

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: P323346

Luminaire Tested: **GLEON-SA2A-830-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323346
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
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-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6276 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

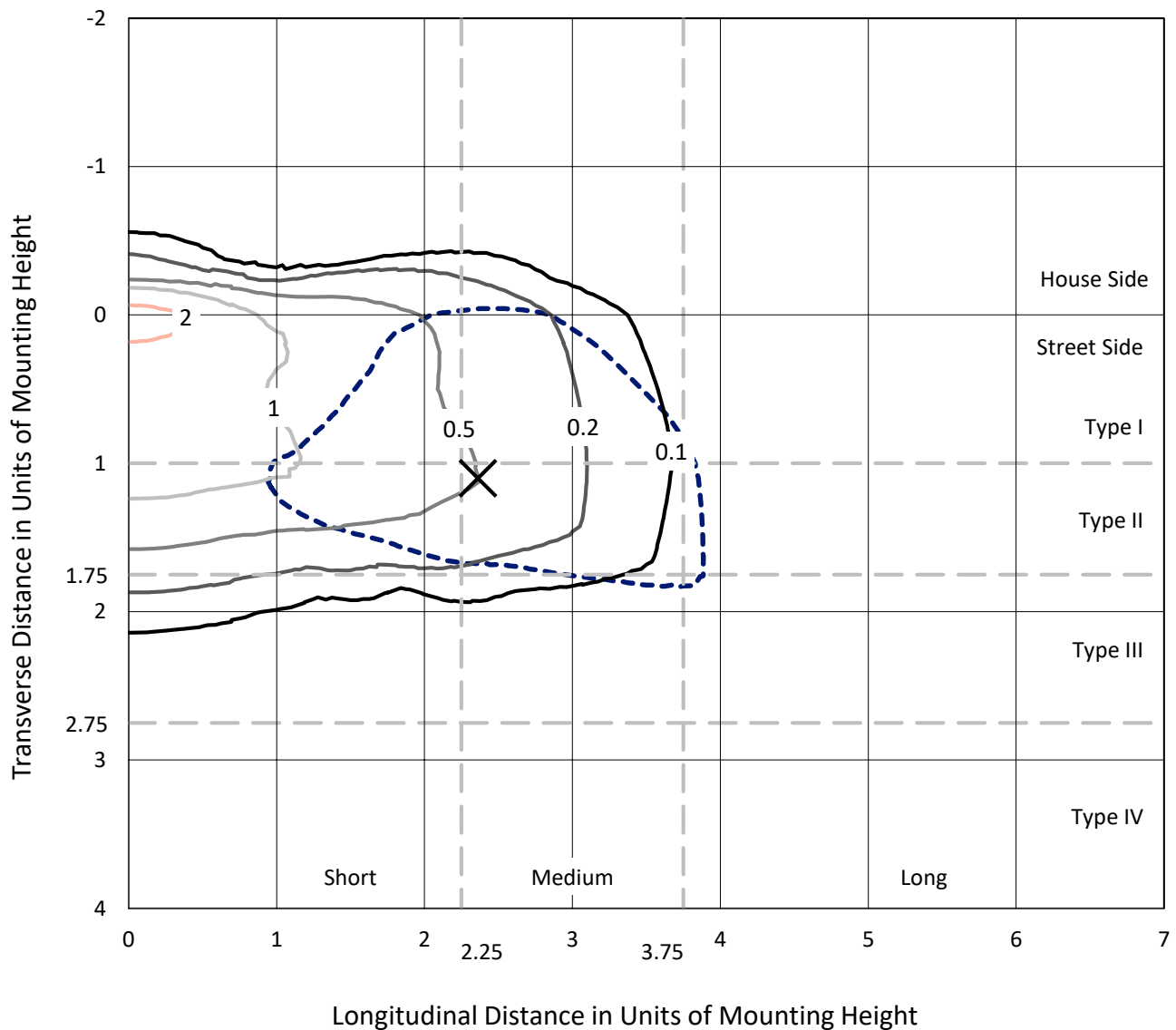
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

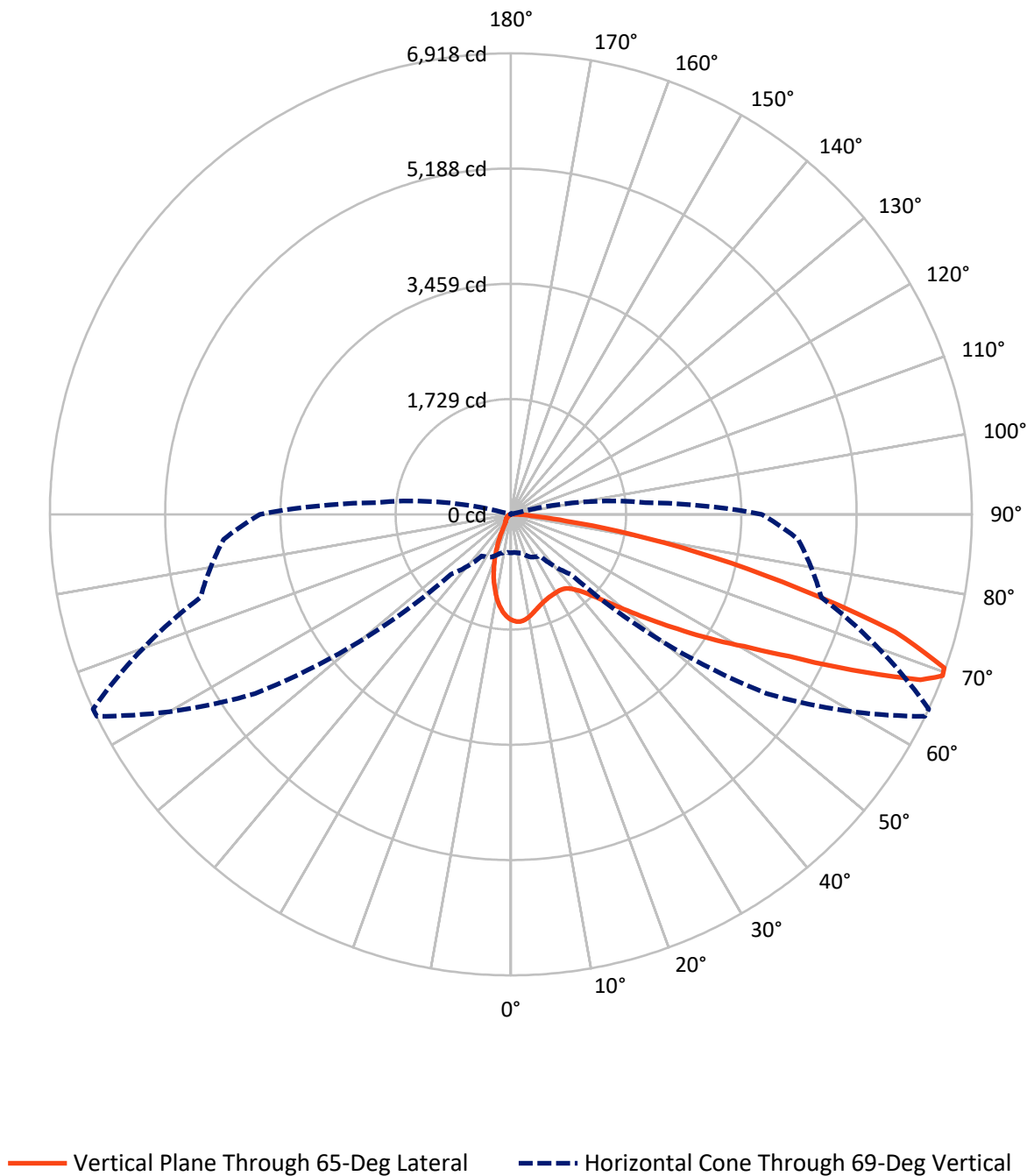
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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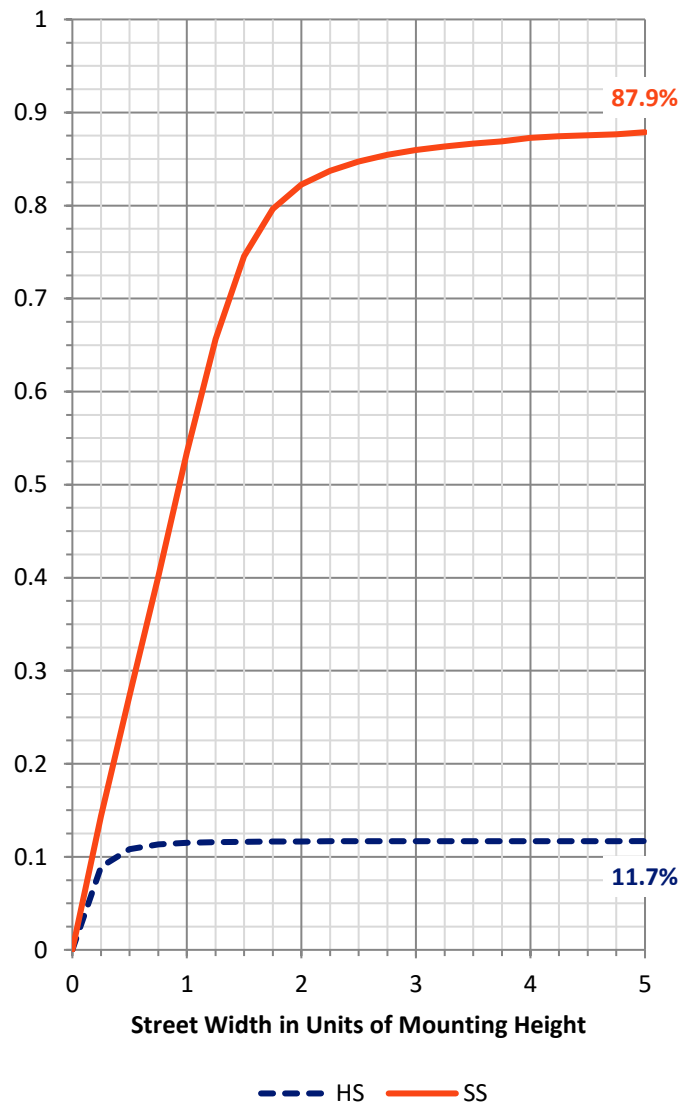
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	739.8	0.0	739.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	5536.2	0.0	5536.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	6276.0	0.0	6276.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.6	2.1
10°-20°	290.3	4.6
20°-30°	402.1	6.4
30°-40°	560.6	8.9
40°-50°	871.4	13.9
50°-60°	1399.0	22.3
60°-70°	1582.5	25.2
70°-80°	929.4	14.8
80°-90°	108.1	1.7
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°	6276.0	100.0
0°-180°	6276.0	100.0

Coefficient of Utilization



REPORT NUMBER: P323346

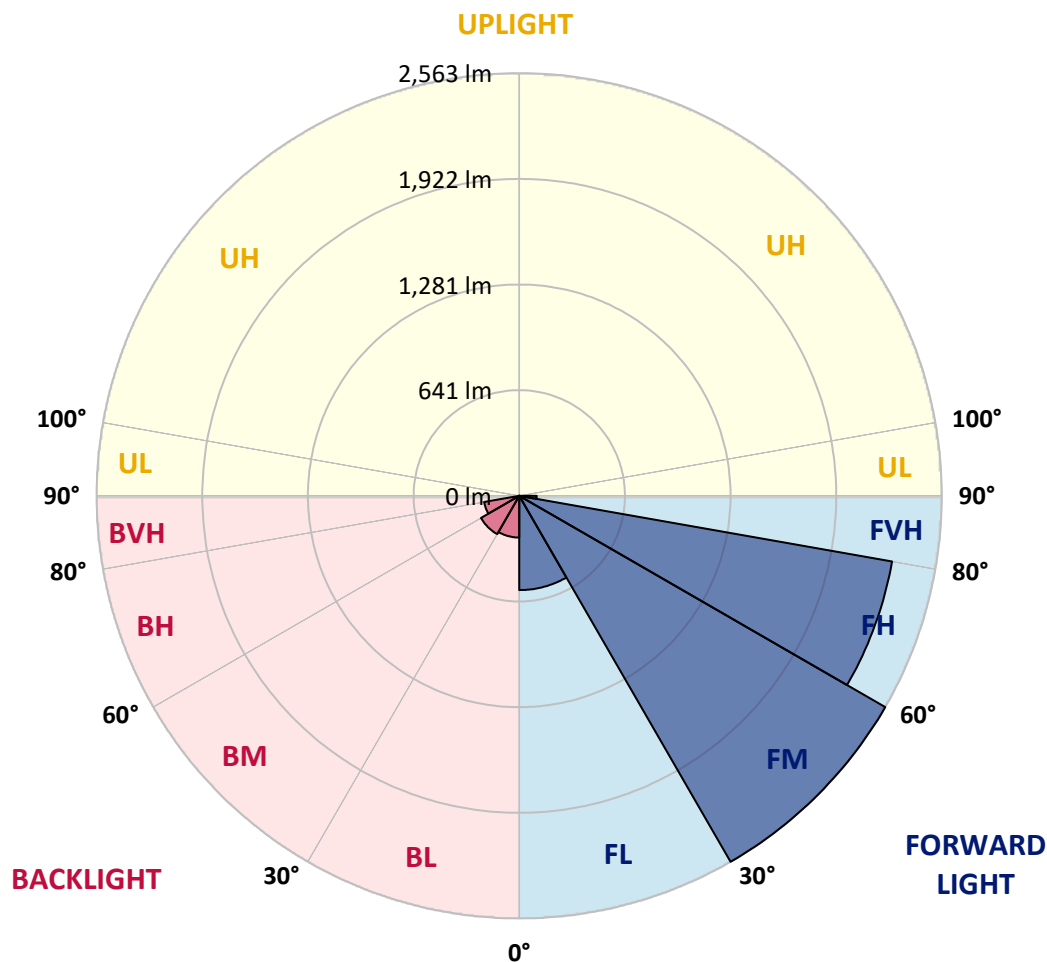
CATALOG NUMBER: GLEON-SA2A-830-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	571.9	9.1			
FM	(30°-60°)	2562.9	40.8			
FH	(60°-80°)	2295.7	36.6			G2/5000
FVH	(80°-90°)	105.7	1.7			G2/225
BL	(0°-30°)	253.1	4.0	B1/500		
BM	(30°-60°)	268.1	4.3	B1/1000		
BH	(60°-80°)	216.2	3.4	B1/500		G1/500
BVH	(80°-90°)	2.4	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-G2

Type III Medium



REPORT NUMBER: P323346

CATALOG NUMBER: GLEON-SA2A-830-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1586.0	1586.0	1586.0	1586.0	1586.0	1586.0	1586.0	1586.0	1586.0	1586.0	1586.0
2.5°	1600.0	1596.0	1599.2	1606.1	1609.6	1609.6	1612.2	1609.1	1610.1	1602.4	1591.3
5°	1499.9	1493.8	1502.6	1522.0	1545.9	1566.3	1596.6	1612.5	1614.1	1614.4	1601.4
7.5°	1392.1	1386.5	1399.5	1422.4	1453.2	1491.1	1544.0	1590.2	1592.9	1617.8	1608.3
10°	1304.5	1300.5	1315.6	1340.0	1376.2	1418.7	1483.4	1547.7	1555.4	1610.7	1607.2
12.5°	1234.9	1231.7	1246.0	1274.2	1311.1	1358.1	1425.8	1500.4	1510.8	1594.5	1601.9
15°	1184.2	1183.6	1195.6	1222.7	1263.6	1307.4	1376.7	1456.6	1468.6	1576.9	1601.1
17.5°	1157.6	1158.4	1167.2	1190.3	1225.3	1268.9	1335.3	1419.7	1432.7	1561.3	1605.1
20°	1154.9	1155.7	1160.5	1173.5	1201.9	1240.5	1301.5	1388.6	1402.2	1549.6	1611.5
22.5°	1178.3	1177.8	1179.1	1177.8	1193.7	1222.9	1279.2	1364.7	1380.4	1541.9	1616.5
25°	1223.2	1222.4	1221.9	1212.0	1201.4	1217.1	1269.9	1351.2	1366.1	1536.3	1619.4
27.5°	1285.6	1285.1	1284.3	1268.1	1236.2	1226.4	1271.0	1346.2	1358.6	1531.8	1618.9
30°	1367.7	1371.4	1370.3	1347.7	1298.1	1254.8	1282.1	1343.5	1354.4	1523.0	1613.3
32.5°	1464.1	1471.5	1477.3	1453.2	1391.0	1311.1	1307.9	1346.4	1354.4	1516.4	1603.2
35°	1564.2	1573.7	1595.3	1586.8	1505.0	1395.8	1352.3	1363.9	1370.6	1520.1	1598.4
37.5°	1662.7	1674.1	1720.9	1745.6	1654.2	1507.9	1421.3	1407.2	1410.7	1542.7	1603.7
40°	1777.2	1794.4	1865.3	1905.2	1832.4	1657.9	1524.6	1481.6	1482.9	1592.3	1628.4
42.5°	1927.5	1945.3	2022.0	2084.4	2033.2	1847.5	1664.8	1595.3	1593.9	1685.3	1686.6
45°	2110.7	2129.3	2208.7	2278.0	2254.9	2072.2	1844.4	1761.2	1759.6	1831.9	1796.8
47.5°	2318.4	2336.7	2407.6	2479.1	2504.0	2334.6	2073.0	1987.8	1984.0	2035.6	1967.0
50°	2496.6	2508.5	2573.9	2670.0	2782.6	2657.0	2357.4	2275.4	2271.4	2306.2	2216.9
52.5°	2561.4	2568.3	2634.7	2769.3	3050.3	3093.6	2731.1	2625.4	2622.5	2637.6	2549.7
55°	2430.2	2442.7	2524.2	2723.9	3195.3	3587.0	3202.7	3058.8	3036.7	3004.1	2897.6
57.5°	2072.7	2092.7	2180.3	2445.9	3127.6	3978.4	3895.8	3549.0	3516.6	3316.9	3180.4
60°	1553.0	1577.5	1650.2	1936.8	2766.1	4117.9	4653.2	4095.3	4022.3	3566.0	3440.4
62.5°	1065.7	1077.9	1127.3	1314.0	2037.2	3889.5	5286.9	4826.9	4693.6	3836.9	3721.6
65°	814.0	818.2	838.4	902.7	1213.1	3159.4	5538.9	5792.2	5631.0	4160.9	4013.5
67.5°	655.9	652.5	680.4	772.3	812.4	1927.5	5244.9	6705.5	6630.1	4594.0	4307.2
69°	578.4	573.6	602.0	708.8	763.0	1274.2	4688.8	6912.9	6917.7	4822.7	4327.4
70°	520.5	523.7	551.8	671.1	746.2	1000.1	4157.7	6860.1	6897.8	4908.2	4206.3
72.5°	347.6	356.1	412.7	557.2	717.6	756.9	2510.4	5886.8	6031.8	4715.6	3608.8
75°	196.0	202.4	269.5	420.1	676.1	720.7	1326.0	4336.9	4477.2	3943.4	2782.9
77.5°	96.1	99.6	152.4	271.1	565.4	686.8	752.1	2945.9	3106.1	2573.9	1574.0
80°	40.6	42.5	76.2	167.3	404.2	655.4	558.5	1813.0	1832.9	1008.4	419.3
82.5°	15.7	16.2	32.1	104.4	256.8	510.9	467.1	859.6	838.9	189.9	95.6
85°	1.9	2.1	11.7	62.7	142.9	262.9	379.5	370.5	342.8	37.7	49.1
87.5°	0.0	0.0	0.8	19.1	42.5	123.2	197.3	153.8	138.6	12.2	25.5
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-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1586.0	1586.0	1586.0	1586.0	1586.0	1586.0	1586.0	1586.0	1586.0	1586.0	1586.0
2.5°	1582.0	1579.3	1565.0	1544.3	1524.6	1500.2	1476.8	1462.7	1451.6	1444.1	1452.9
5°	1586.2	1574.5	1531.0	1475.2	1420.5	1358.9	1301.5	1252.9	1233.8	1212.6	1222.1
7.5°	1584.9	1562.9	1484.5	1385.2	1284.8	1181.0	1082.7	1007.0	967.7	929.2	939.0
10°	1578.3	1541.1	1422.4	1275.2	1124.9	975.7	836.3	730.3	671.1	617.4	625.1
12.5°	1563.6	1511.9	1349.1	1149.4	948.3	751.5	588.2	452.5	379.8	347.6	351.6
15°	1554.9	1483.4	1271.5	1021.9	759.8	523.4	359.6	267.4	234.2	223.6	224.9
17.5°	1550.6	1456.1	1191.3	876.1	567.0	333.3	232.4	205.0	197.8	196.0	196.5
20°	1546.4	1428.5	1108.7	731.9	390.6	224.1	190.9	183.0	180.3	177.9	178.5
22.5°	1539.2	1401.9	1020.0	585.8	263.4	181.9	172.1	164.4	158.8	155.9	156.4
25°	1530.5	1374.0	929.5	436.3	192.3	162.3	153.0	142.1	135.4	130.1	130.4
27.5°	1516.4	1339.8	836.0	317.6	161.5	145.3	132.8	120.8	109.7	103.6	103.6
30°	1496.7	1301.0	732.2	227.3	144.7	128.5	113.4	98.5	86.6	81.0	80.5
32.5°	1474.9	1260.6	627.3	172.4	131.5	112.9	95.6	79.9	69.3	64.8	64.5
35°	1456.4	1217.1	522.6	144.5	118.2	97.7	78.9	65.6	57.1	53.4	53.1
37.5°	1444.4	1173.5	420.7	129.1	106.2	83.7	66.1	54.2	48.1	45.1	44.9
40°	1442.6	1141.1	327.4	117.4	95.1	71.2	55.2	45.9	40.4	37.2	36.9
42.5°	1466.7	1122.5	251.2	107.6	83.7	60.3	47.0	39.3	33.5	30.3	30.0
45°	1530.2	1128.4	193.3	98.8	72.2	51.0	39.8	32.7	27.4	25.0	24.4
47.5°	1646.0	1168.8	153.8	90.0	61.3	43.3	34.0	27.1	22.6	20.2	19.9
50°	1852.1	1263.6	128.5	80.5	51.3	36.9	28.1	22.0	18.3	16.2	15.9
52.5°	2125.6	1432.5	114.7	71.2	42.5	31.3	23.1	17.5	14.3	12.7	12.5
55°	2427.3	1636.9	105.7	61.1	34.8	26.0	18.3	13.8	11.2	9.8	9.3
57.5°	2721.8	1814.1	97.2	51.3	28.9	21.2	14.6	10.9	8.8	7.4	7.2
60°	2992.4	1976.9	87.4	41.2	23.6	16.7	11.4	8.5	6.9	5.6	5.6
62.5°	3282.1	2102.7	73.8	32.1	19.4	12.7	9.3	7.7	5.6	4.8	4.5
65°	3589.1	2196.2	57.9	25.0	15.1	9.6	7.7	8.0	4.5	3.5	3.2
67.5°	3815.9	2177.6	42.8	19.7	11.7	7.4	7.4	8.5	4.0	2.7	2.4
69°	3766.0	2026.5	35.9	17.0	10.1	6.4	6.9	8.5	3.7	2.4	2.1
70°	3621.2	1859.2	31.6	15.1	9.0	5.8	6.6	8.2	3.5	2.4	2.1
72.5°	3015.8	1400.3	24.7	11.4	7.2	4.8	5.6	7.2	3.5	2.4	1.9
75°	2268.5	896.3	18.9	8.2	5.3	3.7	4.2	5.3	3.5	2.1	1.9
77.5°	1234.3	323.2	13.5	5.6	3.7	2.9	2.9	4.0	3.2	1.6	1.1
80°	317.4	81.3	8.5	3.7	2.9	2.1	1.9	2.7	1.9	0.3	0.0
82.5°	78.3	18.3	4.5	2.7	2.1	0.8	0.8	1.3	0.8	0.0	0.0
85°	43.0	9.0	2.9	1.9	1.1	0.0	0.0	0.3	0.0	0.0	0.0
87.5°	22.0	2.7	0.8	0.5	0.3	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
 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



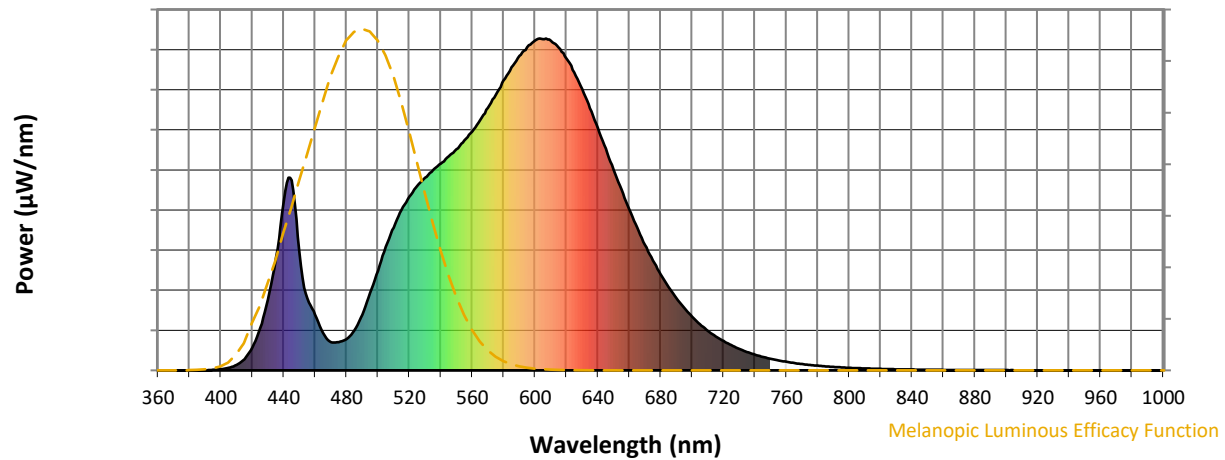
Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.32

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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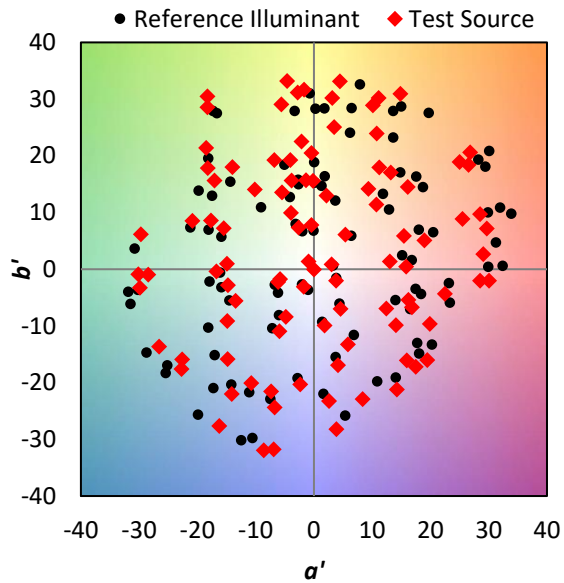
TM-30-18

Summary

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



Color Vector Graphics

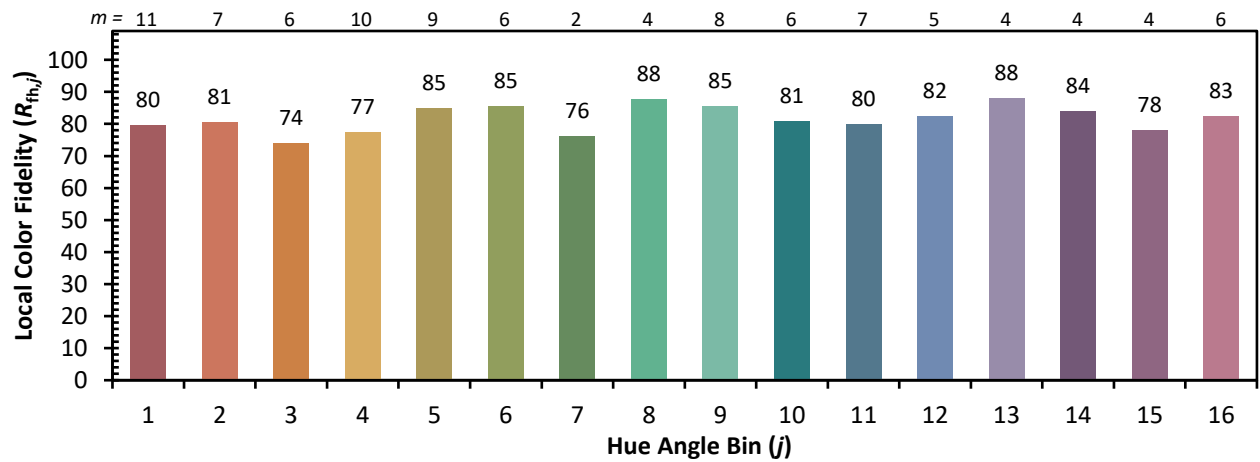
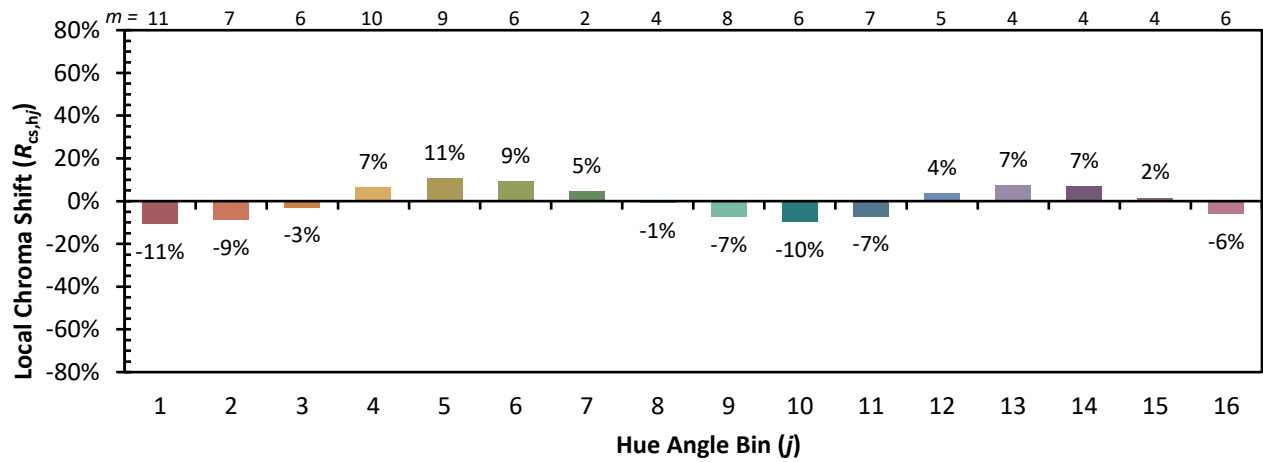


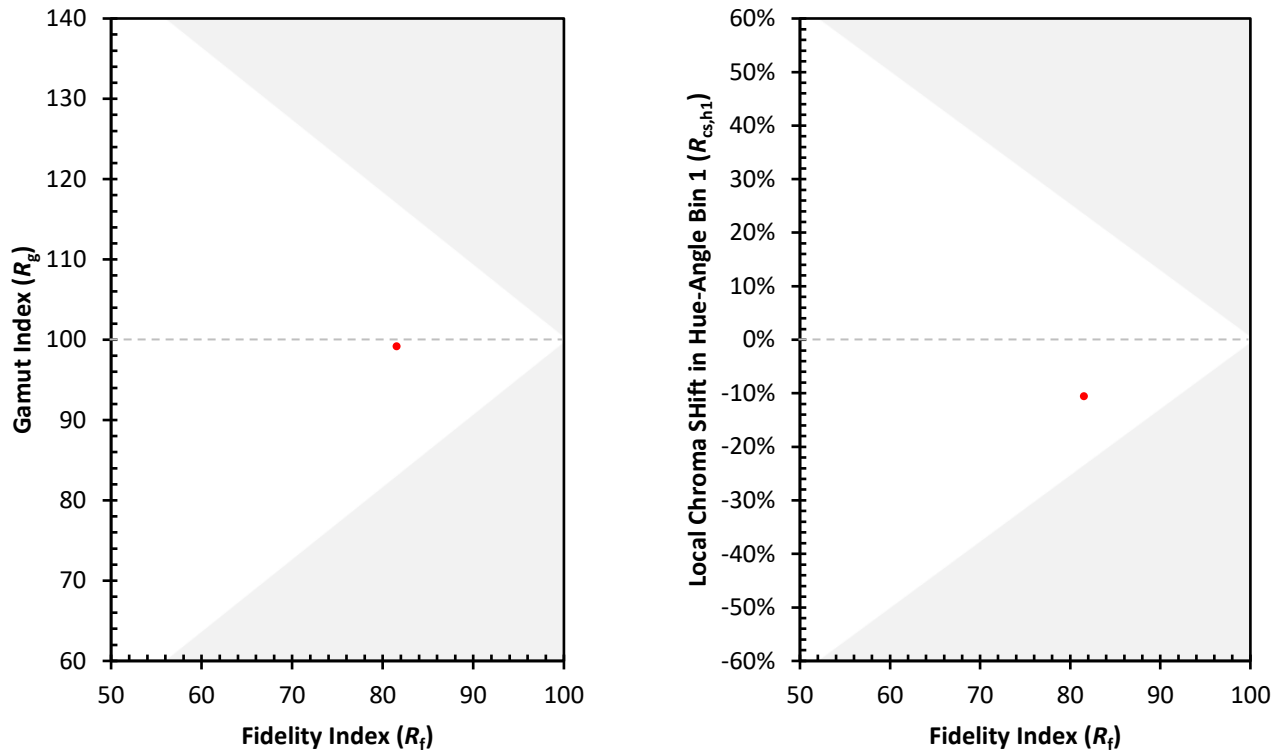
Individual Sample Fidelity Index ($R_{f,i}$)

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)