

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: P319197

Luminaire Tested: **GLEON-SA3B-830-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319197
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3B-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13766 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 124
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

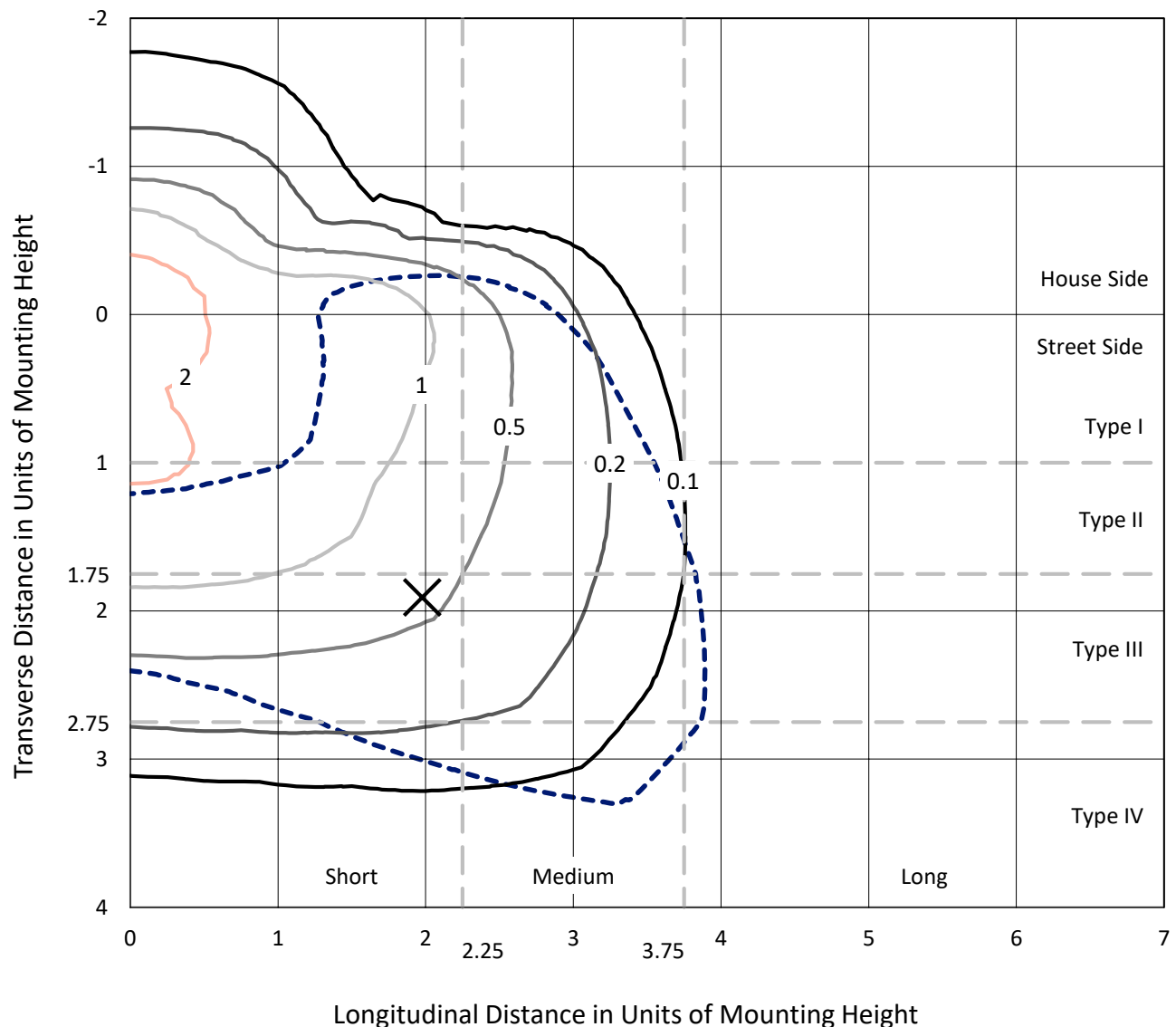


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Iso-Footcandle Lines of Horizontal Illumination

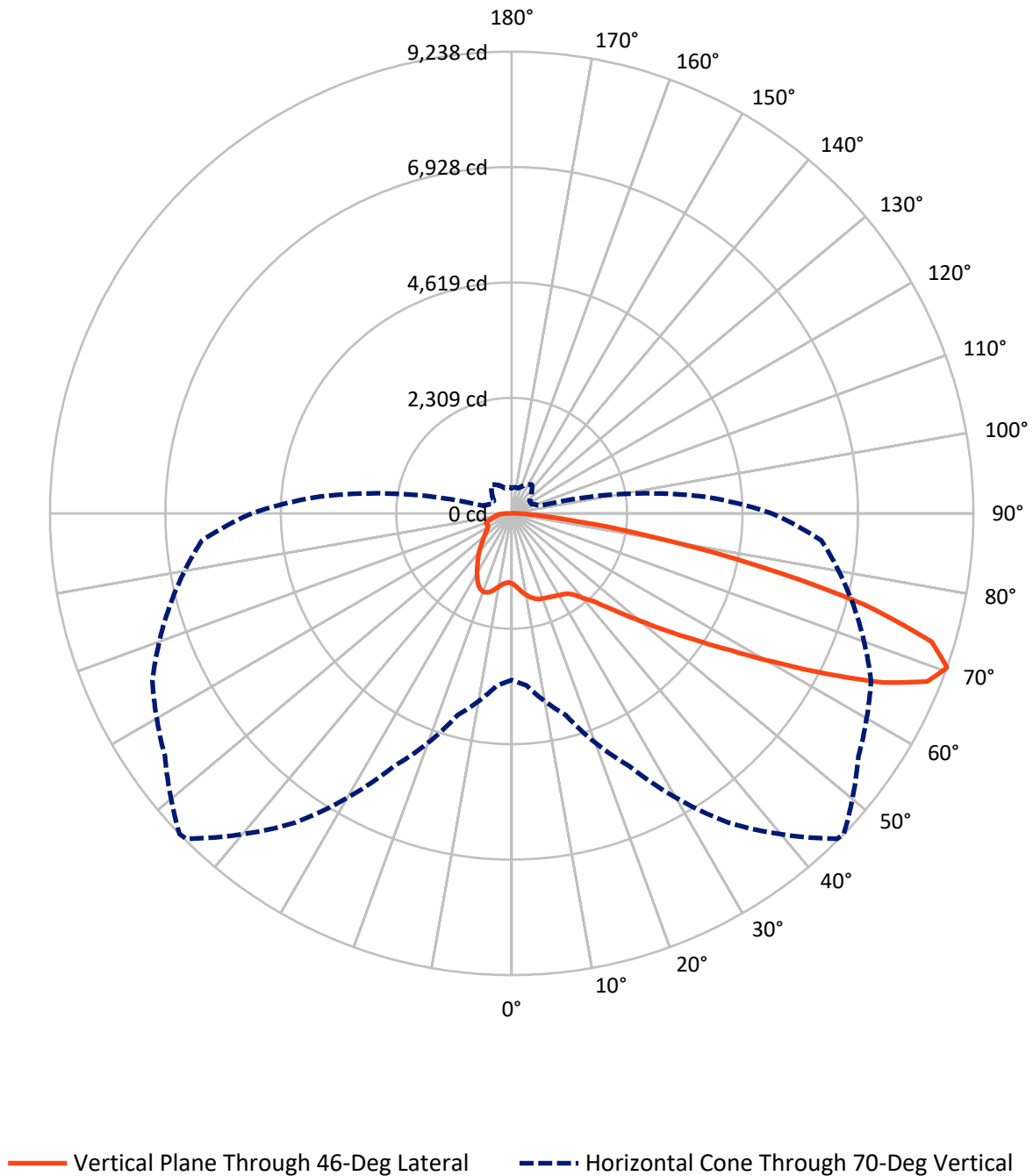
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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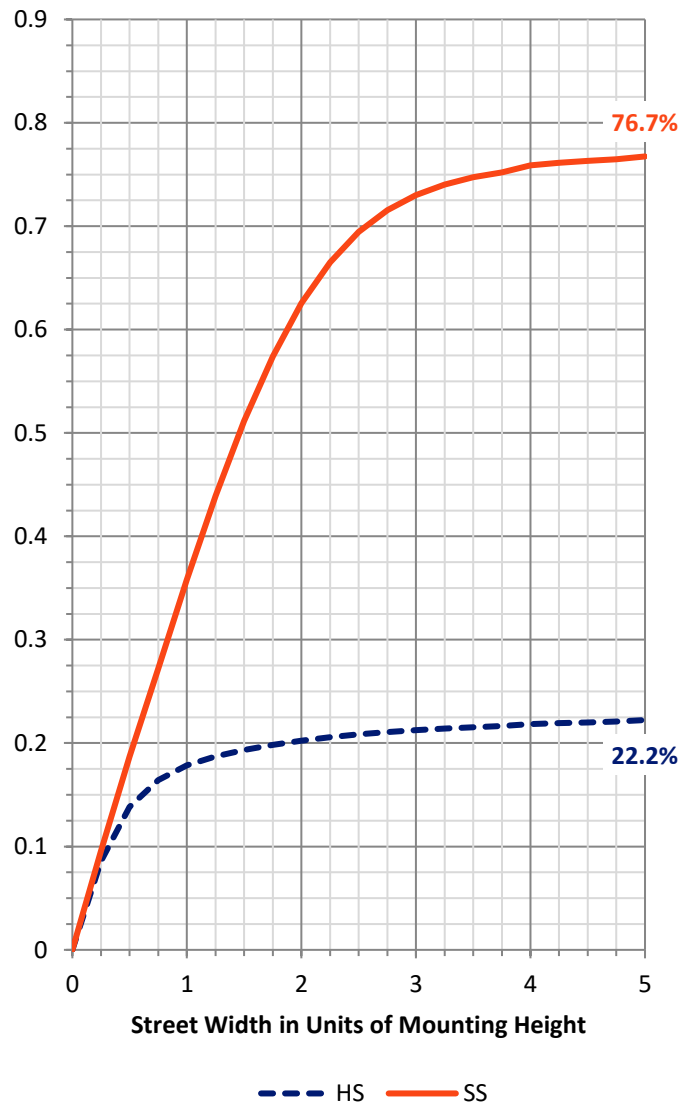
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3155.1	0.0	3155.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	10610.9	0.0	10610.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	13766.0	0.0	13766.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.0	1.0
10°-20°	476.3	3.5
20°-30°	794.2	5.8
30°-40°	1127.1	8.2
40°-50°	1657.9	12.0
50°-60°	2807.6	20.4
60°-70°	3985.4	29.0
70°-80°	2421.1	17.6
80°-90°	353.3	2.6
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°	13766.0	100.0
0°-180°	13766.0	100.0

Coefficient of Utilization



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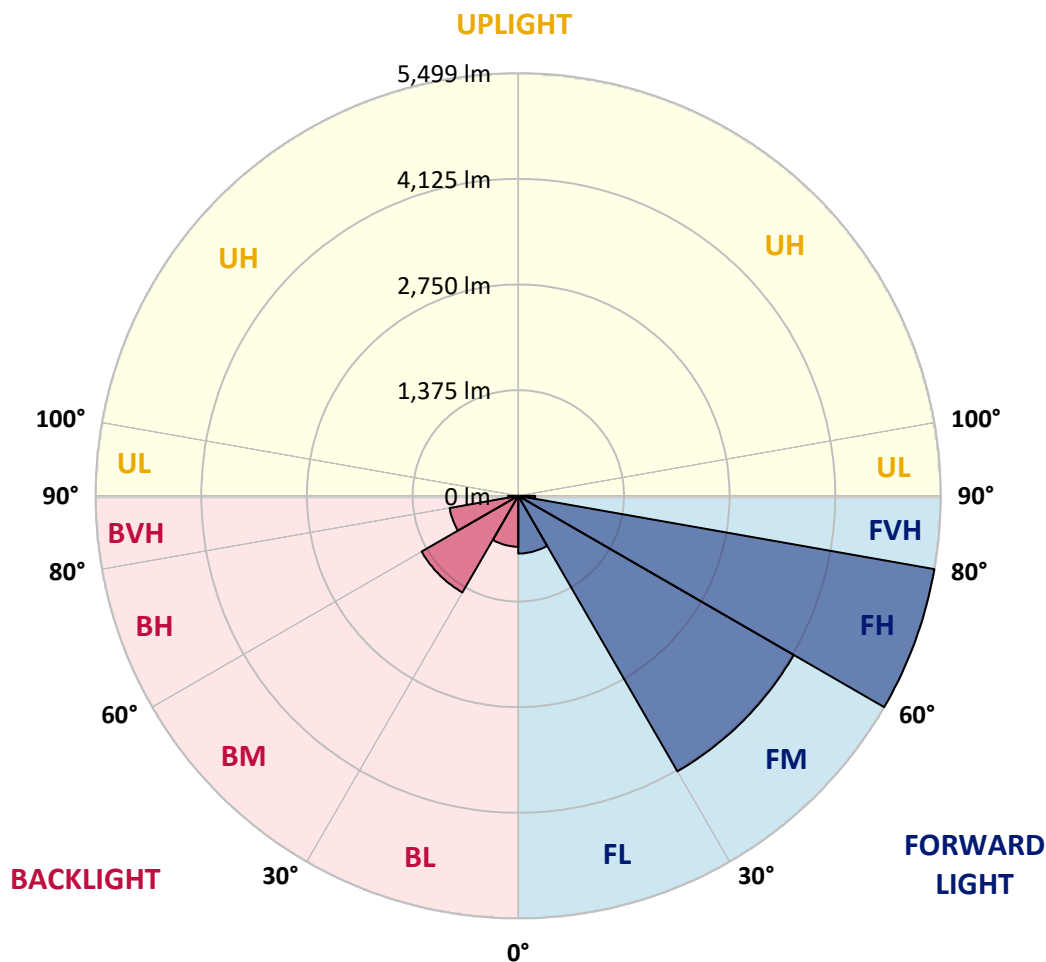
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	751.1	5.5			
FM	(30°-60°)	4140.2	30.1			
FH	(60°-80°)	5499.4	39.9			G3/7500
FVH	(80°-90°)	220.1	1.6			G2/225
BL	(0°-30°)	662.4	4.8	B2/1000		
BM	(30°-60°)	1452.4	10.6	B2/2500		
BH	(60°-80°)	907.1	6.6	B2/1000		G2/1000
BVH	(80°-90°)	133.2	1.0			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1402.5	1402.5	1402.5	1402.5	1402.5	1402.5	1402.5	1402.5	1402.5	1402.5	1402.5
2.5°	1472.7	1473.6	1475.5	1470.8	1457.6	1453.8	1452.4	1438.8	1429.8	1416.6	1405.3
5°	1590.5	1591.4	1588.6	1575.4	1546.2	1524.5	1522.6	1491.5	1463.3	1433.1	1410.5
7.5°	1713.4	1714.8	1705.9	1680.9	1639.9	1602.2	1599.9	1557.5	1514.6	1468.9	1435.0
10°	1822.2	1816.6	1802.0	1767.1	1718.6	1672.4	1670.5	1626.3	1576.8	1521.7	1476.4
12.5°	1894.8	1890.1	1871.2	1828.8	1775.6	1733.2	1729.4	1688.4	1640.4	1580.1	1525.9
15°	1934.8	1938.1	1912.7	1864.6	1812.8	1777.0	1773.7	1744.5	1701.6	1640.9	1578.7
17.5°	1940.0	1942.8	1918.3	1870.8	1828.4	1803.9	1802.5	1783.1	1752.0	1693.6	1628.6
20°	1909.9	1911.8	1891.5	1852.4	1824.6	1817.1	1816.6	1808.1	1785.0	1733.2	1670.1
22.5°	1866.1	1867.5	1852.9	1824.6	1815.2	1827.0	1830.3	1827.0	1810.5	1761.9	1702.6
25°	1855.2	1854.3	1839.2	1810.5	1818.5	1843.4	1847.7	1849.1	1837.8	1795.4	1744.0
27.5°	1907.5	1904.2	1875.5	1829.3	1834.5	1864.6	1870.3	1884.0	1876.9	1839.7	1791.1
30°	2058.7	2053.1	1994.2	1900.9	1875.5	1891.0	1898.1	1919.8	1921.2	1890.1	1853.8
32.5°	2314.1	2307.0	2201.5	2034.7	1944.7	1917.9	1924.5	1957.0	1974.4	1950.4	1911.3
35°	2636.8	2628.8	2490.3	2262.3	2060.6	1969.2	1973.9	1999.8	2034.7	2000.8	1949.0
37.5°	2973.2	2953.8	2820.5	2529.8	2244.8	2079.0	2079.0	2082.3	2098.8	2028.1	1993.3
40°	3307.6	3288.3	3167.7	2844.5	2483.2	2251.9	2241.1	2168.0	2154.8	2094.1	2082.3
42.5°	3618.6	3612.9	3541.8	3200.2	2763.0	2422.0	2406.9	2283.0	2285.8	2248.1	2248.6
45°	3949.3	3949.3	3891.3	3559.2	3089.0	2695.2	2680.1	2497.8	2526.1	2508.6	2550.6
47.5°	4219.2	4227.7	4219.7	3933.3	3468.3	3042.4	3015.1	2795.5	2874.7	2934.5	3056.5
50°	4494.8	4508.0	4509.4	4343.6	3926.7	3455.1	3424.0	3190.8	3367.5	3539.0	3778.8
52.5°	4894.8	4924.5	4806.2	4753.0	4488.2	3945.1	3914.4	3699.1	3994.0	4234.8	4647.9
55°	5265.6	5239.7	5155.3	5188.3	5089.4	4502.8	4479.8	4290.8	4692.2	5005.0	5541.6
57.5°	5466.3	5464.4	5549.2	5690.5	5737.6	5190.7	5171.3	4987.6	5479.4	5714.5	6380.7
60°	5701.8	5705.1	5915.2	6236.0	6430.1	6047.1	6038.7	5899.2	6244.1	6376.9	7038.8
62.5°	5734.8	5794.1	6156.0	6708.1	7078.4	7047.8	7066.6	6720.3	6928.1	6905.5	7530.2
65°	5355.5	5433.7	6088.6	6850.8	7722.9	8142.1	8159.6	7546.2	7467.5	7357.3	7705.9
67.5°	4578.2	4694.1	5405.5	6540.4	7935.3	8951.0	8975.5	8186.4	7915.1	7510.4	7282.8
70°	3331.7	3460.3	4176.4	5585.9	7556.6	9209.7	9237.5	8469.6	7932.0	7074.6	6217.2
72.5°	2012.6	2113.4	2703.7	4112.3	6377.8	8738.6	8788.0	8110.6	7241.9	5992.5	4590.9
75°	883.8	949.8	1307.3	2369.7	4566.0	7230.1	7291.8	6942.2	5884.1	4354.9	2713.6
77.5°	376.4	395.3	536.1	1029.4	2581.2	4940.5	5025.3	5072.4	3992.2	2369.7	1146.7
80°	234.6	242.1	303.4	465.9	1207.9	2774.8	2866.2	2984.5	1982.4	871.1	400.4
82.5°	142.7	151.2	201.6	281.7	628.9	1257.9	1301.7	1385.1	769.3	376.4	207.3
85°	85.7	91.9	123.4	178.1	358.0	494.7	494.2	546.5	362.3	242.1	109.3
87.5°	41.0	45.7	66.0	92.3	180.4	185.6	173.8	196.9	220.0	158.8	55.1
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°	1402.5	1402.5	1402.5	1402.5	1402.5	1402.5	1402.5	1402.5	1402.5	1402.5	1402.5
2.5°	1401.5	1399.7	1393.5	1388.8	1387.9	1385.1	1382.7	1384.1	1386.0	1386.5	1386.5
5°	1401.1	1395.9	1387.9	1384.6	1388.8	1394.5	1401.5	1411.0	1416.6	1420.9	1423.7
7.5°	1423.7	1413.8	1404.8	1403.0	1411.4	1426.5	1442.5	1462.3	1476.0	1485.4	1487.3
10°	1461.4	1449.1	1440.2	1442.1	1457.1	1478.8	1501.4	1526.9	1547.6	1560.3	1561.2
12.5°	1504.7	1492.9	1484.5	1492.5	1517.4	1543.8	1567.4	1589.5	1608.4	1621.1	1621.1
15°	1554.7	1546.2	1536.3	1554.7	1588.6	1612.1	1622.0	1632.9	1643.2	1652.6	1650.8
17.5°	1602.7	1594.7	1589.5	1611.2	1646.5	1657.4	1650.8	1642.8	1642.8	1647.9	1648.9
20°	1644.2	1637.1	1640.4	1661.6	1680.0	1668.7	1644.2	1618.7	1608.4	1611.2	1614.0
22.5°	1680.4	1677.1	1687.0	1696.9	1683.7	1644.2	1598.9	1564.5	1551.8	1550.9	1551.8
25°	1722.8	1722.4	1734.6	1716.7	1658.3	1585.3	1524.5	1491.1	1484.0	1489.6	1499.1
27.5°	1775.6	1780.8	1786.9	1721.4	1606.5	1496.2	1434.5	1411.4	1418.5	1432.2	1441.1
30°	1843.0	1857.1	1843.9	1709.6	1532.0	1394.5	1335.6	1329.0	1348.3	1367.6	1377.0
32.5°	1908.5	1930.6	1898.6	1679.0	1435.9	1286.6	1240.9	1239.0	1262.6	1281.4	1294.6
35°	1961.2	2005.0	1939.5	1618.3	1324.8	1187.2	1153.7	1141.0	1149.5	1171.6	1186.7
37.5°	2030.0	2103.0	1967.8	1525.4	1204.1	1105.2	1066.1	1036.9	1029.4	1038.3	1045.9
40°	2155.8	2252.4	1981.0	1395.9	1086.4	1023.2	983.7	940.8	911.1	889.5	889.9
42.5°	2361.2	2446.9	1972.5	1238.5	977.5	943.2	898.4	848.9	800.9	751.9	748.1
45°	2694.7	2736.2	1947.1	1071.8	881.9	859.3	817.4	767.9	703.8	648.2	643.1
47.5°	3228.5	3136.6	1907.5	926.2	797.6	788.2	749.5	692.5	624.7	579.9	576.2
50°	3956.4	3714.7	1888.2	810.3	723.1	726.0	694.4	634.1	570.0	537.1	533.3
52.5°	4827.0	4387.9	1925.4	720.8	663.3	673.2	649.7	593.1	539.4	513.5	509.7
55°	5730.1	5085.1	1965.5	655.8	606.8	626.1	618.1	571.5	522.9	498.9	495.6
57.5°	6503.2	5605.7	1885.4	603.0	556.4	586.5	593.6	557.8	514.4	492.8	489.0
60°	6989.8	5815.3	1675.3	553.6	516.3	555.0	579.5	554.0	517.7	515.9	513.0
62.5°	7220.7	5797.0	1360.1	514.4	491.4	541.3	589.8	575.2	555.4	572.4	573.8
65°	7117.0	5520.0	1012.9	488.5	473.5	546.5	620.9	615.3	566.3	583.2	585.6
67.5°	6434.9	4859.0	750.0	465.9	453.7	561.1	677.5	628.5	545.1	557.3	549.8
70°	5201.0	3852.2	578.5	440.5	433.4	559.2	702.9	620.4	522.0	524.8	504.6
72.5°	3586.5	2626.9	470.6	416.9	404.2	509.7	685.0	600.7	502.7	481.0	454.1
75°	1950.4	1410.0	400.0	392.4	352.9	447.6	652.0	586.5	485.2	456.5	441.4
77.5°	767.4	585.1	347.2	359.0	308.6	395.3	615.3	559.7	461.2	423.5	416.0
80°	313.3	298.7	287.8	310.5	265.2	345.8	571.0	528.1	432.5	392.9	377.8
82.5°	177.6	185.6	223.8	245.0	215.3	318.5	549.8	502.7	398.1	351.9	334.0
85°	90.9	108.8	155.9	175.7	158.3	270.9	506.4	440.0	319.4	269.5	270.9
87.5°	43.8	60.8	98.5	110.2	102.7	196.0	378.3	318.9	248.7	196.9	190.8
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: SP1-2408-195-9

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

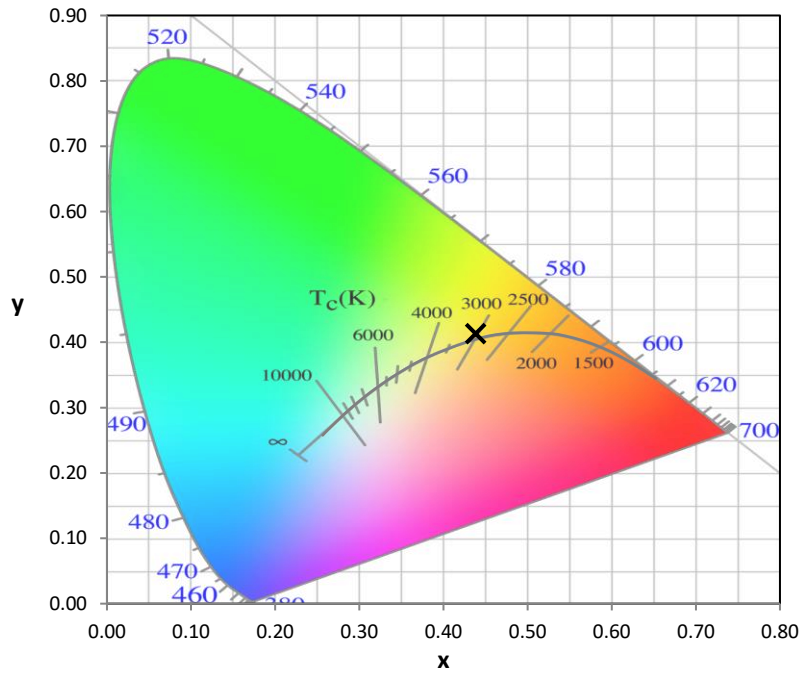
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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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

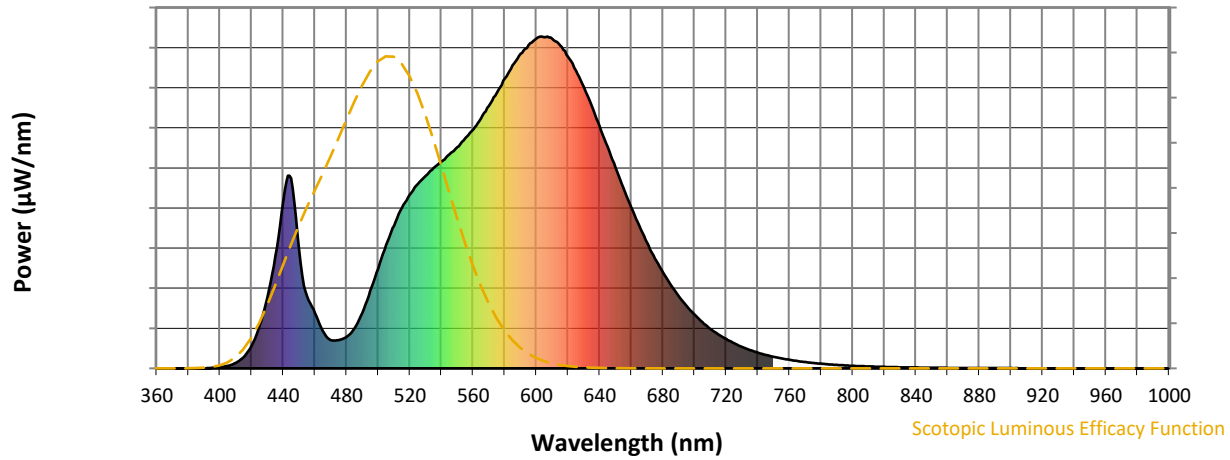


Photopic Lumens: NR

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



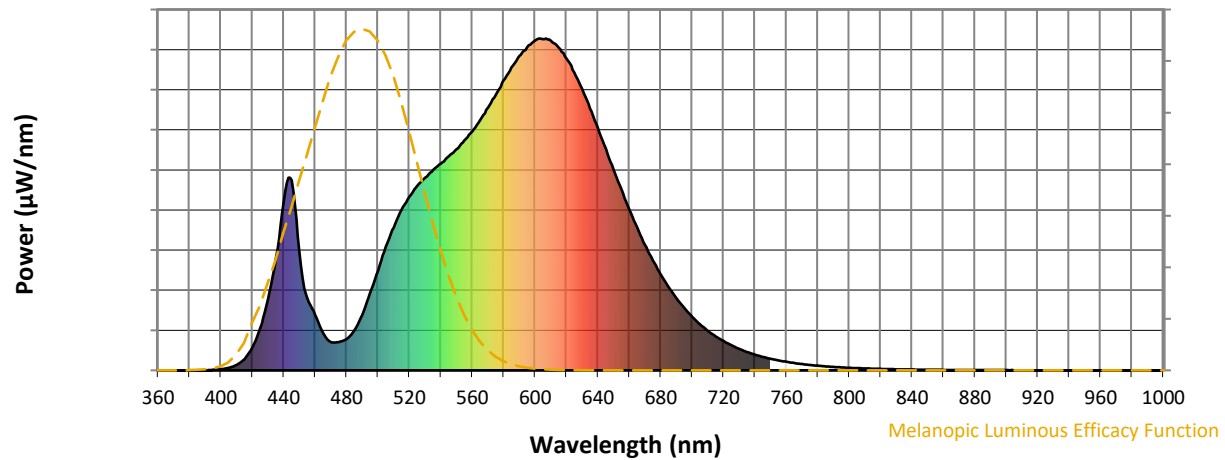
Scotopic Lumens: NR

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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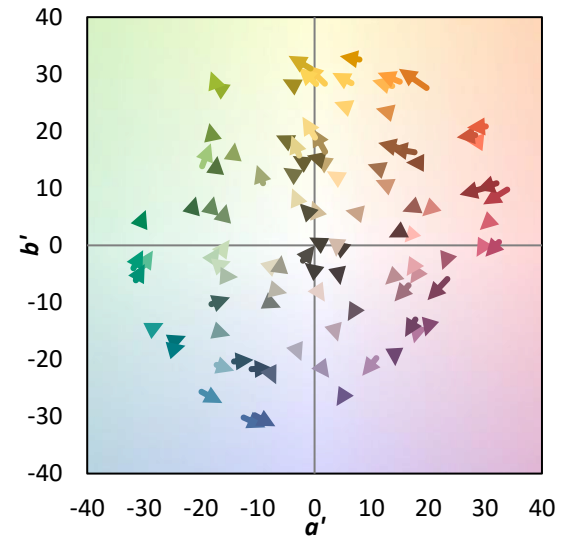
TM-30-18

Summary

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

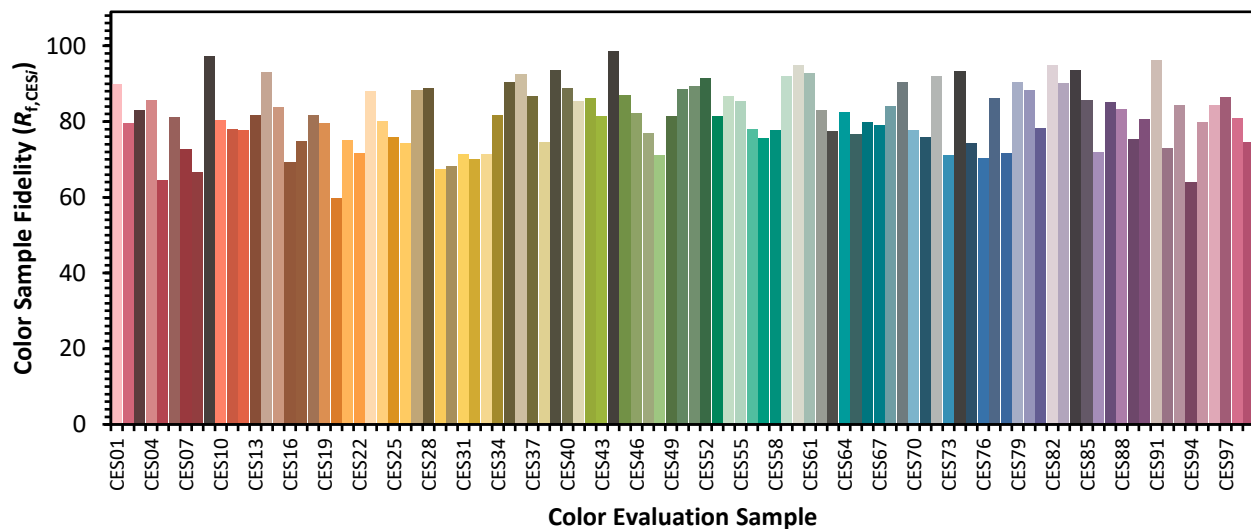


Color Vector Graphics

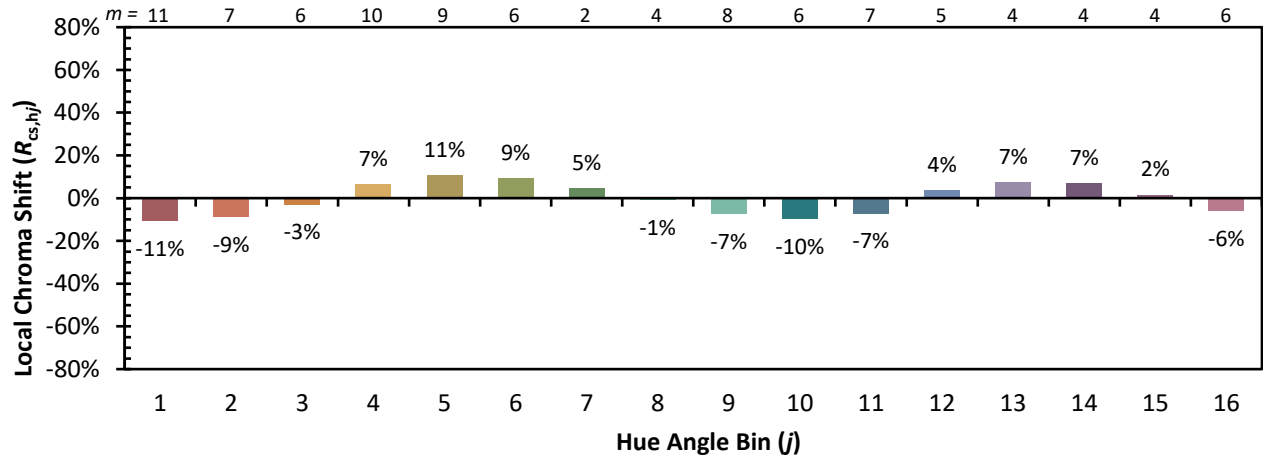


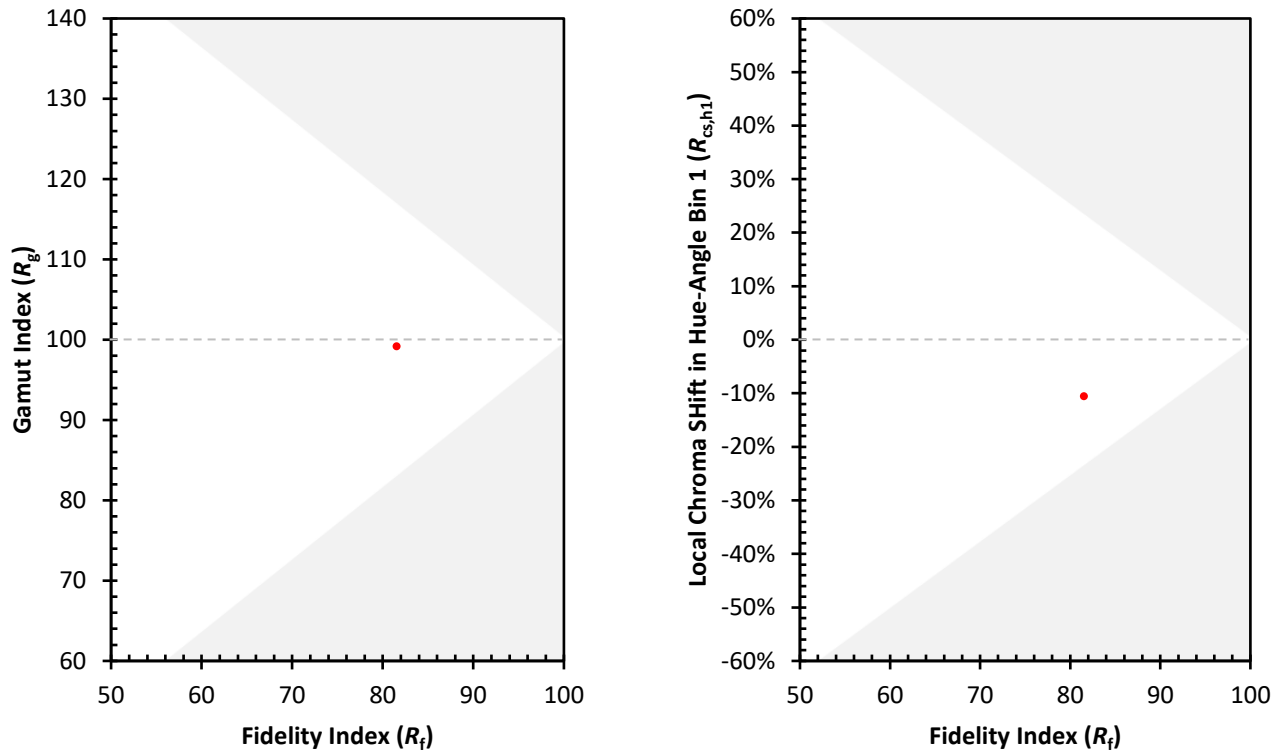
Individual Sample Fidelity Index ($R_{f,i}$)

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)