

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: P321106

Luminaire Tested: **GLEON-SA2A-830-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321106
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2A-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7773 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

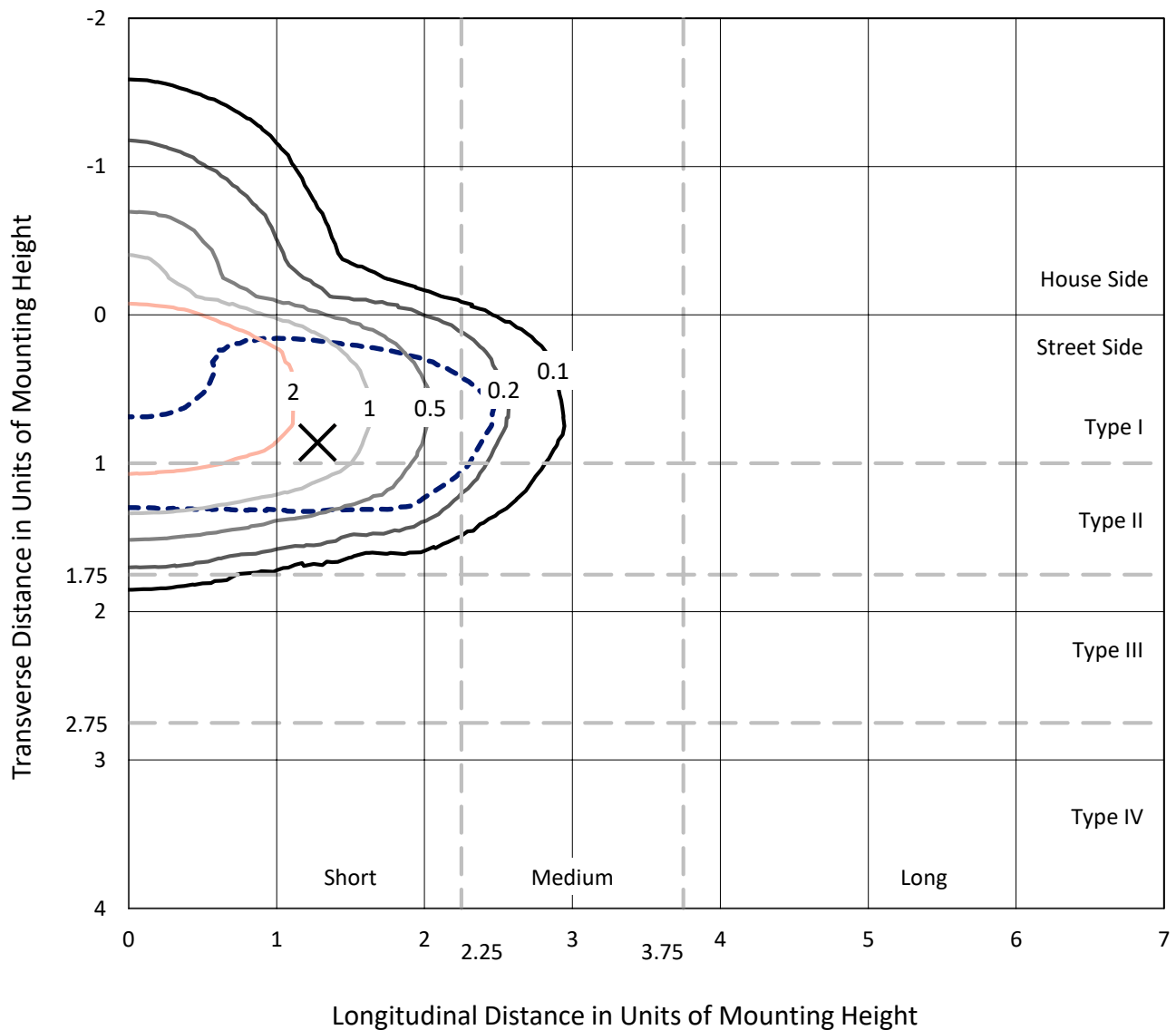
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

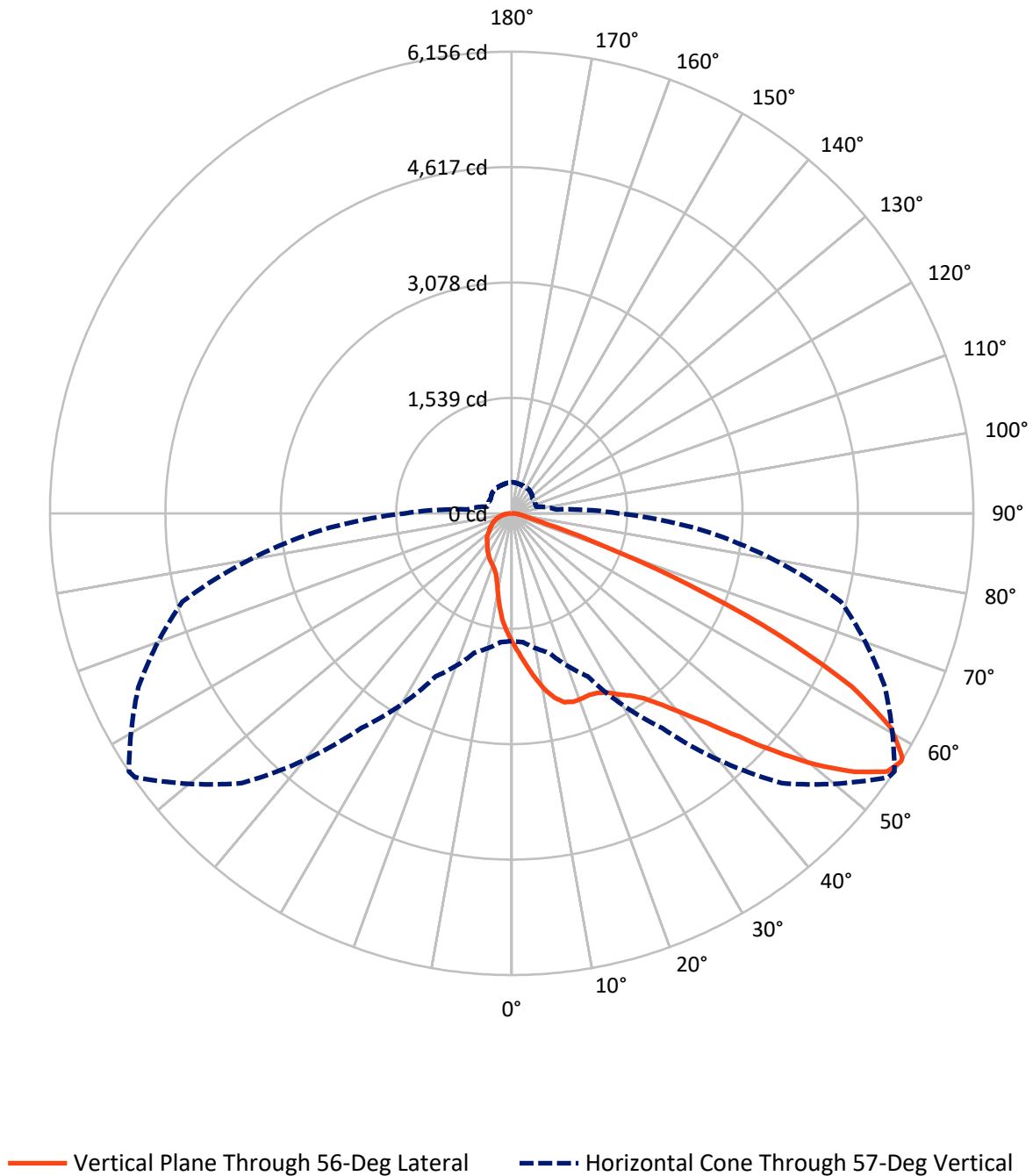
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



REPORT NUMBER: P321106

CATALOG NUMBER: GLEON-SA2A-830-U-AFL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1339.9	0.0	1339.9
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	6433.1	0.0	6433.1
	% Fixture	82.8	0.0	82.8
Total	Lumens	7773.0	0.0	7773.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.7	2.1
10°-20°	465.6	6.0
20°-30°	758.4	9.8
30°-40°	1133.7	14.6
40°-50°	1719.6	22.1
50°-60°	1927.4	24.8
60°-70°	1138.4	14.6
70°-80°	373.0	4.8
80°-90°	92.1	1.2
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°	7773.0	100.0
0°-180°	7773.0	100.0

Coefficient of Utilization



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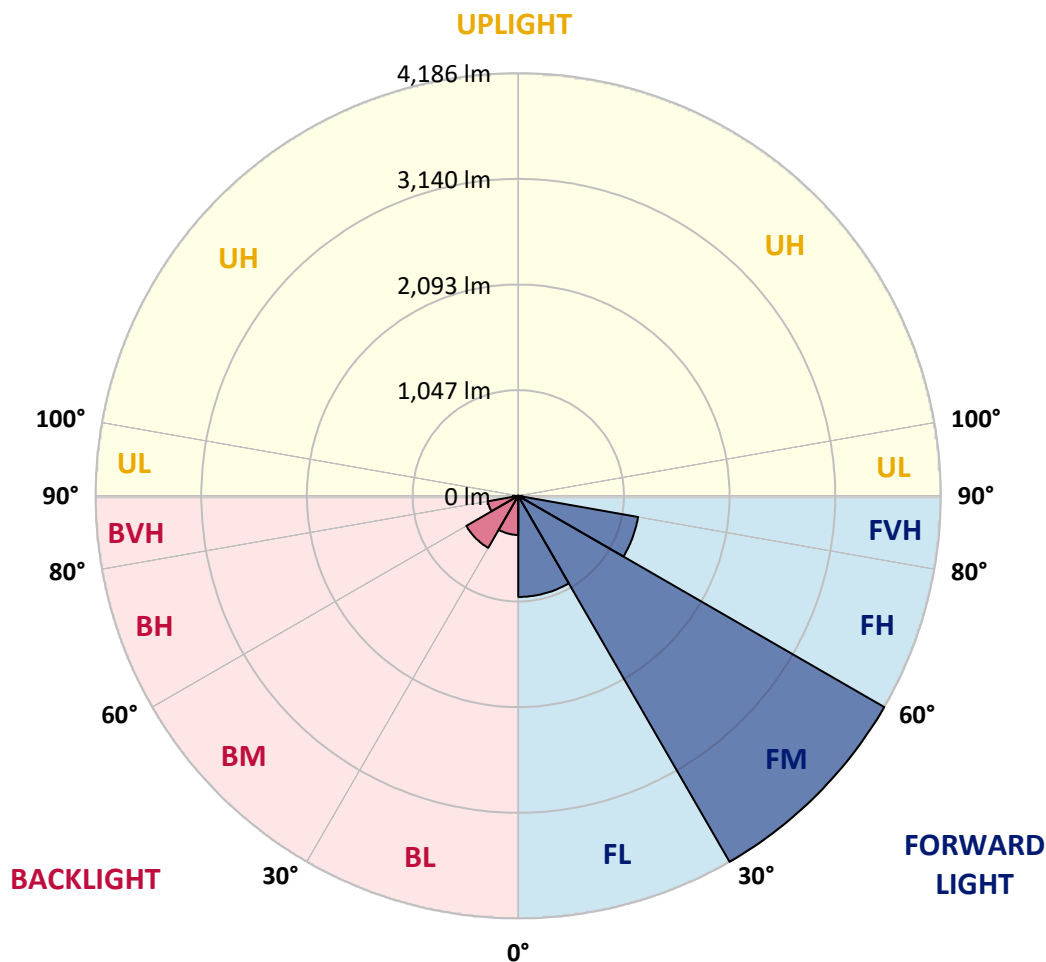
CATALOG NUMBER: GLEON-SA2A-830-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1001.3	12.9			
FM	(30°-60°)	4186.0	53.9			
FH	(60°-80°)	1205.2	15.5			G1/1800
FVH	(80°-90°)	40.6	0.5			G1/100
BL	(0°-30°)	387.4	5.0	B1/500		
BM	(30°-60°)	594.7	7.7	B1/1000		
BH	(60°-80°)	306.2	3.9	B1/500		G1/500
BVH	(80°-90°)	51.6	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CATALOG NUMBER: GLEON-SA2A-830-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1724.1	1724.1	1724.1	1724.1	1724.1	1724.1	1724.1	1724.1	1724.1	1724.1	1724.1
2.5°	1979.7	1997.9	1989.9	1962.1	1940.7	1910.5	1876.9	1866.7	1831.2	1791.4	1743.6
5°	2293.0	2284.0	2270.9	2227.6	2181.9	2128.8	2044.3	2031.0	1951.9	1861.9	1766.8
7.5°	2471.5	2470.7	2462.9	2437.6	2395.9	2326.4	2224.7	2208.9	2089.5	1944.7	1797.3
10°	2445.6	2443.7	2456.5	2483.0	2495.5	2481.1	2395.4	2379.6	2232.9	2036.3	1832.5
12.5°	2298.4	2299.5	2320.0	2375.6	2451.2	2542.0	2528.1	2520.4	2381.7	2140.0	1875.3
15°	2183.8	2186.2	2202.5	2250.8	2340.1	2504.9	2608.8	2611.5	2525.7	2254.3	1925.2
17.5°	2133.6	2138.6	2146.1	2180.0	2261.8	2430.9	2628.0	2642.5	2651.8	2372.9	1973.3
20°	2149.6	2154.4	2156.5	2178.2	2245.2	2386.0	2614.7	2640.6	2748.5	2484.6	2021.4
22.5°	2221.5	2224.4	2225.7	2231.3	2283.4	2398.8	2605.9	2633.1	2818.5	2584.8	2057.7
25°	2340.6	2338.5	2329.9	2322.7	2357.7	2449.6	2626.2	2652.1	2875.4	2675.6	2081.5
27.5°	2483.2	2480.6	2464.0	2444.2	2464.3	2528.7	2684.7	2705.2	2926.4	2760.5	2093.5
30°	2654.5	2647.5	2616.3	2592.8	2600.5	2647.3	2781.1	2799.8	3005.2	2857.0	2105.3
32.5°	2852.4	2844.9	2799.8	2760.8	2760.8	2799.8	2880.5	2896.0	3072.0	2965.9	2124.2
35°	3100.3	3091.0	3032.2	2966.7	2948.3	2968.1	3015.9	3026.9	3192.2	3103.3	2158.7
37.5°	3392.6	3380.0	3303.9	3216.2	3175.9	3174.8	3209.3	3231.7	3384.3	3283.6	2217.2
40°	3685.6	3676.8	3610.3	3541.3	3462.3	3436.9	3490.1	3497.0	3635.4	3507.4	2292.0
42.5°	3912.1	3910.5	3898.2	3907.3	3826.4	3775.1	3816.8	3822.4	3942.0	3749.7	2371.6
45°	4031.8	4034.5	4094.0	4226.0	4255.9	4218.5	4239.1	4240.7	4292.5	3994.1	2444.5
47.5°	3935.9	3949.8	4100.4	4395.6	4640.6	4764.8	4730.6	4750.4	4632.3	4204.1	2501.7
50°	3562.2	3579.3	3835.7	4320.0	4820.1	5293.5	5275.6	5271.0	4906.4	4358.0	2532.7
52.5°	3099.2	3112.6	3324.2	3927.1	4688.4	5585.7	5750.0	5726.5	5150.0	4473.1	2538.5
55°	2394.3	2415.1	2617.9	3142.8	4155.7	5474.0	6098.9	6077.7	5372.0	4533.5	2531.6
57°	1702.2	1724.1	1925.5	2398.6	3495.9	5087.5	6133.6	6156.0	5491.9	4543.6	2539.3
57.5°	1518.9	1541.3	1740.9	2200.4	3290.2	4947.8	6103.7	6141.1	5513.6	4542.0	2543.6
60°	764.8	773.3	900.5	1228.3	2079.9	4000.0	5713.4	5809.8	5533.1	4463.5	2562.0
62.5°	475.5	469.3	465.3	565.8	1011.9	2652.6	4908.0	5093.6	5159.9	4273.3	2517.4
65°	418.1	406.6	362.5	354.5	446.9	1288.4	3696.0	3927.1	4362.5	3973.6	2411.1
67.5°	392.7	381.5	331.8	301.9	302.1	510.8	2294.6	2554.8	3398.4	3466.8	2160.3
70°	366.5	356.4	309.9	274.6	257.2	282.9	1055.7	1253.1	2215.3	2725.0	1805.5
72.5°	332.8	325.9	281.8	245.5	227.1	211.8	404.2	477.4	1282.5	1830.1	1253.9
75°	297.6	291.2	253.5	218.8	196.3	166.7	227.6	245.2	651.5	936.3	617.3
77.5°	258.8	255.1	225.5	193.4	175.5	138.1	161.1	169.6	279.4	401.5	309.6
80°	206.0	213.2	197.1	172.3	155.7	110.6	114.1	119.7	162.7	196.1	175.8
82.5°	134.1	146.7	154.4	140.0	128.2	87.1	82.0	84.4	106.1	119.7	76.4
85°	55.8	62.8	101.5	91.6	85.2	63.6	55.0	56.1	65.7	68.1	31.3
87.5°	24.8	26.4	44.6	41.9	36.1	21.9	23.5	25.6	35.0	33.1	12.0
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: GLEON-SA2A-830-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1724.1	1724.1	1724.1	1724.1	1724.1	1724.1	1724.1	1724.1	1724.1	1724.1	1724.1
2.5°	1725.7	1703.2	1664.8	1622.3	1587.6	1559.8	1531.7	1512.5	1490.1	1478.0	1471.9
5°	1727.0	1682.9	1602.0	1518.9	1444.6	1376.8	1312.1	1262.5	1216.0	1190.9	1183.9
7.5°	1732.6	1666.4	1535.5	1398.7	1266.7	1146.3	1053.3	995.1	953.1	934.4	929.1
10°	1737.1	1646.9	1453.2	1250.7	1071.2	949.1	877.0	844.4	830.0	827.6	825.2
12.5°	1747.8	1626.8	1366.6	1096.3	919.2	834.8	809.7	807.5	811.5	817.4	817.4
15°	1764.7	1607.1	1267.8	963.8	822.5	792.8	797.9	809.7	820.6	829.7	831.0
17.5°	1777.0	1582.7	1161.5	857.8	770.9	779.0	797.1	813.7	824.9	833.7	834.5
20°	1785.8	1545.1	1048.0	776.8	741.3	766.1	788.8	803.5	811.3	820.1	821.4
22.5°	1781.2	1494.6	947.2	718.8	717.2	747.4	769.1	786.7	780.8	772.3	777.9
25°	1759.3	1425.1	843.6	675.6	691.9	722.3	749.0	737.3	717.5	713.8	715.9
27.5°	1720.3	1336.5	747.7	635.5	662.5	699.1	697.5	685.7	678.8	674.0	676.9
30°	1678.4	1240.3	663.8	600.5	629.9	660.1	653.9	653.7	646.7	639.0	642.7
32.5°	1637.0	1143.6	597.3	571.7	605.3	609.3	622.7	626.7	613.1	596.8	595.7
35°	1600.9	1052.2	546.8	545.5	575.7	576.2	595.7	590.1	556.2	539.3	539.3
37.5°	1573.9	961.1	508.3	522.0	536.7	550.6	560.4	537.2	531.6	522.2	522.0
40°	1562.2	881.0	484.3	504.1	509.2	526.8	501.4	510.5	513.2	508.3	508.3
42.5°	1549.9	811.3	463.5	490.5	489.6	487.2	474.4	486.2	496.9	497.1	496.3
45°	1537.6	751.2	445.0	461.3	472.6	446.6	449.0	461.6	476.6	481.9	481.9
47.5°	1524.0	703.6	428.2	430.6	448.0	430.6	428.7	438.4	456.0	464.5	466.4
50°	1494.1	660.9	409.0	403.6	408.4	414.3	415.9	420.5	440.0	453.6	456.8
52.5°	1452.7	622.7	384.4	378.8	378.8	401.0	408.4	409.8	426.3	442.6	445.8
55°	1418.2	598.4	359.0	358.0	356.9	386.8	399.6	401.8	413.3	426.1	427.7
57°	1420.6	596.5	339.5	340.6	340.3	372.4	391.3	395.9	401.8	412.7	414.6
57.5°	1421.9	597.8	335.2	335.8	335.5	368.4	388.9	394.0	398.6	410.0	411.9
60°	1442.0	601.3	317.9	312.0	313.3	347.0	375.3	381.7	384.7	399.9	402.3
62.5°	1412.3	585.8	304.0	289.8	289.8	324.6	356.4	366.5	371.0	391.6	395.6
65°	1326.3	542.3	287.7	264.7	267.4	302.1	333.6	350.2	357.2	382.8	387.1
67.5°	1193.5	491.8	270.3	242.3	245.0	278.6	310.1	328.0	339.0	373.2	376.7
70°	1020.7	430.1	246.8	218.5	221.7	253.0	282.4	302.7	319.0	364.1	365.2
72.5°	752.5	352.6	214.0	192.3	195.8	223.1	254.3	277.8	299.7	341.4	340.9
75°	447.4	275.7	177.6	165.9	168.3	193.7	228.9	257.5	290.4	332.6	337.7
77.5°	271.4	207.6	144.8	138.9	141.8	167.8	210.8	241.2	286.4	313.6	312.0
80°	164.0	148.3	115.7	111.9	114.9	143.4	195.0	228.9	250.3	267.9	267.9
82.5°	85.7	90.6	84.9	82.0	86.0	116.5	177.4	199.8	221.2	189.9	177.4
85°	35.0	47.3	51.6	51.3	53.7	80.7	153.1	171.0	142.6	135.4	138.6
87.5°	11.8	20.0	25.1	21.6	22.7	50.8	106.1	82.5	98.0	68.4	64.9
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: SP1-2408-195-9

Test Date: 08/07/2024

Luminaire Tested: GALN-SB1A-830-U-5WQ

Data in this report applies to families of products including GALN-SB1A-830-U-5WQ.

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2408-195-9
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 08/07/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: MCGRAW EDISON
 Catalog Number: **GALN-SB1A-830-U-5WQ**
 Description: GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K): 3050
 CIE u' : 0.2476
 CIE v' : 0.5251
 Duv: 0.0034
 CIE x: 0.4383
 CIE y: 0.4131
 CIE z: 0.1487
 Peak Wavelength (nm): 603
 Dominant Wavelength (nm): 581
 Purity: 55.55201
 R_f: 81.5
 R_g: 99.2

CRI (Ra): 81.0
 R1: 79.6
 R2: 85.6
 R3: 92.0
 R4: 82.6
 R5: 78.9
 R6: 81.7
 R7: 85.2
 R8: 62.0
 R9: 7.1
 R10: 67.0
 R11: 82.7
 R12: 63.2
 R13: 80.3
 R14: 95.0
 R15: 71.7



Test Conditions

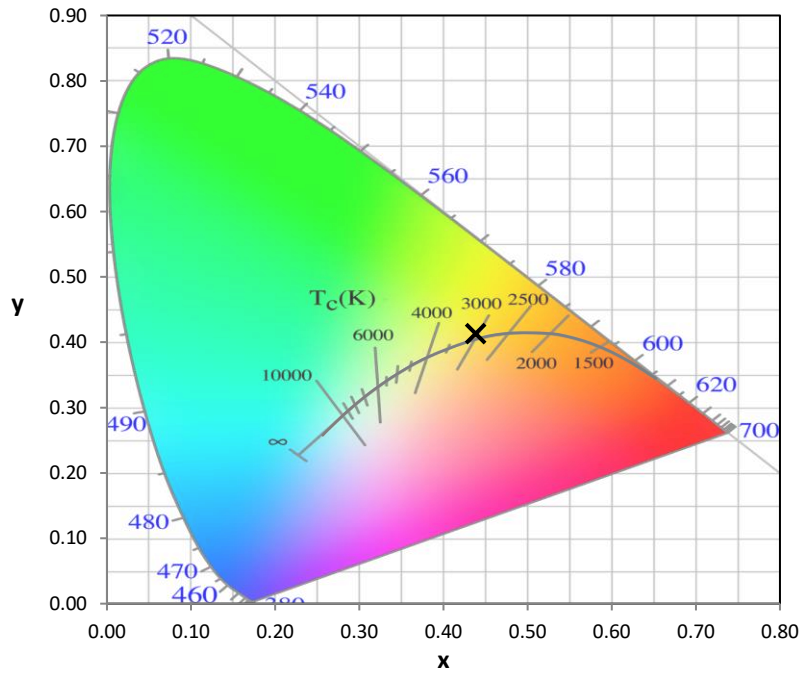
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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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 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

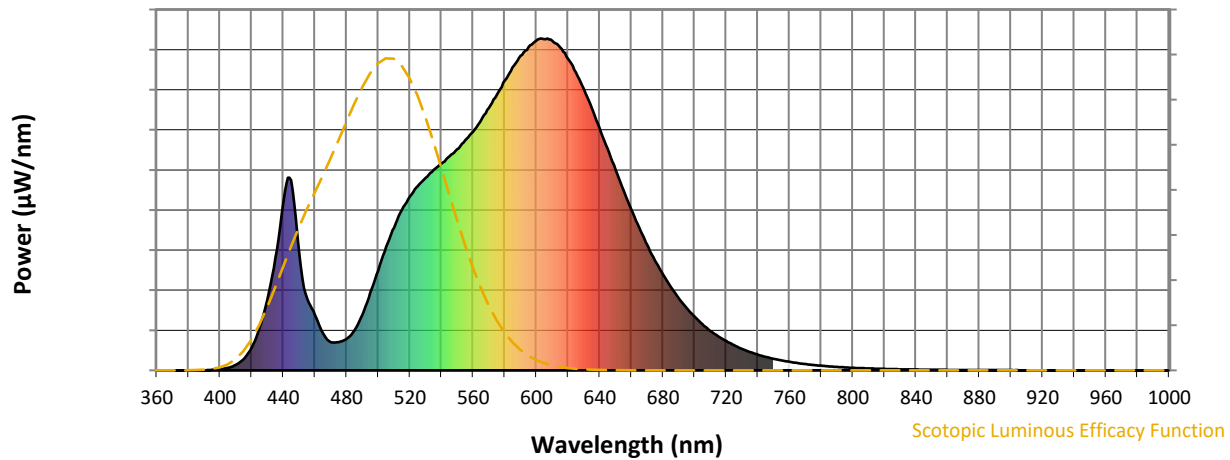


Photopic Lumens: NR

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



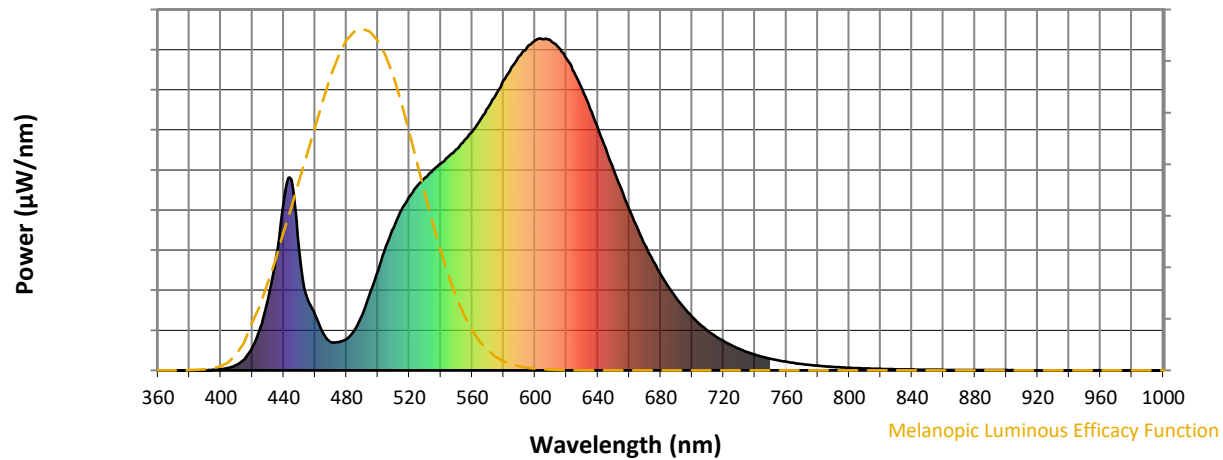
Scotopic Lumens: NR

S/P: 1.27

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.32

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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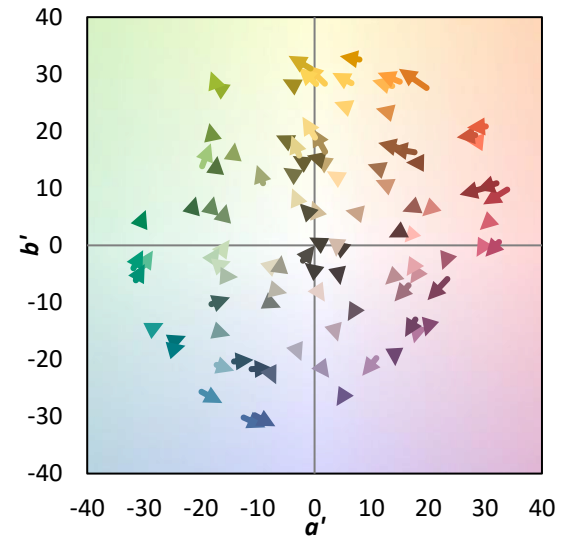
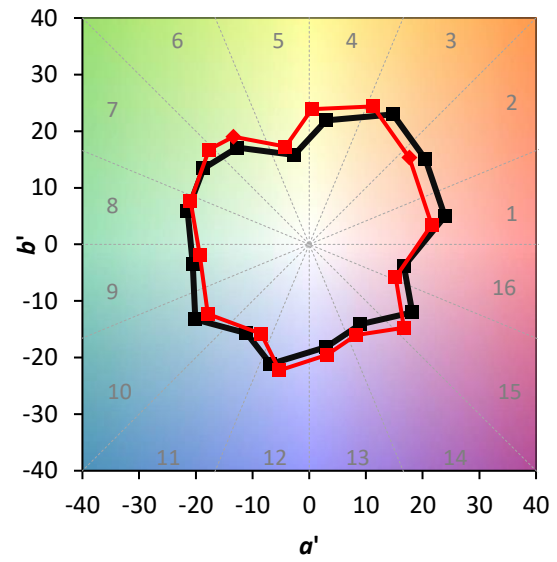
TM-30-18

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 81.0$
 $R_9 = 7.1$

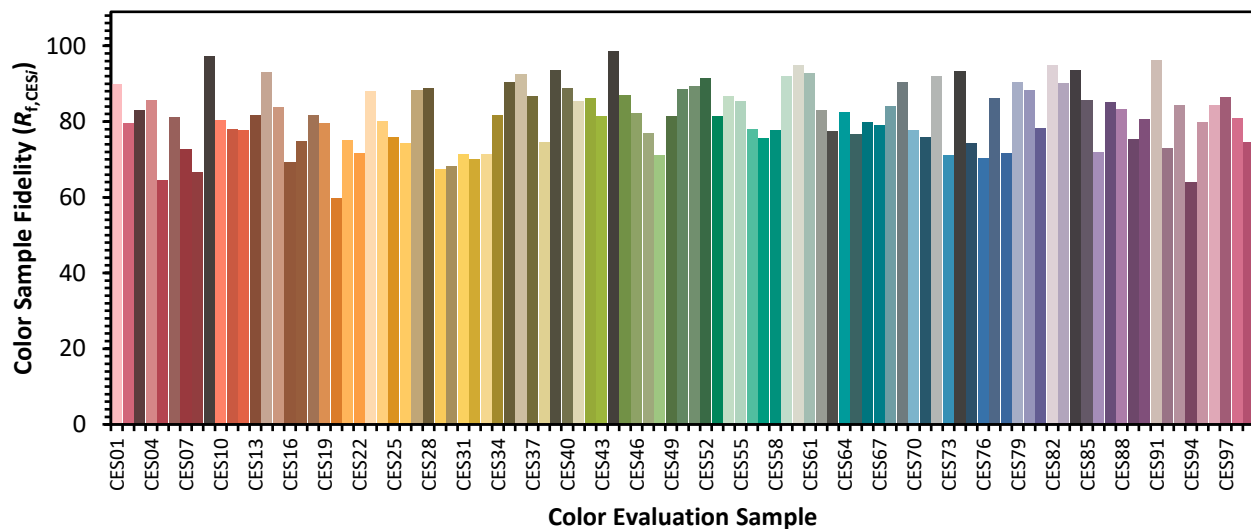


Color Vector Graphics

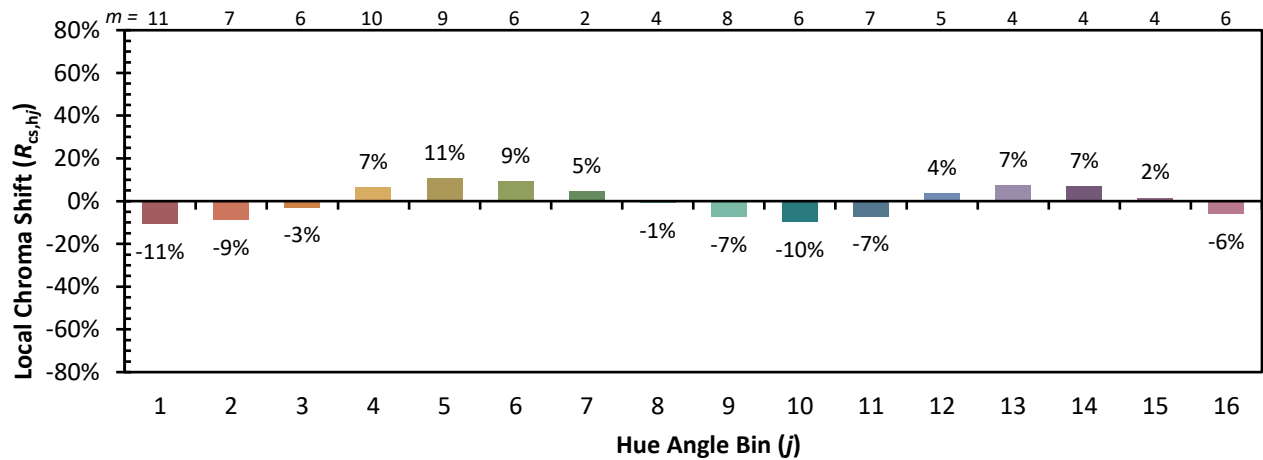


Individual Sample Fidelity Index ($R_{f,i}$)

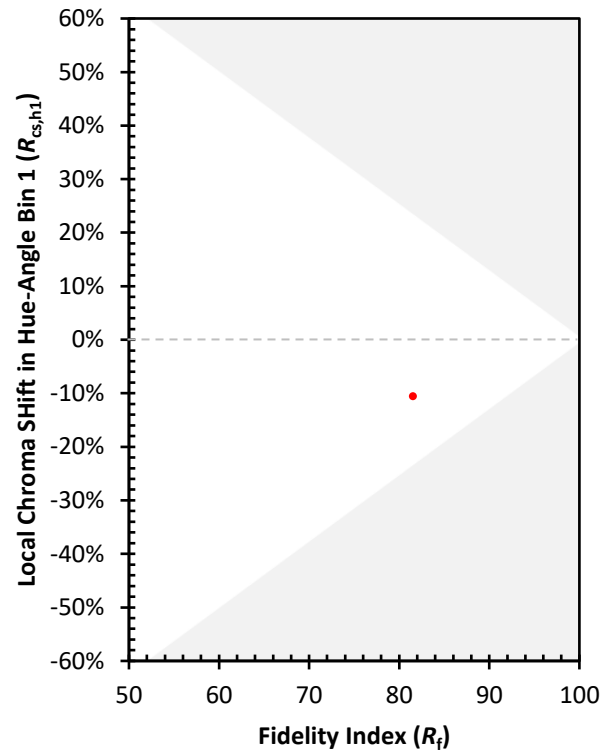
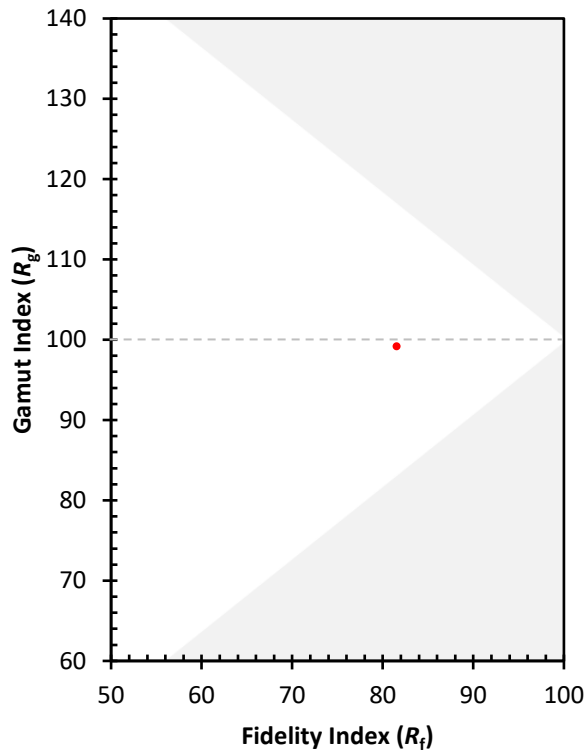
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 94
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)