

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: P324946

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324946
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
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-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6203 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

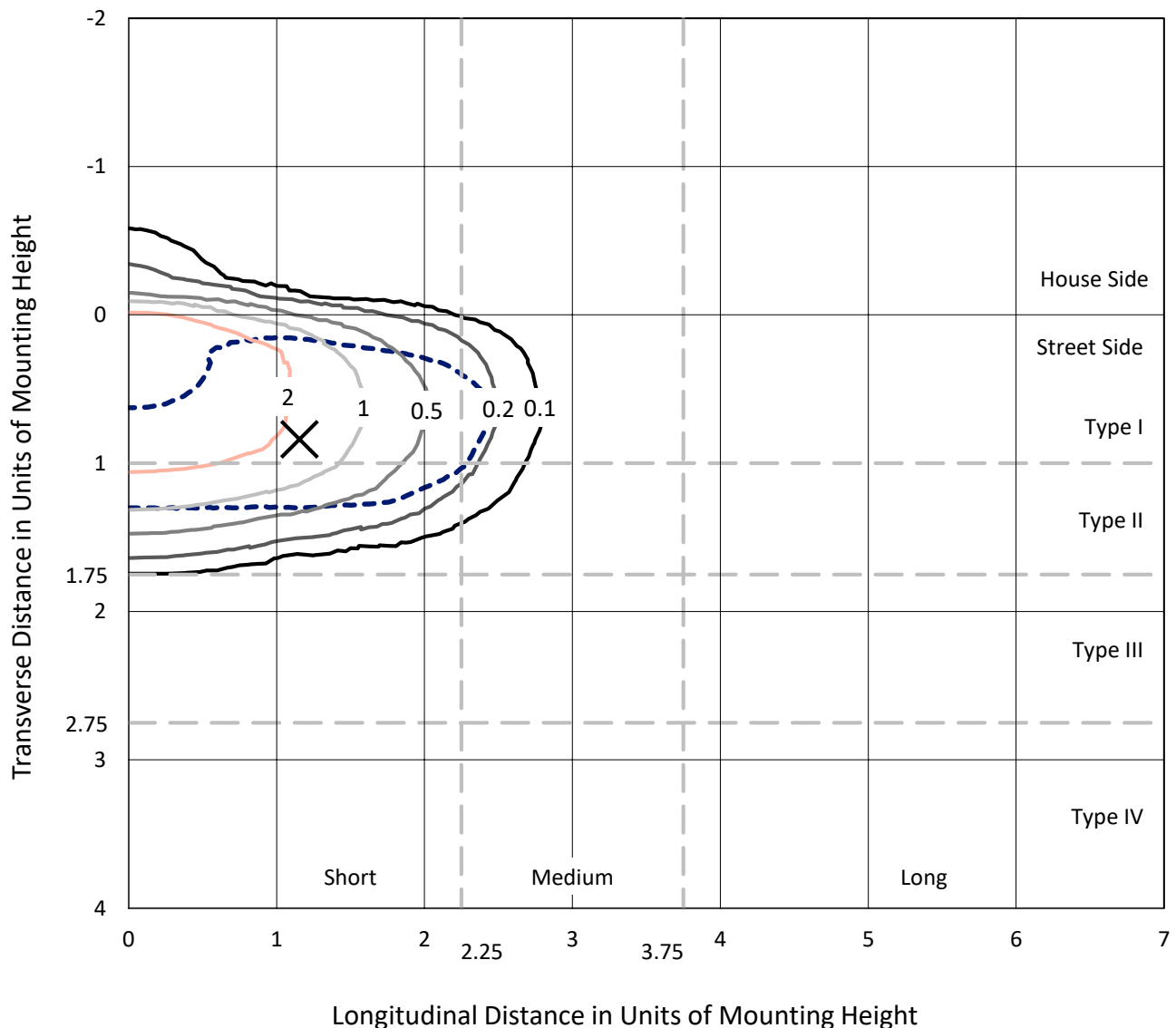
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

Iso-Footcandle Lines of Horizontal Illumination

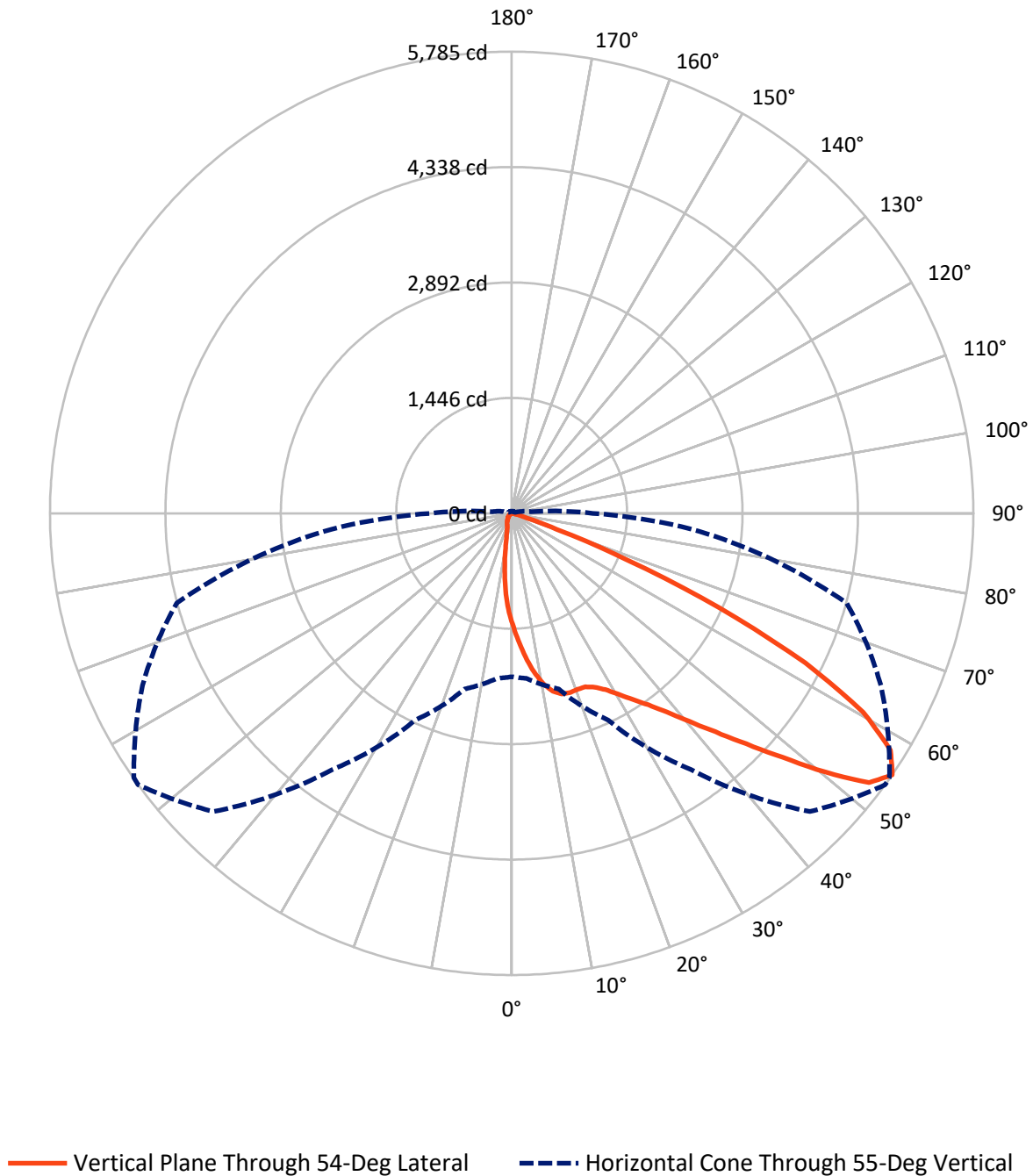
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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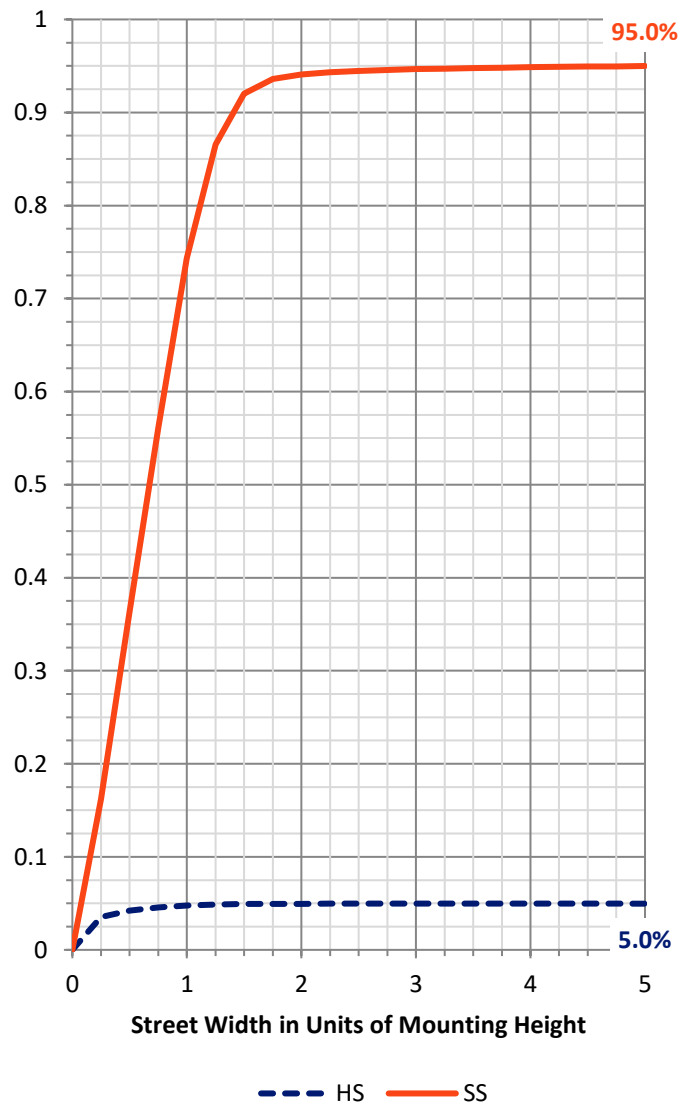
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	309.5	0.0	309.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	5893.5	0.0	5893.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	6203.0	0.0	6203.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.9	2.1
10°-20°	350.9	5.7
20°-30°	599.0	9.7
30°-40°	961.3	15.5
40°-50°	1536.2	24.8
50°-60°	1646.1	26.5
60°-70°	845.2	13.6
70°-80°	128.0	2.1
80°-90°	8.3	0.1
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°	6203.0	100.0
0°-180°	6203.0	100.0

Coefficient of Utilization



REPORT NUMBER: P324946

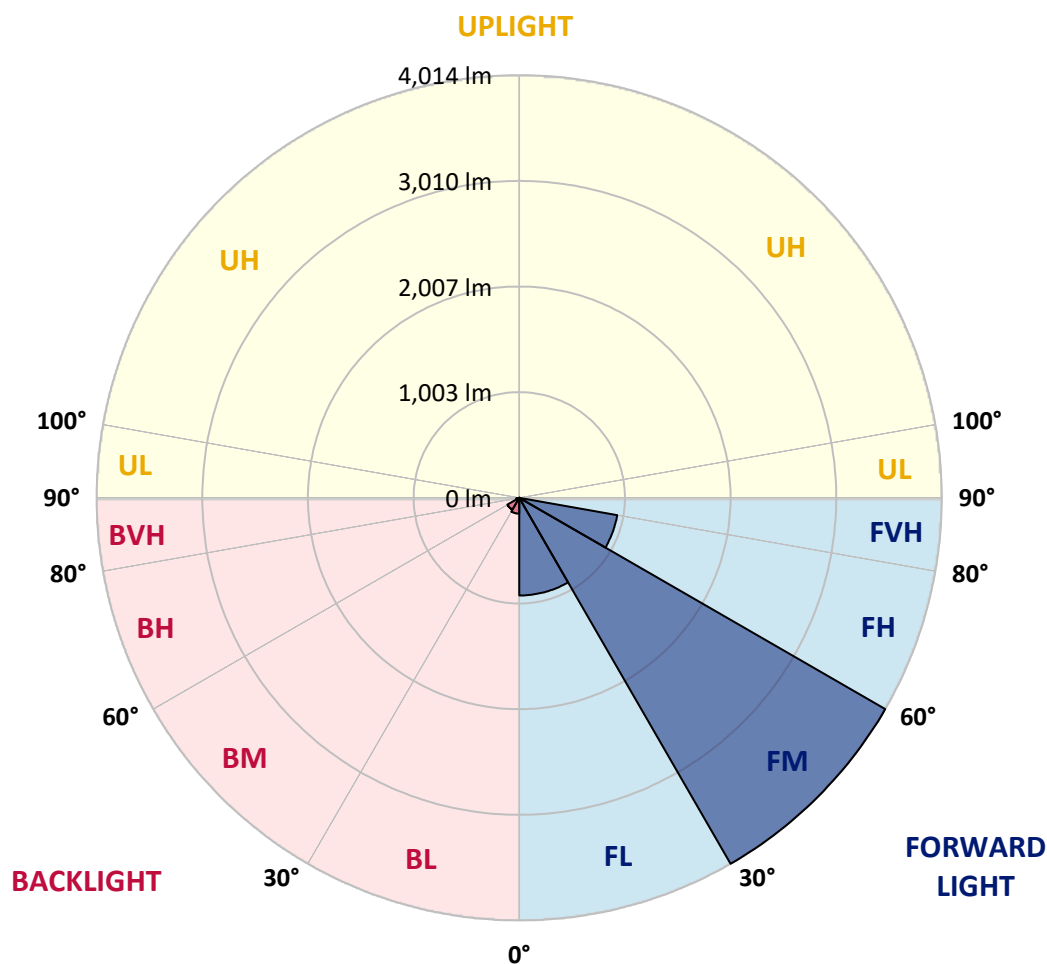
CATALOG NUMBER: GLEON-SA2A-830-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	927.2	14.9			
FM	(30°-60°)	4013.6	64.7			
FH	(60°-80°)	944.7	15.2			G1/1800
FVH	(80°-90°)	8.0	0.1			G0/10
BL	(0°-30°)	150.6	2.4	B1/500		
BM	(30°-60°)	130.0	2.1	B0/220		
BH	(60°-80°)	28.5	0.5	B0/110		G0/110
BVH	(80°-90°)	0.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1389.2	1389.2	1389.2	1389.2	1389.2	1389.2	1389.2	1389.2	1389.2	1389.2	1389.2
2.5°	1743.4	1717.4	1718.2	1706.4	1663.3	1629.5	1594.4	1586.1	1531.5	1474.1	1419.0
5°	2044.7	2025.7	2021.2	1998.4	1938.4	1874.9	1806.8	1791.0	1684.2	1566.8	1451.4
7.5°	2199.6	2199.8	2196.1	2187.8	2150.3	2088.7	2005.6	1989.0	1843.5	1667.5	1485.1
10°	2154.6	2164.7	2185.6	2213.2	2241.9	2234.1	2171.7	2156.7	1998.6	1774.2	1522.6
12.5°	2049.5	2050.9	2074.2	2119.5	2202.0	2286.6	2287.7	2282.6	2146.8	1885.6	1563.9
15°	1997.3	2002.4	2011.0	2040.2	2118.4	2253.9	2350.9	2358.1	2282.6	2004.0	1607.8
17.5°	2031.6	2038.8	2031.6	2035.1	2080.4	2202.2	2361.9	2380.4	2401.3	2121.1	1649.3
20°	2124.6	2131.2	2118.4	2104.2	2113.0	2187.2	2354.1	2379.0	2494.2	2225.0	1684.2
22.5°	2249.9	2252.6	2233.0	2209.7	2203.3	2238.1	2360.6	2386.3	2568.7	2319.0	1706.1
25°	2387.9	2390.3	2365.9	2339.1	2323.9	2338.1	2413.3	2432.6	2634.3	2408.8	1718.7
27.5°	2538.2	2540.3	2509.8	2476.8	2459.1	2459.7	2500.4	2521.0	2704.2	2511.1	1728.9
30°	2697.0	2695.9	2667.8	2622.0	2599.5	2599.0	2625.8	2646.6	2805.5	2642.4	1742.8
32.5°	2875.4	2873.3	2833.4	2776.6	2751.1	2754.9	2778.7	2790.8	2931.1	2782.2	1767.7
35°	3110.3	3104.2	3043.9	2973.5	2926.6	2925.2	2945.3	2955.0	3091.3	2951.5	1809.3
37.5°	3415.2	3409.6	3327.9	3225.5	3159.6	3135.0	3158.8	3171.2	3319.8	3168.7	1876.0
40°	3715.8	3710.1	3661.6	3567.9	3466.4	3407.2	3425.9	3439.0	3605.1	3432.3	1960.1
42.5°	3923.1	3927.9	3944.8	3952.6	3857.5	3733.2	3741.7	3755.4	3904.9	3714.1	2056.2
45°	3977.7	3988.2	4083.6	4270.8	4306.4	4209.5	4119.7	4127.2	4209.5	3996.0	2152.4
47.5°	3813.5	3832.8	4016.9	4365.1	4666.7	4735.3	4565.5	4555.6	4501.7	4223.9	2220.7
50°	3440.4	3458.1	3696.5	4211.6	4776.0	5237.3	5099.6	5070.4	4758.1	4360.3	2244.8
52.5°	2900.3	2921.8	3115.4	3728.3	4570.0	5461.3	5605.4	5581.0	4946.1	4371.0	2248.8
55°	2048.2	2074.2	2279.1	2857.5	3917.2	5283.1	5784.6	5777.4	5102.3	4342.6	2257.4
57.5°	1151.1	1169.8	1390.8	1831.8	2869.0	4601.6	5597.3	5645.3	5196.6	4293.3	2270.3
60°	511.1	516.2	630.6	911.9	1679.6	3516.7	5061.3	5142.2	5115.7	4227.4	2292.0
62.5°	283.4	279.1	279.1	379.0	730.0	2177.1	4127.2	4260.9	4770.4	4149.5	2293.0
65°	222.1	218.1	206.5	208.1	278.1	966.2	2858.0	3095.6	4114.6	3921.0	2215.9
67.5°	188.3	184.8	173.3	168.8	172.8	318.8	1570.3	1817.0	3122.1	3327.1	1919.4
70°	159.1	156.7	150.8	145.2	135.0	157.5	600.9	768.5	1923.9	2213.2	1310.2
72.5°	128.0	127.0	129.1	124.3	112.0	105.0	205.5	248.9	864.2	987.7	539.8
75°	110.4	109.8	110.9	106.1	92.2	73.1	104.5	114.1	243.8	241.6	109.3
77.5°	71.8	72.6	91.9	89.7	79.3	48.8	54.1	58.4	73.9	55.5	33.2
80°	45.8	45.3	46.6	74.5	71.3	37.2	27.1	28.4	35.6	27.3	16.1
82.5°	27.9	27.3	30.5	34.8	35.9	26.0	16.6	16.9	22.2	17.7	8.6
85°	2.4	3.2	18.5	17.1	12.3	8.0	8.0	8.6	11.8	10.4	4.8
87.5°	0.0	0.0	3.2	4.8	2.7	2.9	2.9	3.2	4.6	4.6	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P324946

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1389.2	1389.2	1389.2	1389.2	1389.2	1389.2	1389.2	1389.2	1389.2	1389.2	1389.2
2.5°	1390.3	1362.4	1306.2	1252.1	1206.3	1162.1	1111.7	1061.9	1038.6	1029.2	1019.5
5°	1392.7	1335.4	1219.4	1102.6	981.5	872.5	779.5	684.2	636.5	615.6	605.9
7.5°	1395.9	1308.6	1121.1	925.0	730.0	582.1	453.0	369.9	334.0	328.4	314.5
10°	1396.5	1276.2	1007.0	728.9	489.4	350.9	270.0	227.2	211.4	208.7	204.1
12.5°	1397.5	1237.9	880.3	539.8	326.3	234.7	195.3	181.1	176.8	176.5	176.5
15°	1400.7	1197.7	748.7	389.0	234.4	185.9	171.4	165.8	164.2	165.0	164.7
17.5°	1400.7	1150.3	619.6	289.8	189.4	167.2	159.1	155.4	154.8	155.6	155.9
20°	1390.6	1092.7	501.2	225.6	168.0	155.1	147.9	144.4	143.0	143.6	143.9
22.5°	1366.2	1022.0	404.8	186.7	153.8	144.1	136.4	131.0	128.9	129.1	129.1
25°	1328.1	938.1	316.6	161.5	142.2	132.3	123.2	117.1	115.7	115.5	116.0
27.5°	1279.4	845.4	252.1	142.2	128.6	119.2	110.1	105.0	103.9	104.2	104.5
30°	1231.4	749.3	198.8	125.9	113.3	104.5	97.5	95.1	95.1	95.9	96.2
32.5°	1187.5	656.8	157.2	111.7	99.7	91.6	87.6	87.3	88.7	89.2	89.5
35°	1149.7	571.4	130.2	100.7	88.9	82.0	80.6	81.7	83.3	84.4	84.6
37.5°	1123.0	495.0	113.8	91.6	80.6	75.0	74.7	76.9	79.0	81.4	82.0
40°	1111.7	430.5	102.6	83.6	73.9	69.6	68.8	71.8	75.8	79.3	79.8
42.5°	1102.3	377.7	93.0	75.8	68.6	62.4	62.1	65.9	70.7	74.2	75.0
45°	1094.3	335.4	84.1	67.5	61.6	53.6	54.4	59.2	63.0	66.7	67.5
47.5°	1077.7	300.6	74.5	58.7	50.9	45.8	47.4	51.7	54.6	60.3	61.1
50°	1047.9	272.2	64.6	48.0	41.5	39.6	42.1	45.0	48.8	53.6	54.1
52.5°	1027.9	250.7	56.0	40.2	34.3	34.8	37.2	38.3	40.4	42.3	41.8
55°	1016.3	238.9	49.0	34.8	29.2	30.8	31.3	30.0	28.9	27.1	26.3
57.5°	1015.0	228.2	43.7	30.3	25.7	26.5	24.6	20.1	16.3	14.2	13.7
60°	1012.9	215.1	39.4	25.4	22.8	21.7	17.7	11.0	7.8	7.2	7.2
62.5°	989.5	194.7	36.2	21.4	19.3	16.3	10.2	5.1	4.3	4.6	4.6
65°	915.3	166.4	32.9	17.4	15.3	11.8	5.1	2.9	1.6	1.9	1.9
67.5°	778.2	132.6	29.5	13.4	11.5	7.5	2.9	1.3	0.0	0.0	0.0
70°	521.0	82.2	24.9	9.4	7.5	4.6	2.1	0.3	0.0	0.0	0.0
72.5°	199.8	44.5	20.1	5.6	4.8	3.2	1.3	0.0	0.0	0.0	0.0
75°	45.0	29.2	13.9	4.0	3.5	2.1	0.5	0.0	0.0	0.0	0.0
77.5°	17.1	21.2	8.0	2.7	2.4	1.3	0.0	0.0	0.0	0.0	0.0
80°	8.3	12.6	3.8	1.6	1.3	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	4.3	4.8	1.6	0.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.4	2.4	0.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	0.8	0.3	0.3	0.0	0.0	0.0	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: SP1-2408-195-9

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

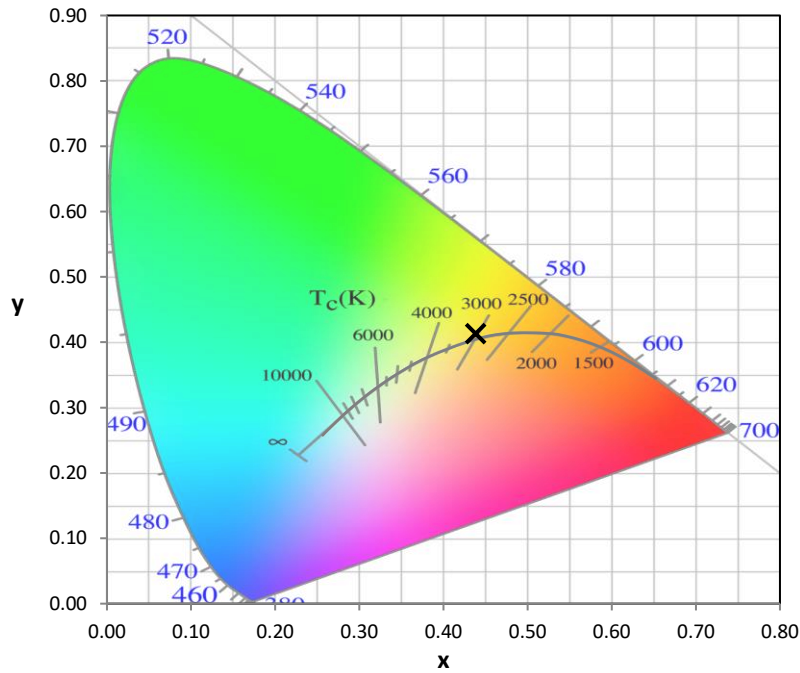
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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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

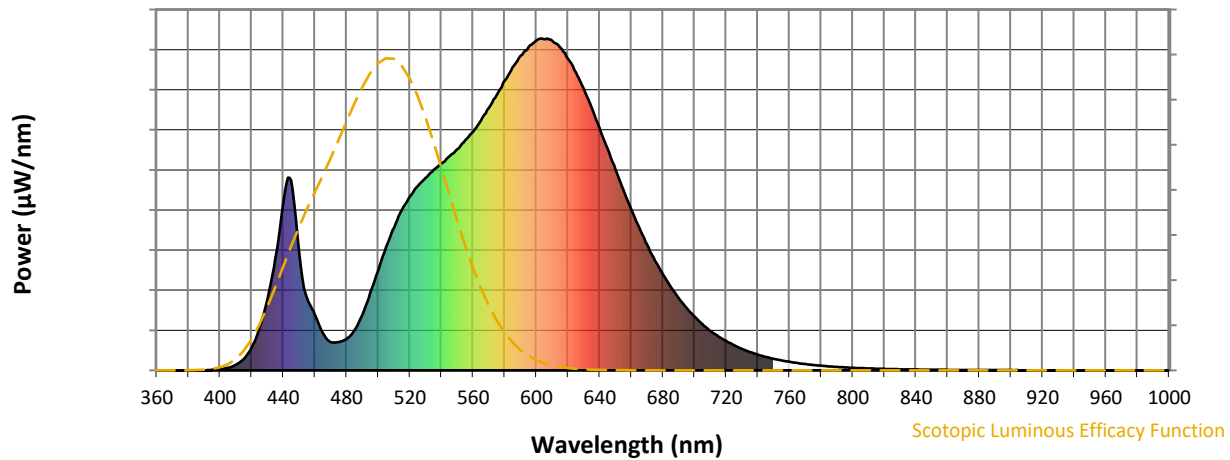


Photopic Lumens: NR

λ (nm)	Power 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



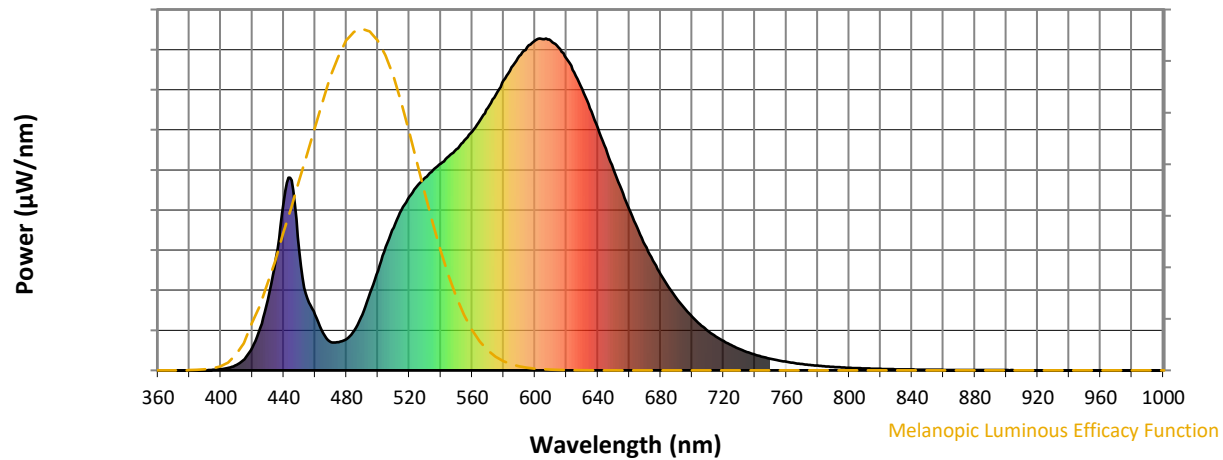
Scotopic Lumens: NR

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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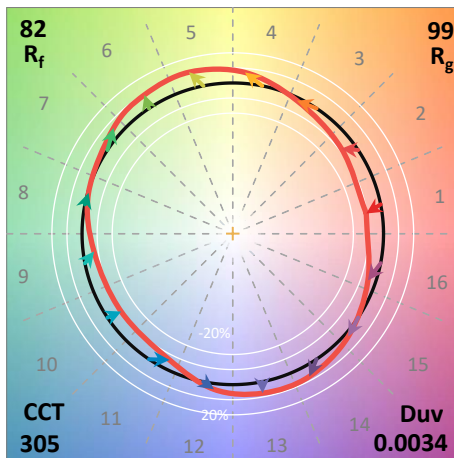
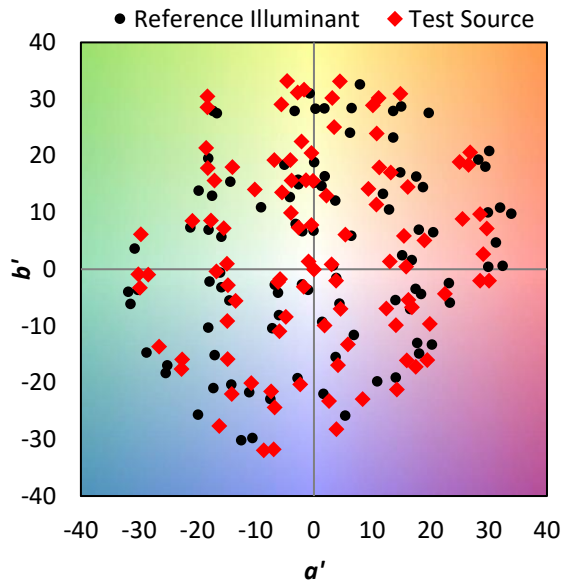
TM-30-18

Summary

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



Color Vector Graphics

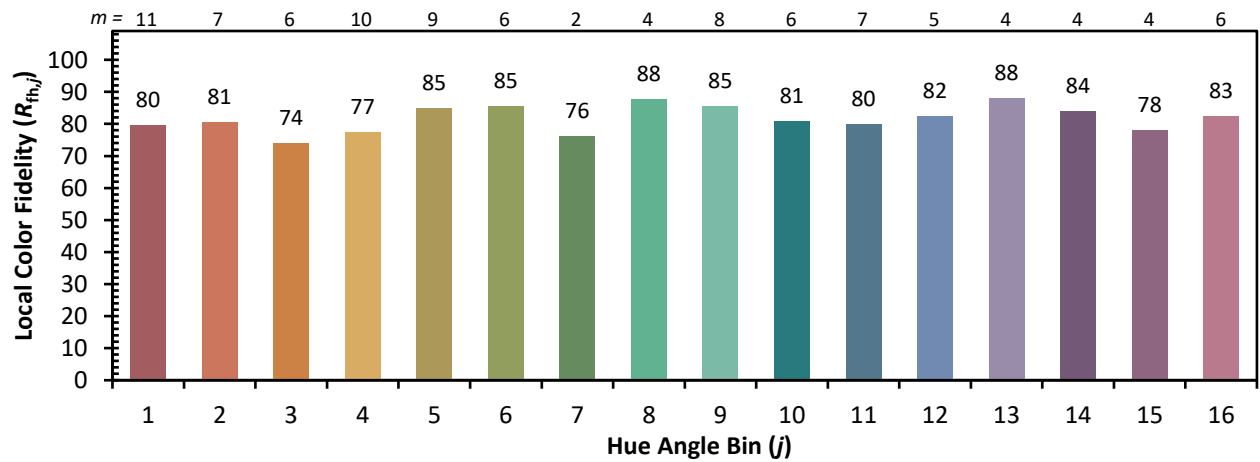
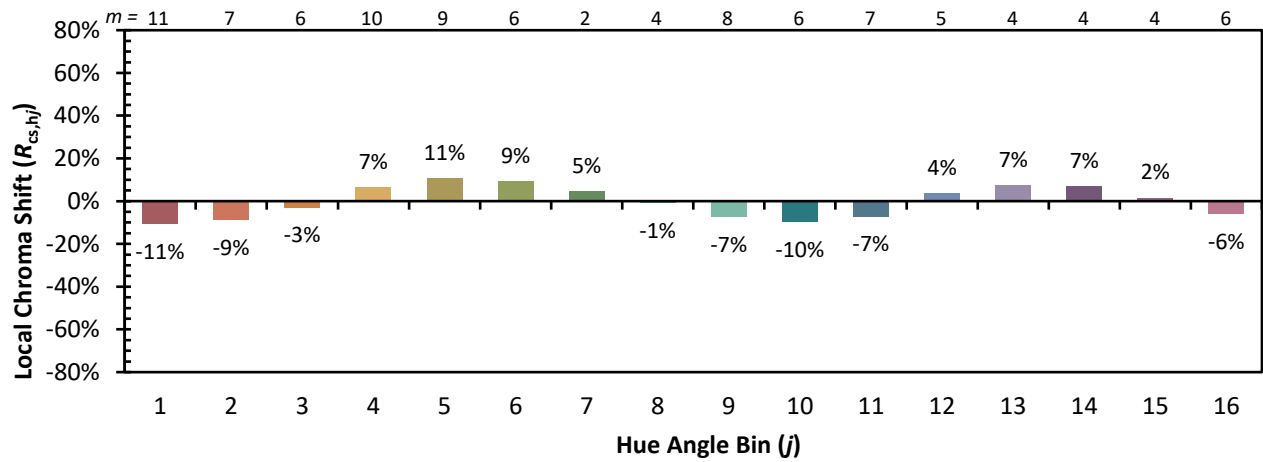


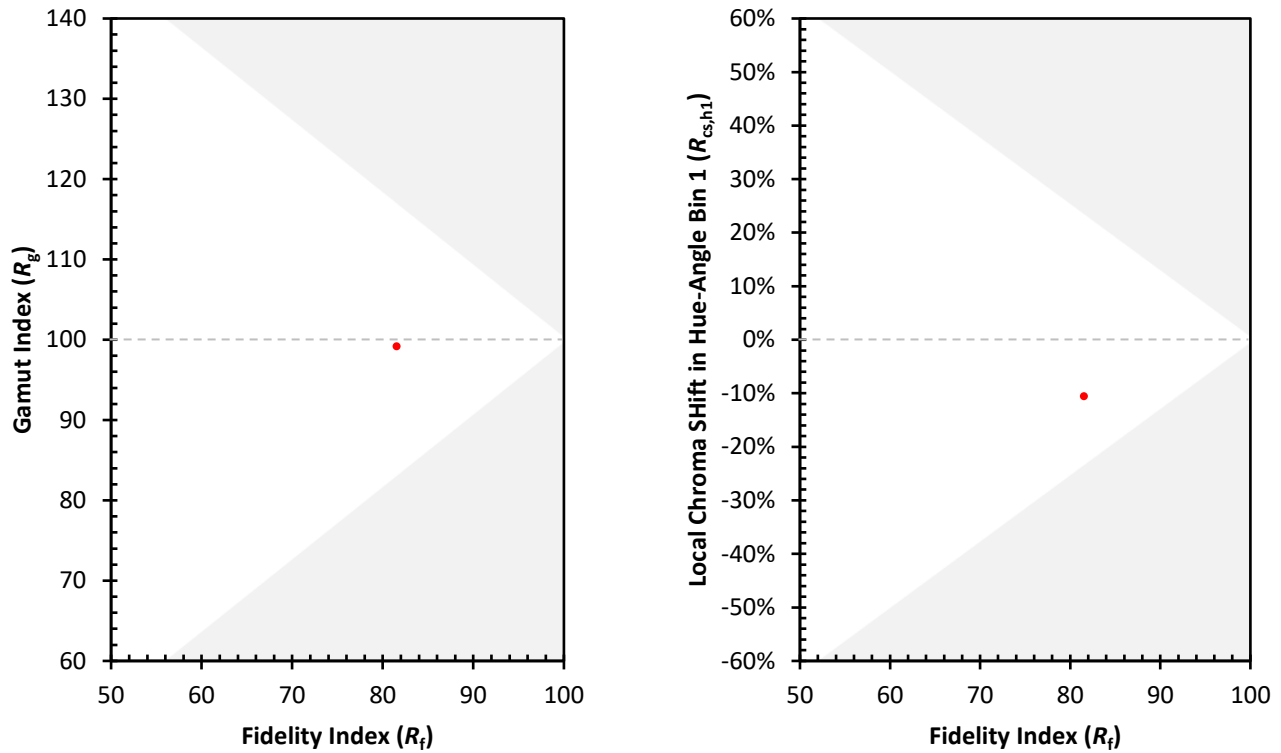
Individual Sample Fidelity Index ($R_{f,i}$)

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)