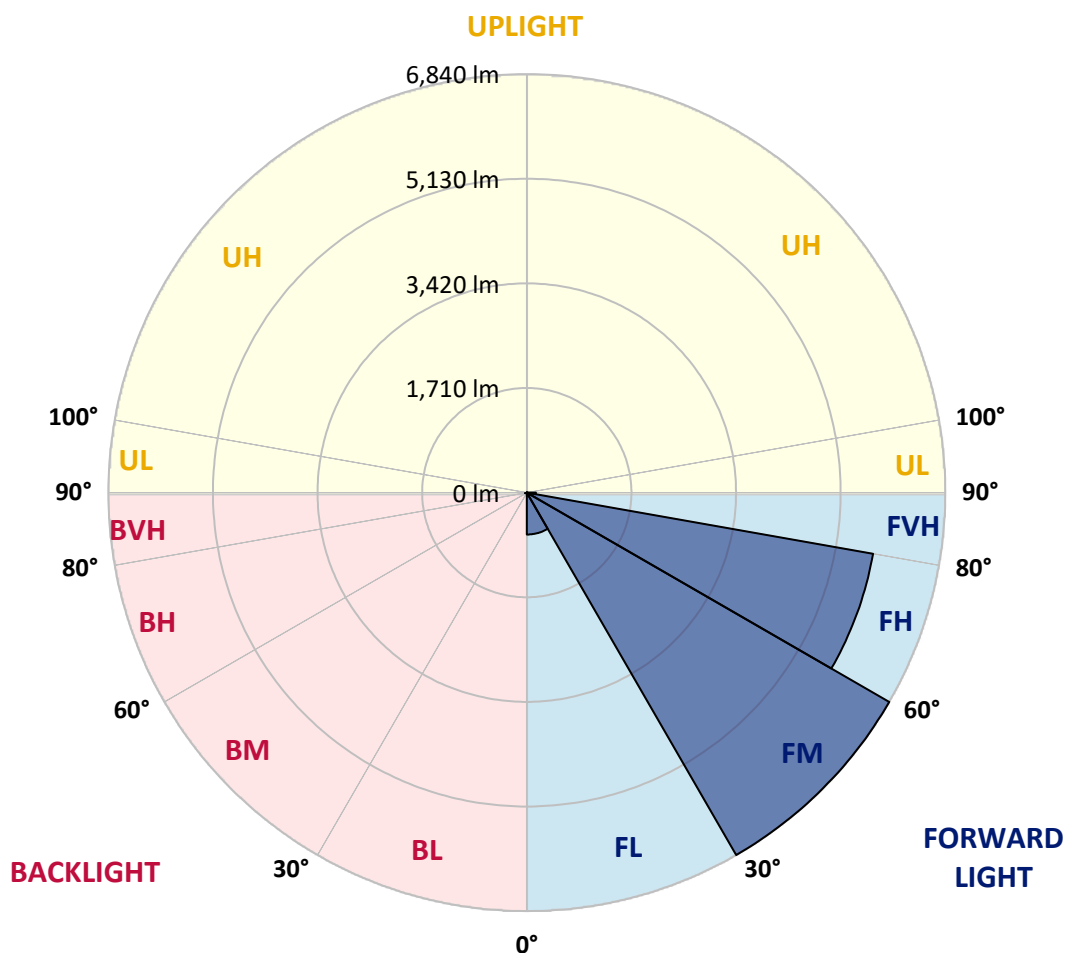
CATALOG NUMBER: NVN-SA4A-730-U-T3BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	684.4	5.1			
FM	(30°-60°)	6839.6	50.8			
FH	(60°-80°)	5746.7	42.7			G3/7500
FVH	(80°-90°)	147.9	1.1			G2/225
BL	(0°-30°)	11.8	0.1	B0/110		
BM	(30°-60°)	11.6	0.1	B0/220		
BH	(60°-80°)	22.5	0.2	B0/110		G0/110
BVH	(80°-90°)	1.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G3

Type III Short



REPORT NUMBER: P1065793

CATALOG NUMBER: NVN-SA4A-730-U-T3BC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
2.5°	110.5	110.5	107.8	104.1	103.2	100.5	100.5	97.8	94.2	91.5	87.8
5°	160.3	159.4	152.1	143.1	131.3	124.1	124.1	114.1	105.0	96.9	89.6
7.5°	350.4	342.3	316.0	272.6	215.5	177.5	174.8	142.2	120.4	104.1	90.5
10°	804.1	776.0	738.9	634.7	469.0	327.8	321.4	207.4	144.0	112.3	92.4
12.5°	1317.5	1340.1	1265.9	1102.0	908.2	675.5	630.2	349.5	190.2	123.1	94.2
15°	1784.7	1779.3	1737.6	1603.6	1380.0	1070.3	1042.2	607.6	272.6	140.4	96.0
17.5°	2134.2	2127.9	2088.1	2002.0	1830.0	1520.3	1495.9	968.9	427.4	164.8	97.8
20°	2502.8	2494.6	2438.5	2369.7	2219.3	1955.9	1926.9	1372.7	669.2	204.6	97.8
22.5°	2944.6	2929.3	2869.5	2752.7	2594.2	2365.1	2338.9	1785.6	968.9	269.8	102.3
25°	3478.9	3452.6	3370.2	3265.2	3074.1	2769.9	2741.8	2245.6	1330.2	368.5	106.8
27.5°	4088.3	4092.8	3981.4	3804.0	3547.7	3237.1	3184.6	2657.6	1704.1	509.8	112.3
30°	4811.8	4766.5	4609.8	4403.4	4154.4	3758.7	3708.0	3067.8	2124.3	718.1	121.3
32.5°	5489.1	5440.2	5229.2	4969.3	4702.2	4284.8	4243.1	3528.7	2506.4	964.3	137.6
35°	6070.4	6036.0	5740.8	5423.9	5186.6	4813.6	4800.9	4043.0	2955.5	1229.7	155.7
37.5°	6582.0	6519.5	6140.1	5811.4	5570.6	5236.4	5209.3	4513.9	3388.3	1537.5	182.9
40°	7018.4	6984.0	6521.3	6089.4	5893.8	5595.0	5560.6	4926.8	3835.6	1895.2	216.4
42.5°	7485.7	7440.4	6991.3	6506.8	6146.4	5826.8	5804.2	5267.2	4234.1	2288.2	266.2
45°	8013.6	7929.3	7535.5	7100.8	6553.0	6066.8	6041.4	5570.6	4642.4	2710.1	326.9
47.5°	8577.7	8504.3	8185.6	7880.5	7250.2	6462.5	6408.1	5828.6	5048.1	3197.3	403.8
50°	9151.8	9153.6	8914.5	8767.8	8102.3	7105.4	7028.4	6208.0	5474.6	3718.8	517.9
52.5°	9820.0	9837.2	9833.6	9724.9	9208.8	8156.6	8053.4	6783.9	5969.9	4327.3	675.5
55°	10099.8	10130.6	10330.7	10571.6	10431.2	9489.5	9379.0	7777.2	6626.4	5005.5	909.1
57.5°	9870.7	9905.1	10181.3	10603.3	10925.6	10656.7	10644.0	9070.3	7491.1	5827.7	1291.2
59°	9598.2	9593.6	9877.1	10324.4	10759.0	10933.8	10951.9	9945.0	8244.5	6404.5	1620.8
60°	9417.1	9420.7	9609.0	10068.1	10529.9	10833.2	10903.9	10460.2	8684.5	6819.2	1903.3
62.5°	8718.0	8759.7	8909.1	9335.6	9773.8	10112.5	10232.9	10919.3	9944.1	7799.0	2885.8
65°	7958.3	7961.0	8173.8	8538.7	8958.9	9197.0	9273.1	10204.8	10785.3	8796.8	4174.3
67.5°	6602.8	6658.0	6899.8	7491.1	8046.2	8347.7	8405.6	8882.8	10436.6	9446.9	4819.9
70°	4620.7	4693.1	5038.1	5805.1	6631.8	7127.1	7123.5	7384.2	9185.3	9157.2	4086.5
72.5°	2307.2	2432.1	2713.7	3535.0	4536.5	5314.3	5478.2	5940.0	7378.8	7606.1	3048.8
75°	1019.6	1026.8	1187.1	1600.9	2254.7	3242.5	3389.2	4714.9	5661.1	5286.2	2202.1
77.5°	593.1	598.5	627.5	719.0	913.6	1589.1	1753.9	3092.2	4000.4	3072.3	1436.1
80°	215.5	220.9	220.0	272.6	400.2	625.7	697.2	1498.6	2668.5	1618.1	752.5
82.5°	132.2	132.2	127.7	128.6	145.8	240.0	262.6	638.4	1299.4	796.8	215.5
85°	65.2	68.8	73.3	82.4	97.8	118.6	125.9	182.9	437.4	192.9	51.6
87.5°	38.9	39.8	43.5	52.5	65.2	85.1	90.5	124.1	156.6	129.5	12.7
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: P1065793

CATALOG NUMBER: NVN-SA4A-730-U-T3BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
2.5°	86.0	85.1	80.6	77.0	73.3	69.7	67.0	64.3	64.3	65.2	64.3
5°	86.0	82.4	75.2	68.8	63.4	58.9	54.3	50.7	49.8	49.8	50.7
7.5°	85.1	80.6	70.6	62.5	55.2	48.9	44.4	39.8	38.9	39.8	38.9
10°	84.2	78.8	67.0	57.0	47.1	40.7	34.4	29.9	29.9	29.9	30.8
12.5°	84.2	76.1	63.4	51.6	40.7	33.5	27.2	22.6	21.7	21.7	21.7
15°	83.3	74.2	59.8	45.3	34.4	25.4	19.9	15.4	15.4	15.4	15.4
17.5°	81.5	71.5	55.2	39.8	27.2	19.0	13.6	9.1	9.1	10.9	10.9
20°	79.7	68.8	49.8	32.6	22.6	14.5	9.1	5.4	5.4	8.1	9.1
22.5°	80.6	68.8	46.2	29.0	18.1	10.9	7.2	4.5	3.6	6.3	8.1
25°	81.5	67.0	41.7	25.4	13.6	8.1	5.4	1.8	0.9	1.8	2.7
27.5°	81.5	65.2	36.2	19.9	10.0	6.3	2.7	0.0	0.0	0.0	0.0
30°	80.6	62.5	31.7	16.3	7.2	3.6	0.9	0.0	0.0	0.0	0.0
32.5°	79.7	59.8	29.0	12.7	6.3	1.8	0.0	0.0	0.0	0.0	0.0
35°	80.6	56.1	25.4	10.0	3.6	0.0	0.0	0.0	0.0	0.0	1.8
37.5°	83.3	52.5	21.7	8.1	2.7	0.0	0.0	0.0	0.0	0.0	0.0
40°	86.9	49.8	18.1	6.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	94.2	49.8	16.3	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	103.2	49.8	13.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	115.0	50.7	11.8	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	129.5	52.5	10.9	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	140.4	50.7	10.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	159.4	48.9	9.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	184.7	46.2	9.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59°	210.1	42.6	9.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	239.0	40.7	8.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	394.8	36.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	762.4	34.4	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1232.4	34.4	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1295.8	34.4	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	862.0	28.1	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	461.8	25.4	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	249.0	23.5	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	109.6	17.2	4.5	2.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	43.5	11.8	5.4	4.5	3.6	1.8	0.0	0.0	0.0	0.0	0.0
85°	20.8	9.1	7.2	6.3	4.5	2.7	0.0	0.0	0.0	0.0	0.0
87.5°	10.0	9.1	8.1	7.2	6.3	4.5	0.9	0.0	0.0	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

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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-4

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-730-U-5WQ

Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

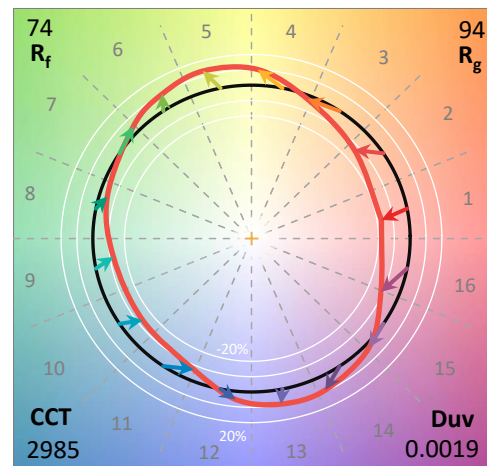
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-4
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 10/15/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: McGraw-Edison
 Catalog Number: **GSS-SB1A-730-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K): 2985
 CIE u' : 0.2504
 CIE v' : 0.5243
 Duv: 0.0019
 CIE x: 0.4408
 CIE y: 0.4101
 CIE z: 0.1491
 Peak Wavelength (nm): 595
 Dominant Wavelength (nm): 582
 Purity: 55.41818
 R_f: 73.8
 R_g: 94.4

CRI (Ra): 70.8
 R1: 66.3
 R2: 80.6
 R3: 94.5
 R4: 68.2
 R5: 66.5
 R6: 74.7
 R7: 76.2
 R8: 39.6
 R9: -43.2
 R10: 57.6
 R11: 64.8
 R12: 53.5
 R13: 68.7
 R14: 97.0
 R15: 56.4



Test Conditions

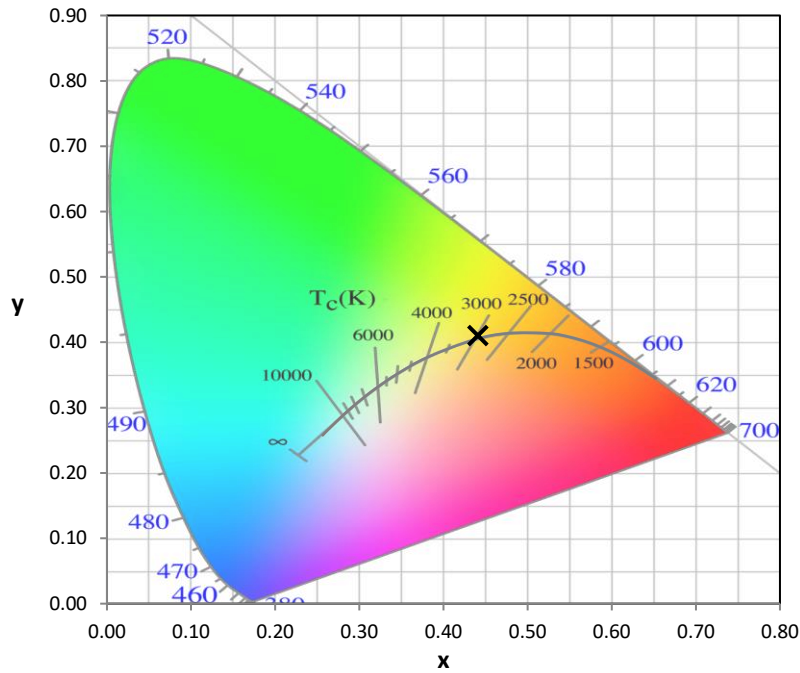
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

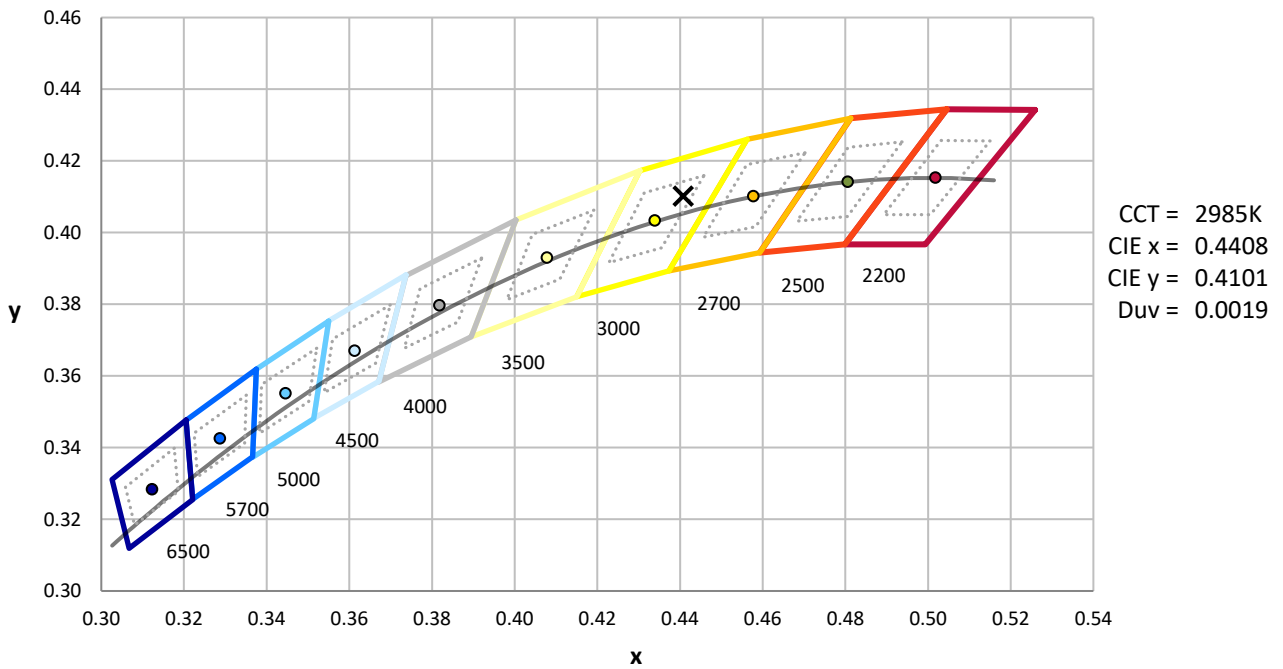
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-4

CIE 1931 Chromaticity Diagram



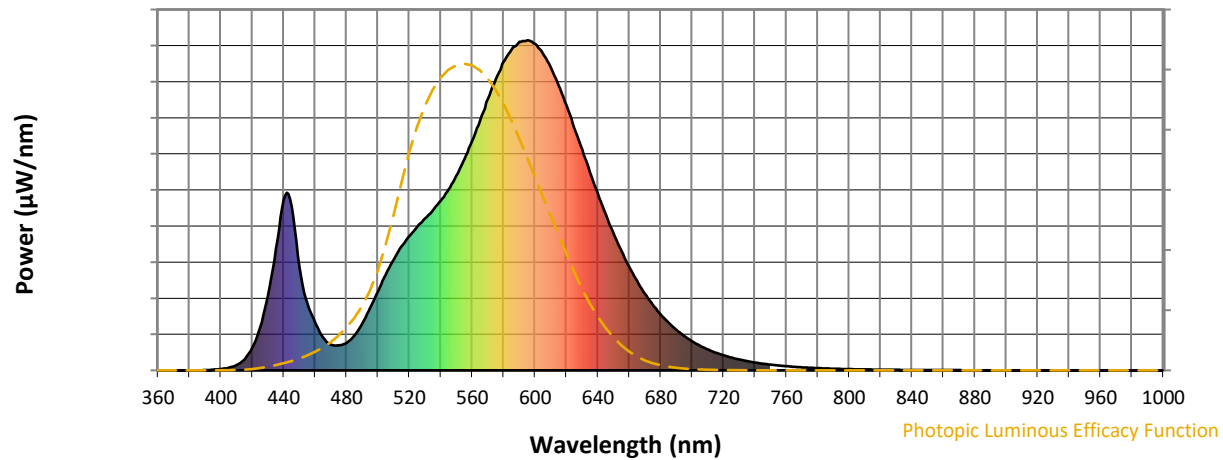
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.19

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.13

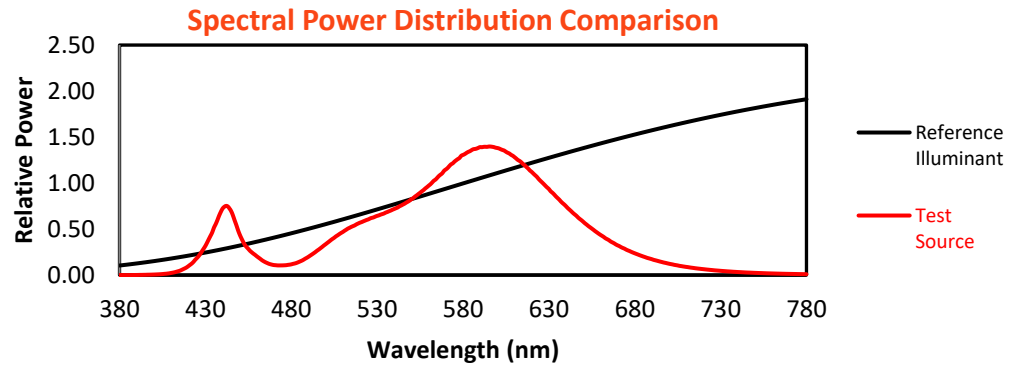
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

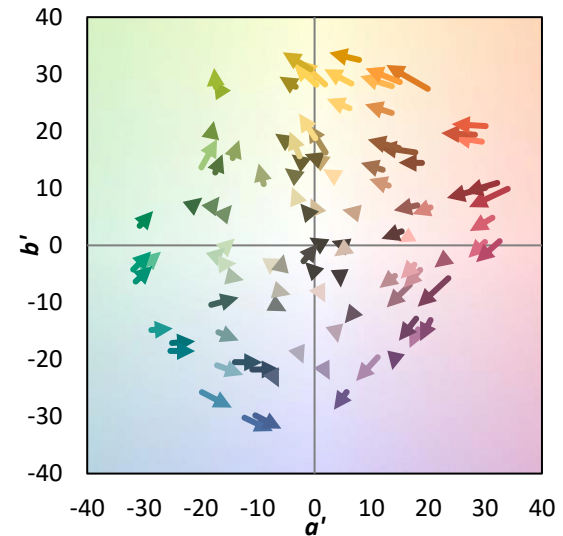
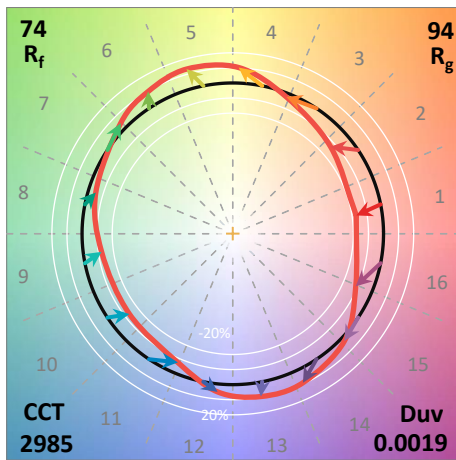
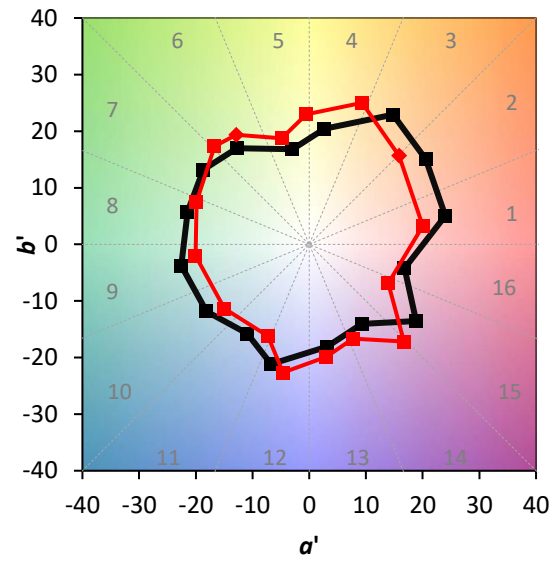
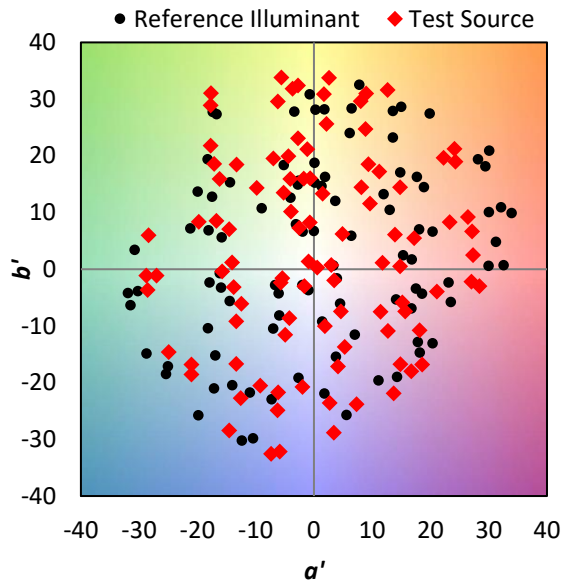
TM-30-18

Summary

$R_f = 73.8$
 $R_g = 94.4$
 $CIE\ R_a = 70.8$
 $R_g = -43.2$

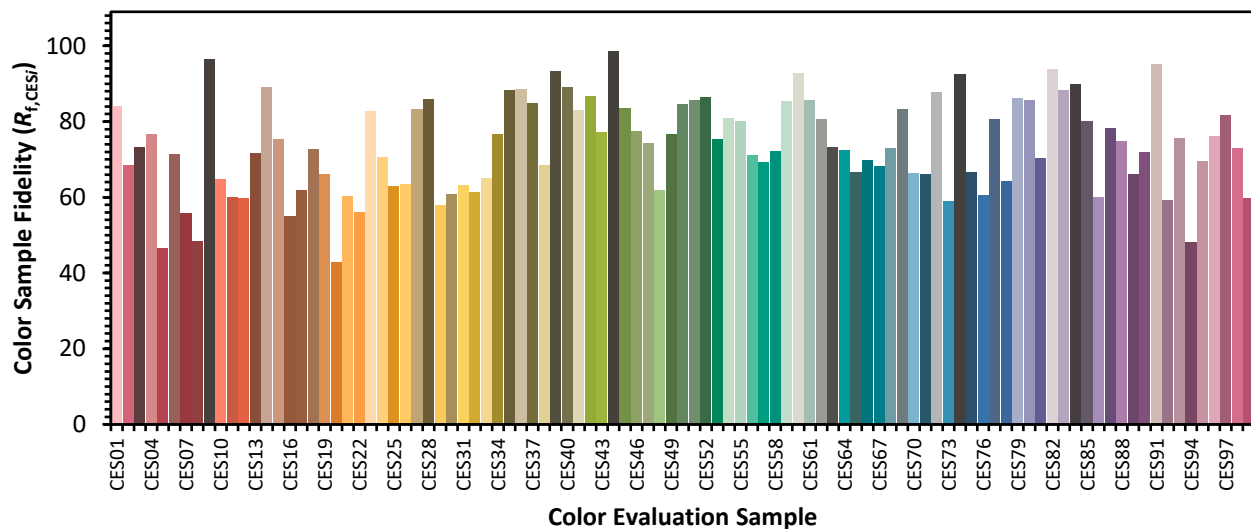


Color Vector Graphics

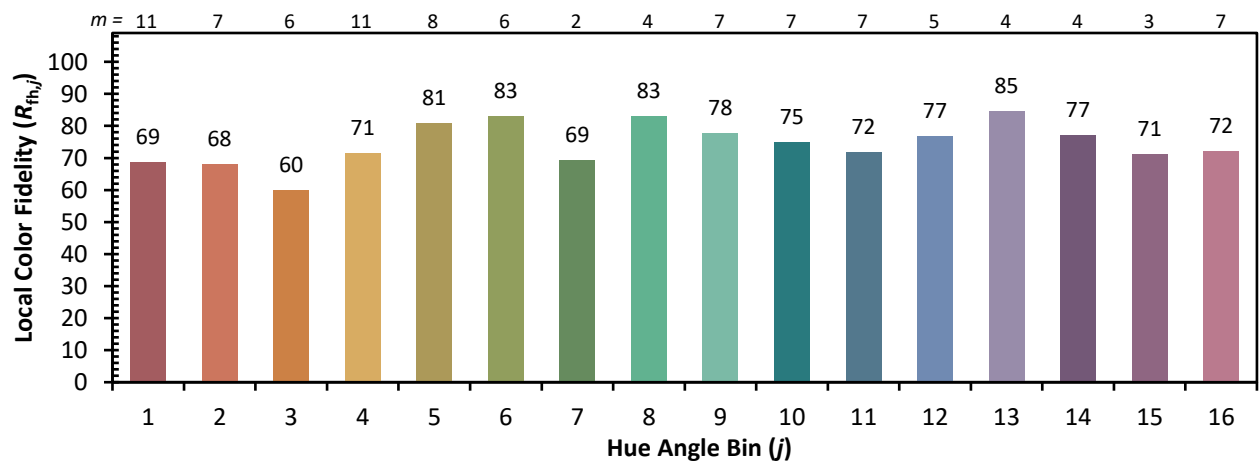
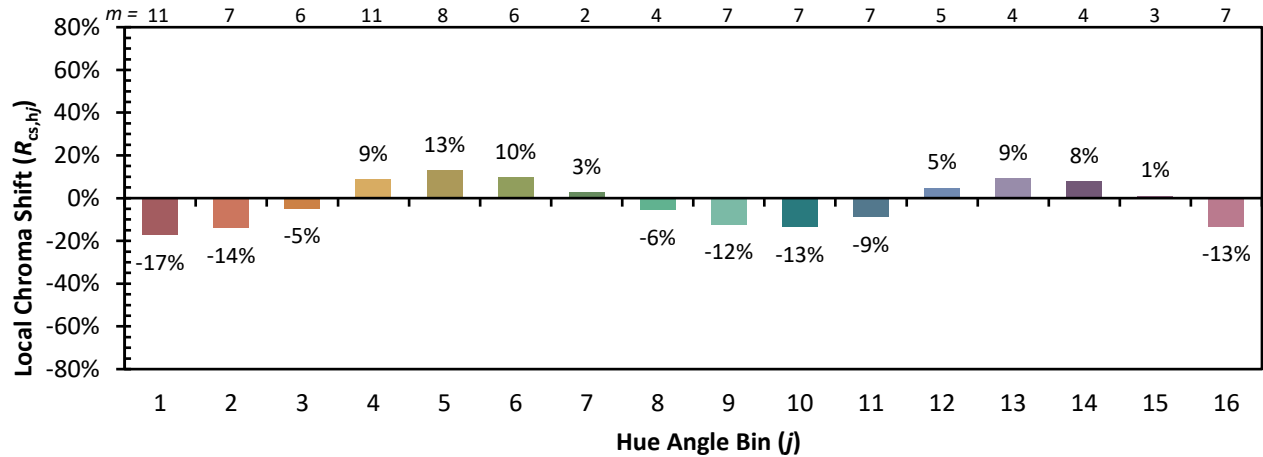


Individual Sample Fidelity Index ($R_{f,i}$)

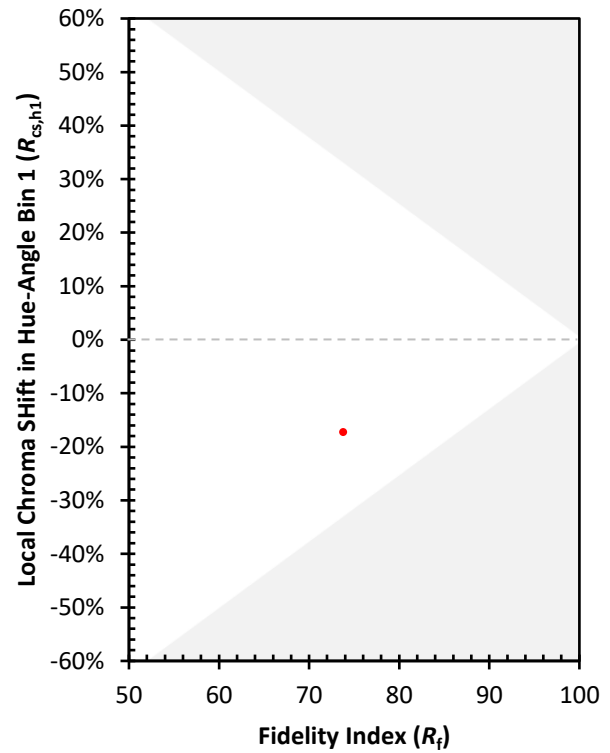
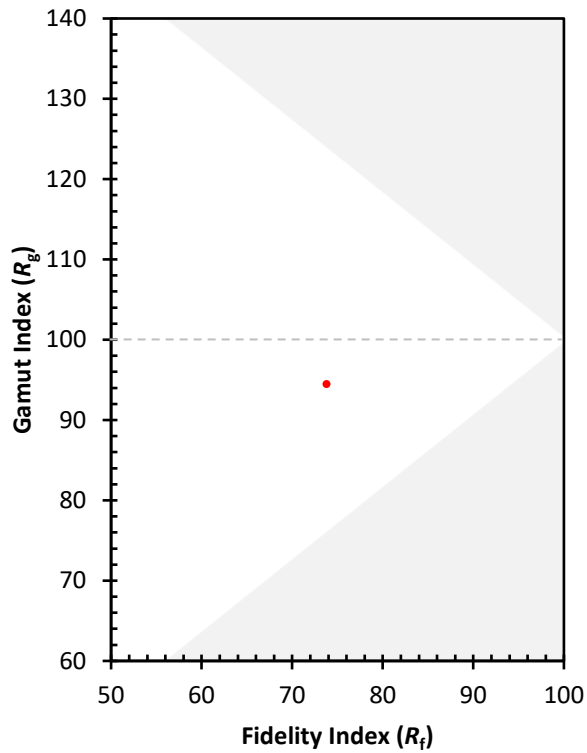
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 94
CES08 = 40	CES33 = 65	CES58 = 72	CES83 = 88
CES09 = 29	CES34 = 77	CES59 = 85	CES84 = 90
CES10 = 76	CES35 = 88	CES60 = 93	CES85 = 80
CES11 = 59	CES36 = 89	CES61 = 86	CES86 = 60
CES12 = 65	CES37 = 85	CES62 = 81	CES87 = 78
CES13 = 43	CES38 = 69	CES63 = 73	CES88 = 75
CES14 = 74	CES39 = 93	CES64 = 72	CES89 = 66
CES15 = 71	CES40 = 89	CES65 = 67	CES90 = 72
CES16 = 47	CES41 = 83	CES66 = 70	CES91 = 95
CES17 = 50	CES42 = 87	CES67 = 68	CES92 = 59
CES18 = 56	CES43 = 77	CES68 = 73	CES93 = 76
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 48
CES20 = 66	CES45 = 83	CES70 = 66	CES95 = 70
CES21 = 87	CES46 = 77	CES71 = 66	CES96 = 76
CES22 = 79	CES47 = 74	CES72 = 88	CES97 = 82
CES23 = 92	CES48 = 62	CES73 = 59	CES98 = 73
CES24 = 91	CES49 = 77	CES74 = 93	CES99 = 60
CES25 = 73	CES50 = 85	CES75 = 67	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)