

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: P1067233

Luminaire Tested: **NAV-SA4A-730-U-T2BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067233
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA4A-730-U-T2BC
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 4xLight Square PACKAGE
70CRI 3000K FIXTURE w/ TYPE II ANGLED BACKLIGHT CONTROL
Light Source: (56) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12698.4 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G2

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

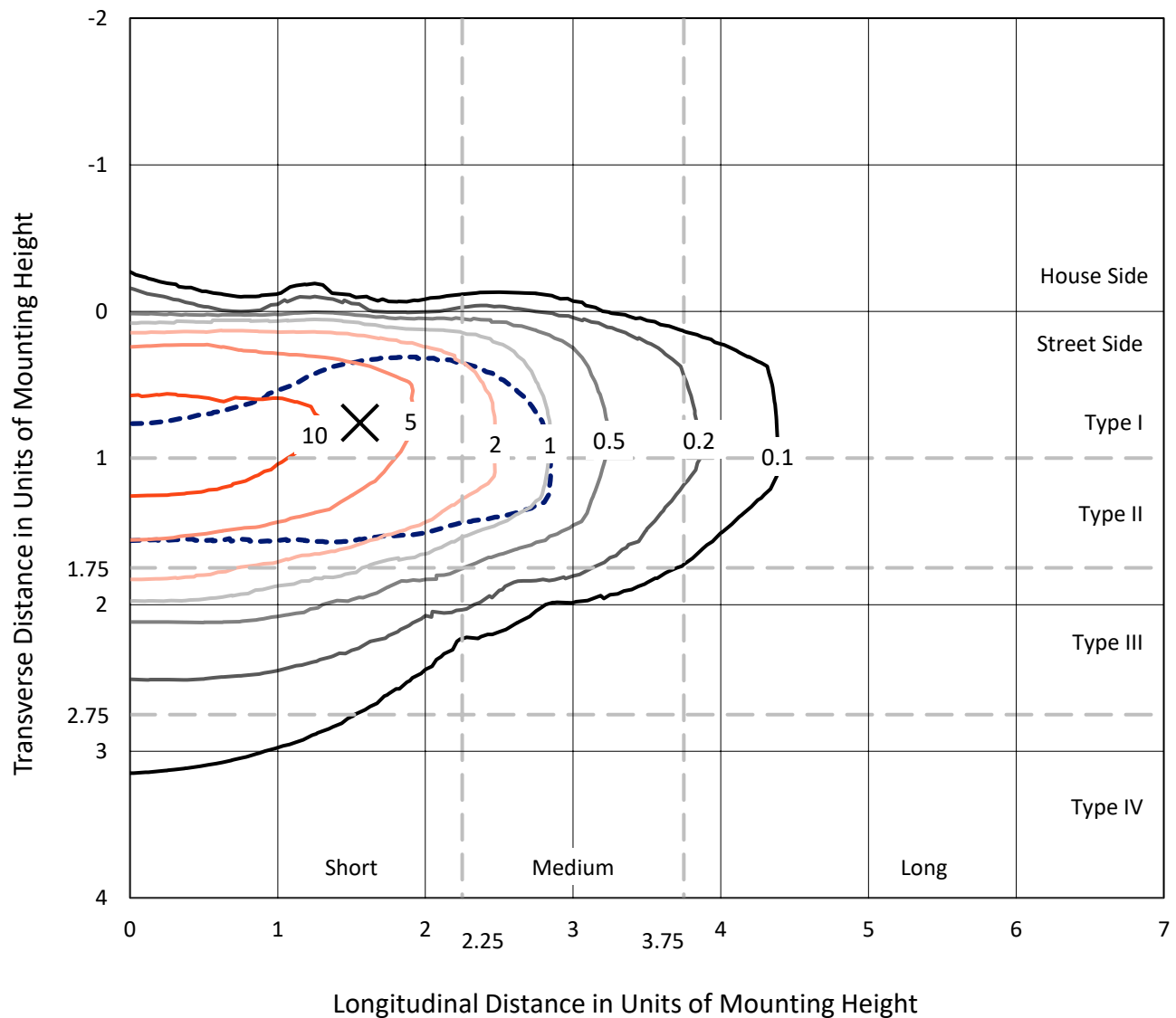


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

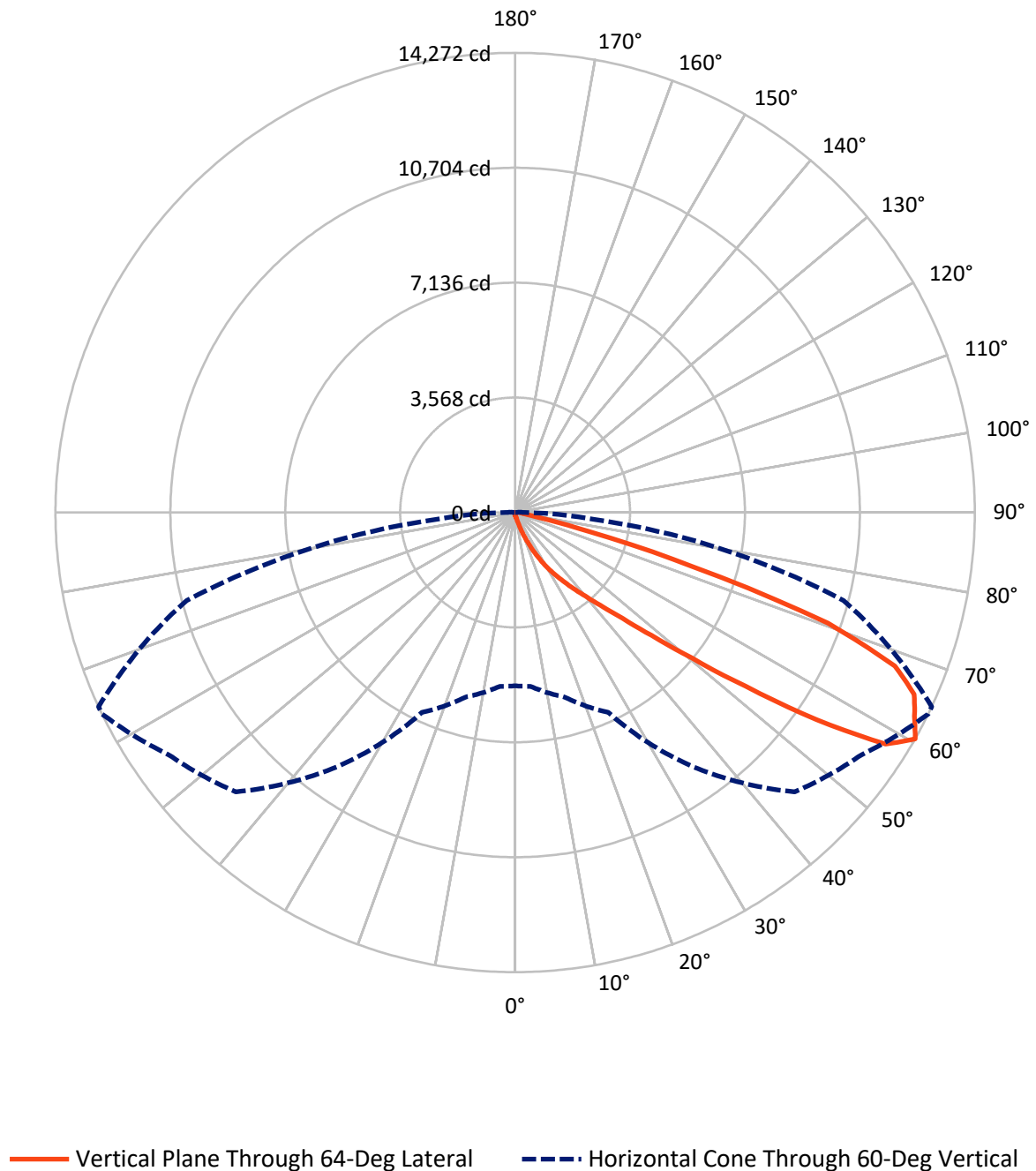


Based on 15 foot mounting height. Maximum calculated value = 18.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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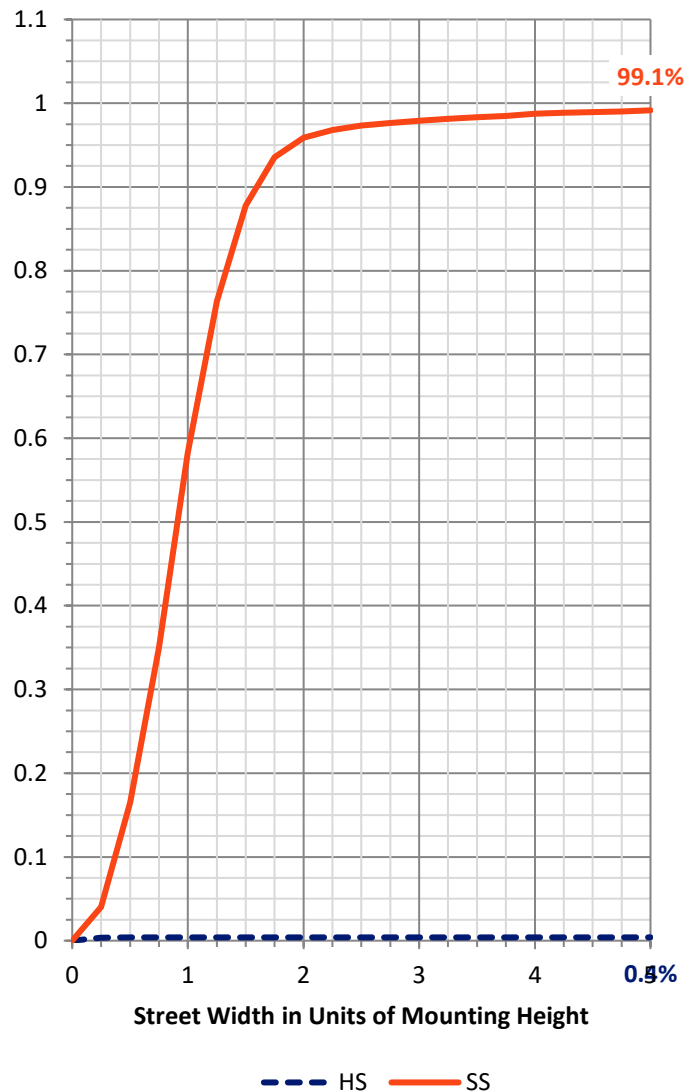
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	51.5	0.0	51.5
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	12646.9	0.0	12646.9
	% Fixture	99.6	0.0	99.6
Total	Lumens	12698.4	0.0	12698.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.6	0.1
10°-20°	124.8	1.0
20°-30°	414.4	3.3
30°-40°	1105.9	8.7
40°-50°	2810.8	22.1
50°-60°	4097.6	32.3
60°-70°	3165.0	24.9
70°-80°	869.2	6.8
80°-90°	98.1	0.8
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°	12698.4	100.0
0°-180°	12698.4	100.0



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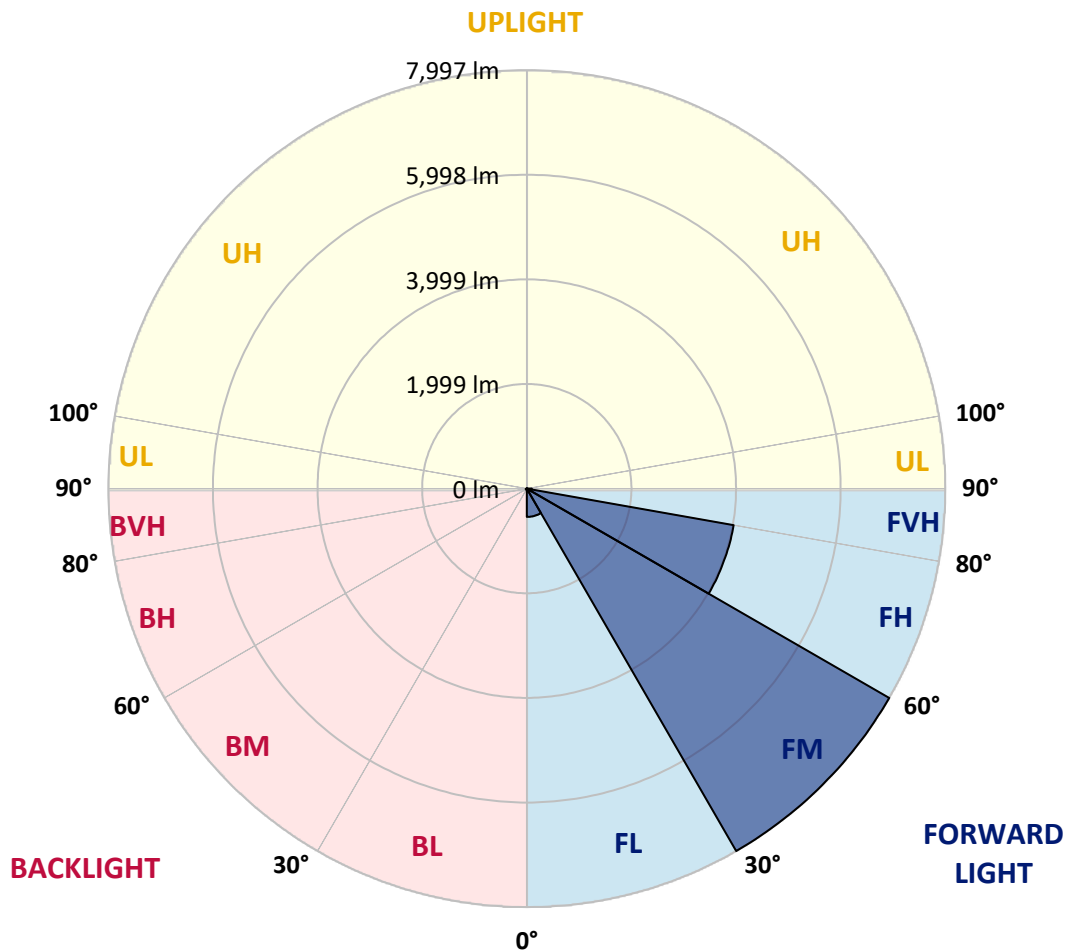
CATALOG NUMBER: NAV-SA4A-730-U-T2BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	540.3	4.3			
FM	(30°-60°)	7997.2	63.0			
FH	(60°-80°)	4013.6	31.6			G2/5000
FVH	(80°-90°)	95.8	0.8			G1/100
BL	(0°-30°)	11.6	0.1	B0/110		
BM	(30°-60°)	17.1	0.1	B0/220		
BH	(60°-80°)	20.5	0.2	B0/110		G0/110
BVH	(80°-90°)	2.3	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-G2

Type II Short



REPORT NUMBER: P1067233

CATALOG NUMBER: NAV-SA4A-730-U-T2BC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
2.5°	111.9	111.9	111.9	108.4	104.9	104.9	101.4	97.9	97.9	90.9	87.4
5°	171.3	171.3	164.3	157.3	146.8	132.8	118.8	108.4	108.4	97.9	90.9
7.5°	335.6	346.0	314.6	276.1	223.7	188.8	150.3	125.8	122.3	104.9	90.9
10°	727.0	720.1	671.1	576.7	454.4	328.6	209.7	153.8	146.8	111.9	90.9
12.5°	1094.1	1104.5	1052.1	947.3	800.4	583.7	360.0	199.2	192.2	122.3	90.9
15°	1408.6	1408.6	1373.7	1321.3	1160.5	933.3	580.2	297.1	272.6	132.8	87.4
17.5°	1625.4	1621.9	1607.9	1593.9	1499.5	1265.3	887.8	475.4	419.4	157.3	87.4
20°	1870.0	1859.6	1877.0	1849.1	1775.7	1590.4	1212.9	706.1	653.6	199.2	87.4
22.5°	2125.2	2135.7	2149.7	2121.7	2041.3	1880.5	1555.5	1003.2	947.3	276.1	90.9
25°	2450.3	2443.3	2474.7	2450.3	2348.9	2160.2	1877.0	1328.3	1247.9	384.5	97.9
27.5°	2848.8	2834.8	2855.7	2792.8	2660.0	2467.8	2163.7	1660.3	1565.9	552.3	111.9
30°	3376.6	3387.1	3292.7	3219.3	3030.5	2775.4	2481.7	2016.9	1919.0	751.5	125.8
32.5°	4208.5	4135.1	3988.3	3691.2	3443.0	3117.9	2799.8	2327.9	2240.6	1006.7	146.8
35°	5505.3	5519.2	5197.7	4463.6	3925.3	3547.8	3149.4	2670.5	2607.6	1296.8	174.8
37.5°	7085.2	7046.7	6763.6	5837.3	4631.4	4082.6	3547.8	3044.5	2953.6	1611.4	209.7
40°	8874.8	8714.1	8549.8	7920.6	6103.0	4753.8	4051.2	3477.9	3408.0	1974.9	265.7
42.5°	10308.0	10266.0	10294.0	10031.8	8556.8	5896.8	4718.8	4009.2	3925.3	2425.8	363.5
45°	11014.0	10954.6	11122.4	11318.1	10940.6	8329.6	5795.4	4687.3	4575.5	2957.1	513.8
47.5°	10825.3	10783.3	11143.4	11527.9	12031.2	11150.4	7553.6	5701.0	5508.8	3638.7	737.5
50°	9895.5	9899.0	10489.7	11206.3	12003.2	12580.0	10157.7	7088.7	6847.5	4544.0	1087.1
52.5°	8990.2	9018.2	9643.8	10689.0	11587.3	12747.8	12443.7	8958.7	8567.2	5610.1	1499.5
55°	8060.4	8074.4	8626.7	10098.2	11391.5	12247.9	13618.1	11367.1	10951.1	6938.4	1901.5
57.5°	7165.6	7165.6	7371.8	8679.1	11178.3	12202.5	13478.3	13569.2	13230.1	8455.4	2198.6
60°	5382.9	5417.9	5931.7	6847.5	9640.3	12268.9	13121.8	14271.8	14271.8	10559.6	2425.8
62.5°	2719.4	2771.9	3411.5	4302.8	6613.3	11353.1	13177.7	13918.7	13974.6	12415.7	2943.1
65°	1275.8	1335.2	1677.8	2307.0	3558.3	7990.5	12597.5	13618.1	13600.6	12062.7	4033.7
67.5°	915.8	933.3	1048.6	1345.7	1915.5	3502.4	9615.9	12719.8	12726.8	10248.5	4638.4
70°	821.4	821.4	849.4	936.8	1153.5	1565.9	4673.4	10301.0	10800.8	7913.6	4299.4
72.5°	810.9	803.9	797.0	800.4	779.5	786.5	1604.4	5816.4	6529.4	5536.7	3429.0
75°	790.0	790.0	783.0	758.5	622.2	506.8	552.3	2352.4	2719.4	3698.1	2544.7
77.5°	625.7	688.6	762.0	716.6	569.8	381.0	321.6	681.6	859.9	2268.5	1845.6
80°	290.1	293.6	290.1	304.1	363.5	272.6	237.7	332.1	335.6	1258.3	1143.0
82.5°	209.7	213.2	202.7	181.8	160.8	146.8	195.7	244.7	262.2	576.7	426.4
85°	62.9	59.4	69.9	94.4	111.9	129.3	164.3	206.2	216.7	213.2	62.9
87.5°	28.0	28.0	35.0	48.9	66.4	97.9	143.3	188.8	192.2	220.2	17.5
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: P1067233

CATALOG NUMBER: NAV-SA4A-730-U-T2BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
2.5°	87.4	83.9	80.4	76.9	73.4	69.9	66.4	66.4	69.9	69.9	69.9
5°	83.9	80.4	73.4	66.4	62.9	59.4	55.9	55.9	59.4	59.4	59.4
7.5°	83.9	76.9	69.9	62.9	55.9	52.4	48.9	48.9	48.9	52.4	52.4
10°	83.9	76.9	66.4	55.9	48.9	45.4	41.9	38.4	41.9	41.9	41.9
12.5°	80.4	73.4	62.9	52.4	41.9	35.0	31.5	31.5	31.5	31.5	31.5
15°	76.9	69.9	59.4	45.4	35.0	28.0	21.0	21.0	21.0	24.5	24.5
17.5°	73.4	66.4	52.4	35.0	24.5	17.5	14.0	14.0	14.0	17.5	17.5
20°	73.4	62.9	45.4	28.0	17.5	10.5	7.0	7.0	7.0	10.5	14.0
22.5°	73.4	62.9	41.9	21.0	10.5	7.0	3.5	3.5	3.5	3.5	3.5
25°	73.4	59.4	38.4	17.5	7.0	3.5	0.0	0.0	3.5	7.0	10.5
27.5°	73.4	55.9	31.5	10.5	7.0	3.5	0.0	3.5	7.0	7.0	7.0
30°	73.4	55.9	28.0	10.5	3.5	0.0	0.0	3.5	7.0	7.0	10.5
32.5°	76.9	52.4	24.5	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	80.4	48.9	21.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	87.4	48.9	14.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	97.9	52.4	14.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	122.3	55.9	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	171.3	69.9	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	251.7	104.9	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	367.0	143.3	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	450.9	143.3	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	447.4	90.9	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	342.5	62.9	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	290.1	45.4	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	349.5	35.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	622.2	31.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	999.7	31.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1118.5	31.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	873.9	28.0	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	478.9	24.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	241.2	17.5	7.0	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	101.4	14.0	7.0	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0
82.5°	35.0	14.0	7.0	7.0	3.5	3.5	0.0	0.0	0.0	0.0	0.0
85°	17.5	10.5	10.5	7.0	7.0	3.5	3.5	0.0	0.0	0.0	0.0
87.5°	10.5	10.5	10.5	7.0	7.0	3.5	3.5	0.0	0.0	0.0	3.5
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

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

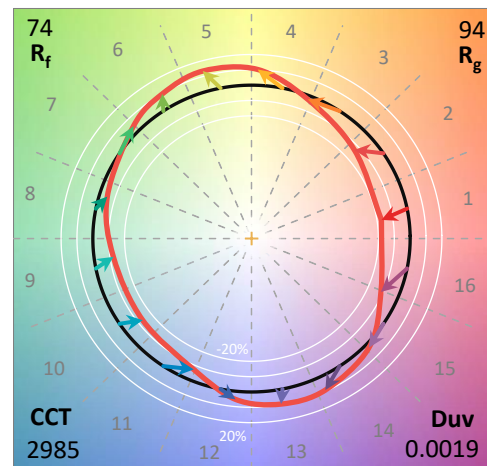
Test Information

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

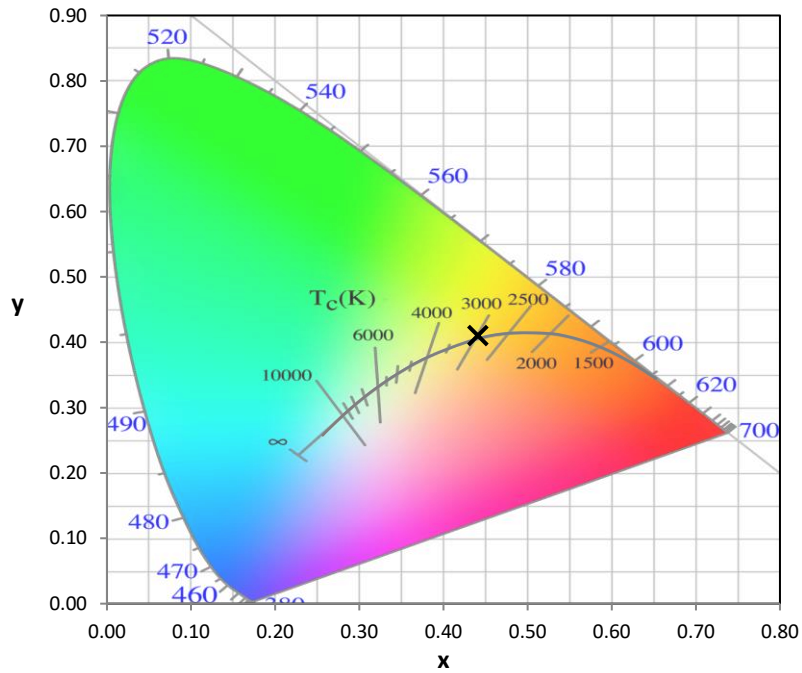
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

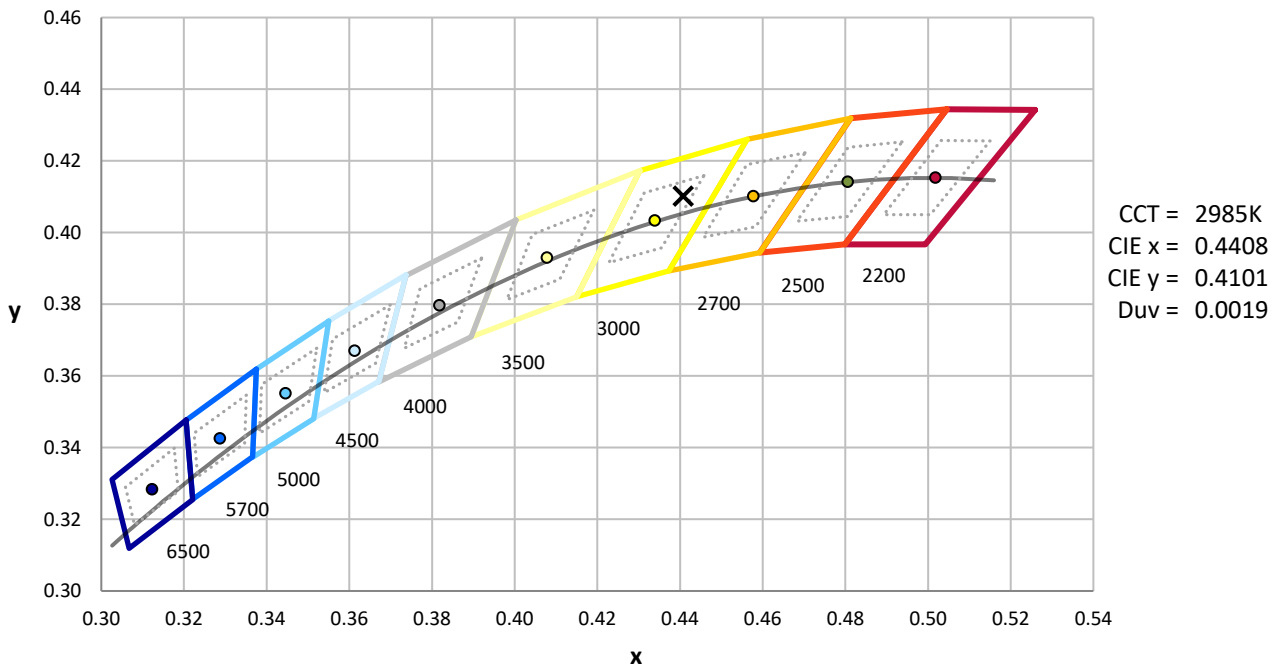
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-4

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			

REPORT NUMBER: SP1-2407-184-4

Scotopic Flux vs. Wavelength



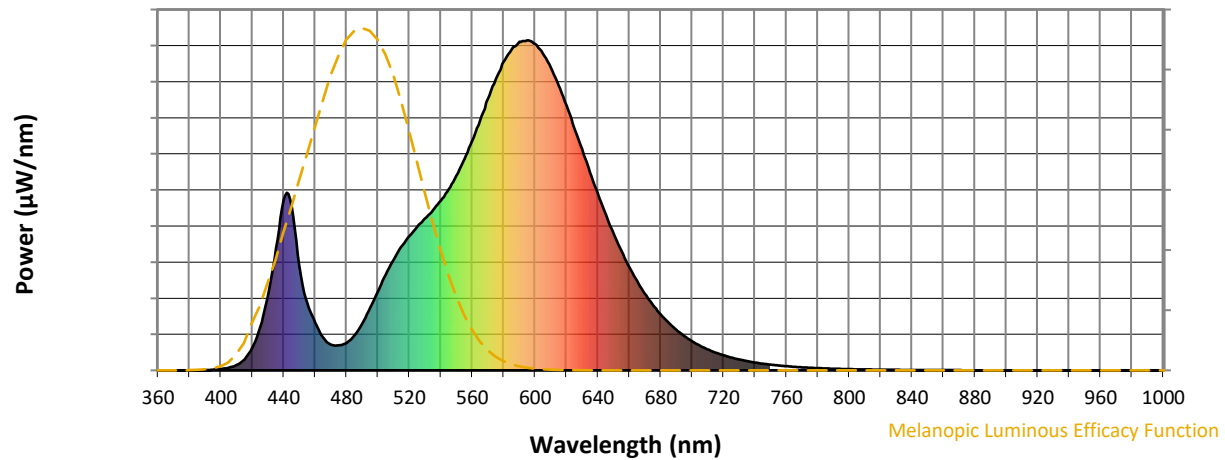
Scotopic Lumens: NR

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			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.13

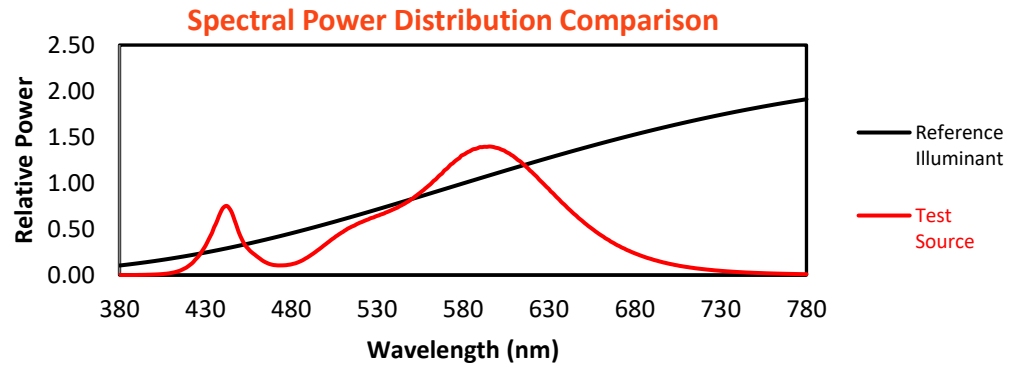
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	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			

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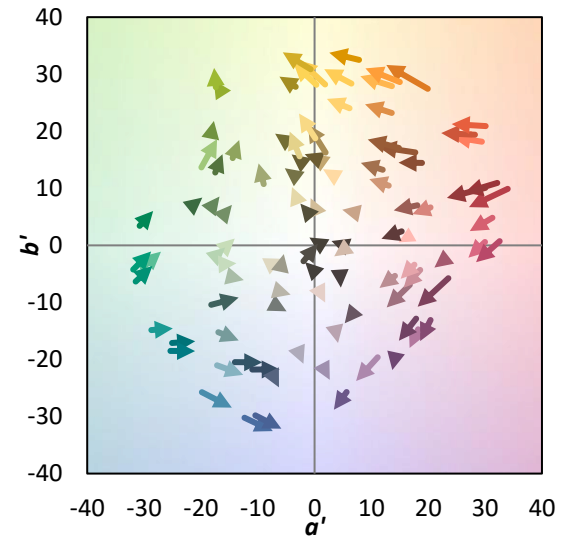
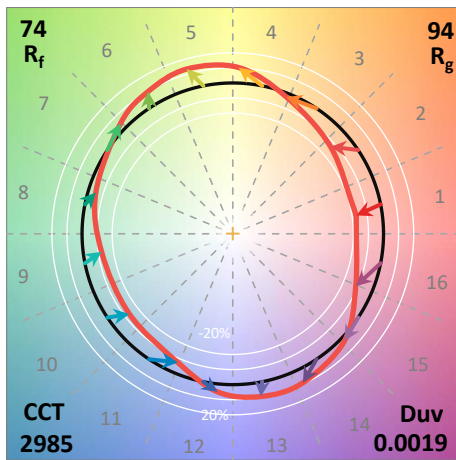
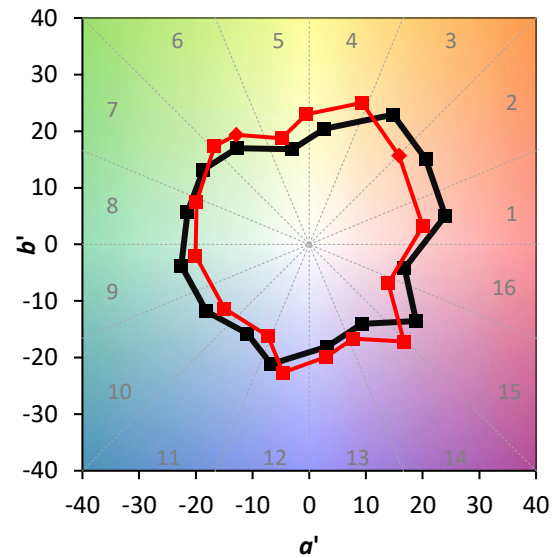
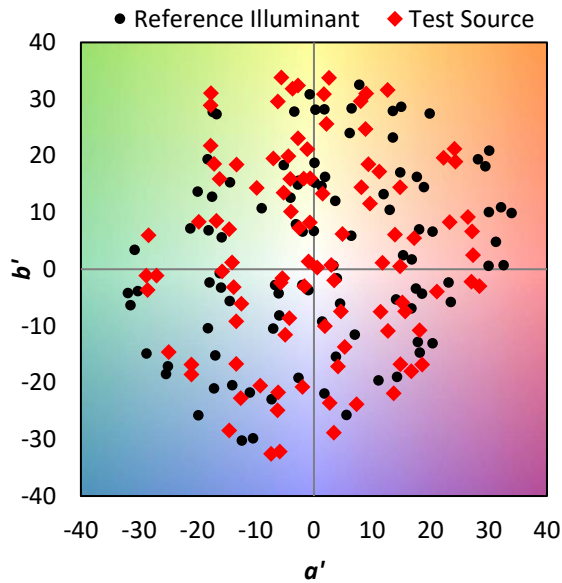
TM-30-18

Summary

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

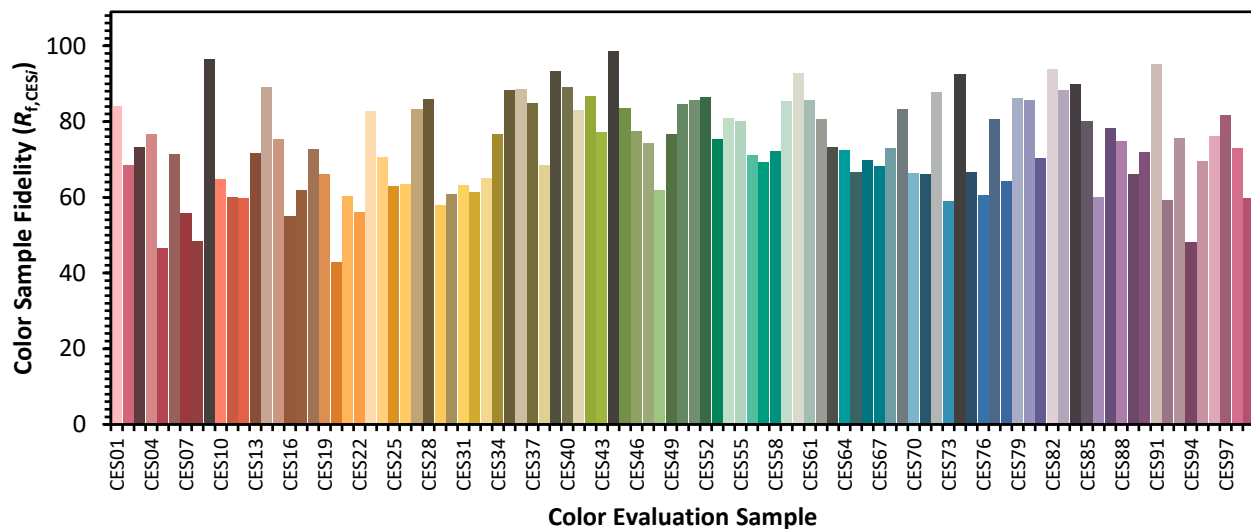


Color Vector Graphics

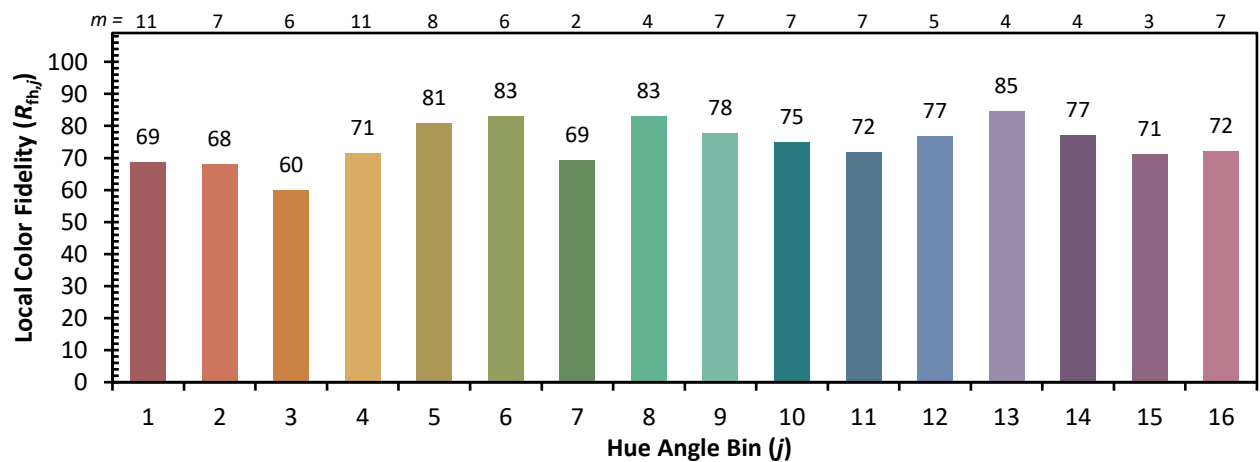
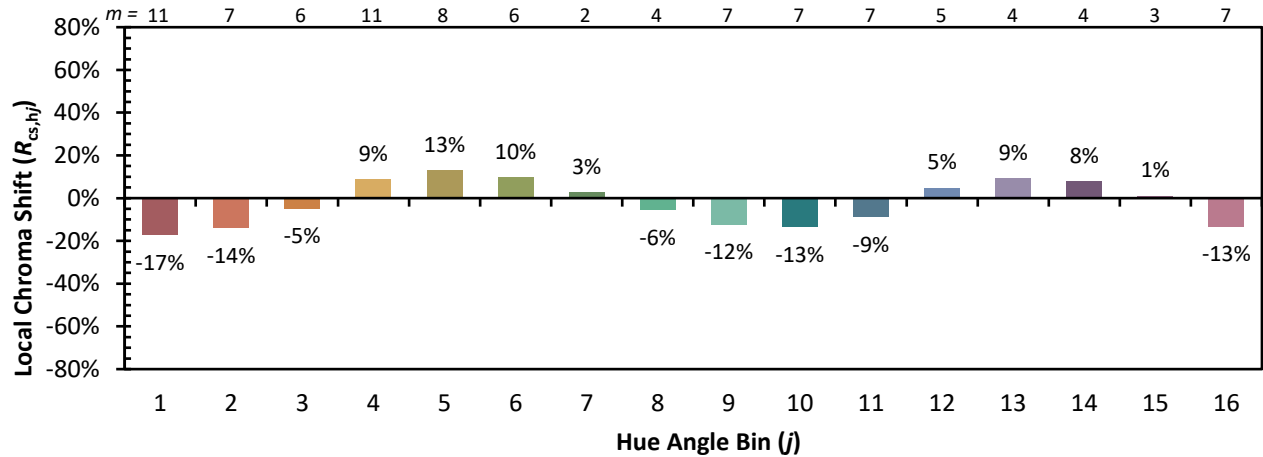


Individual Sample Fidelity Index ($R_{f,i}$)

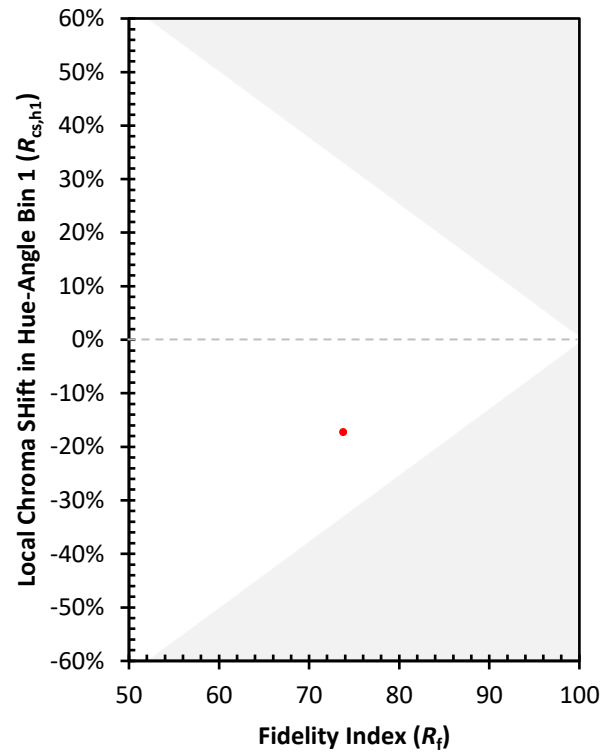
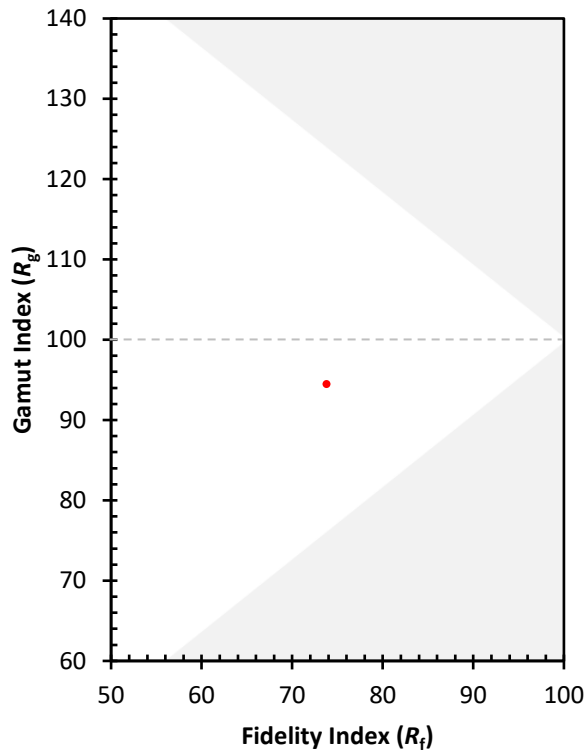
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82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