

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: P1066273

Luminaire Tested: **NVN-SA4A-730-U-T4BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1066273
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-T4BC
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 4xLight Square PACKAGE
70CRI 3000K FIXTURE w/ TYPE IV ANGLED BACKLIGHT CONTROL
Light Source: (56) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12874.9 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - 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

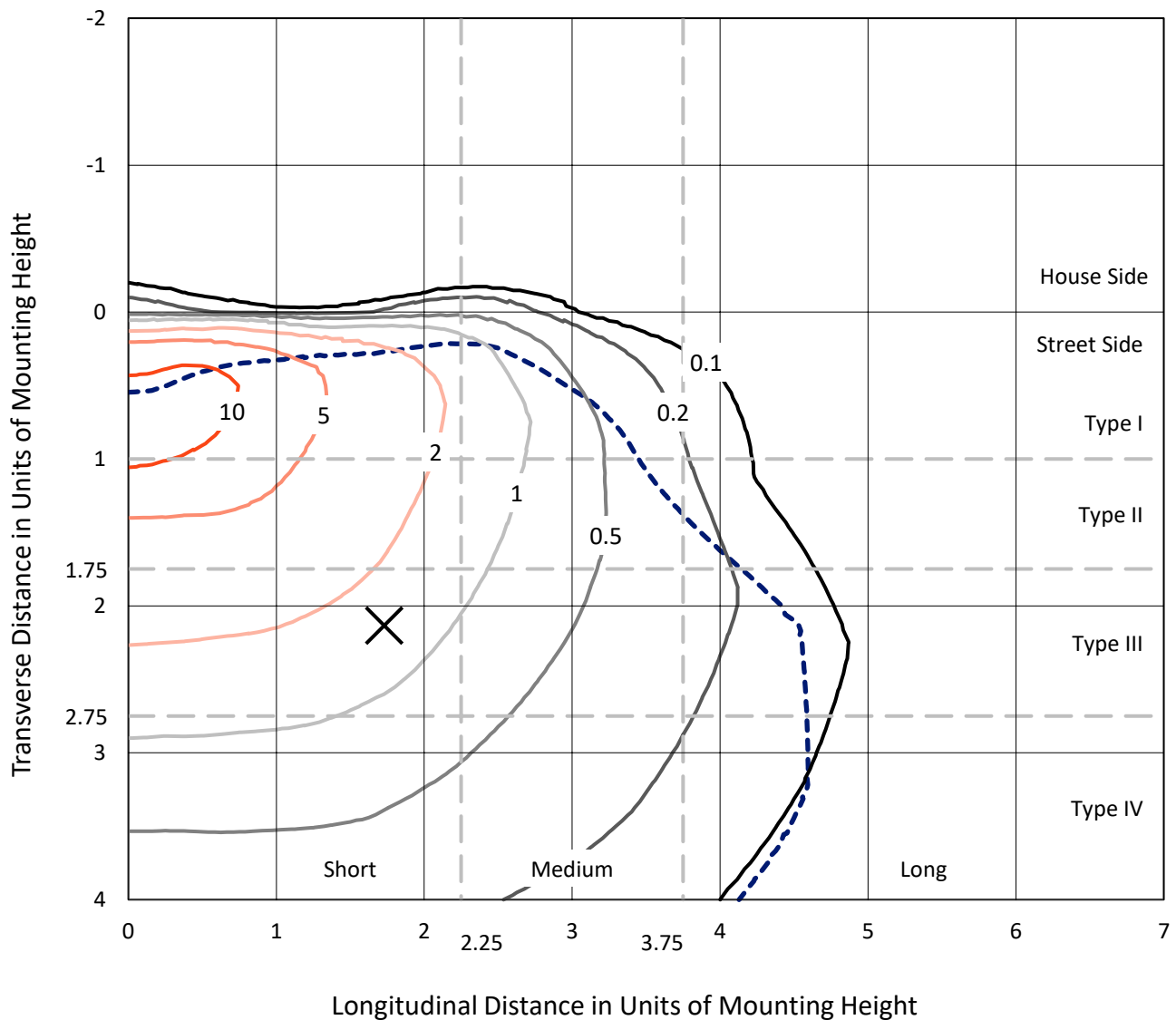


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CATALOG NUMBER: NVN-SA4A-730-U-T4BC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

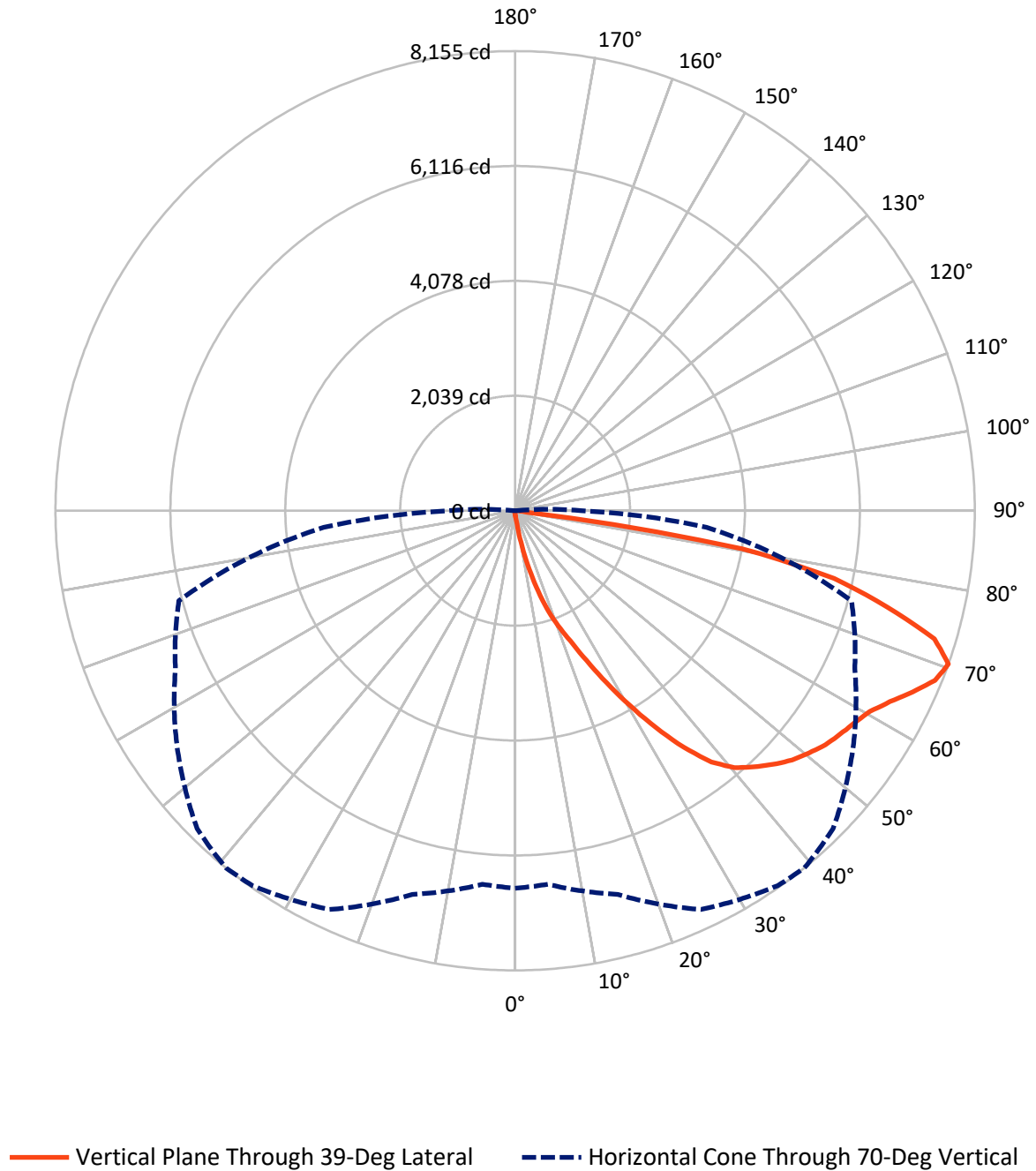


Based on 15 foot mounting height. Maximum calculated value = 14 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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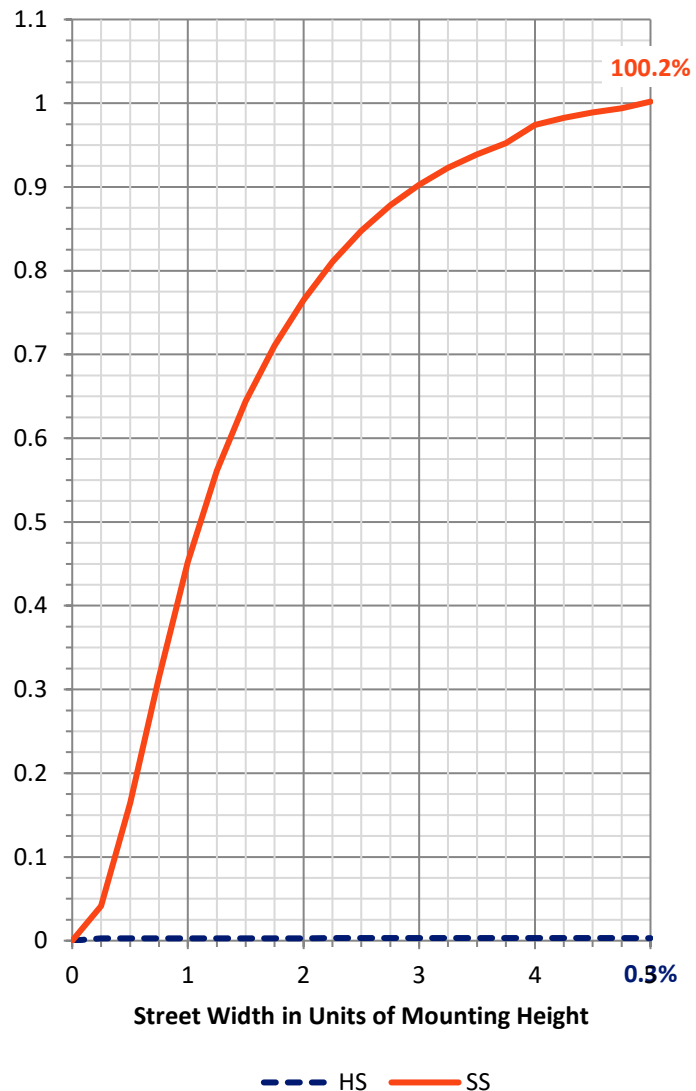
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	39.7	0.0	39.7
	% Fixture	0.3	0.0	0.3
Street Side	Lumens	12835.2	0.0	12835.2
	% Fixture	99.7	0.0	99.7
Total	Lumens	12874.9	0.0	12874.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.5	0.1
10°-20°	158.3	1.2
20°-30°	537.1	4.2
30°-40°	1262.3	9.8
40°-50°	2049.8	15.9
50°-60°	2597.5	20.2
60°-70°	3299.5	25.6
70°-80°	2680.8	20.8
80°-90°	276.0	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°	12874.9	100.0
0°-180°	12874.9	100.0



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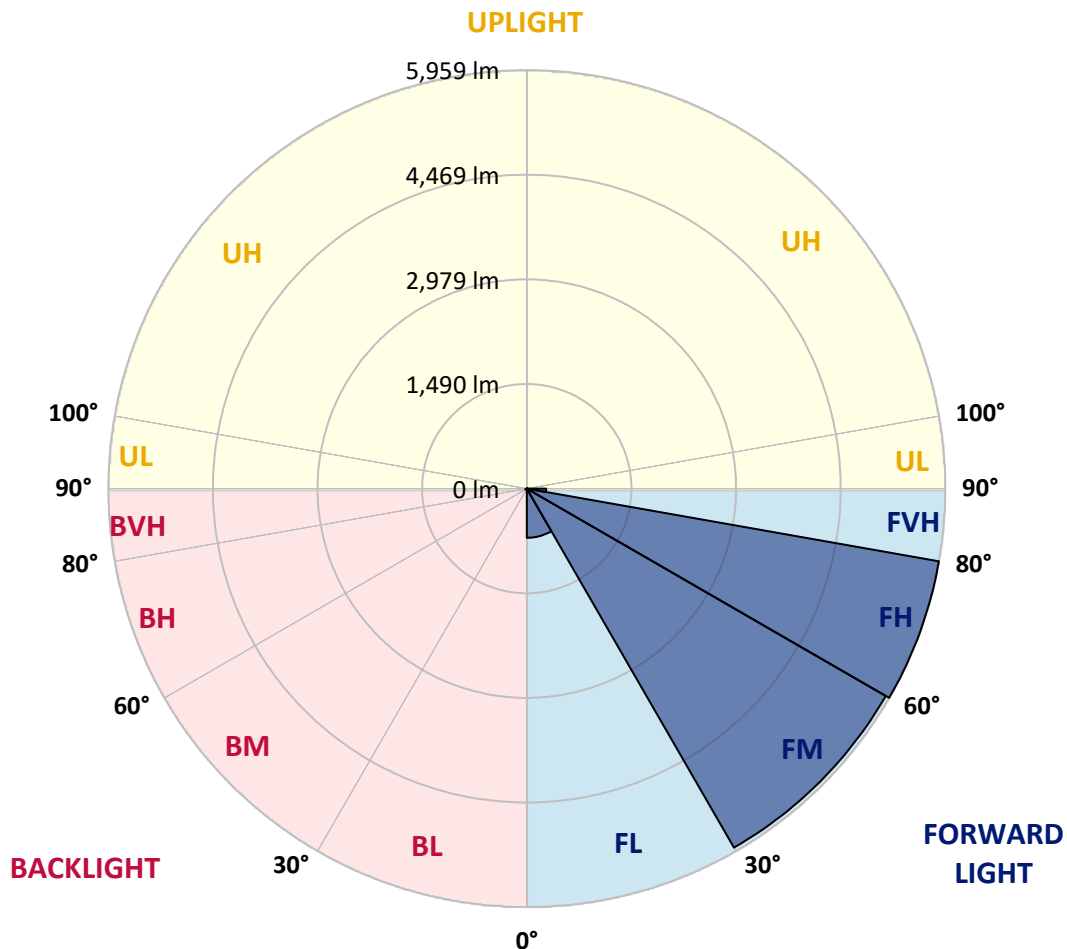
CATALOG NUMBER: NVN-SA4A-730-U-T4BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	700.4	5.4			
FM	(30°-60°)	5902.0	45.8			
FH	(60°-80°)	5958.5	46.3			G3/7500
FVH	(80°-90°)	274.4	2.1			G3/500
BL	(0°-30°)	8.6	0.1	B0/110		
BM	(30°-60°)	7.6	0.1	B0/220		
BH	(60°-80°)	21.8	0.2	B0/110		G0/110
BVH	(80°-90°)	1.7	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
2.5°	90.9	90.9	90.9	87.4	87.4	83.9	83.9	80.4	76.9	76.9	73.4
5°	171.3	174.8	164.3	143.3	129.3	122.3	115.4	97.9	87.4	80.4	73.4
7.5°	468.4	454.4	433.4	363.5	279.6	237.7	202.7	143.3	104.9	83.9	73.4
10°	985.7	947.3	887.9	793.5	629.2	562.8	436.9	262.2	146.8	94.4	73.4
12.5°	1447.1	1454.1	1380.7	1289.8	1090.6	978.7	807.5	492.9	230.7	111.9	73.4
15°	1796.7	1789.7	1761.7	1688.3	1510.1	1401.7	1247.9	828.4	388.0	139.8	76.9
17.5°	2072.8	2044.9	2034.4	2002.9	1887.6	1828.1	1660.4	1219.9	615.2	188.8	80.4
20°	2349.0	2342.0	2331.5	2296.5	2219.6	2177.7	2048.4	1614.9	915.8	269.2	87.4
22.5°	2750.9	2712.5	2719.5	2642.6	2579.7	2506.3	2401.4	2034.4	1261.9	384.5	97.9
25°	3222.8	3219.3	3163.4	3128.5	3023.6	2943.2	2803.4	2439.9	1646.4	555.8	108.4
27.5°	3778.6	3740.2	3715.7	3656.3	3547.9	3457.0	3264.8	2841.8	2062.3	748.0	122.3
30°	4358.9	4358.9	4313.4	4222.5	4117.7	4005.8	3810.1	3264.8	2474.8	992.7	139.8
32.5°	5037.0	5051.0	4939.1	4802.8	4666.5	4589.6	4334.4	3743.7	2869.8	1272.4	160.8
35°	5694.1	5676.7	5491.4	5341.1	5239.7	5155.8	4939.1	4268.0	3317.2	1597.4	188.8
37.5°	6323.3	6277.9	5970.3	5757.1	5711.6	5655.7	5439.0	4792.3	3761.1	1957.5	223.7
40°	6774.3	6704.3	6386.3	6092.6	6026.2	5994.8	5827.0	5267.7	4229.5	2359.5	269.2
42.5°	6970.0	6889.6	6669.4	6431.7	6284.9	6211.5	6064.7	5655.7	4697.9	2806.9	335.6
45°	7008.5	6945.5	6788.2	6732.3	6533.1	6421.2	6222.0	5931.8	5134.9	3250.8	426.4
47.5°	6868.6	6840.7	6746.3	6865.1	6763.8	6610.0	6368.8	6138.1	5522.9	3789.1	552.3
50°	6526.1	6505.1	6550.5	6861.6	6931.6	6756.8	6529.6	6298.9	5858.4	4344.9	730.6
52.5°	6064.7	6061.2	6274.4	6770.8	7005.0	6896.6	6686.9	6459.7	6124.1	4883.2	982.2
55°	5561.3	5620.7	5994.8	6686.9	7046.9	6998.0	6840.7	6603.0	6361.8	5383.1	1387.7
57.5°	5519.4	5494.9	5854.9	6651.9	7071.4	7099.3	6994.5	6753.3	6564.5	5792.0	1929.5
60°	5938.8	5882.9	6019.2	6725.3	7179.7	7228.7	7148.3	6868.6	6767.3	6113.6	2642.6
62.5°	6424.7	6372.3	6442.2	7008.5	7393.0	7462.9	7361.5	6987.5	6931.6	6337.3	3408.1
65°	6812.7	6770.8	6903.6	7431.4	7690.1	7749.5	7679.6	7207.7	7005.0	6519.1	4030.3
67.5°	6875.6	6823.2	7099.3	7714.5	7990.7	8032.6	7976.7	7420.9	6980.5	6533.1	4173.6
70°	6697.4	6651.9	7046.9	7805.4	8120.0	8155.0	7976.7	7319.6	6648.4	6176.5	3411.6
72.5°	6148.6	6183.5	6693.9	7585.2	7941.7	7781.0	7403.4	6809.2	6218.5	5236.2	2394.4
75°	5295.7	5334.1	6012.2	6980.5	7008.5	6812.7	6610.0	6263.9	5564.8	3450.0	1660.4
77.5°	3764.6	3628.3	4642.0	5764.1	5662.7	5788.5	5806.0	5211.8	4659.5	1796.7	1111.6
80°	370.5	314.6	583.7	1653.4	3652.8	4082.7	4250.5	4016.3	3436.1	804.0	583.7
82.5°	80.4	80.4	87.4	94.4	146.8	220.2	1010.2	2474.8	2219.6	409.0	188.8
85°	45.4	45.4	55.9	66.4	87.4	97.9	115.4	153.8	597.7	146.8	35.0
87.5°	35.0	38.5	45.4	55.9	73.4	80.4	97.9	122.3	150.3	136.3	10.5
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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CATALOG NUMBER: NVN-SA4A-730-U-T4BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
2.5°	73.4	69.9	66.4	62.9	59.4	59.4	55.9	55.9	55.9	55.9	55.9
5°	69.9	66.4	62.9	55.9	52.4	48.9	45.4	45.4	45.4	45.4	45.4
7.5°	69.9	66.4	59.4	52.4	45.4	41.9	38.5	35.0	35.0	38.5	38.5
10°	69.9	62.9	52.4	45.4	38.5	35.0	31.5	28.0	28.0	28.0	28.0
12.5°	66.4	59.4	48.9	41.9	35.0	28.0	21.0	17.5	17.5	17.5	17.5
15°	62.9	55.9	45.4	35.0	24.5	17.5	14.0	10.5	10.5	10.5	10.5
17.5°	62.9	52.4	41.9	31.5	17.5	10.5	7.0	3.5	3.5	3.5	7.0
20°	62.9	52.4	38.5	24.5	10.5	7.0	7.0	3.5	0.0	3.5	3.5
22.5°	62.9	48.9	31.5	17.5	10.5	7.0	3.5	0.0	0.0	0.0	0.0
25°	66.4	48.9	28.0	14.0	7.0	3.5	0.0	0.0	0.0	0.0	0.0
27.5°	66.4	45.4	24.5	10.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
30°	69.9	45.4	21.0	7.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	69.9	41.9	14.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	69.9	38.5	10.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	69.9	35.0	10.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	73.4	31.5	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	76.9	28.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	80.4	24.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	90.9	24.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	104.9	24.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	125.8	24.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	164.3	21.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	237.7	21.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	398.5	21.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	699.1	21.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	1181.5	21.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1541.5	24.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1171.0	21.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	559.3	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	248.2	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	108.4	10.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	41.9	7.0	3.5	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0
82.5°	17.5	7.0	3.5	3.5	3.5	3.5	3.5	0.0	0.0	0.0	0.0
85°	10.5	7.0	7.0	7.0	3.5	3.5	3.5	0.0	0.0	0.0	0.0
87.5°	7.0	7.0	7.0	7.0	7.0	3.5	3.5	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

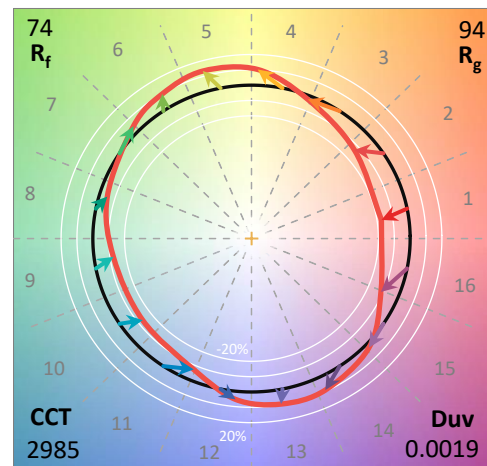
Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

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	CRI (Ra):	70.8		
CIE u':	0.2504	R1:	66.3	R9:	-43.2
CIE v':	0.5243	R2:	80.6	R10:	57.6
Duv:	0.0019	R3:	94.5	R11:	64.8
CIE x:	0.4408	R4:	68.2	R12:	53.5
CIE y:	0.4101	R5:	66.5	R13:	68.7
CIE z:	0.1491	R6:	74.7	R14:	97.0
Peak Wavelength (nm):	595	R7:	76.2	R15:	56.4
Dominant Wavelength (nm):	582	R8:	39.6		
Purity:	55.41818				
Rf:	73.8				
Rg:	94.4				



Test Conditions

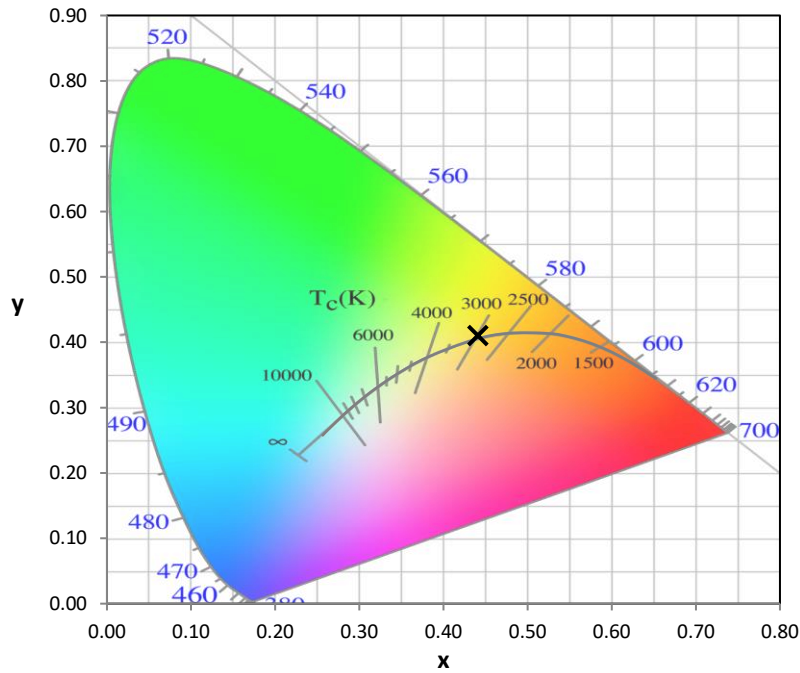
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

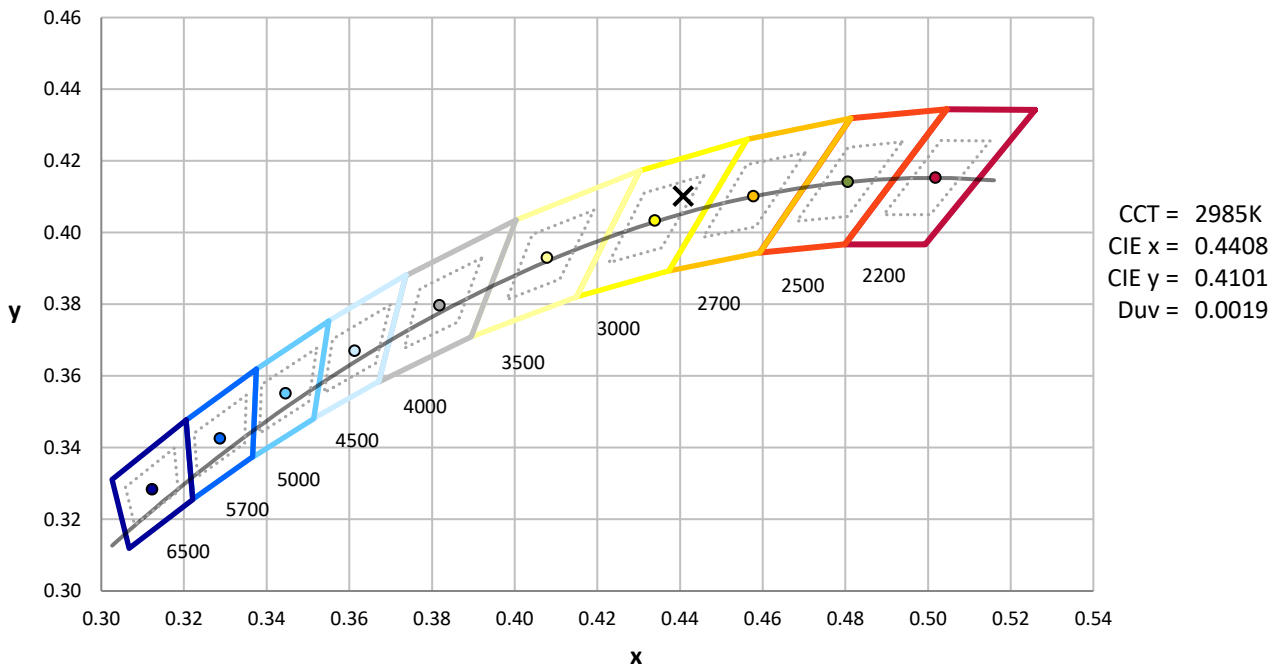
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



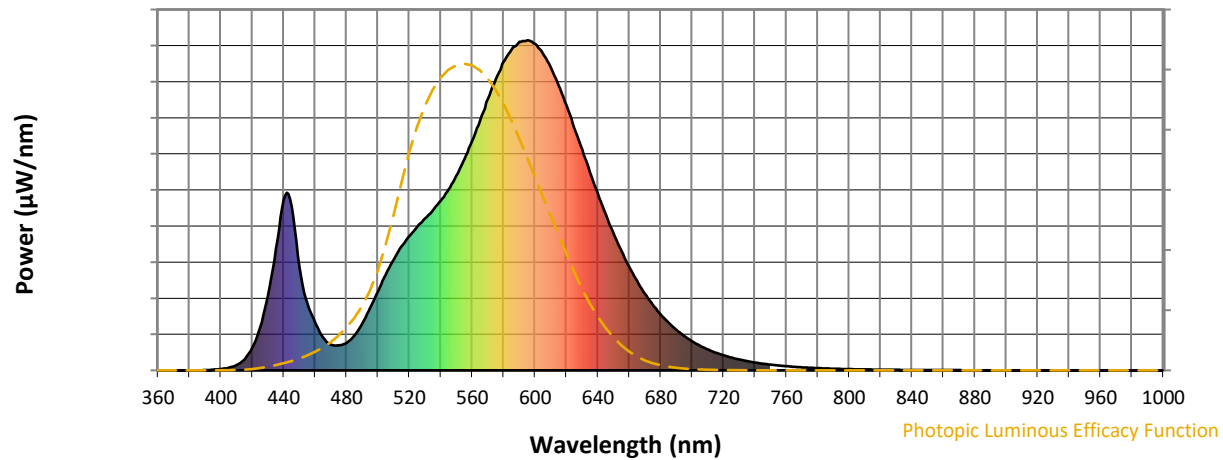
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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			

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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			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.13

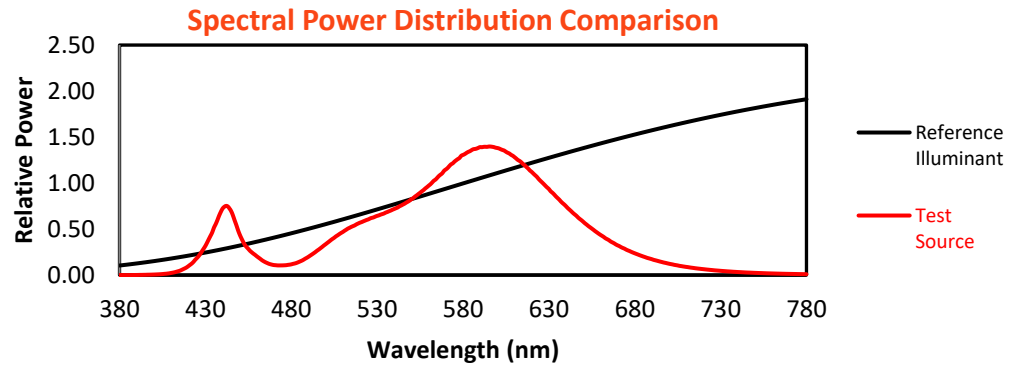
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803	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			

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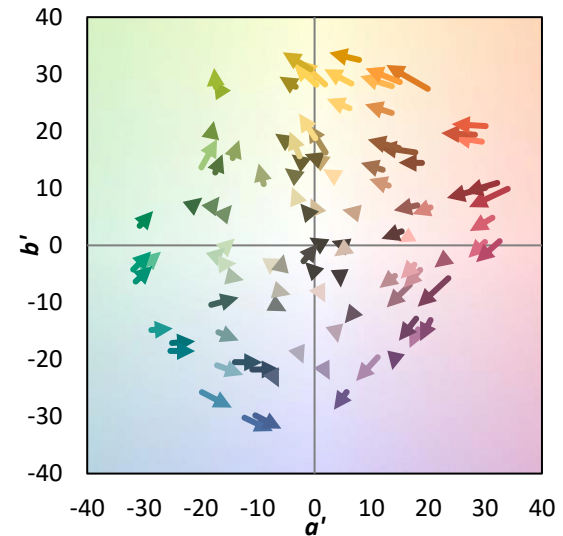
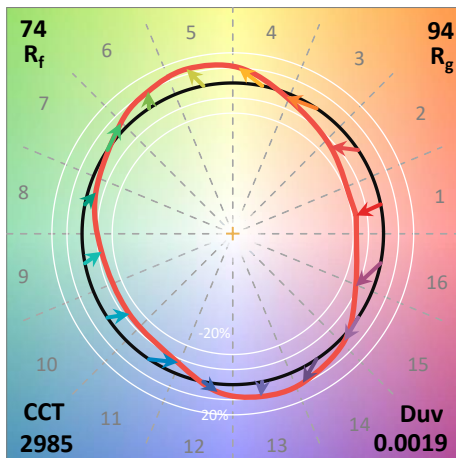
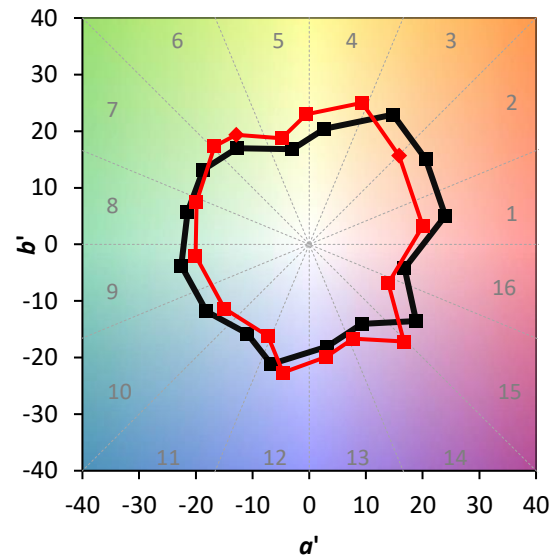
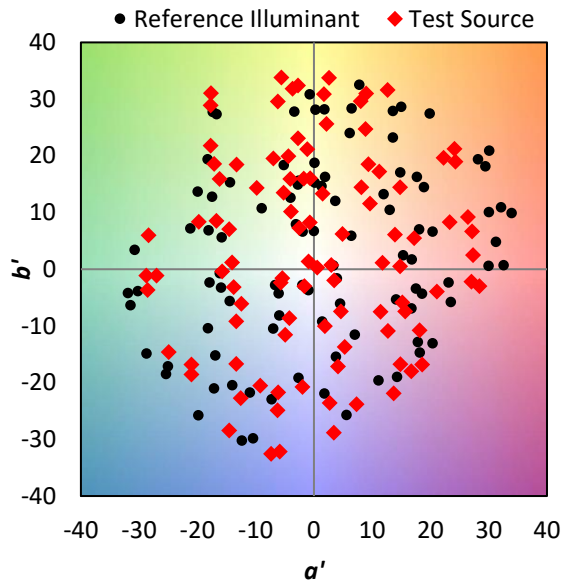
TM-30-18

Summary

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

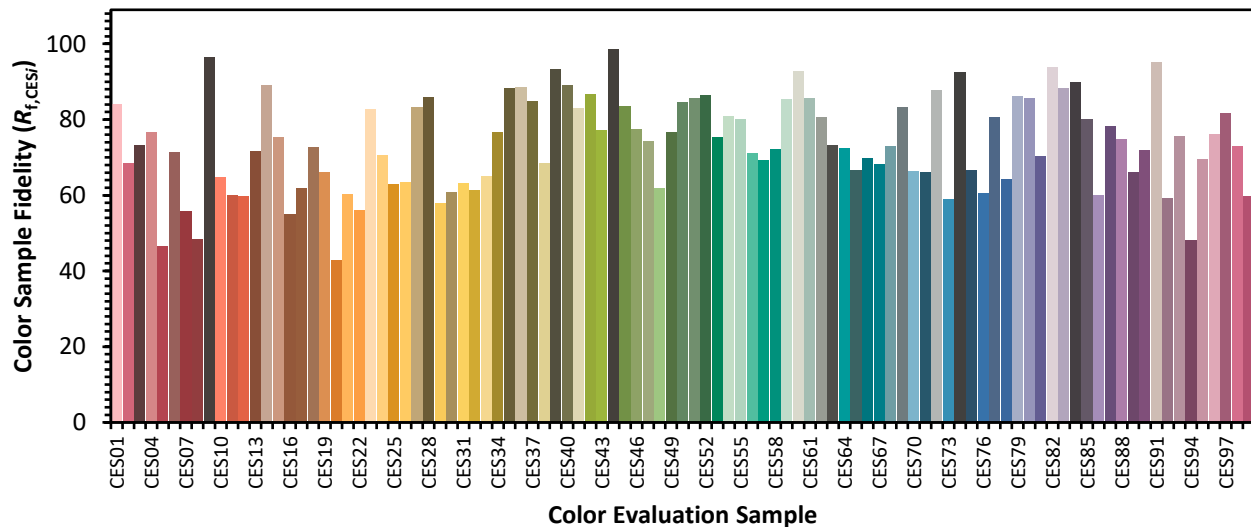


Color Vector Graphics

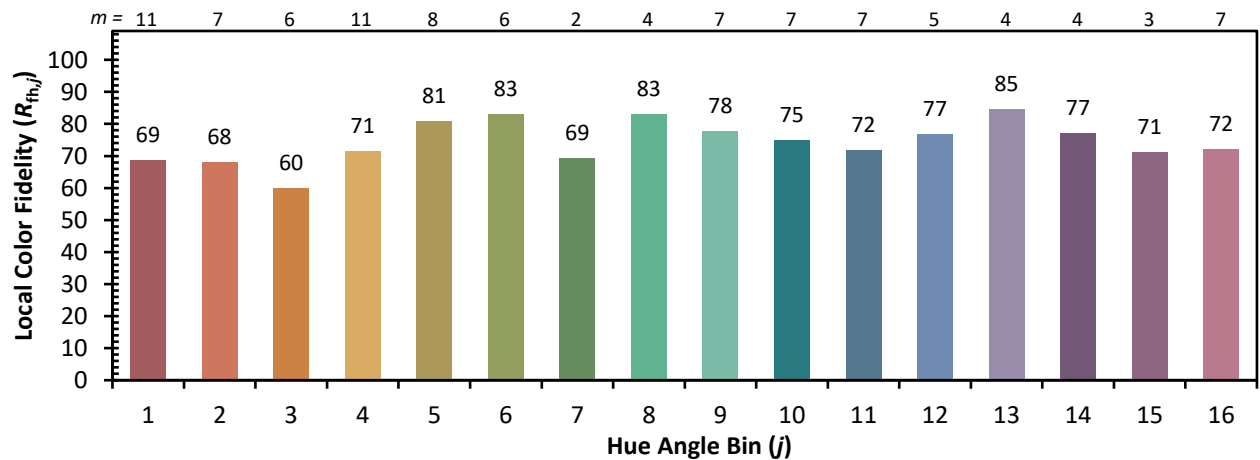
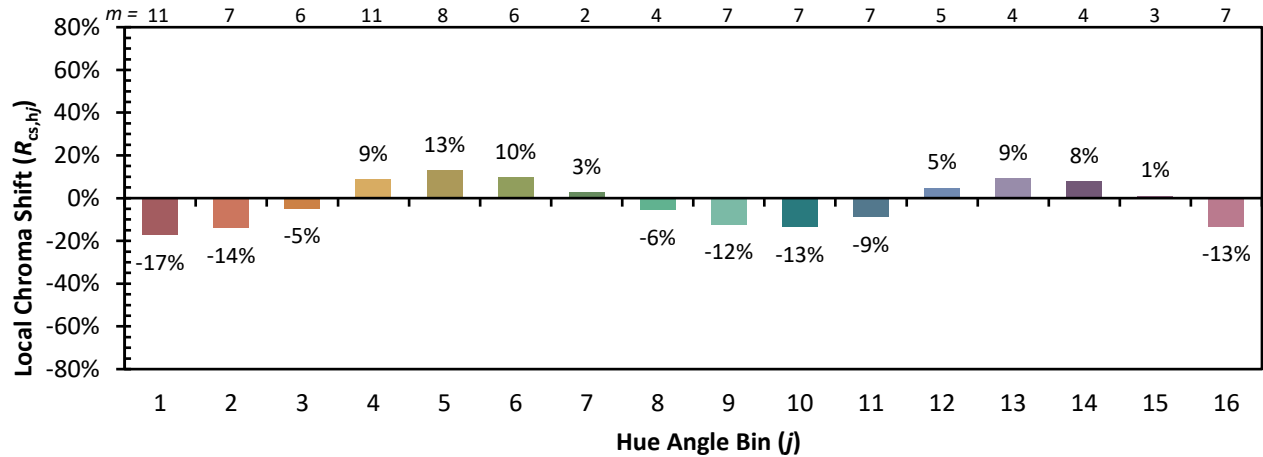


Individual Sample Fidelity Index ($R_{f,i}$)

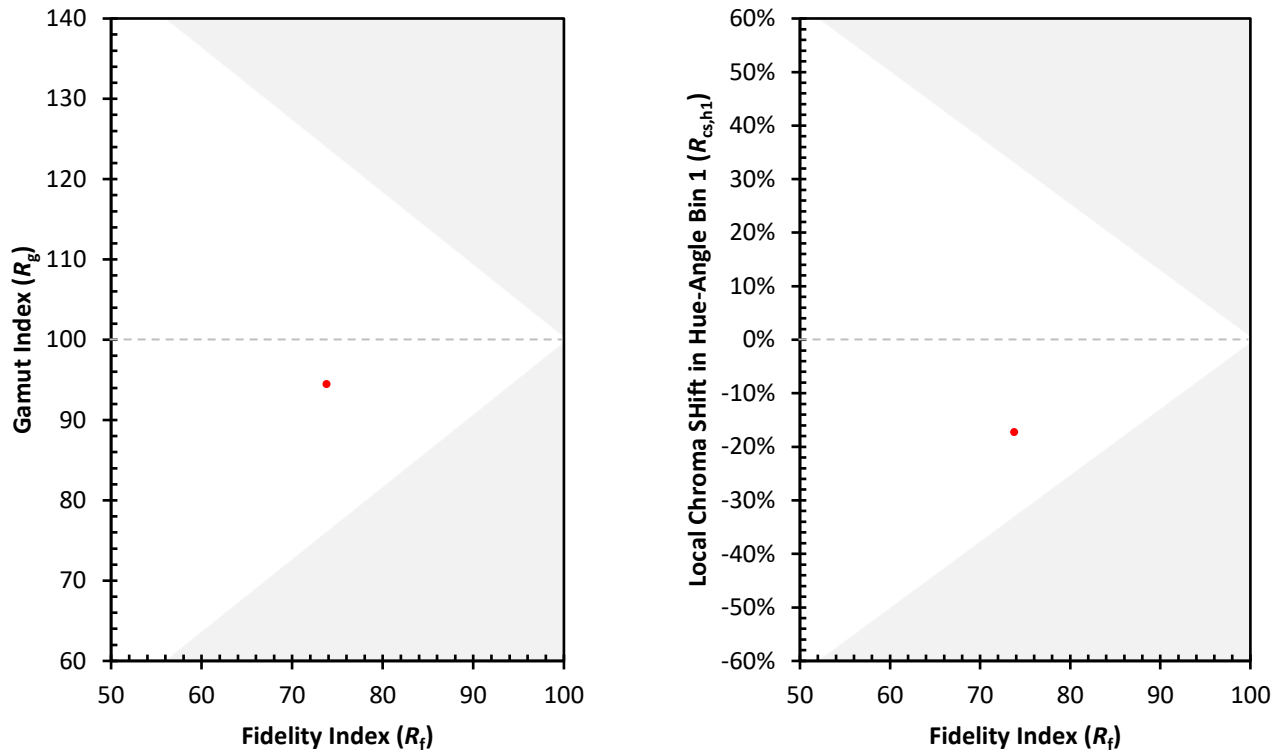
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 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)