

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: P1067161

Luminaire Tested: **NAV-SA4A-740-U-T2BC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067161
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA4A-740-U-T2BC
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 4xLight Square PACKAGE
70CRI 4000K FIXTURE w/ TYPE II ANGLED BACKLIGHT CONTROL
Light Source: (56) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13938.9 lumens
Efficiency: N/A
Efficacy: 129.8 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

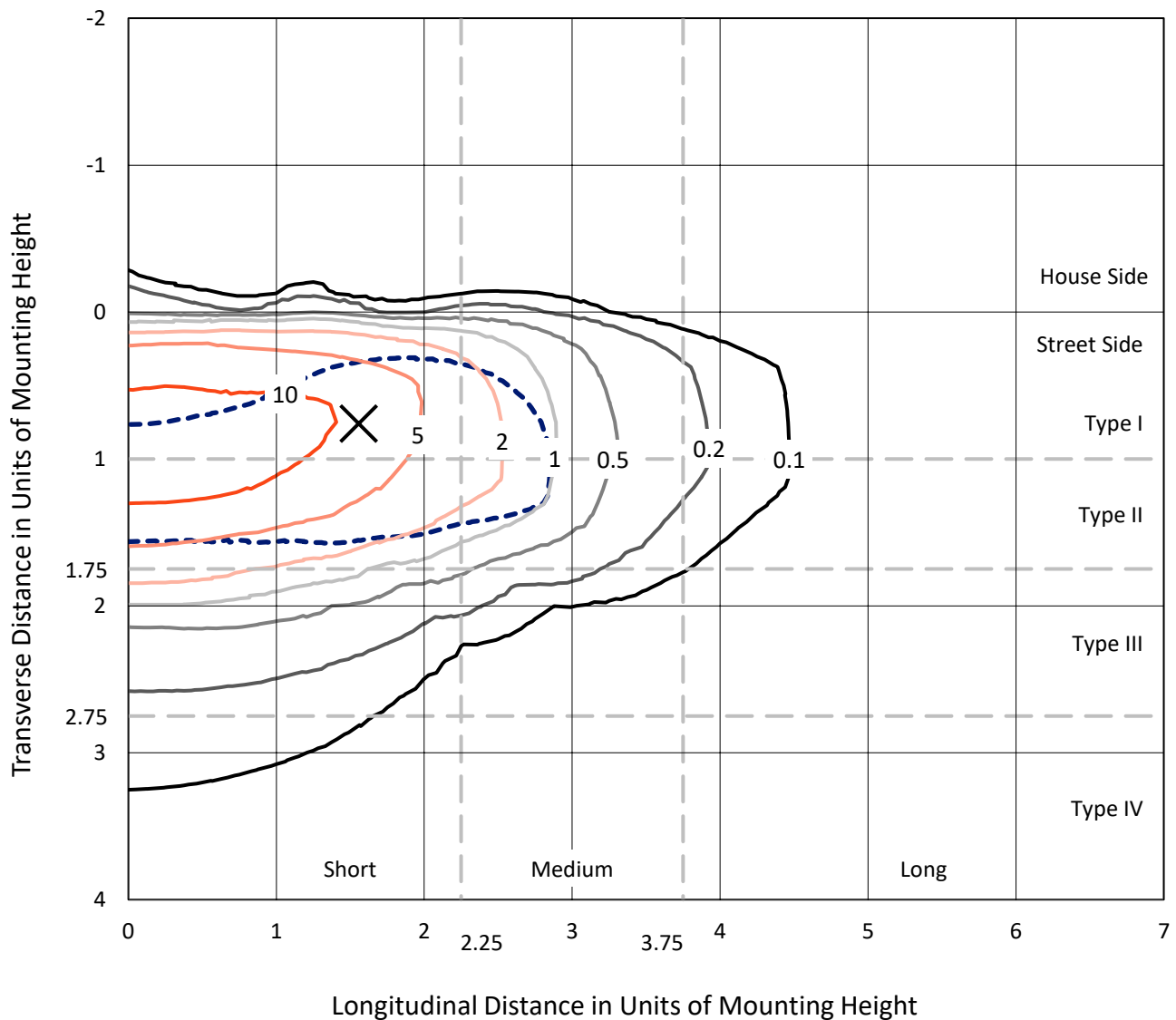


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

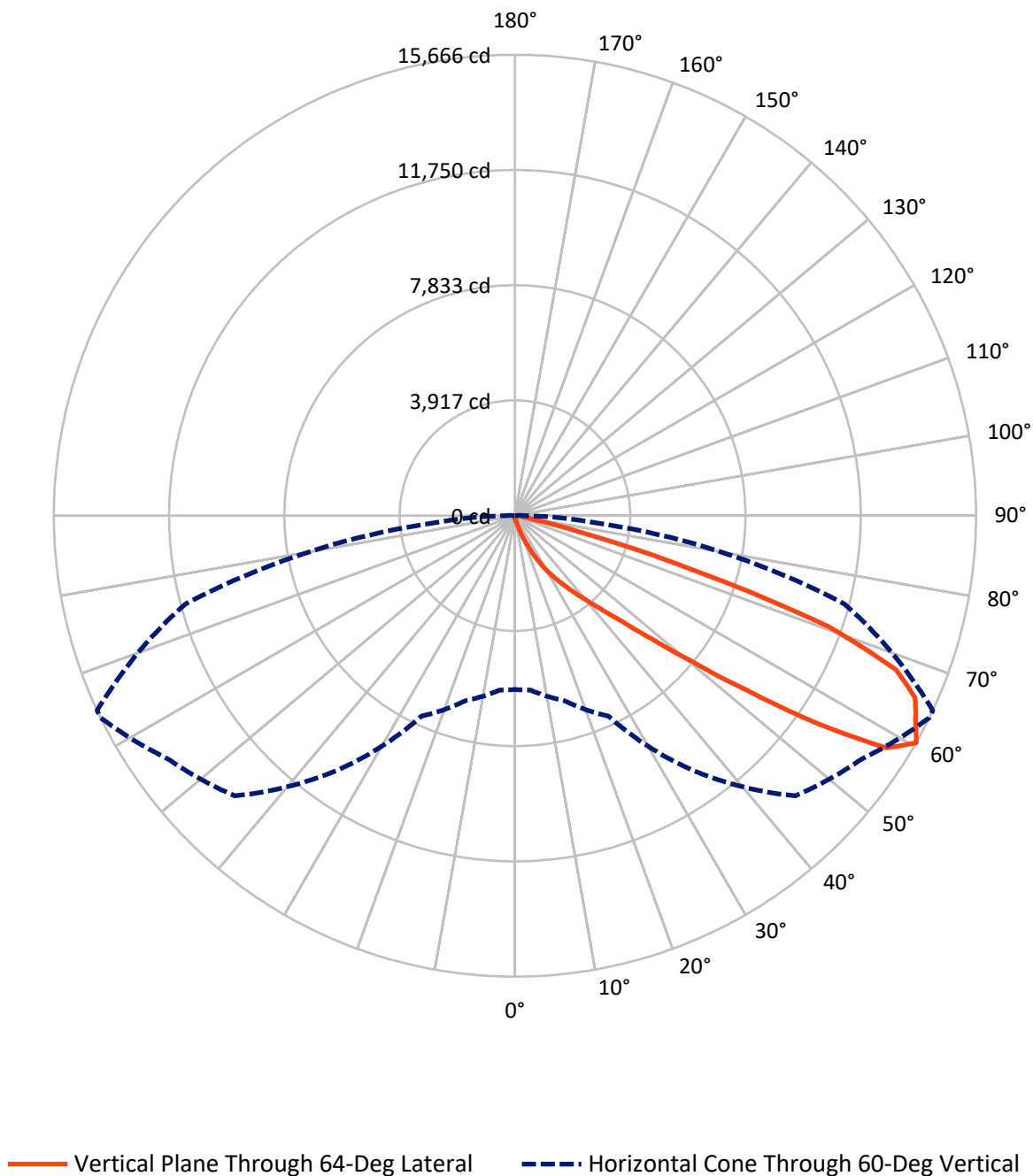


Based on 15 foot mounting height. Maximum calculated value = 20 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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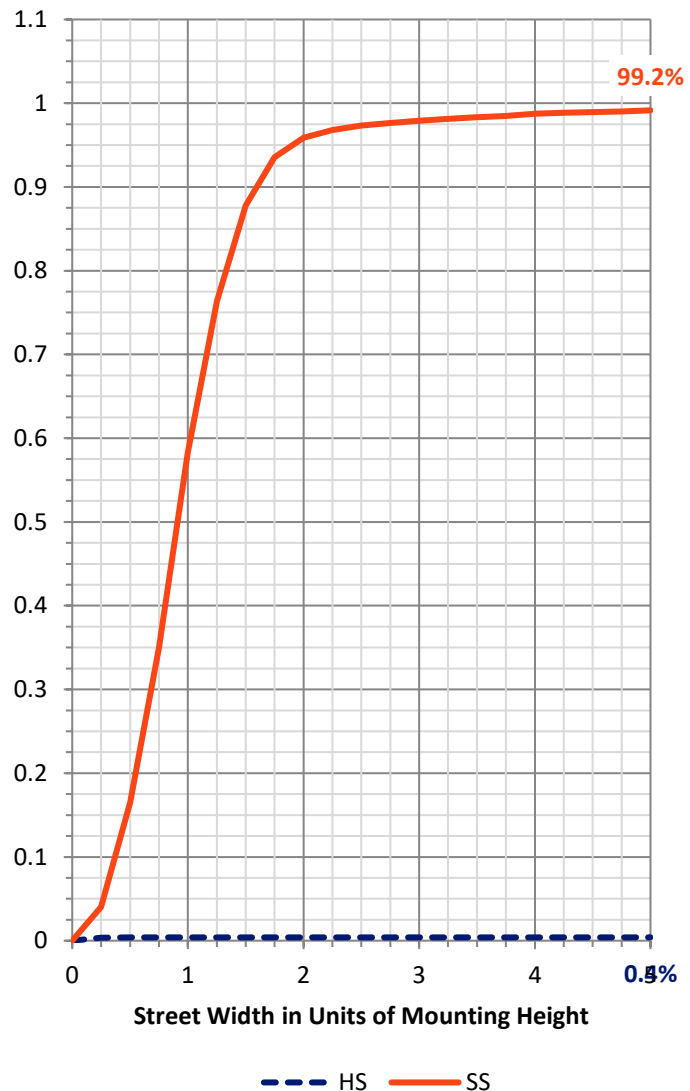
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	56.5	0.0	56.5
	% Fixture	0.4	0.0	0.4
Street Side	Lumens	13882.4	0.0	13882.4
	% Fixture	99.6	0.0	99.6
Total	Lumens	13938.9	0.0	13938.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.9	0.1
10°-20°	137.0	1.0
20°-30°	454.9	3.3
30°-40°	1213.9	8.7
40°-50°	3085.4	22.1
50°-60°	4497.9	32.3
60°-70°	3474.2	24.9
70°-80°	954.1	6.8
80°-90°	107.7	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°	13938.9	100.0
0°-180°	13938.9	100.0



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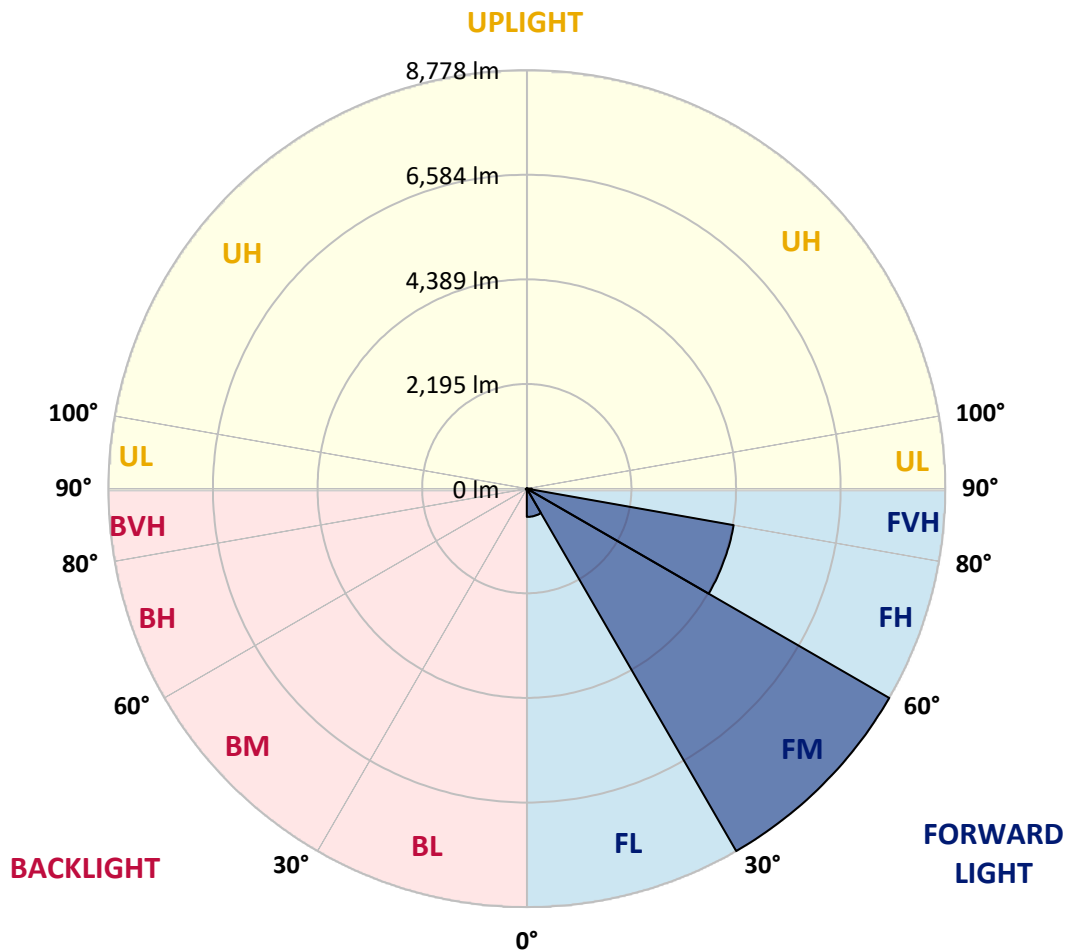
CATALOG NUMBER: NAV-SA4A-740-U-T2BC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	593.1	4.3			
FM	(30°-60°)	8778.5	63.0			
FH	(60°-80°)	4405.7	31.6			G2/5000
FVH	(80°-90°)	105.1	0.8			G2/225
BL	(0°-30°)	12.7	0.1	B0/110		
BM	(30°-60°)	18.7	0.1	B0/220		
BH	(60°-80°)	22.5	0.2	B0/110		G0/110
BVH	(80°-90°)	2.5	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
2.5°	122.8	122.8	122.8	118.9	115.1	115.1	111.3	107.4	107.4	99.8	95.9
5°	188.0	188.0	180.3	172.7	161.1	145.8	130.5	118.9	118.9	107.4	99.8
7.5°	368.3	379.9	345.3	303.1	245.6	207.2	165.0	138.1	134.3	115.1	99.8
10°	798.1	790.4	736.7	633.1	498.8	360.7	230.2	168.8	161.1	122.8	99.8
12.5°	1200.9	1212.5	1154.9	1039.8	878.6	640.8	395.2	218.7	211.0	134.3	99.8
15°	1546.3	1546.3	1507.9	1450.3	1273.8	1024.4	636.9	326.1	299.3	145.8	95.9
17.5°	1784.2	1780.3	1765.0	1749.6	1646.0	1389.0	974.6	521.8	460.4	172.7	95.9
20°	2052.7	2041.2	2060.4	2029.7	1949.1	1745.8	1331.4	775.1	717.5	218.7	95.9
22.5°	2332.8	2344.3	2359.7	2329.0	2240.7	2064.2	1707.4	1101.2	1039.8	303.1	99.8
25°	2689.7	2682.0	2716.5	2689.7	2578.4	2371.2	2060.4	1458.0	1369.8	422.1	107.4
27.5°	3127.1	3111.7	3134.7	3065.7	2919.9	2708.8	2375.0	1822.5	1718.9	606.2	122.8
30°	3706.4	3717.9	3614.4	3533.8	3326.6	3046.5	2724.2	2213.9	2106.5	824.9	138.1
32.5°	4619.6	4539.0	4377.9	4051.8	3779.3	3422.5	3073.3	2555.4	2459.4	1105.0	161.1
35°	6043.1	6058.5	5705.5	4899.7	4308.8	3894.4	3457.0	2931.4	2862.3	1423.5	191.8
37.5°	7777.4	7735.2	7424.4	6407.6	5083.9	4481.5	3894.4	3341.9	3242.2	1768.8	230.2
40°	9741.9	9565.4	9385.0	8694.4	6699.2	5218.2	4447.0	3817.7	3741.0	2167.8	291.6
42.5°	11315.0	11268.9	11299.6	11011.9	9392.7	6472.8	5179.8	4400.9	4308.8	2662.8	399.0
45°	12090.0	12024.8	12209.0	12423.9	12009.5	9143.3	6361.6	5145.3	5022.5	3246.0	564.0
47.5°	11882.9	11836.8	12232.0	12654.1	13206.6	12239.7	8291.5	6258.0	6046.9	3994.2	809.6
50°	10862.2	10866.1	11514.5	12301.1	13175.9	13809.0	11150.0	7781.2	7516.5	4988.0	1193.3
52.5°	9868.5	9899.2	10586.0	11733.2	12719.3	13993.1	13659.3	9834.0	9404.2	6158.2	1646.0
55°	8847.9	8863.2	9469.4	11084.8	12504.4	13444.5	14948.5	12477.6	12021.0	7616.2	2087.3
57.5°	7865.6	7865.6	8092.0	9527.0	12270.4	13394.6	14795.1	14894.8	14522.6	9281.4	2413.4
60°	5908.8	5947.2	6511.2	7516.5	10582.1	13467.5	14403.7	15666.0	15666.0	11591.2	2662.8
62.5°	2985.1	3042.7	3744.8	4723.2	7259.4	12462.2	14465.1	15278.5	15339.9	13628.6	3230.7
65°	1400.5	1465.7	1841.7	2532.3	3906.0	8771.1	13828.2	14948.5	14929.3	13241.1	4427.8
67.5°	1005.3	1024.4	1151.1	1477.2	2102.6	3844.6	10555.3	13962.4	13970.1	11249.8	5091.6
70°	901.7	901.7	932.4	1028.3	1266.2	1718.9	5129.9	11307.3	11856.0	8686.7	4719.4
72.5°	890.2	882.5	874.8	878.6	855.6	863.3	1761.1	6384.6	7167.3	6077.6	3764.0
75°	867.1	867.1	859.5	832.6	683.0	556.3	606.2	2582.2	2985.1	4059.4	2793.3
77.5°	686.8	755.9	836.4	786.6	625.4	418.2	353.0	748.2	943.9	2490.1	2025.9
80°	318.5	322.3	318.5	333.8	399.0	299.3	260.9	364.5	368.3	1381.3	1254.7
82.5°	230.2	234.1	222.5	199.5	176.5	161.1	214.9	268.6	287.8	633.1	468.1
85°	69.1	65.2	76.7	103.6	122.8	142.0	180.3	226.4	237.9	234.1	69.1
87.5°	30.7	30.7	38.4	53.7	72.9	107.4	157.3	207.2	211.0	241.7	19.2
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°	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
2.5°	95.9	92.1	88.2	84.4	80.6	76.7	72.9	72.9	76.7	76.7	76.7
5°	92.1	88.2	80.6	72.9	69.1	65.2	61.4	61.4	65.2	65.2	65.2
7.5°	92.1	84.4	76.7	69.1	61.4	57.6	53.7	53.7	53.7	57.6	57.6
10°	92.1	84.4	72.9	61.4	53.7	49.9	46.0	42.2	46.0	46.0	46.0
12.5°	88.2	80.6	69.1	57.6	46.0	38.4	34.5	34.5	34.5	34.5	34.5
15°	84.4	76.7	65.2	49.9	38.4	30.7	23.0	23.0	23.0	26.9	26.9
17.5°	80.6	72.9	57.6	38.4	26.9	19.2	15.3	15.3	15.3	19.2	19.2
20°	80.6	69.1	49.9	30.7	19.2	11.5	7.7	7.7	7.7	11.5	15.3
22.5°	80.6	69.1	46.0	23.0	11.5	7.7	3.8	3.8	3.8	3.8	3.8
25°	80.6	65.2	42.2	19.2	7.7	3.8	0.0	0.0	3.8	7.7	11.5
27.5°	80.6	61.4	34.5	11.5	7.7	3.8	0.0	3.8	7.7	7.7	7.7
30°	80.6	61.4	30.7	11.5	3.8	0.0	0.0	3.8	7.7	7.7	11.5
32.5°	84.4	57.6	26.9	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	88.2	53.7	23.0	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	95.9	53.7	15.3	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	107.4	57.6	15.3	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	134.3	61.4	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	188.0	76.7	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	276.3	115.1	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	402.9	157.3	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	495.0	157.3	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	491.1	99.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	376.0	69.1	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	318.5	49.9	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	383.7	38.4	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	683.0	34.5	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1097.4	34.5	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1227.8	34.5	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	959.2	30.7	3.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	525.7	26.9	3.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	264.7	19.2	7.7	3.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	111.3	15.3	7.7	3.8	3.8	3.8	0.0	0.0	0.0	0.0	0.0
82.5°	38.4	15.3	7.7	7.7	3.8	3.8	0.0	0.0	0.0	0.0	0.0
85°	19.2	11.5	11.5	7.7	7.7	3.8	3.8	0.0	0.0	0.0	0.0
87.5°	11.5	11.5	11.5	7.7	7.7	3.8	3.8	0.0	0.0	0.0	3.8
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

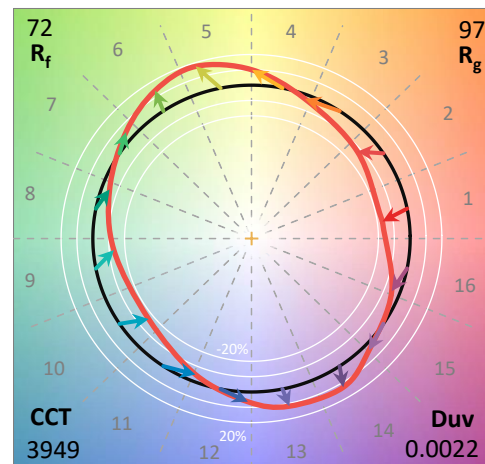
Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

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 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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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

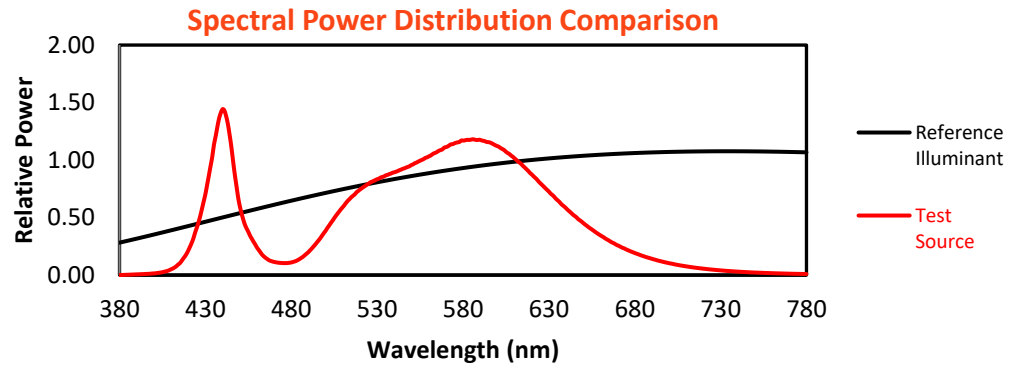
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	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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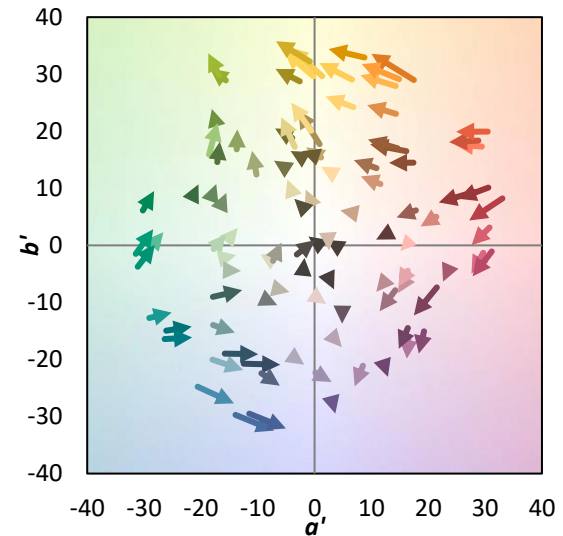
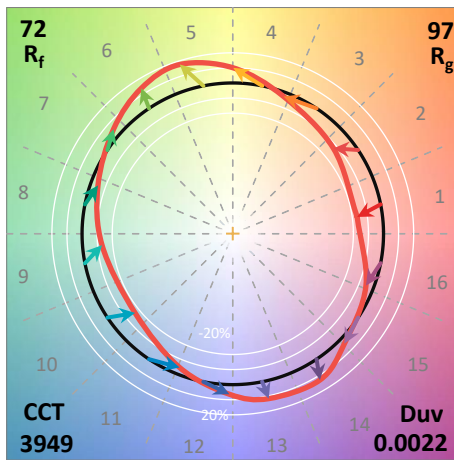
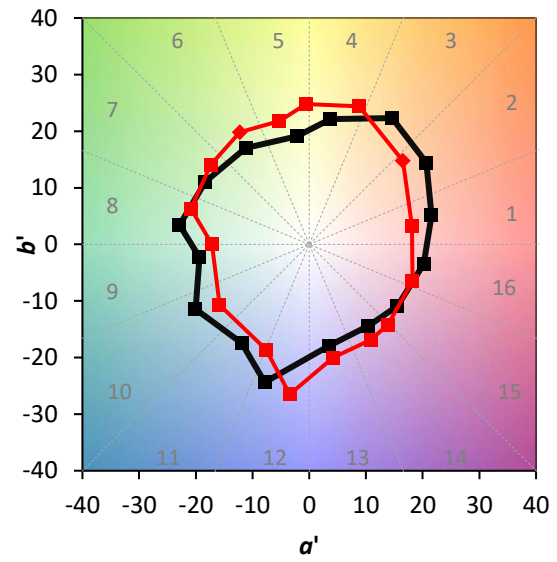
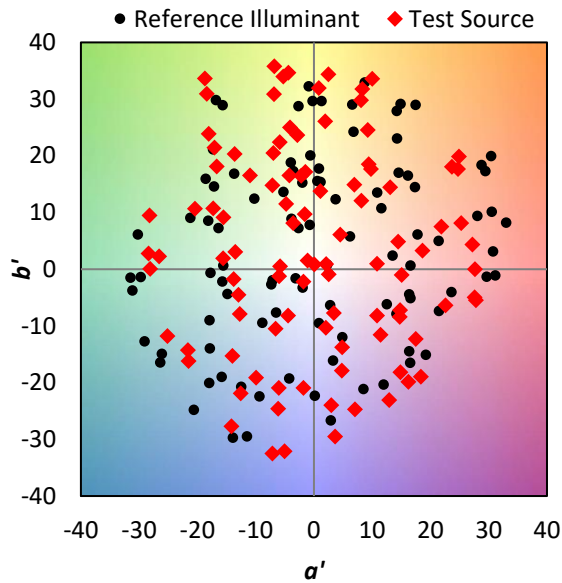
TM-30-18

Summary

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

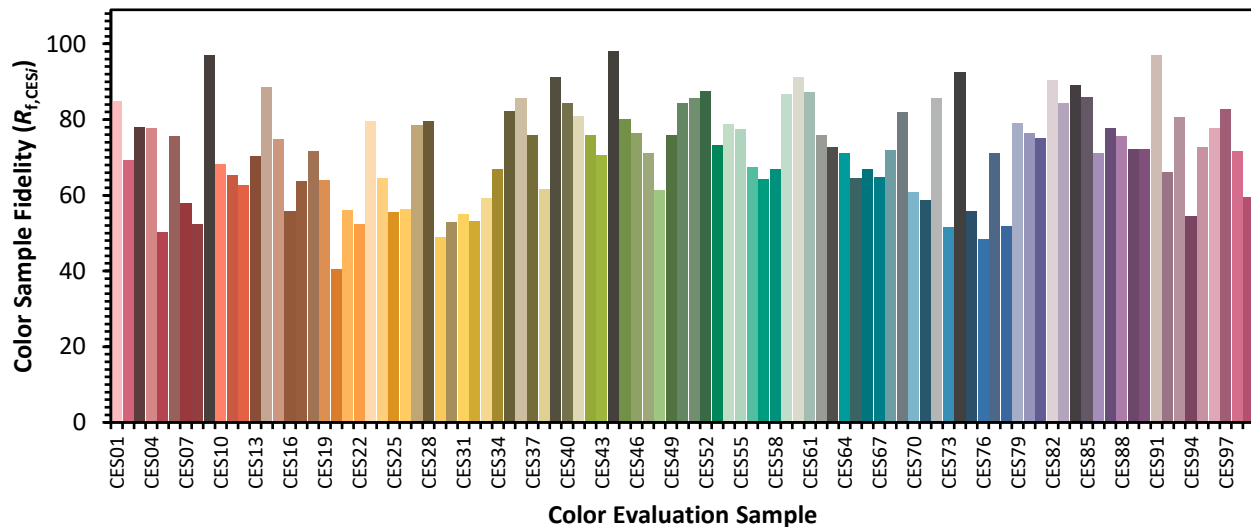


Color Vector Graphics



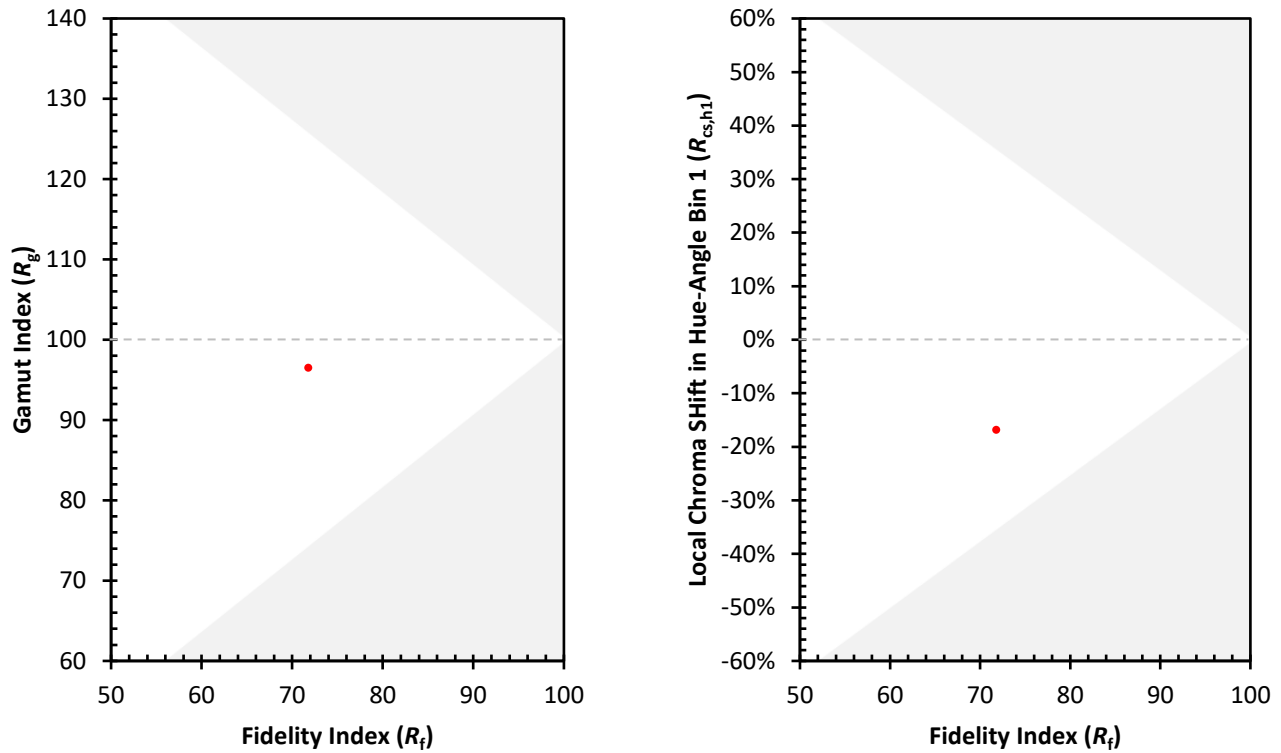
Individual Sample Fidelity Index ($R_{f,i}$)

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)