

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: McGRAW-EDISON

Report Number: P1048827

Luminaire Tested: **GALN-SA4C-950-U-T4BC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1048827
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-950-U-T4BC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 4xLight Square PACKAGE
90CRI 5000K FIXTURE w/ TYPE IV ANGLED BACKLIGHT CONTROL
Light Source: (56) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18025.1 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 190.4
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

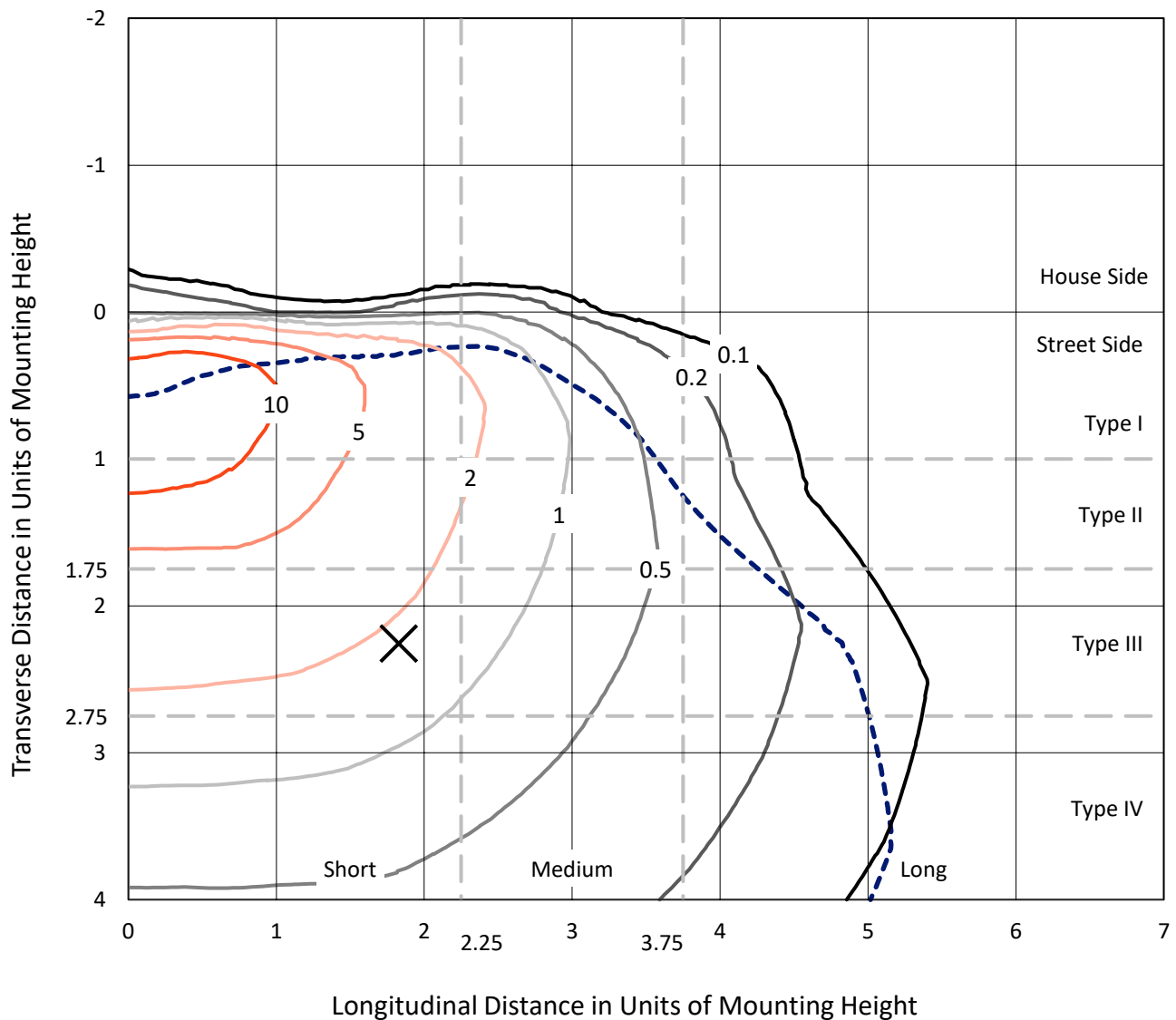


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

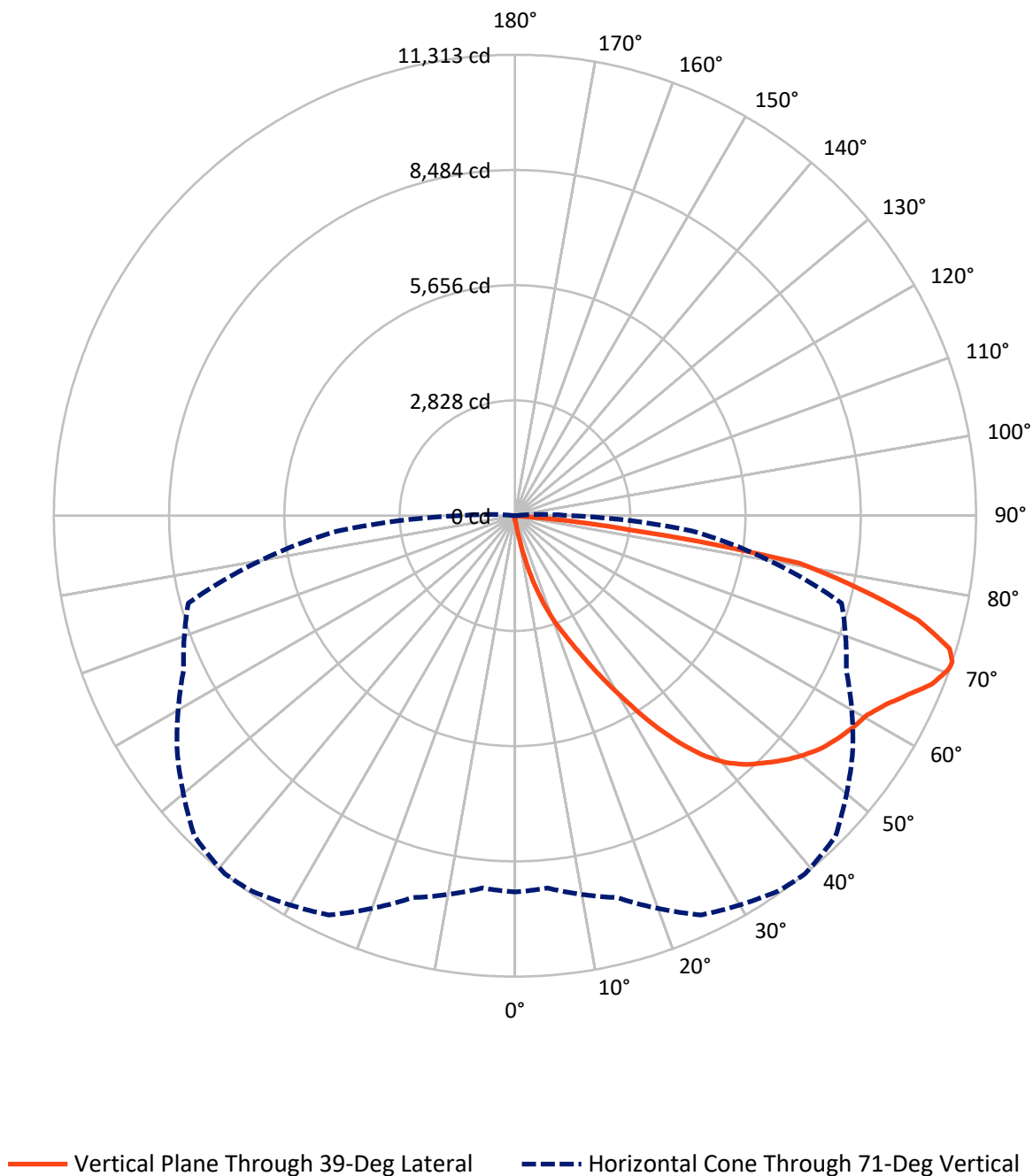


Based on 15 foot mounting height. Maximum calculated value = 18.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	64.0	0.0	64.0
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	17961.0	0.0	17961.0
	% Fixture	99.6	0.0	99.6
Total	Lumens	18025.1	0.0	18025.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.1	0.1
10°-20°	192.6	1.1
20°-30°	686.1	3.8
30°-40°	1653.5	9.2
40°-50°	2767.3	15.4
50°-60°	3554.2	19.7
60°-70°	4497.9	25.0
70°-80°	4010.1	22.2
80°-90°	648.2	3.6
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°	18025.1	100.0
0°-180°	18025.1	100.0



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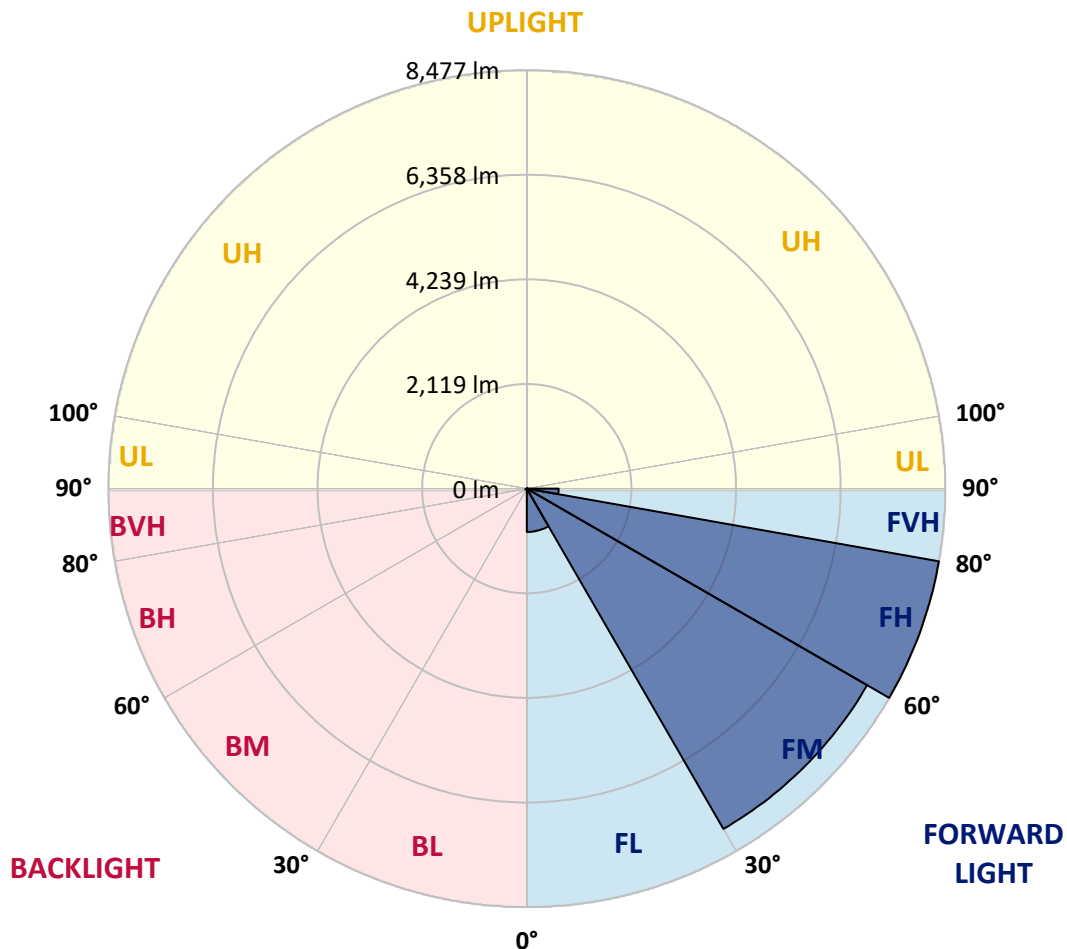
CATALOG NUMBER: GALN-SA4C-950-U-T4BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	878.3	4.9			
FM	(30°-60°)	7960.2	44.2			
FH	(60°-80°)	8477.2	47.0			G4/12000
FVH	(80°-90°)	645.3	3.6			G4/750
BL	(0°-30°)	15.5	0.1	B0/110		
BM	(30°-60°)	14.8	0.1	B0/220		
BH	(60°-80°)	30.8	0.2	B0/110		G0/110
BVH	(80°-90°)	2.9	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
2.5°	113.5	113.5	113.5	109.8	109.8	108.6	107.4	107.4	104.9	103.7	101.3
5°	172.0	168.4	159.8	155.0	145.2	139.1	133.0	124.5	115.9	109.8	102.5
7.5°	389.2	397.8	369.7	317.3	263.6	240.4	201.3	162.3	134.2	115.9	103.7
10°	992.0	987.1	892.0	787.0	607.7	535.7	419.7	264.8	173.3	126.9	104.9
12.5°	1687.5	1682.7	1570.4	1427.6	1190.9	1040.8	821.2	494.2	248.9	144.0	104.9
15°	2272.0	2252.5	2217.1	2075.6	1798.6	1672.9	1382.5	873.7	402.7	173.3	107.4
17.5°	2658.8	2641.7	2608.8	2557.5	2381.8	2233.0	1999.9	1372.7	651.6	224.5	112.3
20°	3013.9	3001.7	2974.9	2965.1	2851.6	2772.3	2579.5	1946.2	1015.2	305.1	119.6
22.5°	3502.0	3476.4	3487.3	3428.8	3317.7	3222.6	3104.2	2546.6	1459.4	439.3	133.0
25°	4099.9	4087.7	4057.2	4015.7	3861.9	3779.0	3597.2	3112.7	1956.0	615.0	147.6
27.5°	4822.2	4808.8	4801.5	4706.3	4529.4	4439.1	4185.3	3647.2	2514.8	861.5	167.2
30°	5654.4	5660.5	5612.9	5490.9	5284.7	5157.8	4896.7	4207.3	3087.1	1150.6	187.9
32.5°	6515.9	6503.7	6430.5	6286.5	6102.2	5983.9	5652.0	4821.0	3687.4	1532.6	212.3
35°	7444.4	7421.3	7228.5	7063.7	6906.3	6757.5	6454.9	5533.6	4287.8	1960.9	245.3
37.5°	8381.6	8273.0	7886.2	7677.5	7568.9	7446.9	7165.0	6293.8	4884.5	2439.2	285.5
40°	9089.3	9005.1	8546.3	8161.9	8075.3	7971.6	7761.7	6950.3	5519.0	2952.9	334.3
42.5°	9481.0	9434.6	9022.2	8642.7	8438.9	8347.4	8168.0	7523.8	6146.2	3520.3	405.1
45°	9648.1	9576.1	9300.4	9123.4	8798.9	8647.6	8434.0	7956.9	6801.4	4164.5	503.9
47.5°	9596.9	9555.4	9357.7	9422.4	9186.9	8951.4	8637.8	8288.8	7361.5	4904.0	639.4
50°	9274.8	9239.4	9178.4	9528.6	9499.3	9221.1	8901.4	8551.2	7819.0	5666.6	849.3
52.5°	8662.2	8647.6	8803.8	9445.6	9676.2	9459.0	9155.2	8783.0	8246.1	6463.4	1149.4
55°	7872.7	7932.5	8379.1	9316.2	9766.5	9634.7	9379.7	9000.2	8589.0	7176.0	1592.4
57.5°	7548.2	7564.0	8121.7	9224.7	9806.8	9789.7	9598.1	9207.6	8903.8	7745.8	2268.4
60°	7927.6	7903.2	8197.3	9294.3	9887.3	9928.8	9792.1	9400.4	9177.1	8235.1	3168.9
62.5°	8613.4	8600.0	8693.9	9590.8	10122.8	10207.0	10061.8	9539.5	9418.7	8557.3	4196.3
65°	9225.9	9197.9	9372.4	10116.7	10536.4	10596.2	10469.3	9777.5	9524.9	8791.6	5161.5
67.5°	9490.7	9484.6	9765.3	10617.0	10970.8	11035.5	10924.5	10105.7	9500.5	8866.0	5587.3
70°	9369.9	9346.7	9795.8	10829.3	11216.1	11289.3	11181.9	10227.7	9235.7	8630.5	4956.5
71°	9236.9	9174.7	9704.3	10814.6	11250.3	11312.5	11124.6	10116.7	8969.7	8296.1	4384.2
72.5°	8824.5	8835.5	9452.9	10662.1	11168.5	11150.2	10800.0	9718.9	8648.8	7537.2	3521.5
75°	7809.3	7874.0	8639.0	10021.5	10438.8	10205.8	9670.1	8958.7	8004.5	5404.3	2445.3
77.5°	6381.7	6478.0	7318.8	8789.1	8670.8	8647.6	8625.6	7893.5	6835.6	2902.9	1701.0
80°	3046.8	3255.5	4414.7	6274.3	6816.0	7078.4	6913.7	6360.9	5285.9	1382.5	1016.4
82.5°	198.9	196.5	278.2	527.1	2222.0	2872.4	4563.6	4546.5	3685.0	673.6	414.9
85°	94.0	96.4	106.2	120.8	140.3	153.7	212.3	1244.6	1763.2	320.9	90.3
87.5°	54.9	56.1	65.9	84.2	109.8	122.0	145.2	186.7	229.4	176.9	19.5
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: GALN-SA4C-950-U-T4BC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
2.5°	100.1	98.8	95.2	91.5	87.9	85.4	84.2	85.4	85.4	86.6	86.6
5°	100.1	96.4	90.3	83.0	78.1	73.2	70.8	69.6	70.8	70.8	70.8
7.5°	98.8	92.7	84.2	75.7	69.6	63.5	61.0	59.8	59.8	61.0	61.0
10°	96.4	90.3	79.3	69.6	62.2	54.9	51.2	47.6	47.6	47.6	48.8
12.5°	95.2	86.6	73.2	63.5	53.7	45.1	37.8	34.2	35.4	35.4	35.4
15°	92.7	83.0	69.6	57.3	45.1	34.2	28.1	24.4	25.6	26.8	25.6
17.5°	92.7	81.8	64.7	50.0	35.4	25.6	20.7	18.3	18.3	19.5	19.5
20°	92.7	79.3	61.0	42.7	26.8	19.5	14.6	13.4	13.4	15.9	17.1
22.5°	95.2	79.3	56.1	35.4	22.0	14.6	11.0	9.8	11.0	13.4	14.6
25°	98.8	78.1	51.2	31.7	18.3	11.0	8.5	6.1	7.3	9.8	11.0
27.5°	102.5	76.9	46.4	28.1	14.6	8.5	6.1	4.9	3.7	4.9	4.9
30°	106.2	76.9	41.5	23.2	12.2	6.1	3.7	2.4	1.2	0.0	0.0
32.5°	108.6	74.4	37.8	18.3	9.8	4.9	2.4	1.2	0.0	0.0	0.0
35°	111.0	72.0	32.9	14.6	7.3	3.7	1.2	0.0	0.0	0.0	0.0
37.5°	113.5	68.3	28.1	12.2	6.1	2.4	0.0	0.0	0.0	0.0	0.0
40°	115.9	63.5	23.2	11.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	118.4	59.8	19.5	8.5	2.4	0.0	0.0	0.0	0.0	0.0	0.0
45°	124.5	57.3	15.9	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	135.4	54.9	14.6	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	151.3	52.5	13.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	173.3	51.2	12.2	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	212.3	50.0	11.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	279.4	48.8	11.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	428.3	46.4	11.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	765.1	45.1	9.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	1333.7	46.4	9.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1912.1	48.8	8.5	3.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	1636.3	42.7	8.5	4.9	2.4	1.2	0.0	0.0	0.0	0.0	0.0
71°	1333.7	37.8	8.5	4.9	2.4	1.2	1.2	0.0	0.0	0.0	0.0
72.5°	857.8	29.3	7.3	4.9	2.4	2.4	1.2	0.0	0.0	0.0	0.0
75°	362.4	24.4	7.3	4.9	3.7	2.4	2.4	1.2	0.0	0.0	0.0
77.5°	155.0	18.3	7.3	6.1	4.9	3.7	3.7	2.4	1.2	0.0	0.0
80°	58.6	14.6	8.5	7.3	6.1	6.1	4.9	2.4	1.2	0.0	0.0
82.5°	26.8	12.2	8.5	7.3	7.3	6.1	4.9	3.7	2.4	0.0	0.0
85°	17.1	11.0	8.5	7.3	7.3	6.1	6.1	3.7	2.4	0.0	0.0
87.5°	13.4	11.0	8.5	8.5	7.3	7.3	4.9	3.7	1.2	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: SP1-2407-184-17

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-950-U-5WQ

Data in this report applies to families of products including GSS-SB1A-950-U-5WQ

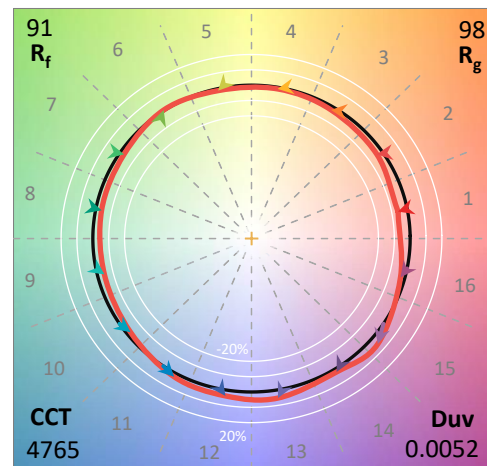
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-17
 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-950-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 5000K CCT 26 LEDS

Spectral Parameters

CCT (K): 4765
 CIE u' : 0.2105
 CIE v' : 0.4941
 Duv: 0.0052
 CIE x: 0.3536
 CIE y: 0.3689
 CIE z: 0.2775
 Peak Wavelength (nm): 449
 Dominant Wavelength (nm): 571
 Purity: 16.80041
 R_f: 90.7
 R_g: 98

CRI (Ra): 90.8
 R1: 89.8
 R2: 93.1
 R3: 95.3
 R4: 90.3
 R5: 89.0
 R6: 89.7
 R7: 94.9
 R8: 84.0
 R9: 54.9
 R10: 83.0
 R11: 89.6
 R12: 68.0
 R13: 90.6
 R14: 97.3
 R15: 86.2



Test Conditions

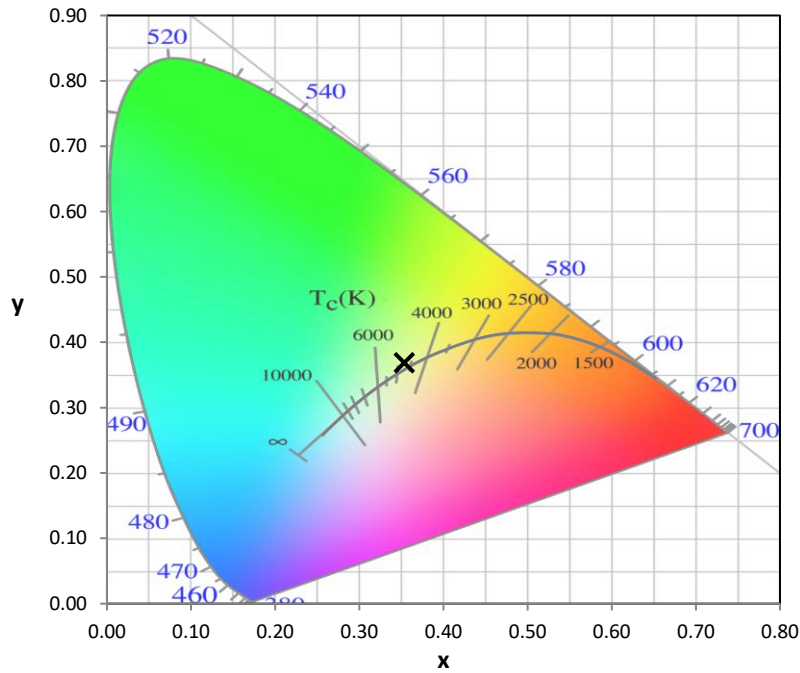
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

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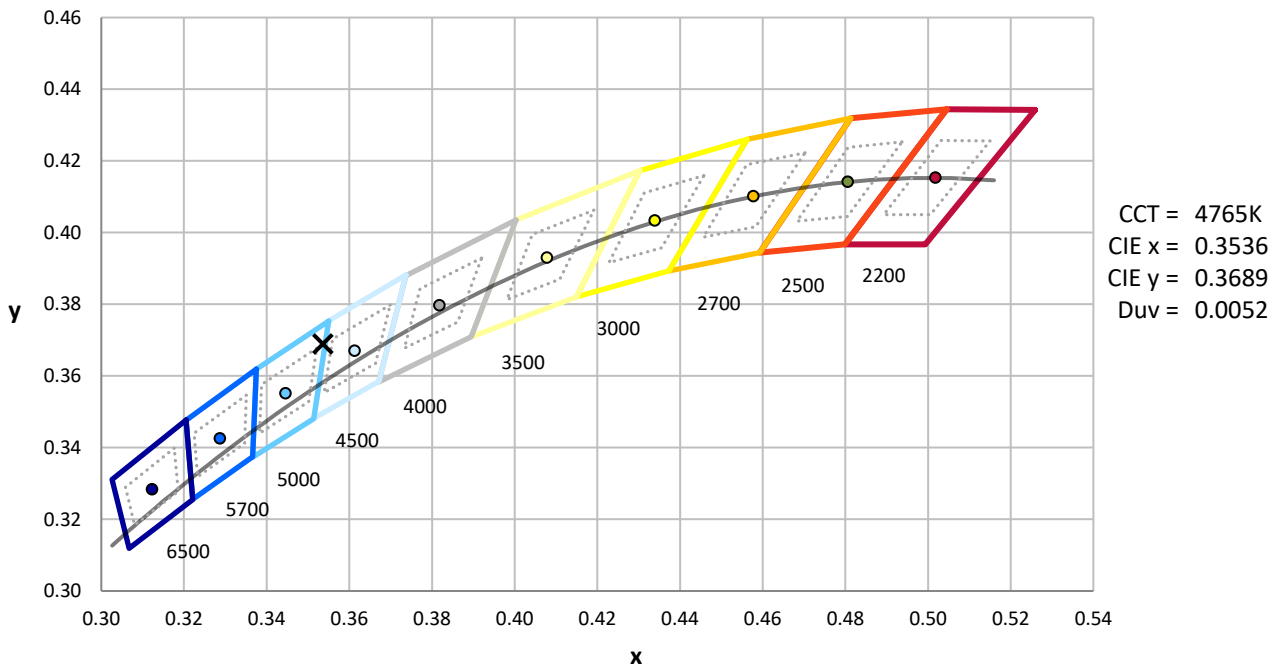
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



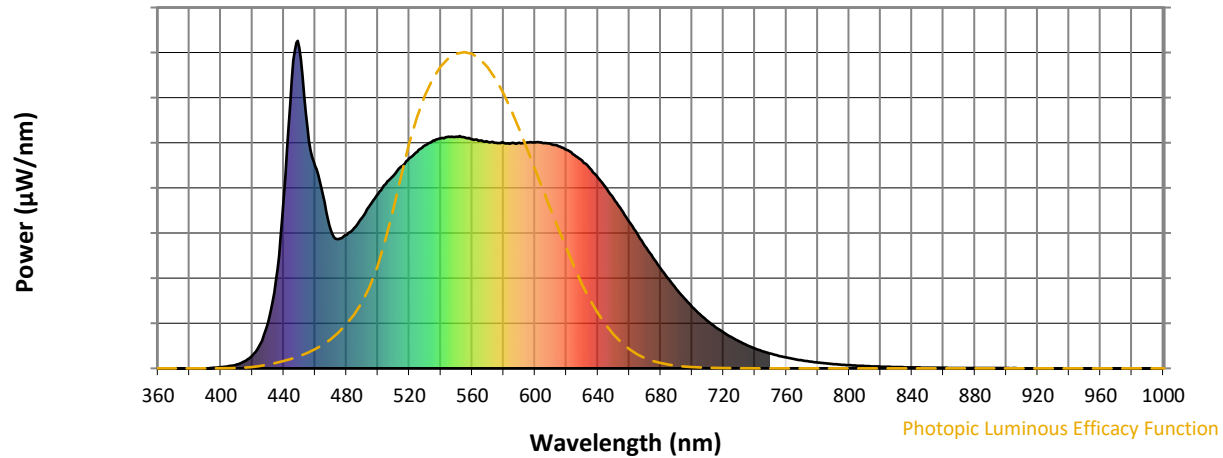
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

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Photopic Flux vs. Wavelength

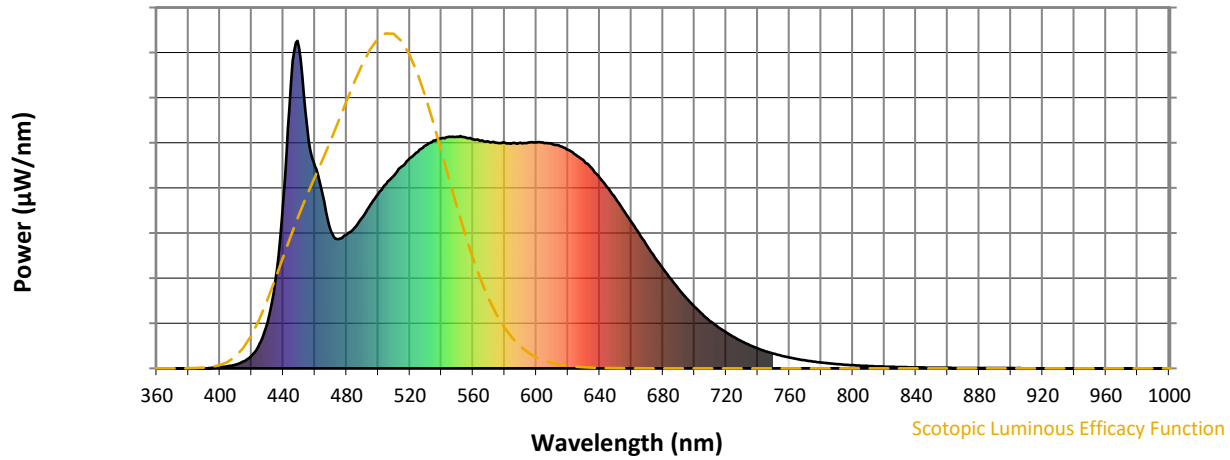


Photopic Lumens: NR

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	462	NR	620	668	NR	750	45	NR	880	1	NR
365	0	NR	495	498	NR	625	652	NR	755	39	NR	885	1	NR
370	0	NR	500	533	NR	630	634	NR	760	33	NR	890	1	NR
375	0	NR	505	562	NR	635	610	NR	765	28	NR	895	1	NR
380	0	NR	510	590	NR	640	583	NR	770	24	NR	900	1	NR
385	0	NR	515	617	NR	645	552	NR	775	21	NR	905	1	NR
390	0	NR	520	642	NR	650	519	NR	780	18	NR	910	0	NR
395	2	NR	525	661	NR	655	484	NR	785	15	NR	915	0	NR
400	4	NR	530	681	NR	660	448	NR	790	13	NR	920	0	NR
405	7	NR	535	695	NR	665	411	NR	795	11	NR	925	0	NR
410	12	NR	540	702	NR	670	373	NR	800	10	NR	930	0	NR
415	21	NR	545	708	NR	675	338	NR	805	8	NR	935	0	NR
420	39	NR	550	707	NR	680	305	NR	810	7	NR	940	0	NR
425	74	NR	555	706	NR	685	272	NR	815	6	NR	945	0	NR
430	139	NR	560	700	NR	690	243	NR	820	5	NR	950	0	NR
435	270	NR	565	696	NR	695	214	NR	825	5	NR	955	0	NR
440	517	NR	570	692	NR	700	188	NR	830	4	NR	960	0	NR
445	877	NR	575	689	NR	705	165	NR	835	3	NR	965	0	NR
450	978	NR	580	688	NR	710	144	NR	840	3	NR	970	0	NR
455	738	NR	585	688	NR	715	125	NR	845	3	NR	975	0	NR
460	618	NR	590	689	NR	720	110	NR	850	2	NR	980	0	NR
465	529	NR	595	690	NR	725	95	NR	855	2	NR	985	0	NR
470	420	NR	600	690	NR	730	82	NR	860	2	NR	990	0	NR
475	395	NR	605	688	NR	735	71	NR	865	1	NR	995	0	NR
480	408	NR	610	685	NR	740	61	NR	870	1	NR	1000	0	NR
485	429	NR	615	678	NR	745	52	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



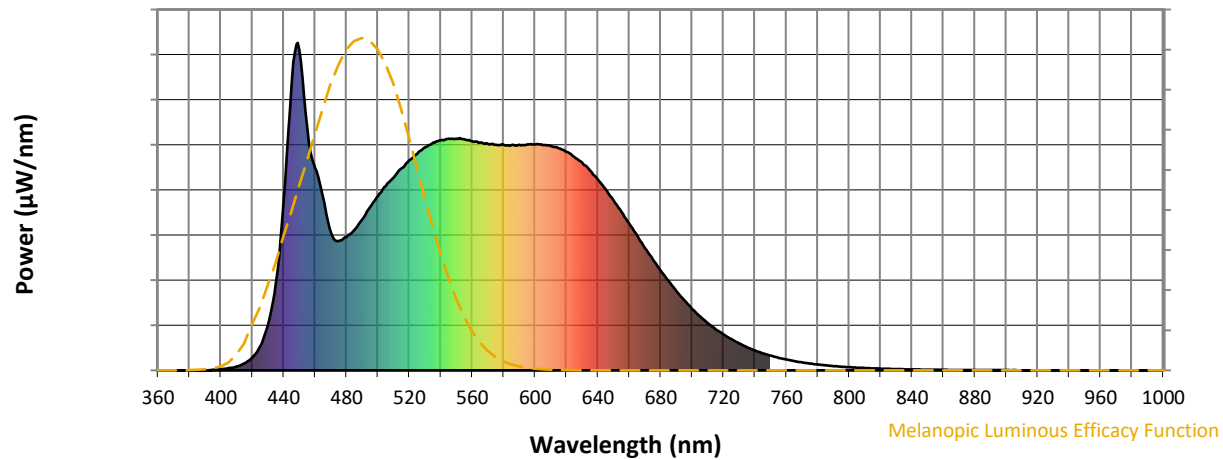
Scotopic Lumens: NR

S/P: 1.99

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	462	NR	620	668	NR	750	45	NR	880	1	NR
365	0	NR	495	498	NR	625	652	NR	755	39	NR	885	1	NR
370	0	NR	500	533	NR	630	634	NR	760	33	NR	890	1	NR
375	0	NR	505	562	NR	635	610	NR	765	28	NR	895	1	NR
380	0	NR	510	590	NR	640	583	NR	770	24	NR	900	1	NR
385	0	NR	515	617	NR	645	552	NR	775	21	NR	905	1	NR
390	0	NR	520	642	NR	650	519	NR	780	18	NR	910	0	NR
395	2	NR	525	661	NR	655	484	NR	785	15	NR	915	0	NR
400	4	NR	530	681	NR	660	448	NR	790	13	NR	920	0	NR
405	7	NR	535	695	NR	665	411	NR	795	11	NR	925	0	NR
410	12	NR	540	702	NR	670	373	NR	800	10	NR	930	0	NR
415	21	NR	545	708	NR	675	338	NR	805	8	NR	935	0	NR
420	39	NR	550	707	NR	680	305	NR	810	7	NR	940	0	NR
425	74	NR	555	706	NR	685	272	NR	815	6	NR	945	0	NR
430	139	NR	560	700	NR	690	243	NR	820	5	NR	950	0	NR
435	270	NR	565	696	NR	695	214	NR	825	5	NR	955	0	NR
440	517	NR	570	692	NR	700	188	NR	830	4	NR	960	0	NR
445	877	NR	575	689	NR	705	165	NR	835	3	NR	965	0	NR
450	978	NR	580	688	NR	710	144	NR	840	3	NR	970	0	NR
455	738	NR	585	688	NR	715	125	NR	845	3	NR	975	0	NR
460	618	NR	590	689	NR	720	110	NR	850	2	NR	980	0	NR
465	529	NR	595	690	NR	725	95	NR	855	2	NR	985	0	NR
470	420	NR	600	690	NR	730	82	NR	860	2	NR	990	0	NR
475	395	NR	605	688	NR	735	71	NR	865	1	NR	995	0	NR
480	408	NR	610	685	NR	740	61	NR	870	1	NR	1000	0	NR
485	429	NR	615	678	NR	745	52	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 4.22

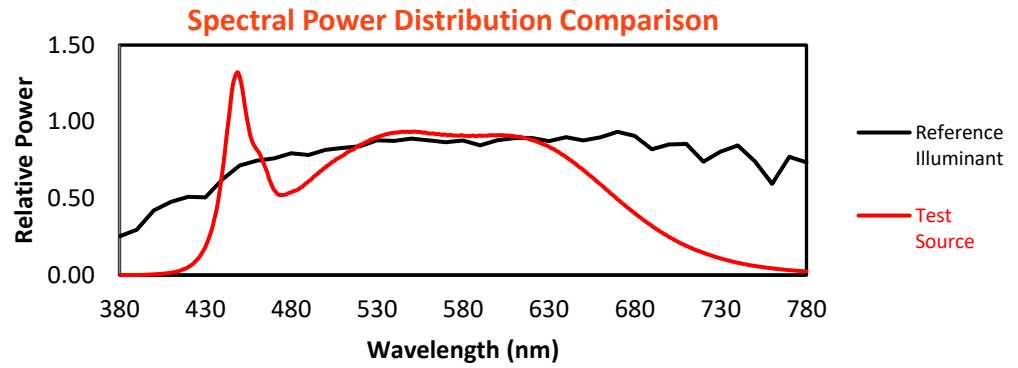
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	462	NR	620	668	NR	750	45	NR	880	1	NR
365	0	NR	495	498	NR	625	652	NR	755	39	NR	885	1	NR
370	0	NR	500	533	NR	630	634	NR	760	33	NR	890	1	NR
375	0	NR	505	562	NR	635	610	NR	765	28	NR	895	1	NR
380	0	NR	510	590	NR	640	583	NR	770	24	NR	900	1	NR
385	0	NR	515	617	NR	645	552	NR	775	21	NR	905	1	NR
390	0	NR	520	642	NR	650	519	NR	780	18	NR	910	0	NR
395	2	NR	525	661	NR	655	484	NR	785	15	NR	915	0	NR
400	4	NR	530	681	NR	660	448	NR	790	13	NR	920	0	NR
405	7	NR	535	695	NR	665	411	NR	795	11	NR	925	0	NR
410	12	NR	540	702	NR	670	373	NR	800	10	NR	930	0	NR
415	21	NR	545	708	NR	675	338	NR	805	8	NR	935	0	NR
420	39	NR	550	707	NR	680	305	NR	810	7	NR	940	0	NR
425	74	NR	555	706	NR	685	272	NR	815	6	NR	945	0	NR
430	139	NR	560	700	NR	690	243	NR	820	5	NR	950	0	NR
435	270	NR	565	696	NR	695	214	NR	825	5	NR	955	0	NR
440	517	NR	570	692	NR	700	188	NR	830	4	NR	960	0	NR
445	877	NR	575	689	NR	705	165	NR	835	3	NR	965	0	NR
450	978	NR	580	688	NR	710	144	NR	840	3	NR	970	0	NR
455	738	NR	585	688	NR	715	125	NR	845	3	NR	975	0	NR
460	618	NR	590	689	NR	720	110	NR	850	2	NR	980	0	NR
465	529	NR	595	690	NR	725	95	NR	855	2	NR	985	0	NR
470	420	NR	600	690	NR	730	82	NR	860	2	NR	990	0	NR
475	395	NR	605	688	NR	735	71	NR	865	1	NR	995	0	NR
480	408	NR	610	685	NR	740	61	NR	870	1	NR	1000	0	NR
485	429	NR	615	678	NR	745	52	NR	875	1	NR			

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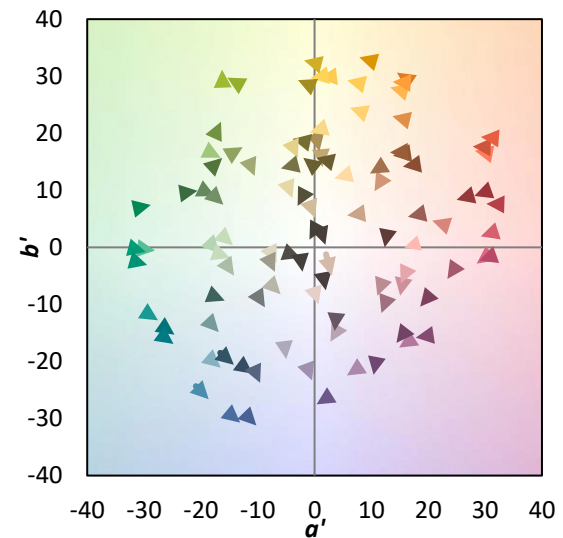
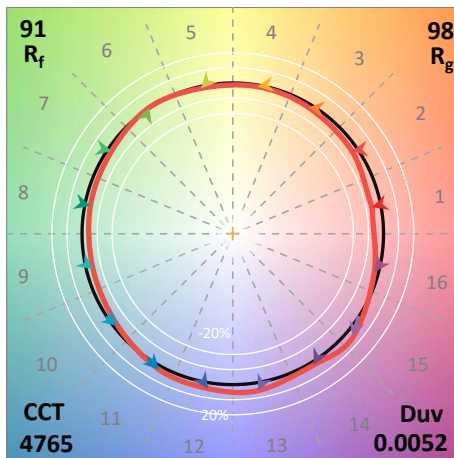
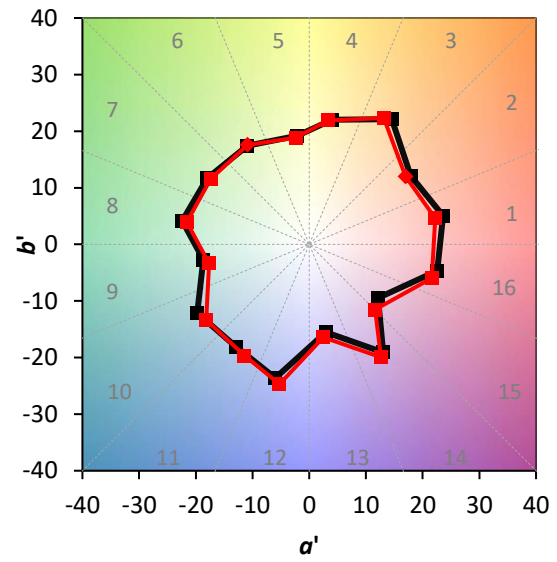
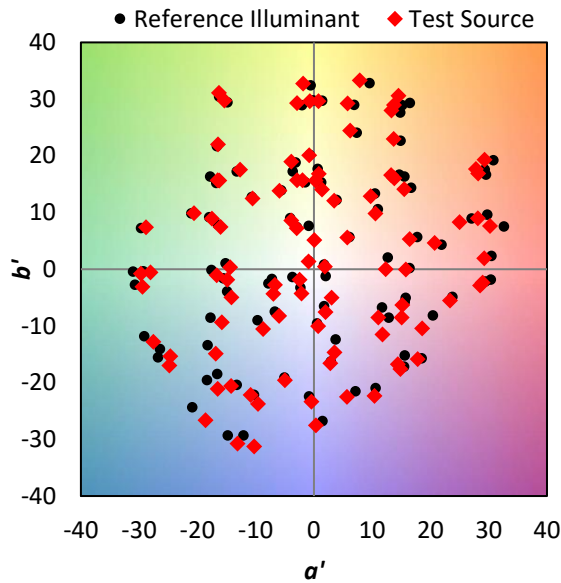
TM-30-18

Summary

$R_f = 90.7$
 $R_g = 98$
 CIE $R_a = 90.8$
 $R_9 = 54.9$

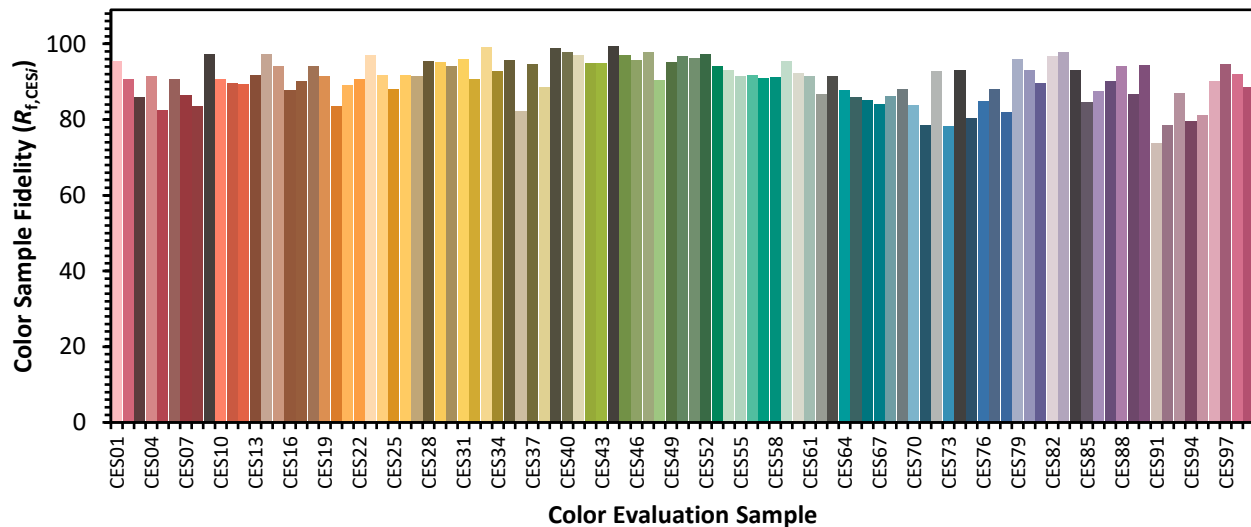


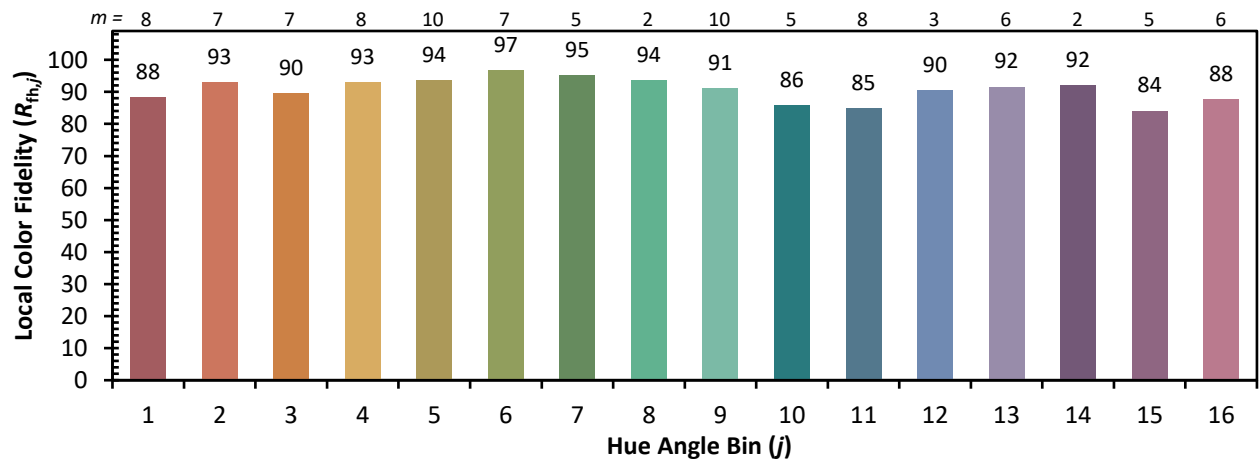
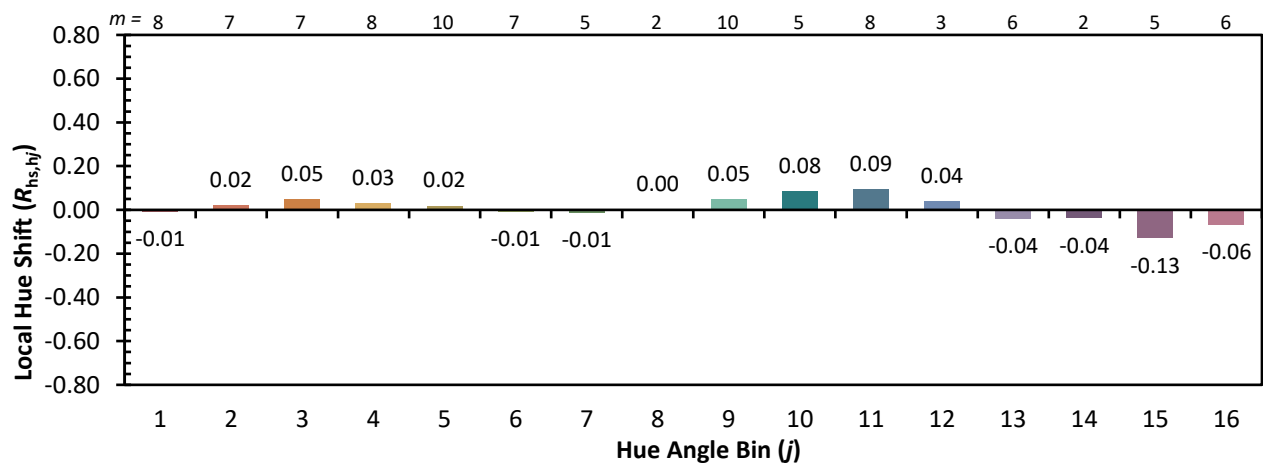
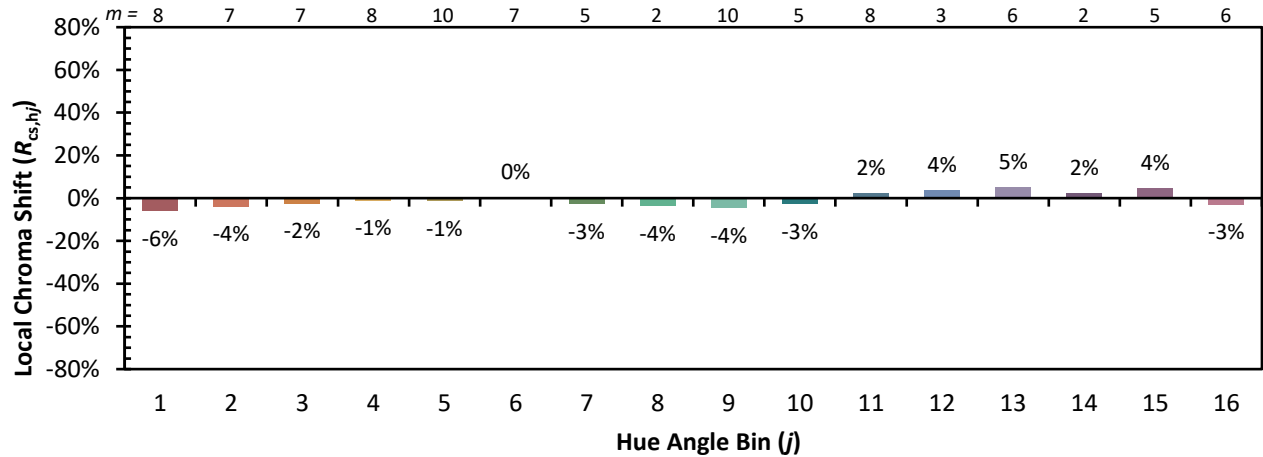
Color Vector Graphics



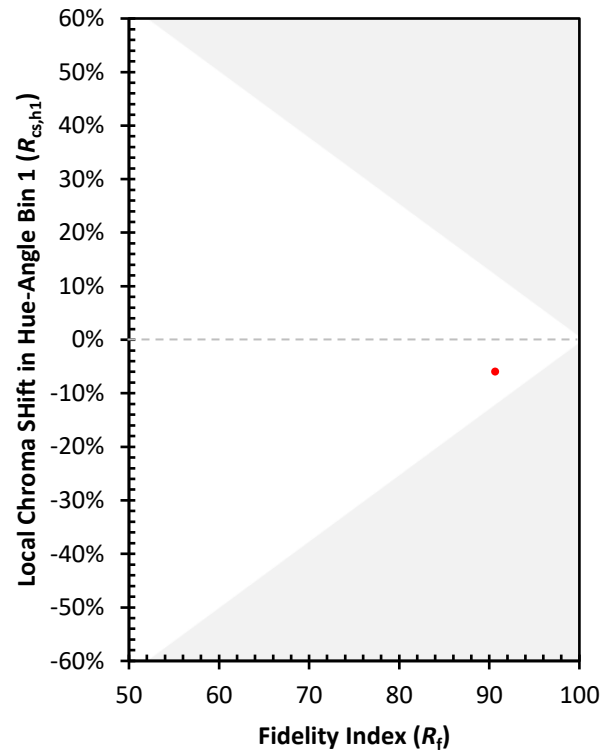
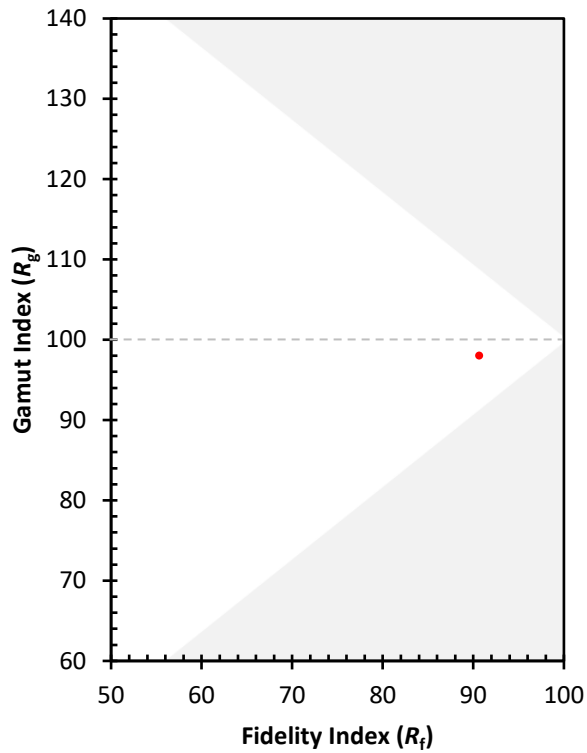
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 92	CES51 = 96	CES76 = 85
CES02 = 60	CES27 = 92	CES52 = 97	CES77 = 88
CES03 = 31	CES28 = 95	CES53 = 94	CES78 = 82
CES04 = 69	CES29 = 95	CES54 = 93	CES79 = 96
CES05 = 48	CES30 = 94	CES55 = 92	CES80 = 93
CES06 = 50	CES31 = 96	CES56 = 92	CES81 = 89
CES07 = 41	CES32 = 91	CES57 = 91	CES82 = 97
CES08 = 40	CES33 = 99	CES58 = 91	CES83 = 98
CES09 = 29	CES34 = 93	CES59 = 95	CES84 = 93
CES10 = 73	CES35 = 96	CES60 = 92	CES85 = 85
CES11 = 56	CES36 = 82	CES61 = 92	CES86 = 88
CES12 = 62	CES37 = 95	CES62 = 87	CES87 = 90
CES13 = 42	CES38 = 89	CES63 = 91	CES88 = 94
CES14 = 74	CES39 = 99	CES64 = 88	CES89 = 87
CES15 = 71	CES40 = 98	CES65 = 86	CES90 = 94
CES16 = 46	CES41 = 97	CES66 = 85	CES91 = 74
CES17 = 48	CES42 = 95	CES67 = 84	CES92 = 78
CES18 = 56	CES43 = 95	CES68 = 86	CES93 = 87
CES19 = 70	CES44 = 100	CES69 = 88	CES94 = 80
CES20 = 65	CES45 = 97	CES70 = 84	CES95 = 81
CES21 = 85	CES46 = 96	CES71 = 79	CES96 = 90
CES22 = 77	CES47 = 98	CES72 = 93	CES97 = 95
CES23 = 91	CES48 = 90	CES73 = 78	CES98 = 92
CES24 = 90	CES49 = 95	CES74 = 93	CES99 = 88
CES25 = 70	CES50 = 97	CES75 = 80	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)