

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: P317926

Luminaire Tested: **GLEON-SA2C-830-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317926
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2C-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11759 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

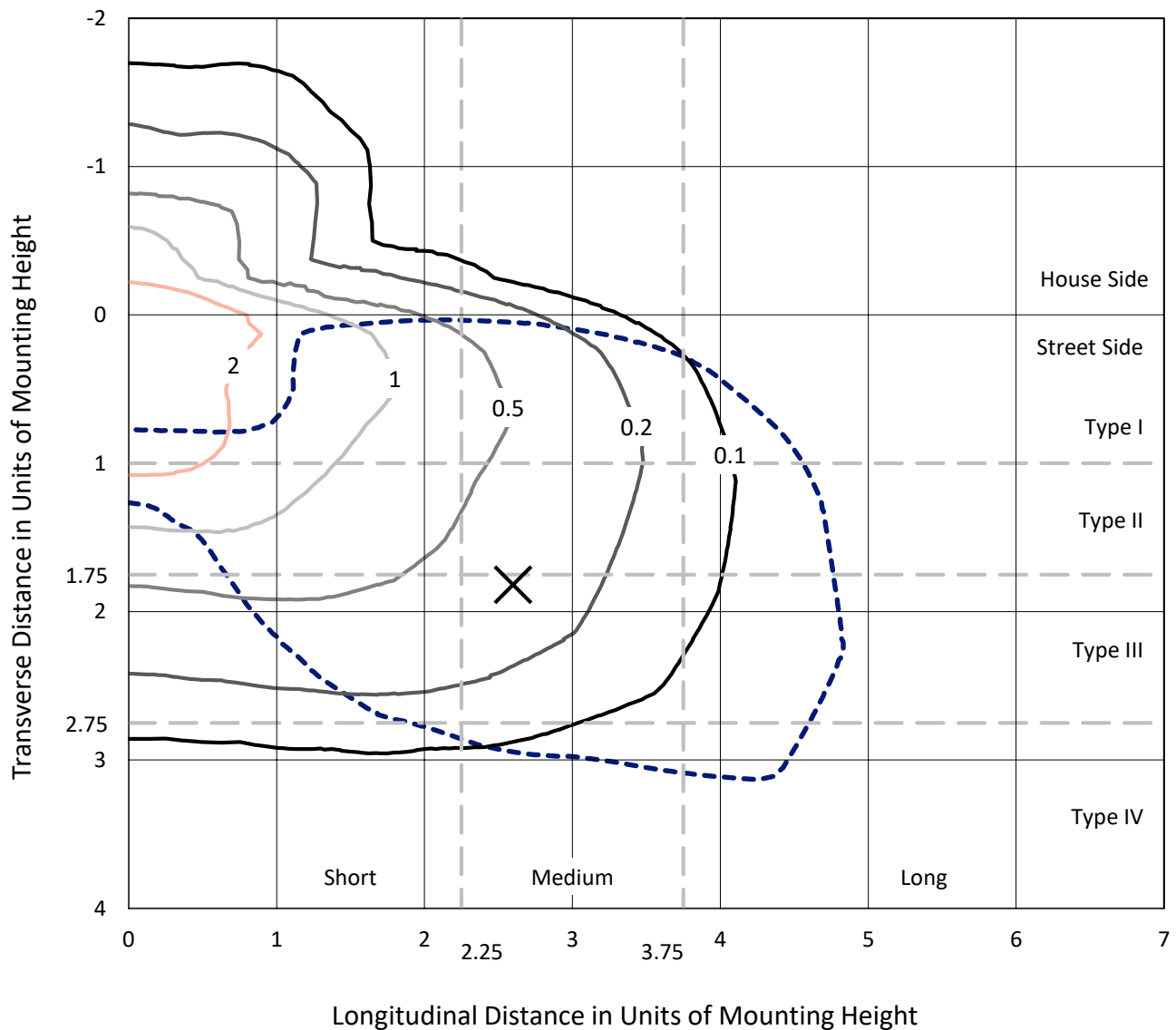
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

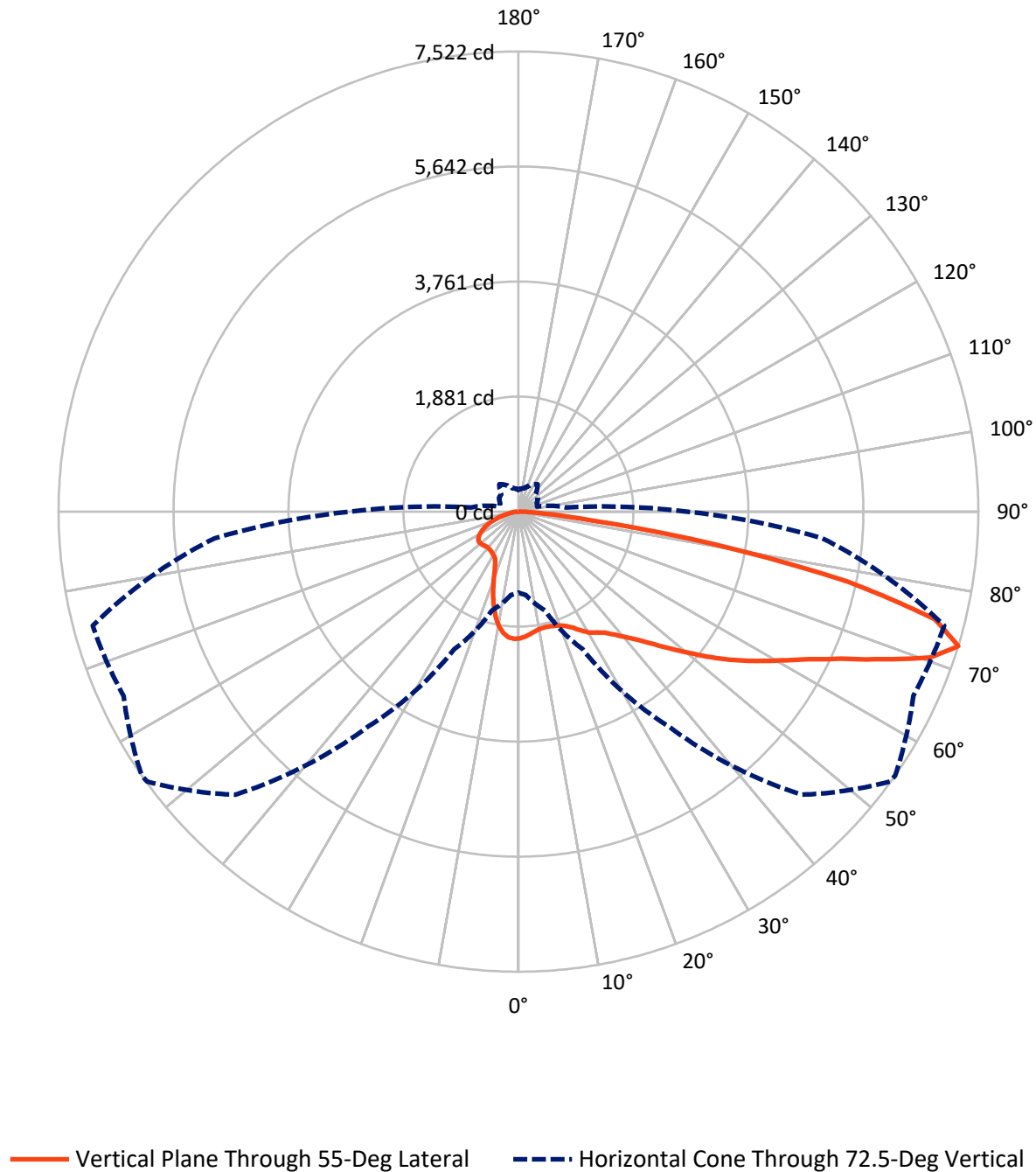
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



REPORT NUMBER: P317926

CATALOG NUMBER: GLEON-SA2C-830-U-T3R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2185.6	0.0	2185.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	9573.4	0.0	9573.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	11759.0	0.0	11759.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.7	1.6
10°-20°	499.7	4.2
20°-30°	823.8	7.0
30°-40°	1218.6	10.4
40°-50°	1701.0	14.5
50°-60°	2214.7	18.8
60°-70°	2721.8	23.1
70°-80°	2133.6	18.1
80°-90°	258.2	2.2
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°	11759.0	100.0
0°-180°	11759.0	100.0

Coefficient of Utilization



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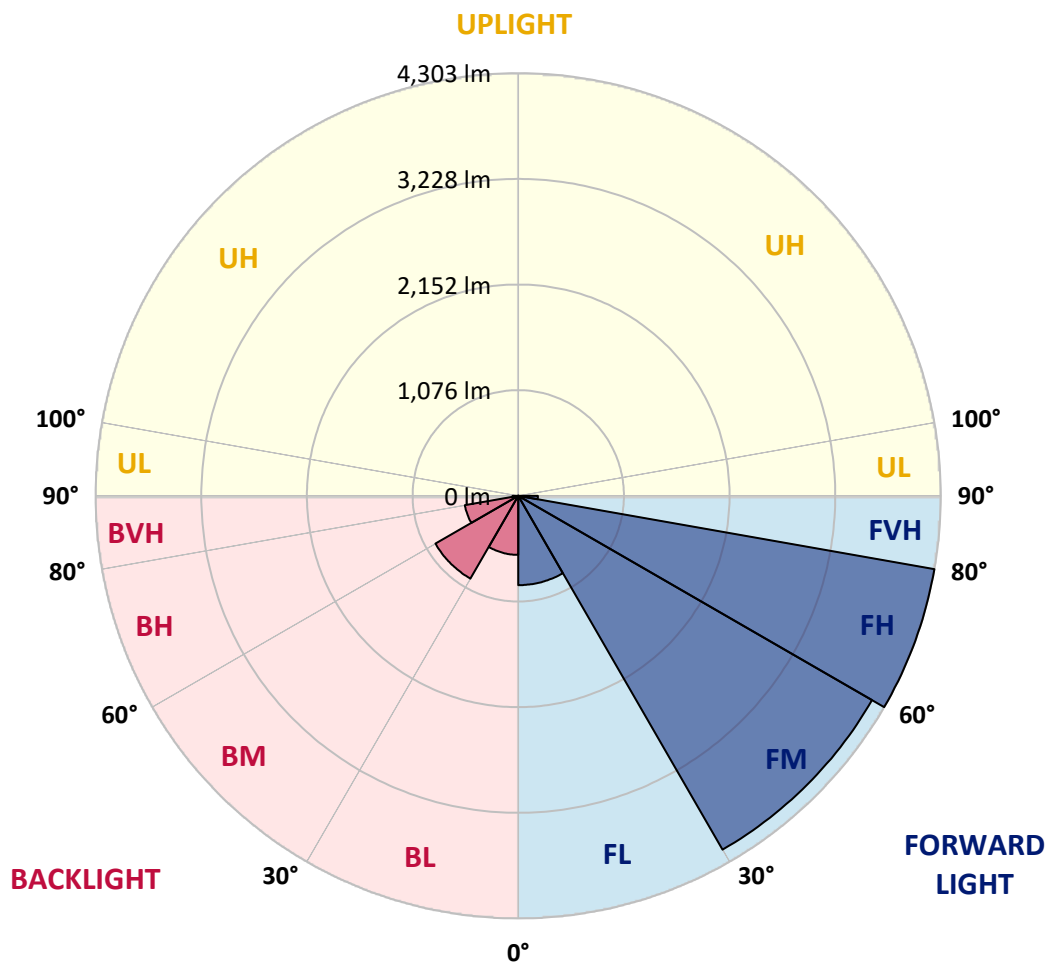
CATALOG NUMBER: GLEON-SA2C-830-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	909.8	7.7			
FM	(30°-60°)	4160.6	35.4			
FH	(60°-80°)	4303.4	36.6			G2/5000
FVH	(80°-90°)	199.6	1.7			G2/225
BL	(0°-30°)	601.4	5.1	B2/1000		
BM	(30°-60°)	973.7	8.3	B1/1000		
BH	(60°-80°)	552.0	4.7	B2/1000		G2/1000
BVH	(80°-90°)	58.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Medium



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CATALOG NUMBER: GLEON-SA2C-830-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2074.0	2074.0	2074.0	2074.0	2074.0	2074.0	2074.0	2074.0	2074.0	2074.0	2074.0
2.5°	2006.5	2001.7	2007.7	2016.0	2025.2	2037.5	2044.6	2047.8	2060.1	2064.9	2075.2
5°	1913.6	1911.2	1921.1	1935.4	1955.7	1984.3	2007.3	2011.7	2044.2	2067.3	2088.3
7.5°	1846.1	1846.1	1857.6	1874.7	1897.3	1935.8	1968.4	1974.3	2029.6	2079.2	2118.1
10°	1792.4	1794.4	1807.9	1828.2	1854.8	1895.7	1939.0	1945.7	2025.6	2107.0	2169.0
12.5°	1756.7	1761.5	1773.8	1792.0	1825.0	1874.7	1929.5	1938.6	2033.9	2146.7	2230.1
15°	1779.3	1787.3	1788.5	1796.0	1814.3	1868.3	1935.0	1944.6	2051.8	2187.2	2299.6
17.5°	1878.6	1881.4	1869.1	1853.2	1844.5	1879.0	1951.7	1961.6	2073.2	2227.3	2366.4
20°	2029.6	2028.0	2001.4	1958.5	1914.0	1919.5	1979.1	1989.4	2102.2	2262.7	2433.1
22.5°	2220.2	2214.6	2173.7	2094.7	2018.8	1987.1	2027.2	2035.9	2145.9	2313.1	2504.6
25°	2451.3	2439.0	2385.0	2279.0	2167.4	2085.6	2099.5	2107.8	2209.5	2369.5	2570.1
27.5°	2695.2	2682.9	2614.2	2485.9	2337.4	2209.9	2199.1	2206.3	2281.8	2411.2	2618.6
30°	2950.2	2937.1	2874.3	2730.6	2517.7	2338.6	2292.1	2294.9	2332.6	2433.9	2658.3
32.5°	3206.4	3194.1	3123.8	2956.9	2713.5	2476.8	2359.2	2355.6	2363.2	2457.3	2703.2
35°	3466.1	3470.9	3388.7	3204.0	2930.3	2630.5	2438.6	2431.1	2414.4	2505.4	2766.7
37.5°	3744.1	3741.0	3634.5	3441.5	3157.1	2797.3	2552.6	2551.4	2493.8	2596.3	2866.4
40°	3930.0	3932.0	3867.3	3684.6	3386.3	2982.0	2698.8	2696.0	2620.5	2732.5	2997.1
42.5°	4002.7	4015.8	4032.5	3916.5	3626.2	3196.0	2873.1	2869.2	2797.3	2928.0	3150.8
45°	4007.9	4034.1	4137.3	4122.7	3869.3	3441.1	3096.0	3084.8	3033.2	3187.7	3334.3
47.5°	3963.4	3990.4	4162.0	4245.4	4086.5	3699.7	3356.5	3347.8	3303.3	3512.6	3532.8
50°	3866.1	3891.9	4111.1	4305.3	4265.2	3948.3	3656.8	3633.7	3609.9	3887.9	3760.0
52.5°	3683.8	3733.4	4043.2	4319.6	4372.1	4169.1	3972.5	3957.4	3970.5	4283.9	3987.6
55°	3252.0	3307.7	3868.1	4307.7	4451.1	4354.6	4288.3	4287.5	4355.4	4699.3	4231.9
57.5°	3010.2	3049.5	3511.4	4287.5	4544.8	4538.9	4600.8	4608.4	4740.7	5151.7	4487.7
60°	2873.5	2914.8	3330.7	4212.4	4690.2	4777.2	4919.8	4934.9	5132.3	5652.6	4795.5
62.5°	2749.2	2794.5	3218.7	4059.5	4861.4	5118.0	5301.9	5315.4	5546.9	6167.3	5092.9
65°	2536.7	2588.0	3054.7	3959.0	5017.1	5562.4	5787.6	5796.7	6023.1	6706.7	5320.5
67.5°	2236.5	2283.3	2745.3	3737.0	5132.3	6102.2	6433.4	6438.6	6495.4	7087.5	5436.9
70°	1885.8	1903.6	2304.4	3278.7	4996.0	6607.0	7141.2	7142.4	6925.9	7331.4	5417.8
72.5°	1325.0	1367.1	1672.9	2481.9	4293.4	6545.4	7508.5	7522.0	7126.1	7208.3	4984.9
75°	812.6	857.1	1049.3	1504.1	2723.8	5147.8	6937.4	7031.1	6750.7	6427.0	4072.2
77.5°	543.3	560.0	684.7	877.0	1234.0	2961.7	5333.6	5510.0	5608.1	4687.0	2604.3
80°	303.0	334.8	454.0	544.9	548.9	1176.8	3198.0	3239.3	3120.2	1866.3	803.5
82.5°	160.5	177.9	303.0	320.1	299.5	394.0	1191.9	1193.1	996.9	500.4	238.7
85°	124.3	139.0	207.7	195.4	152.9	174.8	393.2	414.6	339.2	204.9	77.8
87.5°	62.0	77.1	141.0	123.9	60.0	50.0	140.6	150.1	133.8	80.2	28.2
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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CATALOG NUMBER: GLEON-SA2C-830-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2074.0	2074.0	2074.0	2074.0	2074.0	2074.0	2074.0	2074.0	2074.0	2074.0	2074.0
2.5°	2079.2	2082.8	2087.1	2082.4	2080.8	2074.4	2063.7	2061.3	2055.8	2056.2	2059.3
5°	2097.5	2103.4	2101.0	2082.8	2060.9	2030.3	1998.6	1971.6	1953.7	1952.5	1951.3
7.5°	2132.4	2136.4	2117.7	2065.7	2004.5	1933.8	1867.1	1808.7	1773.4	1764.6	1762.7
10°	2187.2	2186.4	2135.2	2030.3	1908.4	1782.1	1674.9	1593.9	1546.6	1532.7	1529.1
12.5°	2248.4	2239.3	2141.2	1966.0	1772.6	1597.4	1461.6	1371.4	1322.2	1306.3	1302.3
15°	2311.5	2288.9	2126.5	1869.9	1605.8	1398.4	1255.9	1172.5	1145.8	1137.1	1135.5
17.5°	2370.3	2326.6	2084.4	1739.6	1415.5	1200.3	1089.0	1055.7	1062.0	1073.6	1074.0
20°	2427.9	2352.1	2016.8	1575.2	1215.0	1037.0	999.3	1023.9	1054.1	1077.5	1080.7
22.5°	2484.7	2369.9	1929.9	1385.3	1035.4	945.3	971.9	1016.8	1051.3	1076.7	1081.1
25°	2532.4	2374.3	1809.9	1182.8	910.7	910.7	958.8	1001.3	1035.4	1060.5	1064.8
27.5°	2549.8	2344.9	1640.7	995.3	848.0	894.8	940.5	975.9	1004.8	1031.5	1036.2
30°	2556.6	2290.5	1445.3	844.8	822.1	877.8	915.9	946.1	973.5	998.5	1002.9
32.5°	2557.8	2225.0	1238.0	759.4	804.3	859.9	885.3	911.9	941.3	951.2	952.8
35°	2565.3	2147.5	1019.5	715.7	787.6	843.2	863.5	882.5	834.9	838.4	841.6
37.5°	2587.2	2070.9	836.8	691.1	776.9	834.5	858.7	789.6	752.2	743.5	742.3
40°	2628.1	1989.0	701.4	671.2	772.9	838.8	828.1	737.2	672.8	624.8	617.6
42.5°	2684.9	1900.9	614.8	658.1	775.7	859.9	785.6	686.7	579.9	548.9	544.9
45°	2748.8	1808.3	568.0	649.0	785.2	876.2	776.9	619.6	536.6	513.1	511.2
47.5°	2810.8	1695.1	543.7	645.0	798.3	863.1	739.9	598.9	515.9	503.6	504.8
50°	2881.9	1593.1	529.0	640.6	809.8	854.7	698.2	588.2	508.0	523.1	539.0
52.5°	2941.9	1487.4	515.9	631.9	814.2	840.0	687.5	590.2	508.0	537.0	552.1
55°	3013.0	1407.6	500.8	613.6	805.9	798.3	680.0	602.1	513.9	495.7	497.3
57.5°	3104.7	1381.4	484.2	585.0	778.1	737.5	676.4	613.6	510.4	498.8	502.8
60°	3231.8	1409.2	477.4	547.7	734.8	689.9	676.8	607.7	485.3	465.5	465.9
62.5°	3352.9	1440.1	477.0	524.3	681.5	647.4	667.6	588.2	472.6	461.1	465.5
65°	3392.6	1408.8	457.9	498.1	621.6	596.6	651.0	567.6	463.1	445.6	444.8
67.5°	3339.4	1311.5	419.4	455.6	552.9	537.4	629.1	542.9	448.0	433.7	431.3
70°	3181.4	1094.2	371.8	399.6	474.6	470.6	594.6	514.3	427.8	415.4	405.1
72.5°	2756.0	779.6	313.4	332.4	386.4	399.2	546.9	477.0	399.2	372.5	356.7
75°	2263.5	577.1	257.4	261.3	293.5	328.1	481.4	433.3	365.4	320.1	307.8
77.5°	1386.1	353.1	204.9	206.5	210.5	261.7	396.4	384.5	322.5	266.9	258.2
80°	448.8	192.6	148.1	155.7	143.8	191.8	306.6	327.3	276.8	223.2	213.7
82.5°	170.8	112.4	100.1	105.3	99.7	128.7	223.6	262.1	226.8	183.5	149.3
85°	82.6	63.5	59.2	66.3	61.6	65.9	143.0	193.0	172.0	119.5	111.2
87.5°	29.4	28.2	22.6	30.6	26.2	23.4	43.7	97.3	113.6	82.2	73.5
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: SP1-2408-195-9

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
 Rf: 81.5
 Rg: 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

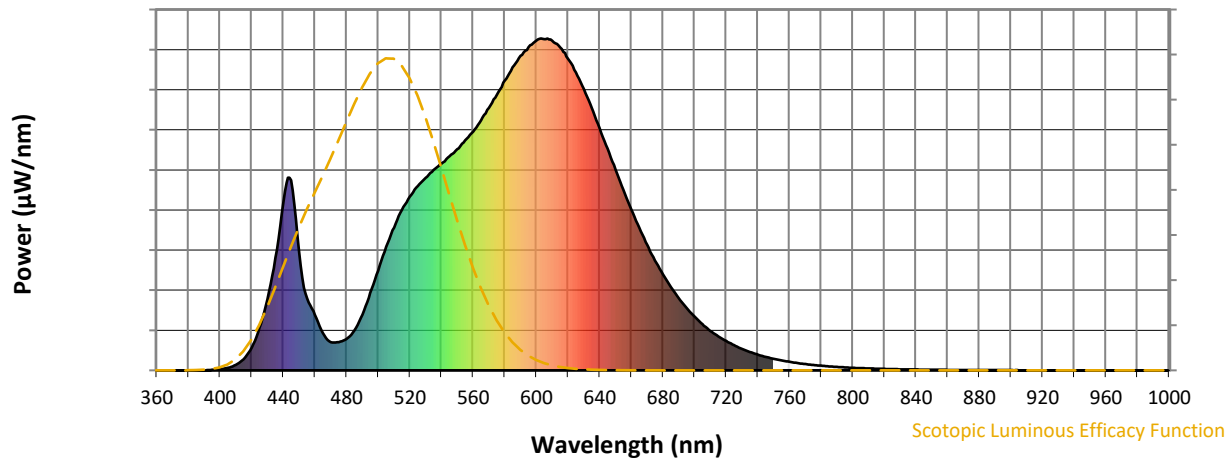


Photopic Lumens: NR

λ (nm)	Power 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	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



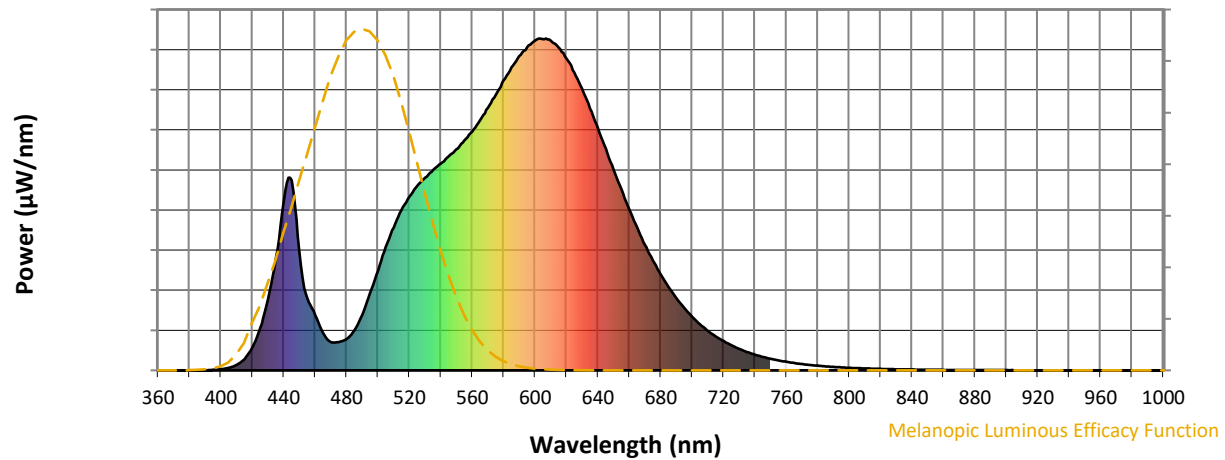
Scotopic Lumens: NR

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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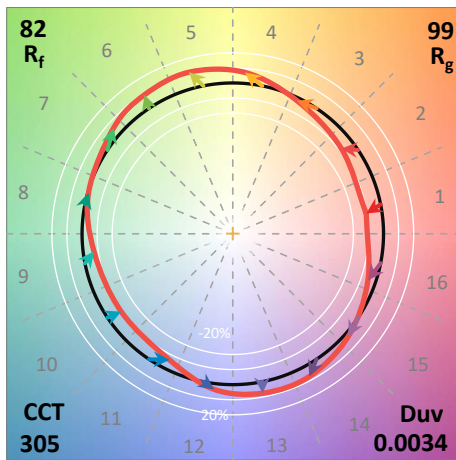
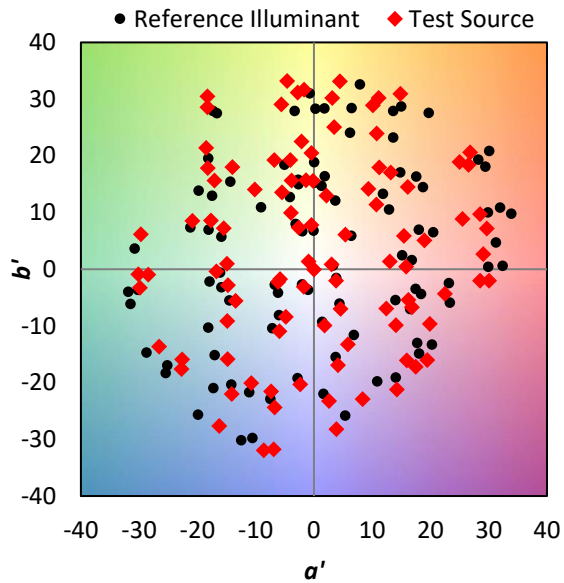
TM-30-18

Summary

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



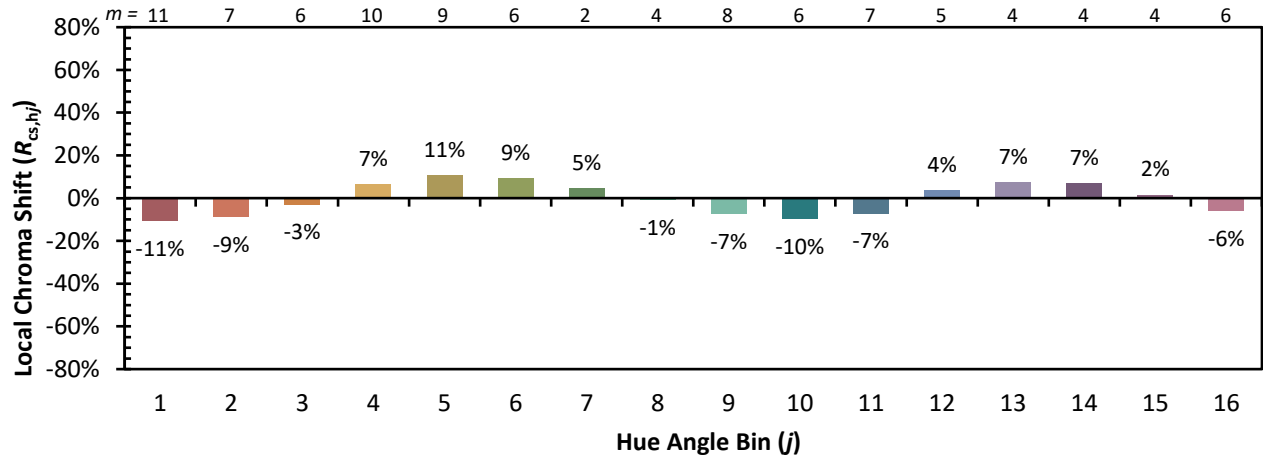
Color Vector Graphics

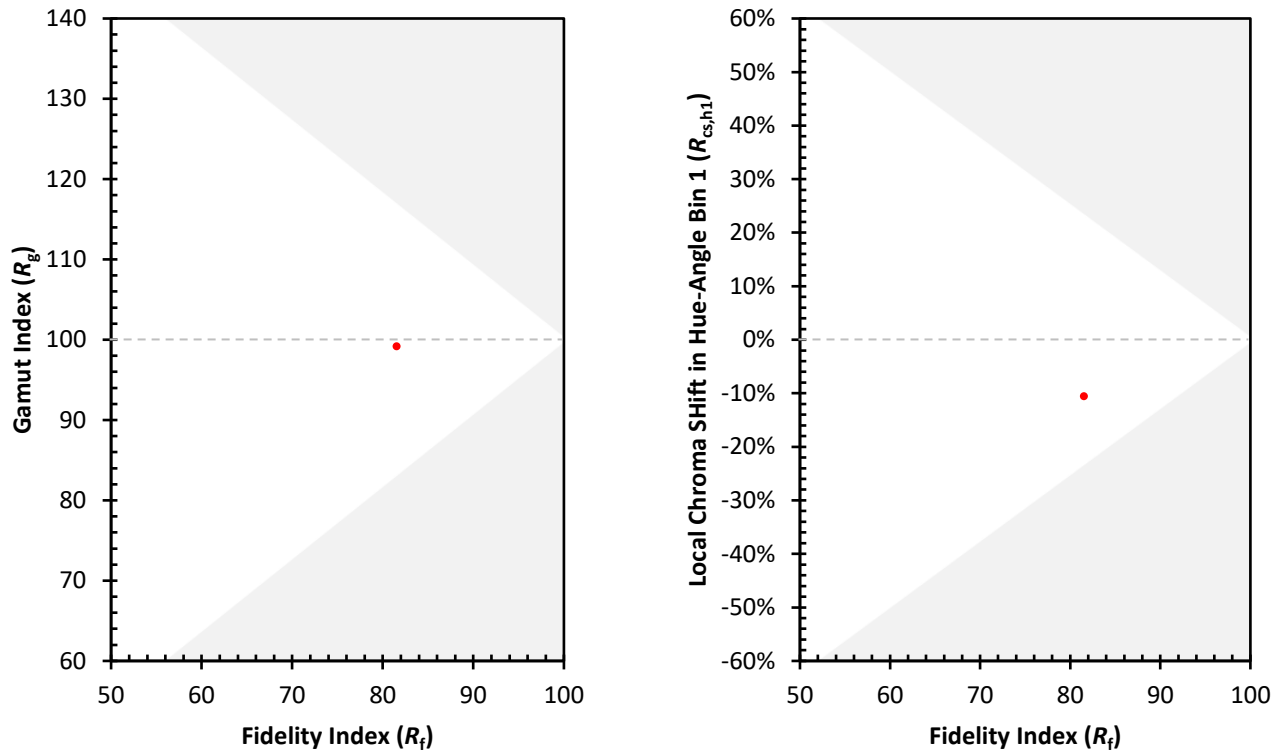


Individual Sample Fidelity Index ($R_{f,i}$)

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)