

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: P1067402

Luminaire Tested: **NAV-SA4B-740-U-T4BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067402
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA4B-740-U-T4BC
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 4xLight Square PACKAGE
70CRI 4000K FIXTURE w/ TYPE IV ANGLED BACKLIGHT CONTROL
Light Source: (56) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17582.2 lumens
Efficiency: N/A
Efficacy: 122.0 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): 144.1
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

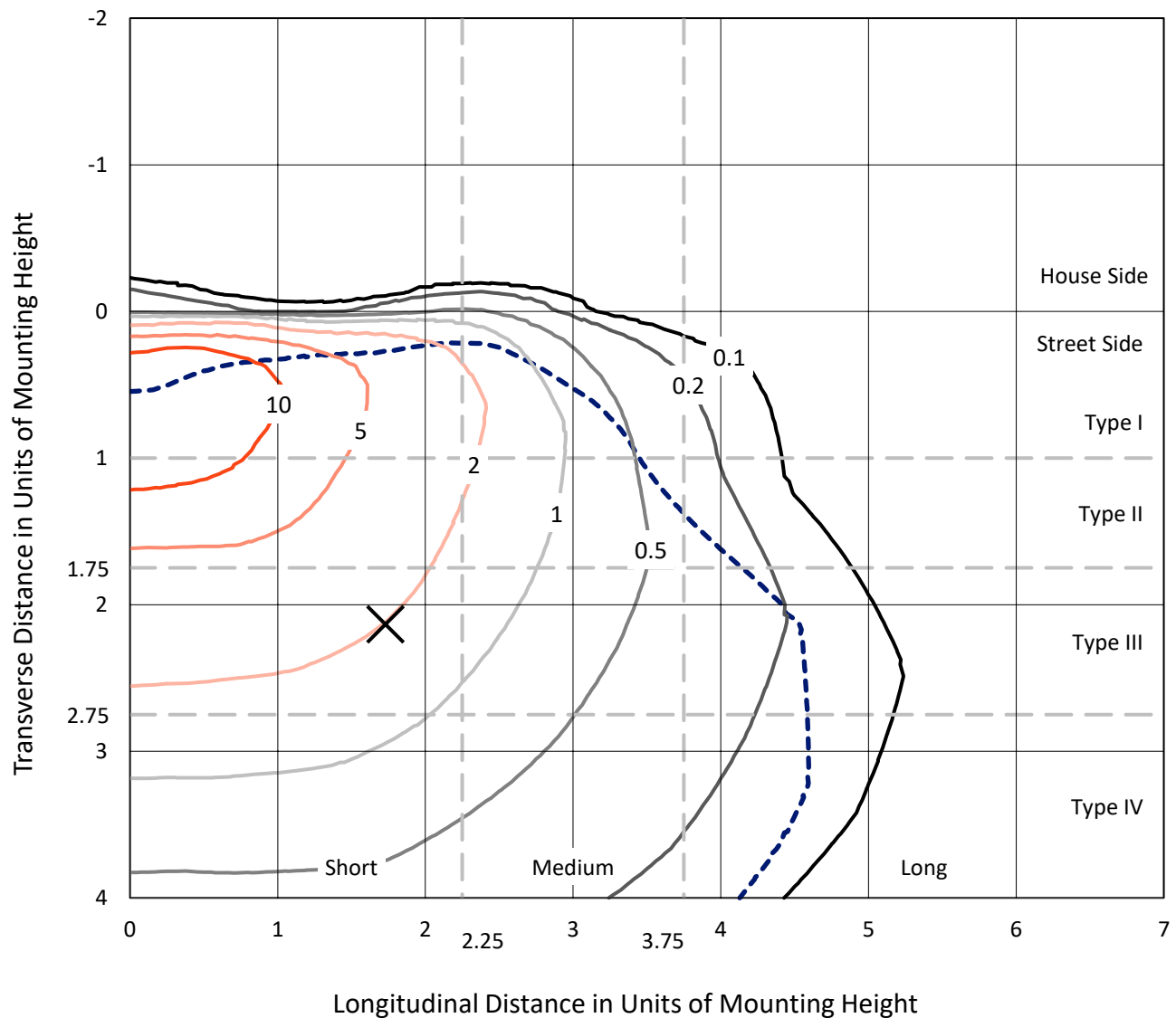


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

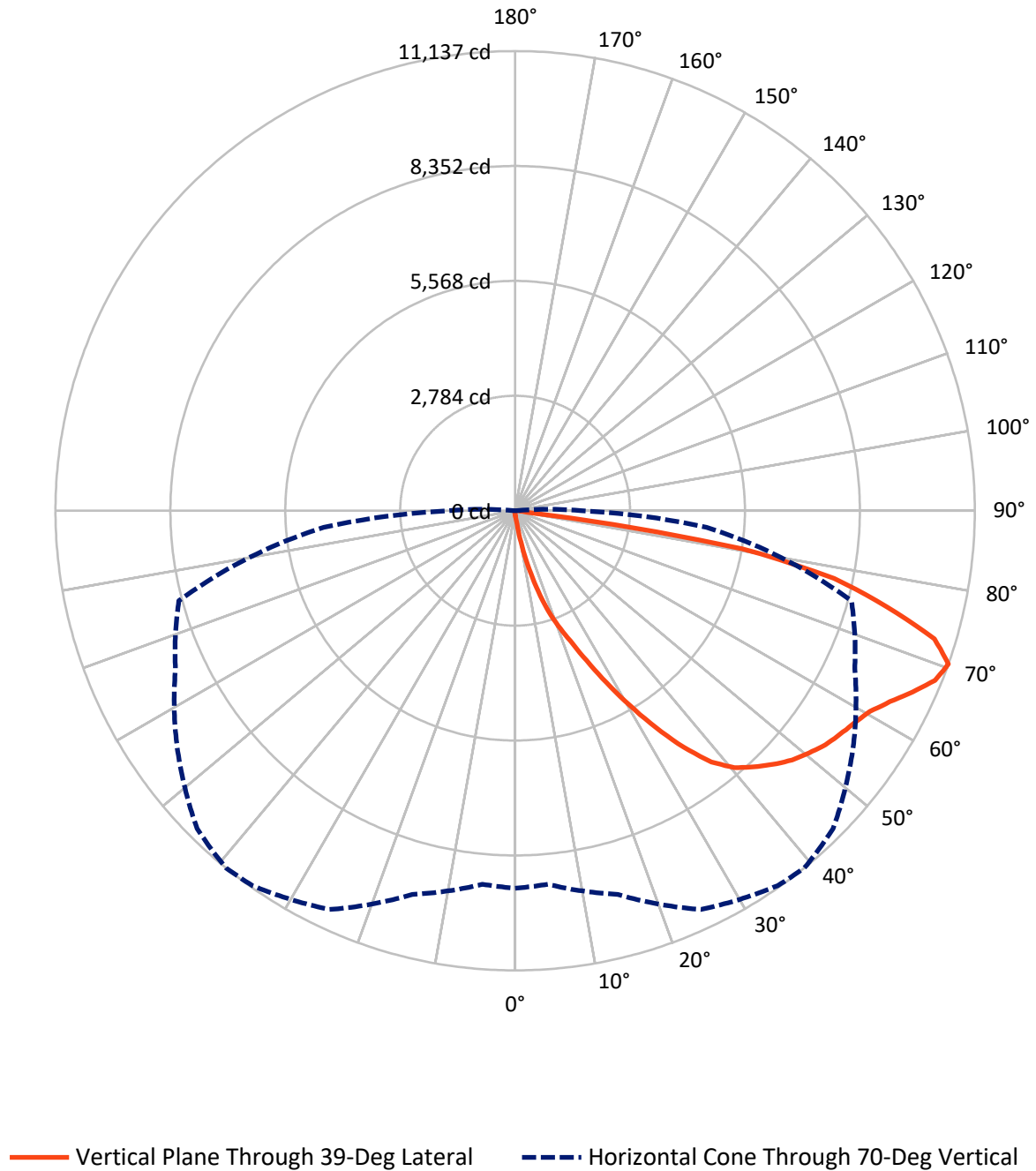


Based on 15 foot mounting height. Maximum calculated value = 19.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	54.1	0.0	54.1
	% Fixture	0.3	0.0	0.3
Street Side	Lumens	17528.1	0.0	17528.1
	% Fixture	99.7	0.0	99.7
Total	Lumens	17582.2	0.0	17582.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.5	0.1
10°-20°	216.2	1.2
20°-30°	733.5	4.2
30°-40°	1723.9	9.8
40°-50°	2799.2	15.9
50°-60°	3547.2	20.2
60°-70°	4505.8	25.6
70°-80°	3661.0	20.8
80°-90°	377.0	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°	17582.2	100.0
0°-180°	17582.2	100.0



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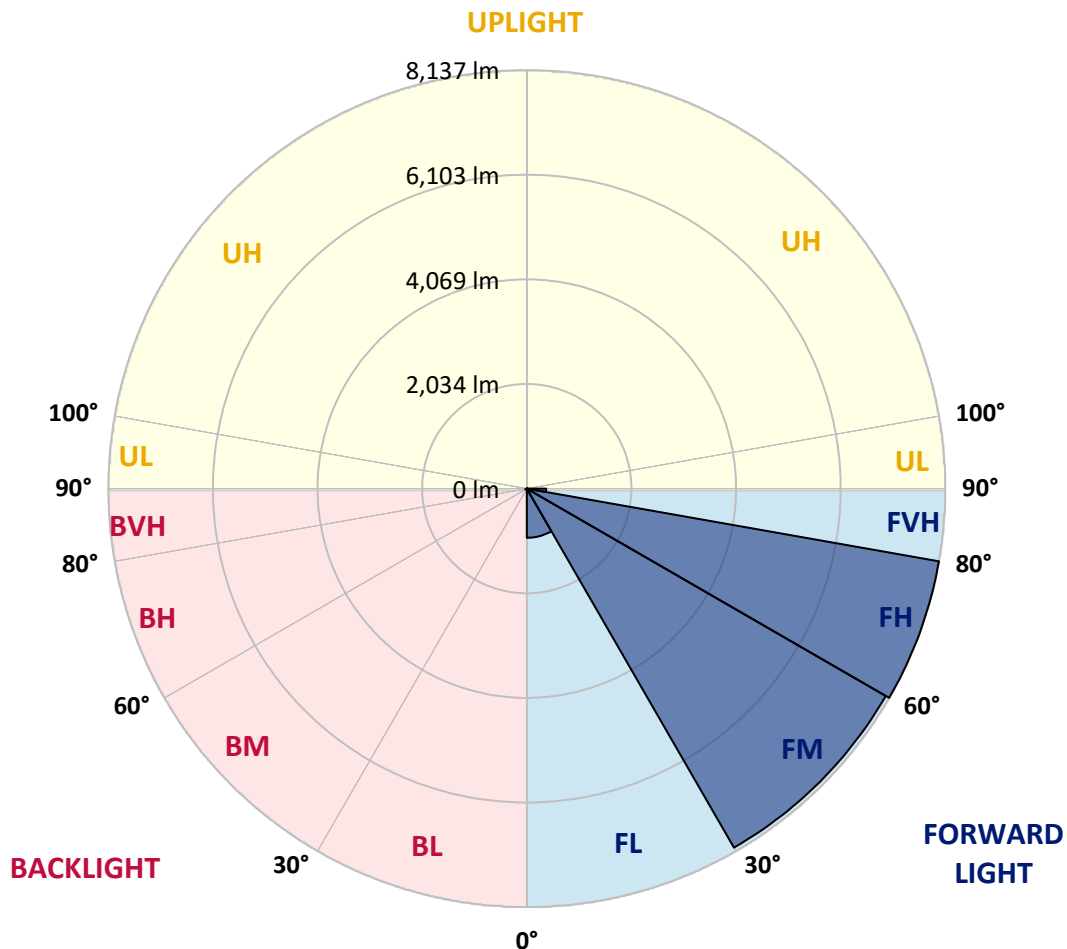
CATALOG NUMBER: NAV-SA4B-740-U-T4BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	956.4	5.4			
FM	(30°-60°)	8059.9	45.8			
FH	(60°-80°)	8137.1	46.3			G4/12000
FVH	(80°-90°)	374.7	2.1			G3/500
BL	(0°-30°)	11.7	0.1	B0/110		
BM	(30°-60°)	10.4	0.1	B0/220		
BH	(60°-80°)	29.8	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-G4

Type IV Short



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CATALOG NUMBER: NAV-SA4B-740-U-T4BC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
2.5°	124.1	124.1	124.1	119.3	119.3	114.6	114.6	109.8	105.0	105.0	100.2
5°	233.9	238.7	224.4	195.7	176.6	167.1	157.5	133.7	119.3	109.8	100.2
7.5°	639.7	620.6	591.9	496.4	381.9	324.6	276.9	195.7	143.2	114.6	100.2
10°	1346.1	1293.6	1212.5	1083.6	859.2	768.5	596.7	358.0	200.5	128.9	100.2
12.5°	1976.2	1985.8	1885.5	1761.4	1489.3	1336.6	1102.7	673.1	315.1	152.8	100.2
15°	2453.6	2444.0	2405.8	2305.6	2062.2	1914.2	1704.1	1131.3	529.9	190.9	105.0
17.5°	2830.7	2792.5	2778.2	2735.2	2577.7	2496.5	2267.4	1666.0	840.1	257.8	109.8
20°	3207.8	3198.3	3183.9	3136.2	3031.2	2973.9	2797.3	2205.4	1250.7	367.6	119.3
22.5°	3756.8	3704.2	3713.8	3608.8	3522.9	3422.6	3279.4	2778.2	1723.2	525.1	133.7
25°	4401.2	4396.4	4320.0	4272.3	4129.1	4019.3	3828.4	3331.9	2248.3	759.0	148.0
27.5°	5160.2	5107.7	5074.2	4993.1	4845.1	4721.0	4458.5	3880.9	2816.4	1021.5	167.1
30°	5952.6	5952.6	5890.5	5766.4	5623.2	5470.4	5203.1	4458.5	3379.6	1355.7	190.9
32.5°	6878.6	6897.7	6745.0	6558.8	6372.6	6267.6	5919.2	5112.4	3919.1	1737.6	219.6
35°	7776.0	7752.2	7499.2	7293.9	7155.5	7040.9	6745.0	5828.5	4530.1	2181.5	257.8
37.5°	8635.3	8573.2	8153.2	7862.0	7799.9	7723.5	7427.6	6544.5	5136.3	2673.2	305.5
40°	9251.1	9155.6	8721.2	8320.2	8229.5	8186.6	7957.4	7193.7	5775.9	3222.1	367.6
42.5°	9518.4	9408.6	9107.9	8783.3	8582.8	8482.5	8282.0	7723.5	6415.6	3833.1	458.3
45°	9570.9	9485.0	9270.2	9193.8	8921.7	8768.9	8496.8	8100.6	7012.3	4439.4	582.4
47.5°	9379.9	9341.8	9212.9	9375.2	9236.7	9026.7	8697.3	8382.3	7542.1	5174.5	754.2
50°	8912.1	8883.5	8945.6	9370.4	9465.9	9227.2	8916.9	8601.9	8000.4	5933.5	997.7
52.5°	8282.0	8277.3	8568.5	9246.3	9566.1	9418.1	9131.7	8821.4	8363.2	6668.6	1341.4
55°	7594.7	7675.8	8186.6	9131.7	9623.4	9556.6	9341.8	9017.2	8687.8	7351.2	1895.1
57.5°	7537.4	7504.0	7995.6	9084.0	9656.8	9695.0	9551.8	9222.4	8964.7	7909.7	2635.0
60°	8110.2	8033.8	8220.0	9184.2	9804.8	9871.6	9761.8	9379.9	9241.5	8348.9	3608.8
62.5°	8773.7	8702.1	8797.6	9570.9	10096.0	10191.4	10053.0	9542.2	9465.9	8654.4	4654.2
65°	9303.6	9246.3	9427.7	10148.5	10501.7	10582.9	10487.4	9843.0	9566.1	8902.6	5503.9
67.5°	9389.5	9317.9	9695.0	10535.1	10912.2	10969.5	10893.2	10134.2	9532.7	8921.7	5699.6
70°	9146.0	9084.0	9623.4	10659.2	11088.9	11136.6	10893.2	9995.7	9079.2	8434.8	4658.9
72.5°	8396.6	8444.3	9141.3	10358.5	10845.4	10625.8	10110.3	9298.8	8492.1	7150.7	3269.9
75°	7231.9	7284.4	8210.4	9532.7	9570.9	9303.6	9026.7	8554.1	7599.4	4711.5	2267.4
77.5°	5141.1	4954.9	6339.2	7871.5	7733.1	7904.9	7928.8	7117.3	6363.1	2453.6	1518.0
80°	506.0	429.6	797.2	2257.9	4988.3	5575.5	5804.6	5484.8	4692.4	1097.9	797.2
82.5°	109.8	109.8	119.3	128.9	200.5	300.7	1379.5	3379.6	3031.2	558.5	257.8
85°	62.1	62.1	76.4	90.7	119.3	133.7	157.5	210.0	816.3	200.5	47.7
87.5°	47.7	52.5	62.1	76.4	100.2	109.8	133.7	167.1	205.3	186.2	14.3
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
2.5°	100.2	95.5	90.7	85.9	81.1	81.1	76.4	76.4	76.4	76.4	76.4
5°	95.5	90.7	85.9	76.4	71.6	66.8	62.1	62.1	62.1	62.1	62.1
7.5°	95.5	90.7	81.1	71.6	62.1	57.3	52.5	47.7	47.7	52.5	52.5
10°	95.5	85.9	71.6	62.1	52.5	47.7	43.0	38.2	38.2	38.2	38.2
12.5°	90.7	81.1	66.8	57.3	47.7	38.2	28.6	23.9	23.9	23.9	23.9
15°	85.9	76.4	62.1	47.7	33.4	23.9	19.1	14.3	14.3	14.3	14.3
17.5°	85.9	71.6	57.3	43.0	23.9	14.3	9.5	4.8	4.8	4.8	9.5
20°	85.9	71.6	52.5	33.4	14.3	9.5	9.5	4.8	0.0	4.8	4.8
22.5°	85.9	66.8	43.0	23.9	14.3	9.5	4.8	0.0	0.0	0.0	0.0
25°	90.7	66.8	38.2	19.1	9.5	4.8	0.0	0.0	0.0	0.0	0.0
27.5°	90.7	62.1	33.4	14.3	4.8	0.0	0.0	0.0	0.0	0.0	0.0
30°	95.5	62.1	28.6	9.5	4.8	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	95.5	57.3	19.1	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	95.5	52.5	14.3	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	95.5	47.7	14.3	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	100.2	43.0	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	105.0	38.2	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	109.8	33.4	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	124.1	33.4	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	143.2	33.4	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	171.8	33.4	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	224.4	28.6	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	324.6	28.6	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	544.2	28.6	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	954.7	28.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	1613.4	28.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2105.1	33.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1599.1	28.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	763.8	19.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	338.9	19.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	148.0	14.3	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	57.3	9.5	4.8	4.8	4.8	4.8	0.0	0.0	0.0	0.0	0.0
82.5°	23.9	9.5	4.8	4.8	4.8	4.8	4.8	0.0	0.0	0.0	0.0
85°	14.3	9.5	9.5	9.5	4.8	4.8	4.8	0.0	0.0	0.0	0.0
87.5°	9.5	9.5	9.5	9.5	9.5	4.8	4.8	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: SP1-2407-184-1

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-740-U-5WQ

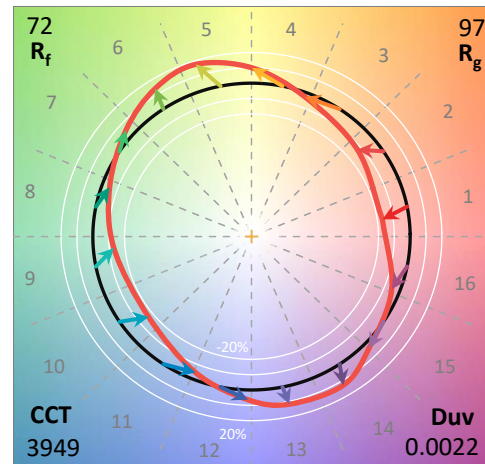
Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-1
 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-740-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 4000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3949	CRI (Ra):	70.7		
CIE u':	0.2248	R1:	68.0	R9:	-36.7
CIE v':	0.5053	R2:	76.0	R10:	45.1
Duv:	0.0022	R3:	84.3	R11:	70.7
CIE x:	0.3844	R4:	72.0	R12:	47.1
CIE y:	0.3840	R5:	68.6	R13:	68.5
CIE z:	0.2316	R6:	68.3	R14:	91.1
Peak Wavelength (nm):	440	R7:	77.9	R15:	58.7
Dominant Wavelength (nm):	578	R8:	50.3		
Purity:	30.60026				
Rf:	71.8				
Rg:	96.5				



Test Conditions

Stabilization Time: 34M
 Operation Time: 1H 34M
 Sphere Temperature (°C): 25.2

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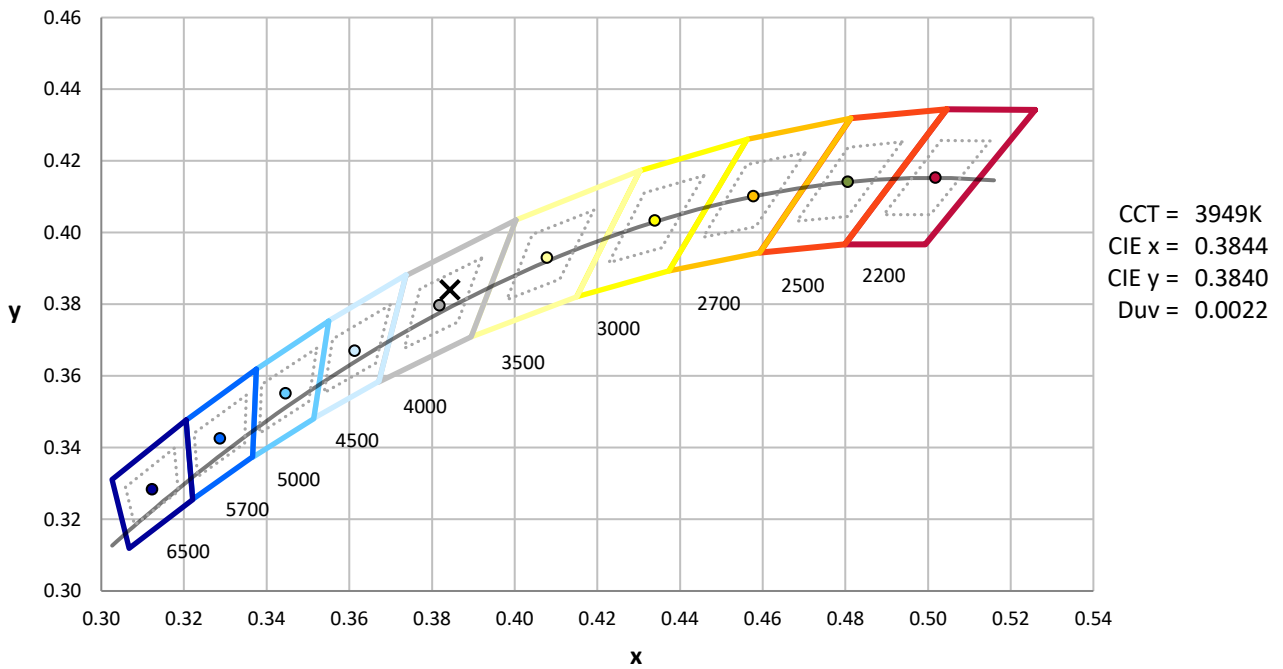
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	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 4000K 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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.47

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

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Melanopic Flux vs. Wavelength

Melanopic Lumens: NR
M/P: 2.78

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

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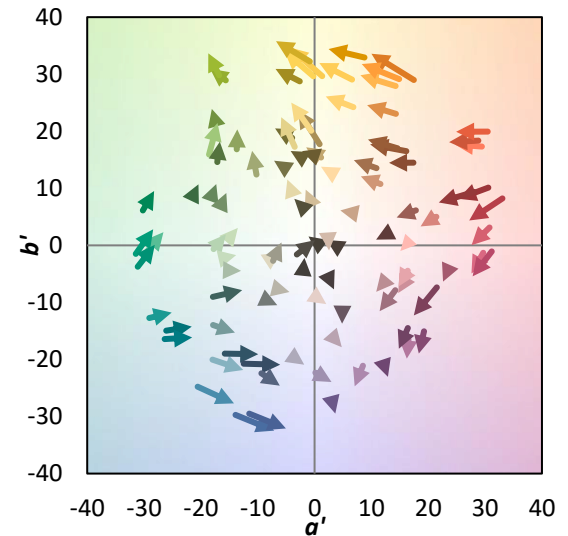
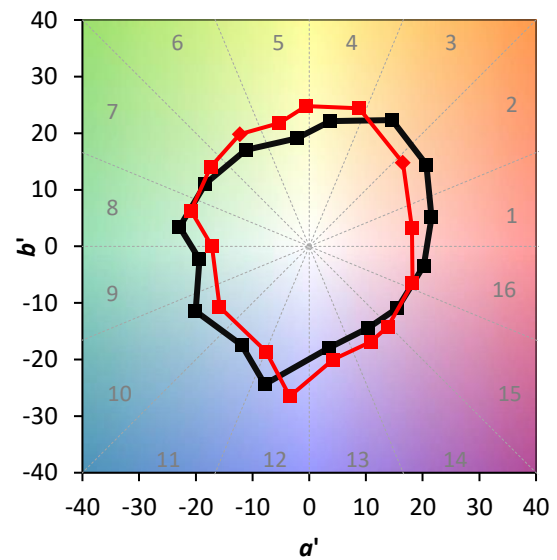
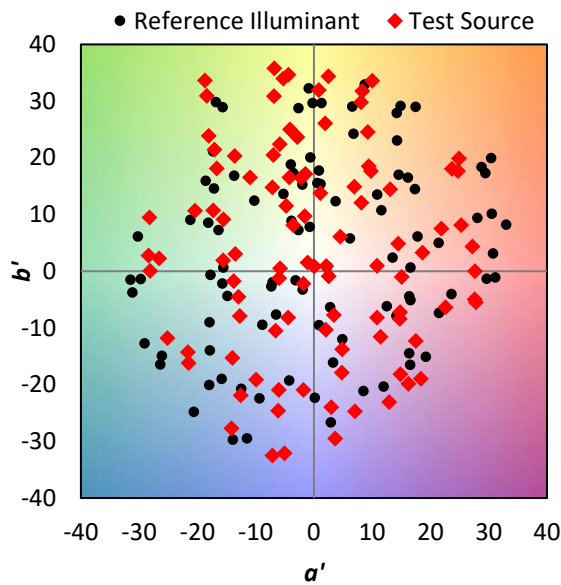
TM-30-18

Summary

$R_f = 71.8$
 $R_g = 96.5$
 $CIE R_a = 70.7$
 $R_g = -36.7$

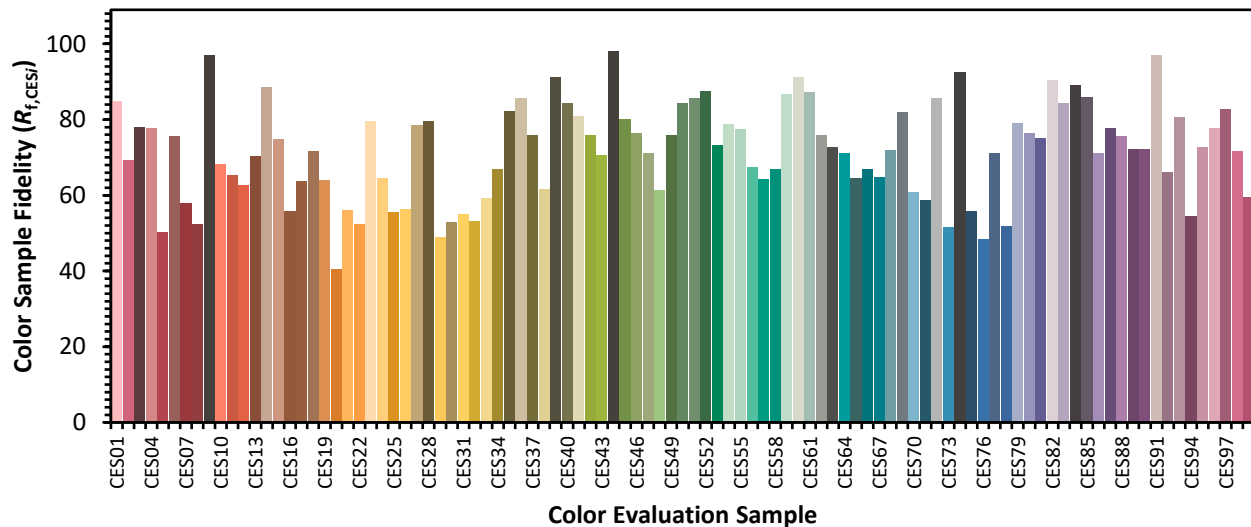


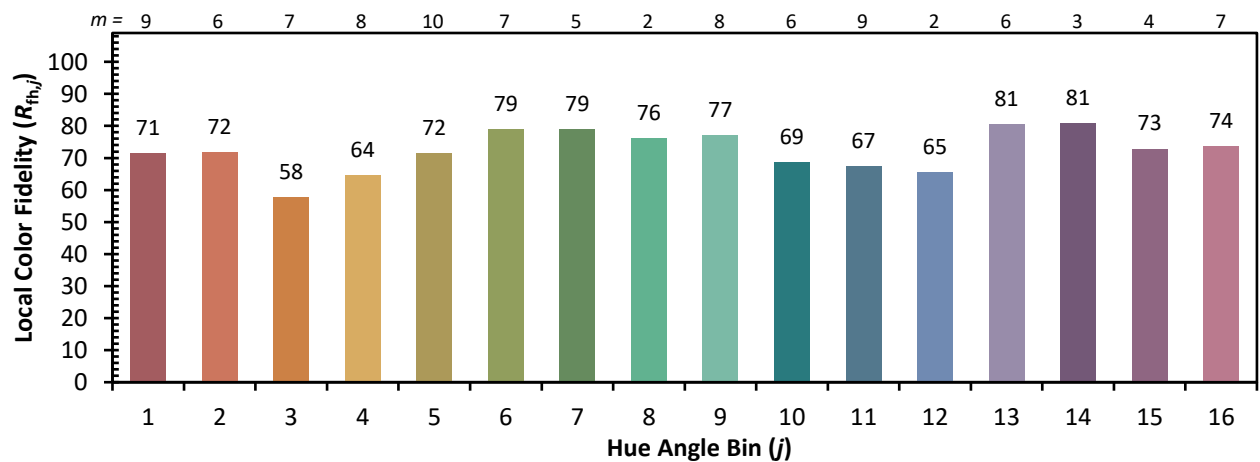
Color Vector Graphics



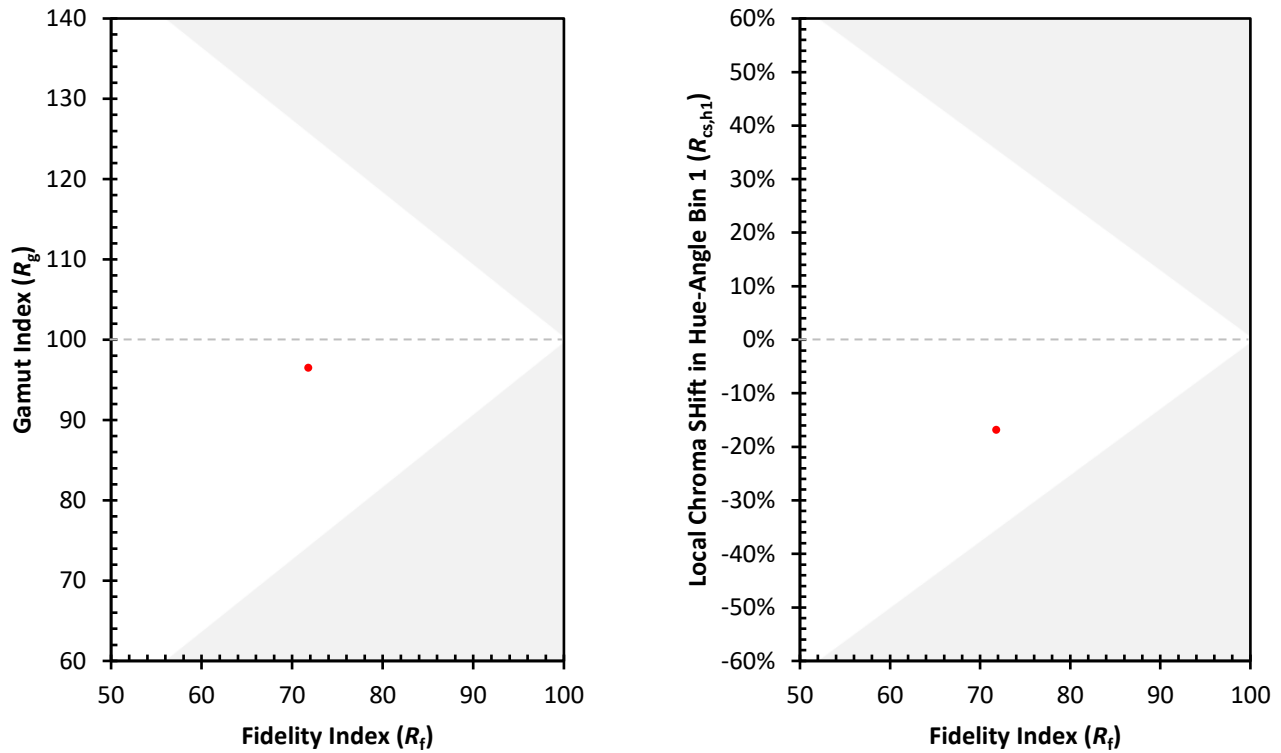
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 56	CES51 = 86	CES76 = 48
CES02 = 61	CES27 = 79	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 80	CES53 = 73	CES78 = 52
CES04 = 70	CES29 = 49	CES54 = 79	CES79 = 79
CES05 = 47	CES30 = 53	CES55 = 77	CES80 = 77
CES06 = 50	CES31 = 55	CES56 = 67	CES81 = 75
CES07 = 40	CES32 = 53	CES57 = 64	CES82 = 90
CES08 = 39	CES33 = 59	CES58 = 67	CES83 = 84
CES09 = 29	CES34 = 67	CES59 = 87	CES84 = 89
CES10 = 74	CES35 = 82	CES60 = 91	CES85 = 86
CES11 = 57	CES36 = 86	CES61 = 87	CES86 = 71
CES12 = 63	CES37 = 76	CES62 = 76	CES87 = 78
CES13 = 42	CES38 = 62	CES63 = 73	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 71	CES89 = 72
CES15 = 71	CES40 = 84	CES65 = 64	CES90 = 72
CES16 = 46	CES41 = 81	CES66 = 67	CES91 = 97
CES17 = 49	CES42 = 76	CES67 = 65	CES92 = 66
CES18 = 56	CES43 = 71	CES68 = 72	CES93 = 81
CES19 = 72	CES44 = 98	CES69 = 82	CES94 = 55
CES20 = 65	CES45 = 80	CES70 = 61	CES95 = 73
CES21 = 86	CES46 = 76	CES71 = 59	CES96 = 78
CES22 = 78	CES47 = 71	CES72 = 86	CES97 = 83
CES23 = 92	CES48 = 61	CES73 = 52	CES98 = 72
CES24 = 91	CES49 = 76	CES74 = 93	CES99 = 60
CES25 = 72	CES50 = 84	CES75 = 56	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)