

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: LUMARK

Report Number: P1067472

Luminaire Tested: **NAV-SA3D-730-U-T4BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067472
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA3D-730-U-T4BC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 3xLight Square PACKAGE
70CRI 3000K FIXTURE w/ TYPE IV ANGLED BACKLIGHT CONTROL
Light Source: (42) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16614 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 160.9
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

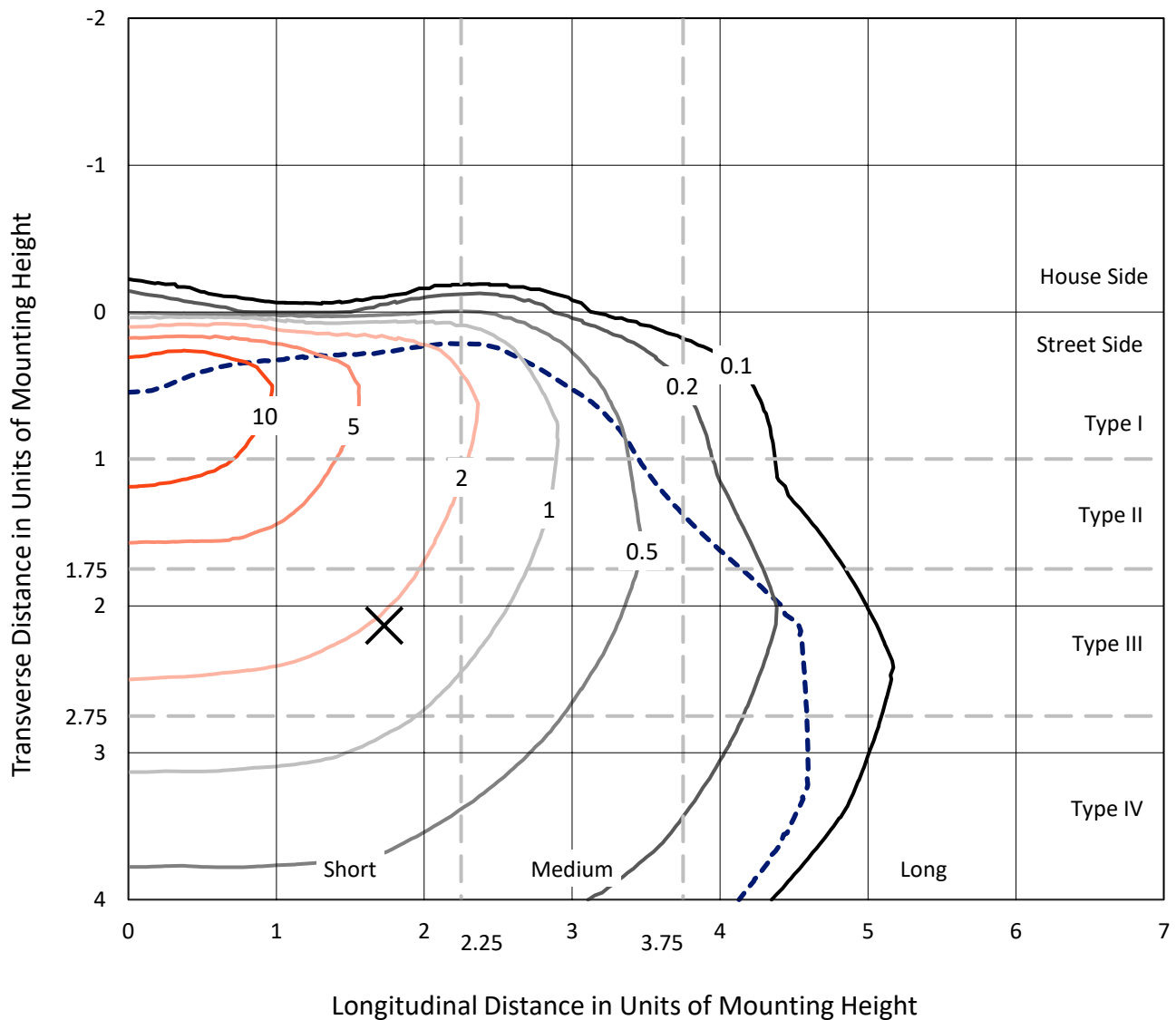


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

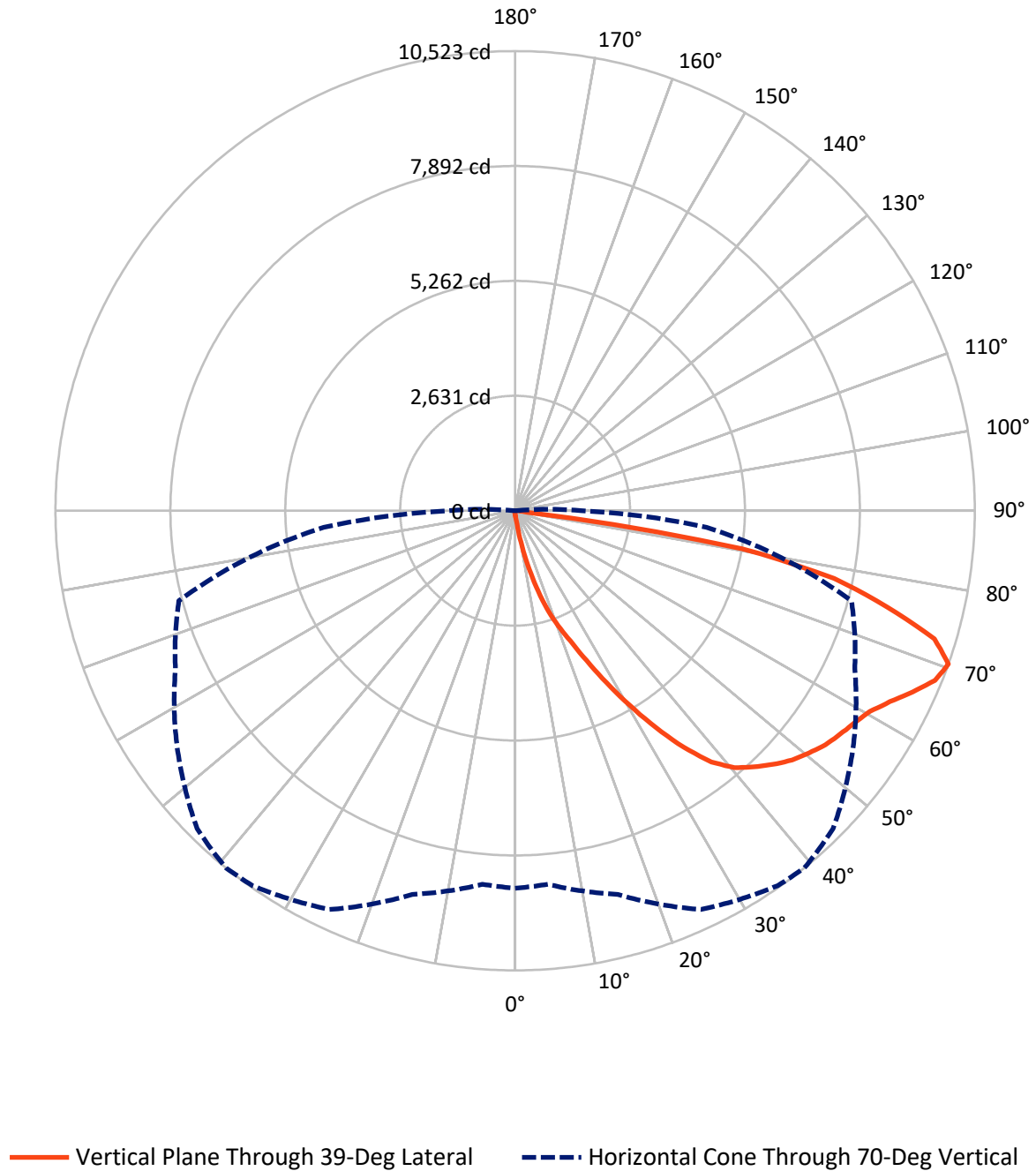


Based on 15 foot mounting height. Maximum calculated value = 18.1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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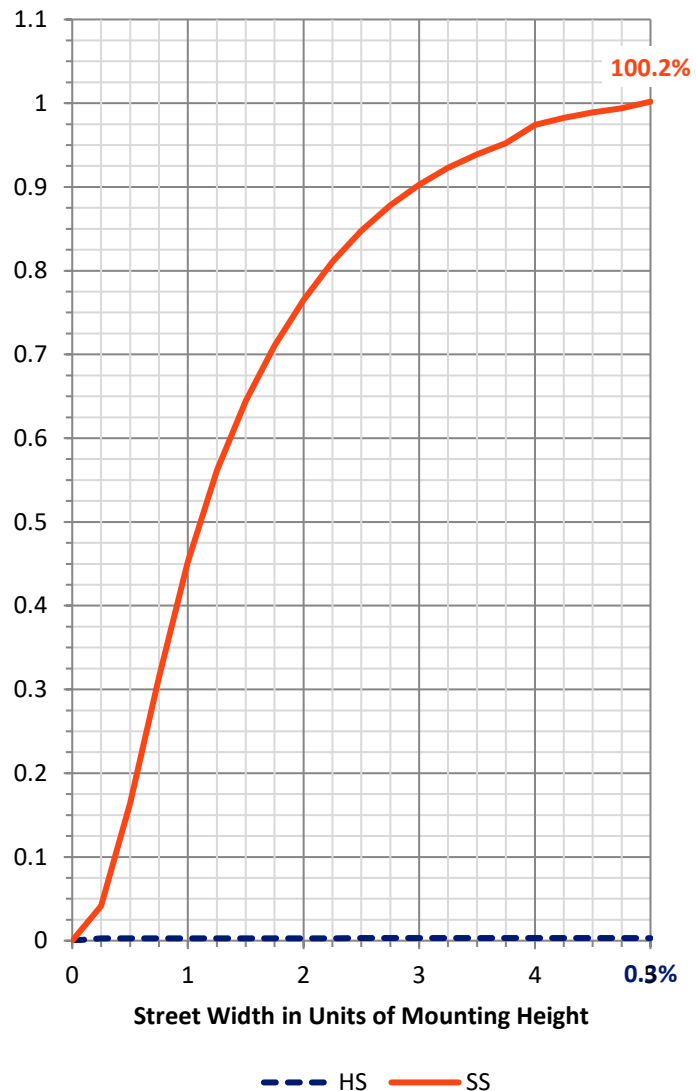
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	51.2	0.0	51.2
	% Fixture	0.3	0.0	0.3
Street Side	Lumens	16562.8	0.0	16562.8
	% Fixture	99.7	0.0	99.7
Total	Lumens	16614.0	0.0	16614.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.5	0.1
10°-20°	204.3	1.2
20°-30°	693.1	4.2
30°-40°	1628.9	9.8
40°-50°	2645.1	15.9
50°-60°	3351.8	20.2
60°-70°	4257.7	25.6
70°-80°	3459.4	20.8
80°-90°	356.2	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°	16614.0	100.0
0°-180°	16614.0	100.0

Coefficient of Utilization



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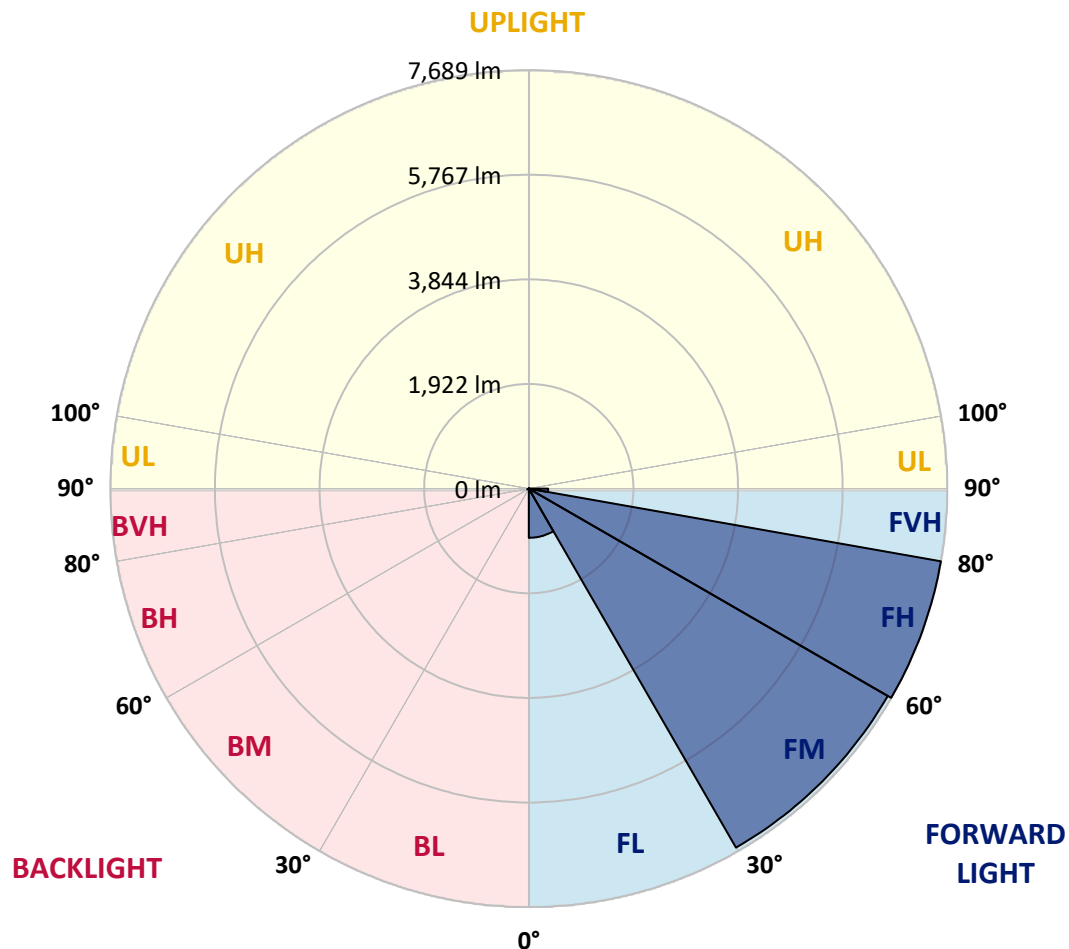
CATALOG NUMBER: NAV-SA3D-730-U-T4BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	903.8	5.4			
FM	(30°-60°)	7616.0	45.8			
FH	(60°-80°)	7689.0	46.3			G4/12000
FVH	(80°-90°)	354.1	2.1			G3/500
BL	(0°-30°)	11.1	0.1	B0/110		
BM	(30°-60°)	9.8	0.1	B0/220		
BH	(60°-80°)	28.1	0.2	B0/110		G0/110
BVH	(80°-90°)	2.1	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-G4

Type IV Short



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CATALOG NUMBER: NAV-SA3D-730-U-T4BC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
2.5°	117.3	117.3	117.3	112.8	112.8	108.3	108.3	103.7	99.2	99.2	94.7
5°	221.0	225.5	212.0	184.9	166.9	157.9	148.9	126.3	112.8	103.7	94.7
7.5°	604.4	586.4	559.3	469.1	360.9	306.7	261.6	184.9	135.3	108.3	94.7
10°	1272.0	1222.4	1145.7	1023.9	811.9	726.2	563.8	338.3	189.4	121.8	94.7
12.5°	1867.4	1876.4	1781.7	1664.4	1407.3	1263.0	1042.0	636.0	297.7	144.3	94.7
15°	2318.5	2309.5	2273.4	2178.6	1948.6	1808.8	1610.3	1069.0	500.7	180.4	99.2
17.5°	2674.8	2638.7	2625.2	2584.6	2435.8	2359.1	2142.6	1574.2	793.9	243.6	103.7
20°	3031.2	3022.1	3008.6	2963.5	2864.3	2810.1	2643.2	2083.9	1181.8	347.3	112.8
22.5°	3549.9	3500.3	3509.3	3410.1	3328.9	3234.1	3098.8	2625.2	1628.3	496.2	126.3
25°	4158.8	4154.3	4082.1	4037.0	3901.7	3798.0	3617.5	3148.4	2124.5	717.2	139.8
27.5°	4876.0	4826.4	4794.8	4718.1	4578.3	4461.0	4212.9	3667.2	2661.3	965.3	157.9
30°	5624.8	5624.8	5566.1	5448.9	5313.5	5169.2	4916.6	4212.9	3193.5	1281.0	180.4
32.5°	6499.8	6517.9	6373.5	6197.6	6021.7	5922.5	5593.2	4830.9	3703.2	1641.9	207.5
35°	7347.8	7325.3	7086.2	6892.3	6761.5	6653.2	6373.5	5507.5	4280.6	2061.4	243.6
37.5°	8159.8	8101.1	7704.2	7429.0	7370.4	7298.2	7018.6	6184.1	4853.5	2526.0	288.7
40°	8741.6	8651.4	8241.0	7862.1	7776.4	7735.8	7519.3	6797.5	5457.9	3044.7	347.3
42.5°	8994.2	8890.5	8606.3	8299.6	8110.1	8015.4	7826.0	7298.2	6062.3	3622.1	433.0
45°	9043.9	8962.7	8759.7	8687.5	8430.4	8286.1	8029.0	7654.6	6626.1	4194.9	550.3
47.5°	8863.4	8827.3	8705.6	8858.9	8728.1	8529.6	8218.4	7920.7	7126.8	4889.5	712.7
50°	8421.4	8394.3	8453.0	8854.4	8944.6	8719.1	8425.9	8128.2	7559.8	5606.7	942.7
52.5°	7826.0	7821.5	8096.6	8737.1	9039.3	8899.5	8628.9	8335.7	7902.7	6301.4	1267.5
55°	7176.4	7253.1	7735.8	8628.9	9093.5	9030.3	8827.3	8520.6	8209.4	6946.4	1790.7
57.5°	7122.3	7090.7	7555.3	8583.8	9125.0	9161.1	9025.8	8714.6	8471.0	7474.1	2489.9
60°	7663.6	7591.4	7767.3	8678.5	9264.9	9328.0	9224.3	8863.4	8732.6	7889.1	3410.1
62.5°	8290.6	8222.9	8313.1	9043.9	9540.0	9630.2	9499.4	9016.8	8944.6	8177.8	4397.9
65°	8791.3	8737.1	8908.5	9589.6	9923.4	10000.1	9909.9	9301.0	9039.3	8412.4	5200.8
67.5°	8872.4	8804.8	9161.1	9955.0	10311.3	10365.5	10293.3	9576.1	9007.8	8430.4	5385.7
70°	8642.4	8583.8	9093.5	10072.3	10478.2	10523.3	10293.3	9445.3	8579.3	7970.3	4402.4
72.5°	7934.2	7979.3	8637.9	9788.1	10248.2	10040.7	9553.6	8786.7	8024.4	6757.0	3089.8
75°	6833.6	6883.3	7758.3	9007.8	9043.9	8791.3	8529.6	8083.1	7181.0	4452.0	2142.6
77.5°	4858.0	4682.1	5990.1	7438.1	7307.3	7469.6	7492.2	6725.4	6012.7	2318.5	1434.4
80°	478.1	406.0	753.3	2133.5	4713.6	5268.4	5484.9	5182.7	4434.0	1037.4	753.3
82.5°	103.7	103.7	112.8	121.8	189.4	284.2	1303.6	3193.5	2864.3	527.7	243.6
85°	58.6	58.6	72.2	85.7	112.8	126.3	148.9	198.5	771.3	189.4	45.1
87.5°	45.1	49.6	58.6	72.2	94.7	103.7	126.3	157.9	194.0	175.9	13.5
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: P1067472

CATALOG NUMBER: NAV-SA3D-730-U-T4BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
2.5°	94.7	90.2	85.7	81.2	76.7	76.7	72.2	72.2	72.2	72.2	72.2
5°	90.2	85.7	81.2	72.2	67.7	63.1	58.6	58.6	58.6	58.6	58.6
7.5°	90.2	85.7	76.7	67.7	58.6	54.1	49.6	45.1	45.1	49.6	49.6
10°	90.2	81.2	67.7	58.6	49.6	45.1	40.6	36.1	36.1	36.1	36.1
12.5°	85.7	76.7	63.1	54.1	45.1	36.1	27.1	22.6	22.6	22.6	22.6
15°	81.2	72.2	58.6	45.1	31.6	22.6	18.0	13.5	13.5	13.5	13.5
17.5°	81.2	67.7	54.1	40.6	22.6	13.5	9.0	4.5	4.5	4.5	9.0
20°	81.2	67.7	49.6	31.6	13.5	9.0	9.0	4.5	0.0	4.5	4.5
22.5°	81.2	63.1	40.6	22.6	13.5	9.0	4.5	0.0	0.0	0.0	0.0
25°	85.7	63.1	36.1	18.0	9.0	4.5	0.0	0.0	0.0	0.0	0.0
27.5°	85.7	58.6	31.6	13.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0
30°	90.2	58.6	27.1	9.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	90.2	54.1	18.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	90.2	49.6	13.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	90.2	45.1	13.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	94.7	40.6	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	99.2	36.1	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	103.7	31.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	117.3	31.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	135.3	31.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	162.4	31.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	212.0	27.1	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	306.7	27.1	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	514.2	27.1	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	902.1	27.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	1524.6	27.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1989.2	31.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1511.1	27.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	721.7	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	320.3	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	139.8	13.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	54.1	9.0	4.5	4.5	4.5	4.5	0.0	0.0	0.0	0.0	0.0
82.5°	22.6	9.0	4.5	4.5	4.5	4.5	4.5	0.0	0.0	0.0	0.0
85°	13.5	9.0	9.0	9.0	4.5	4.5	4.5	0.0	0.0	0.0	0.0
87.5°	9.0	9.0	9.0	9.0	9.0	4.5	4.5	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

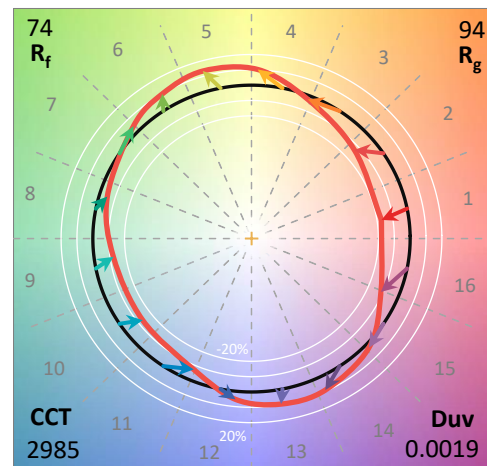
Test Information

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
 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

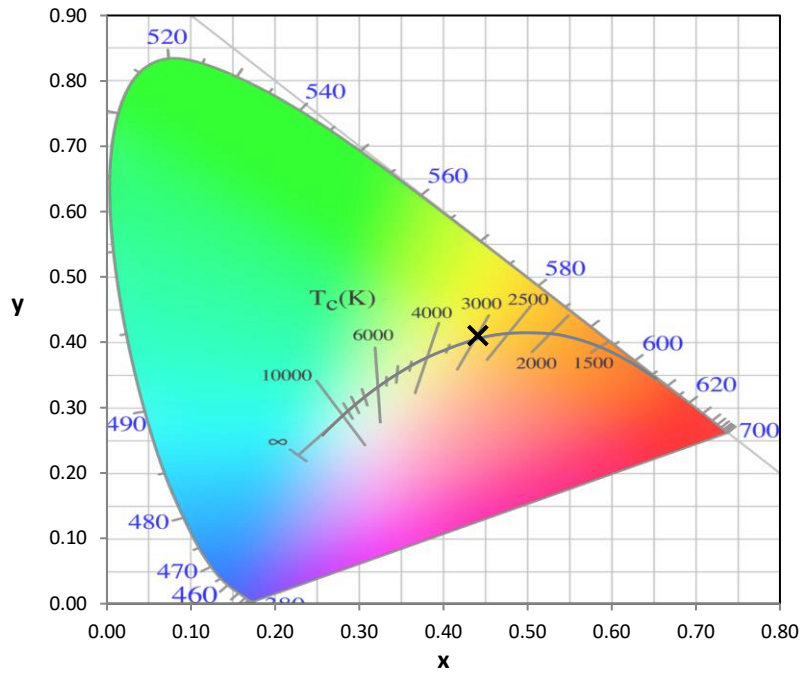
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

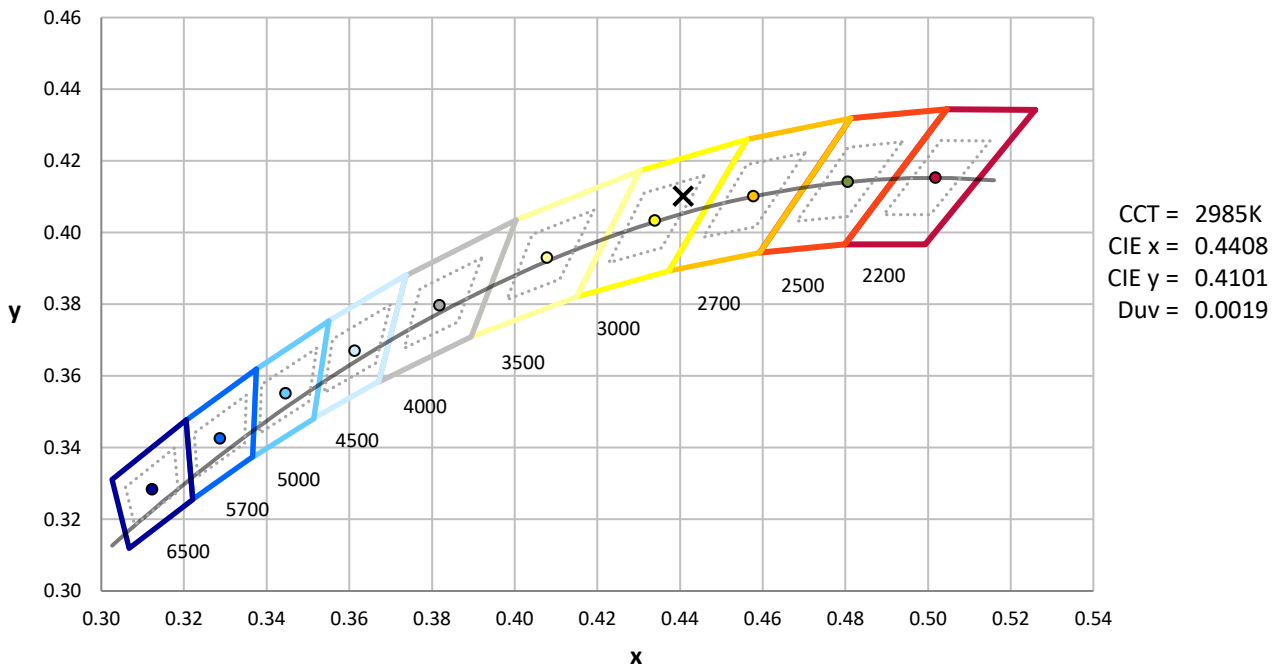
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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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 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



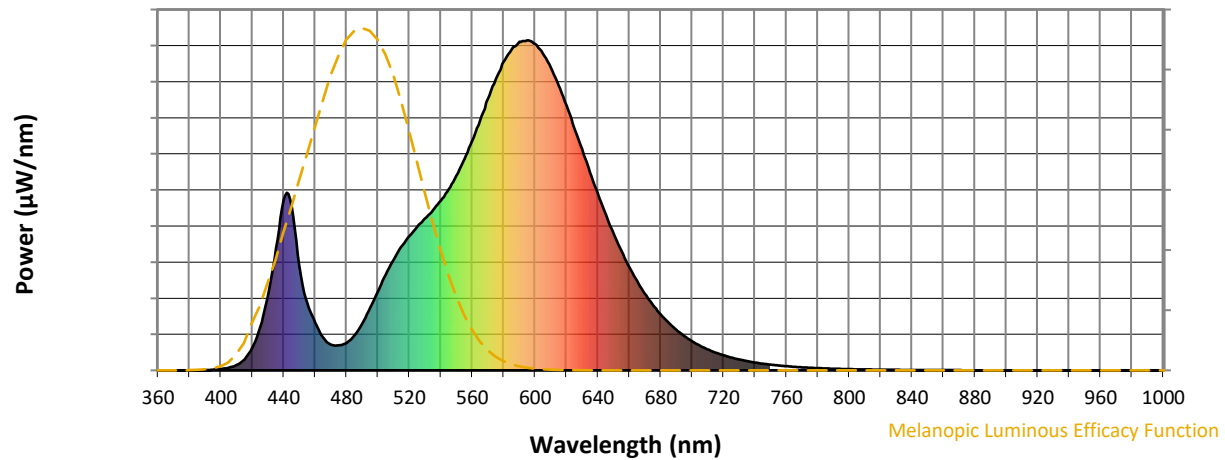
Scotopic Lumens: NR

S/P: 1.19

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.13

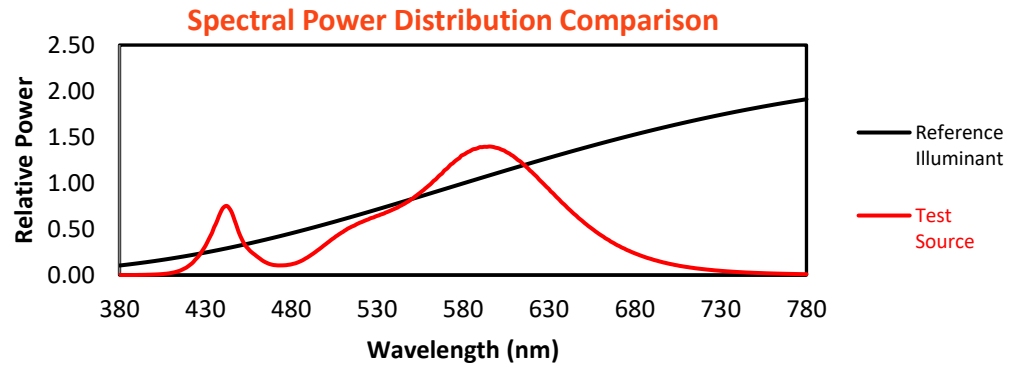
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803	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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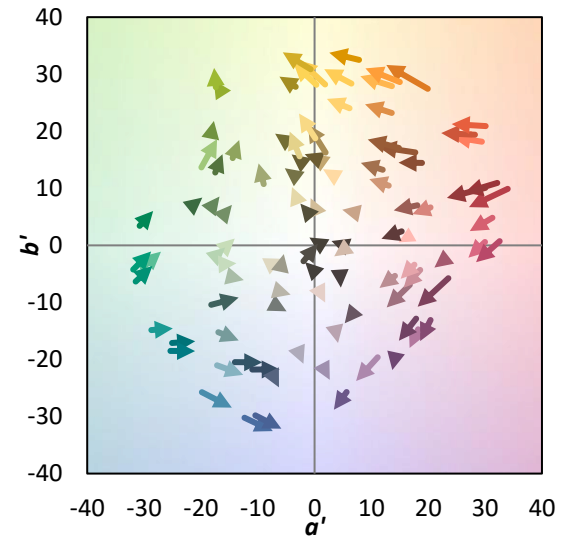
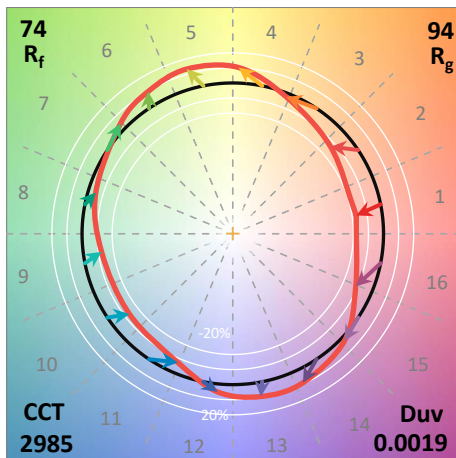
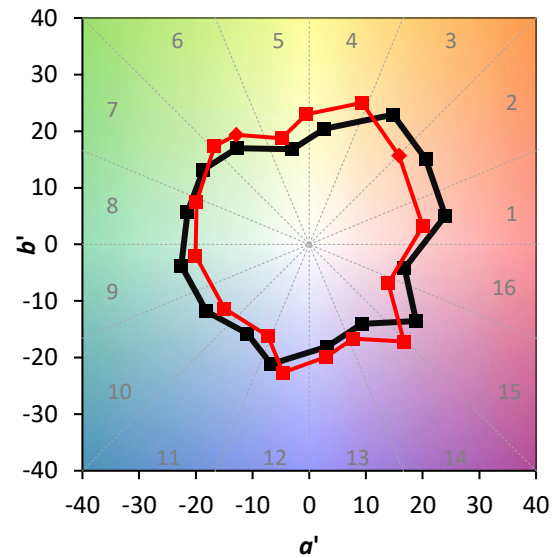
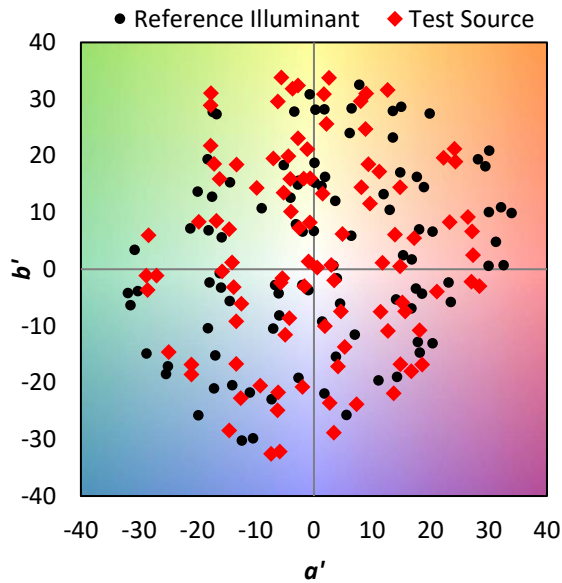
TM-30-18

Summary

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

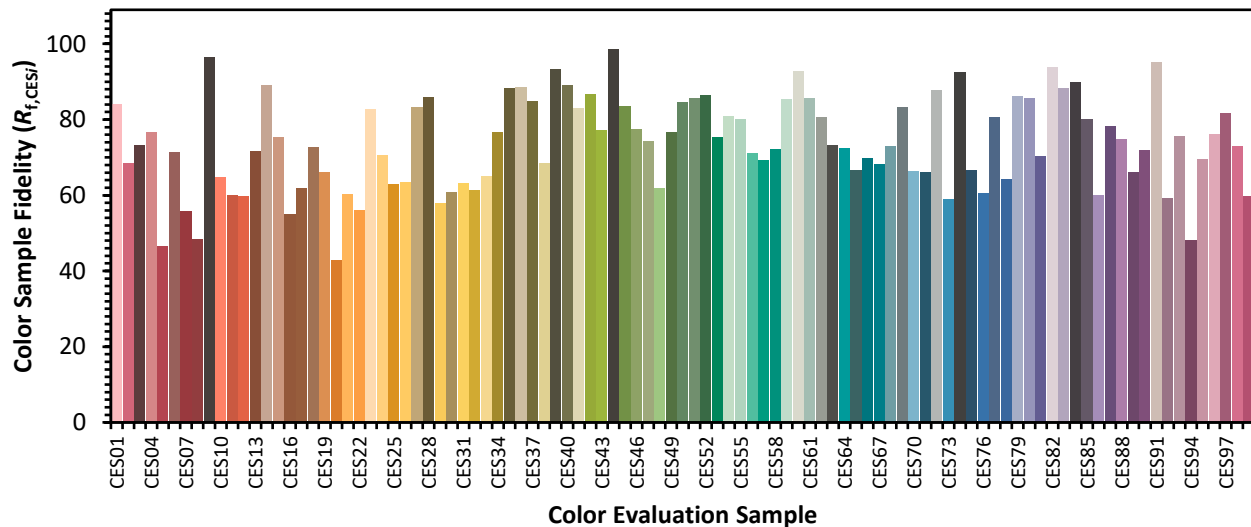


Color Vector Graphics

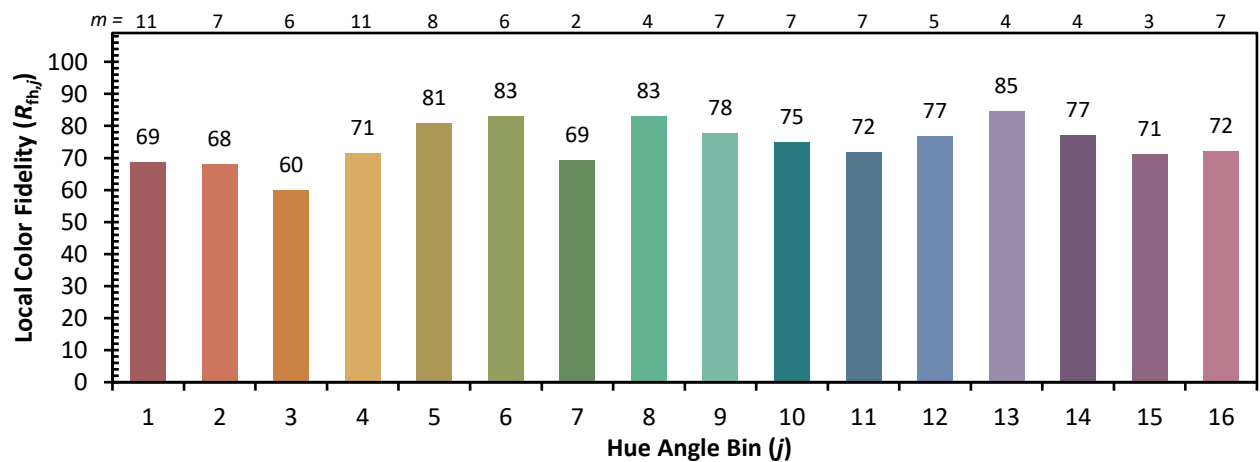
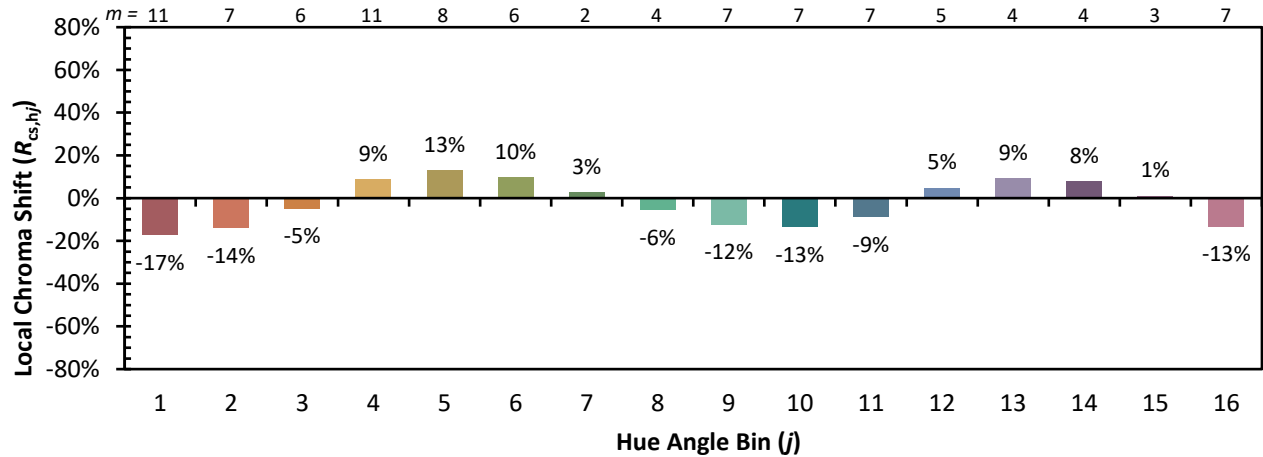


Individual Sample Fidelity Index ($R_{f,i}$)

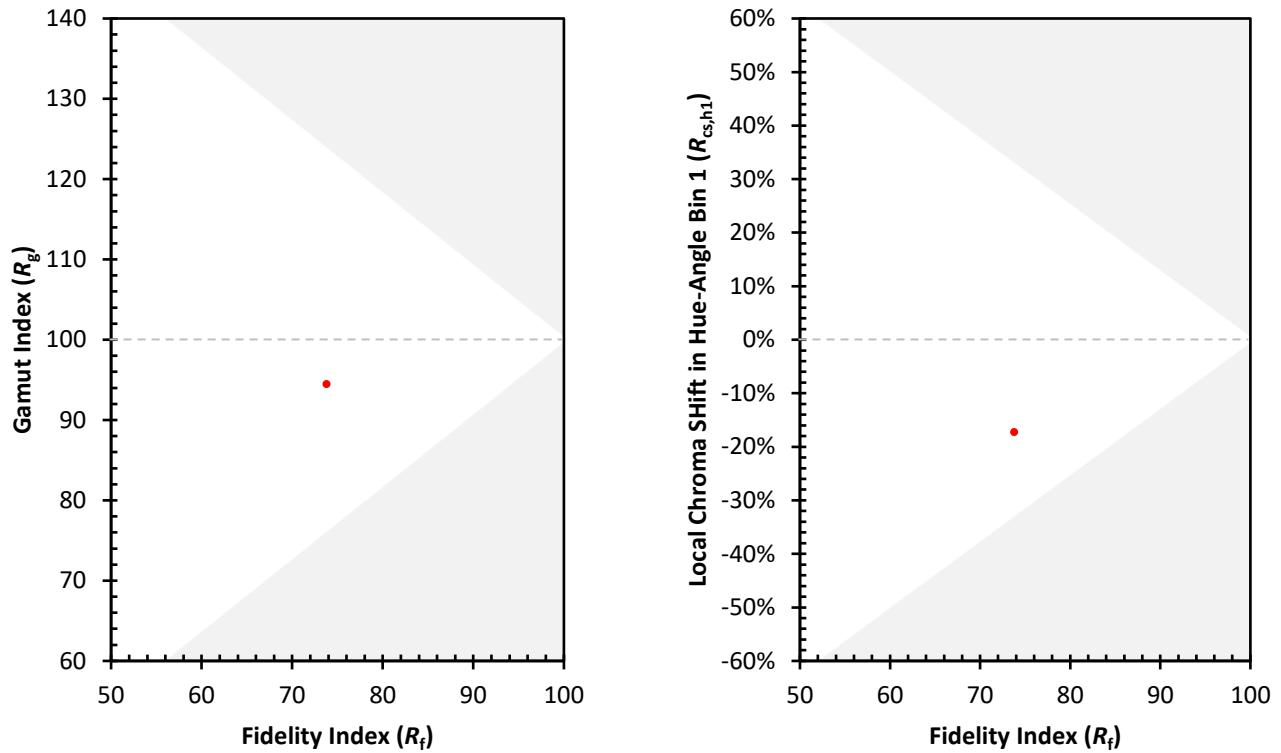
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82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