

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: P323356

Luminaire Tested: **GLEON-SA2B-830-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323356
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-SA2B-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA 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: 7695 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

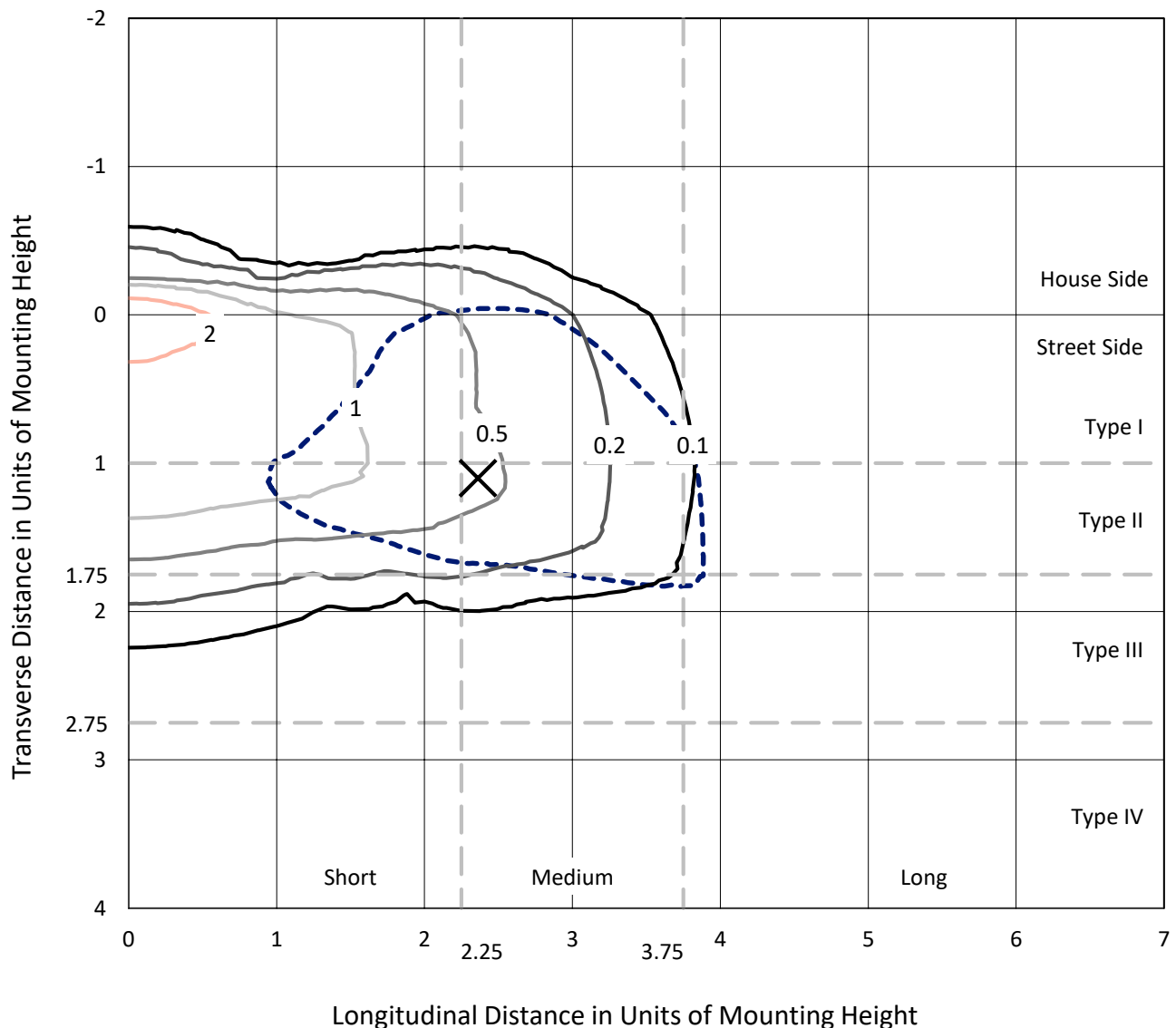
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

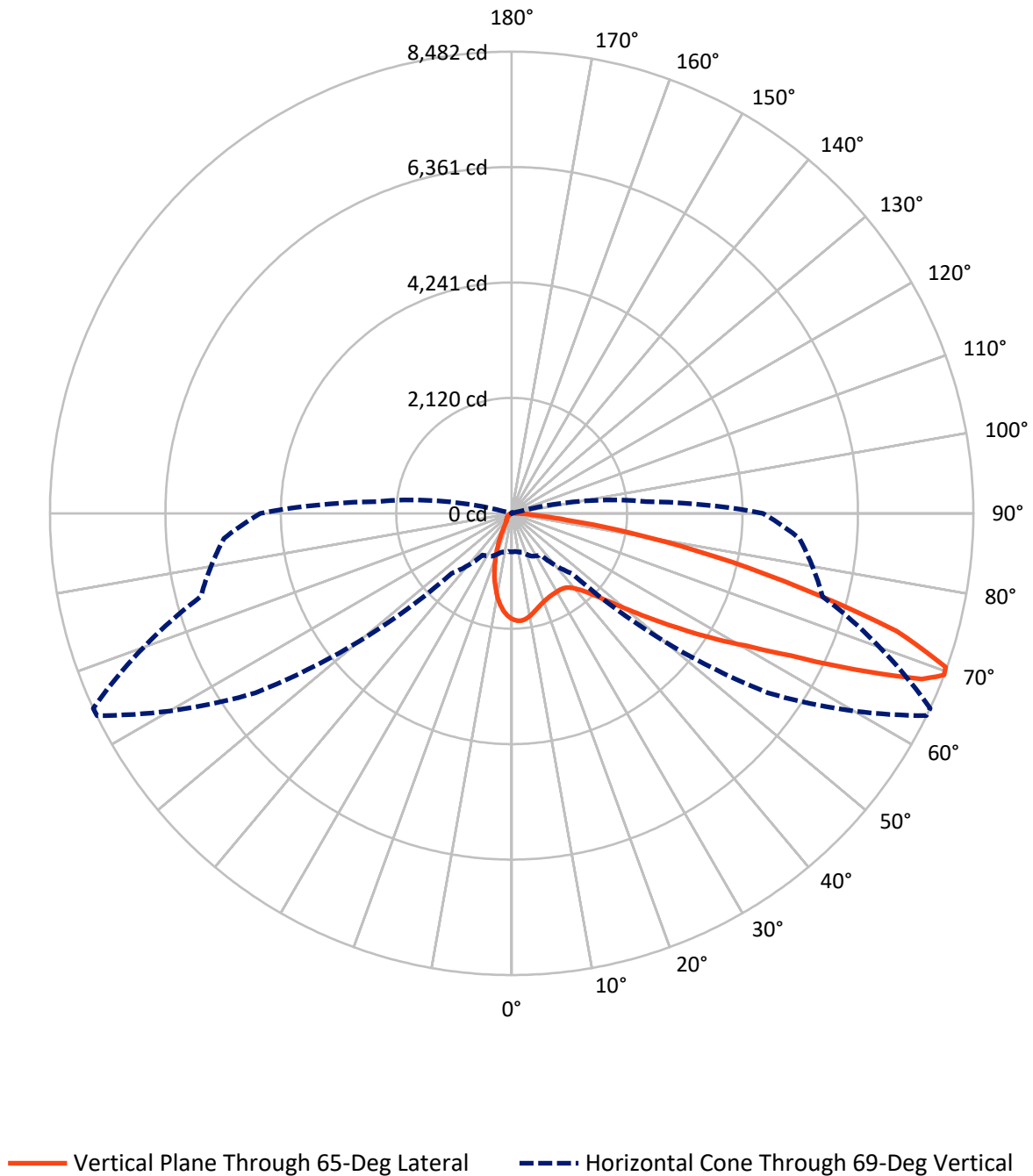
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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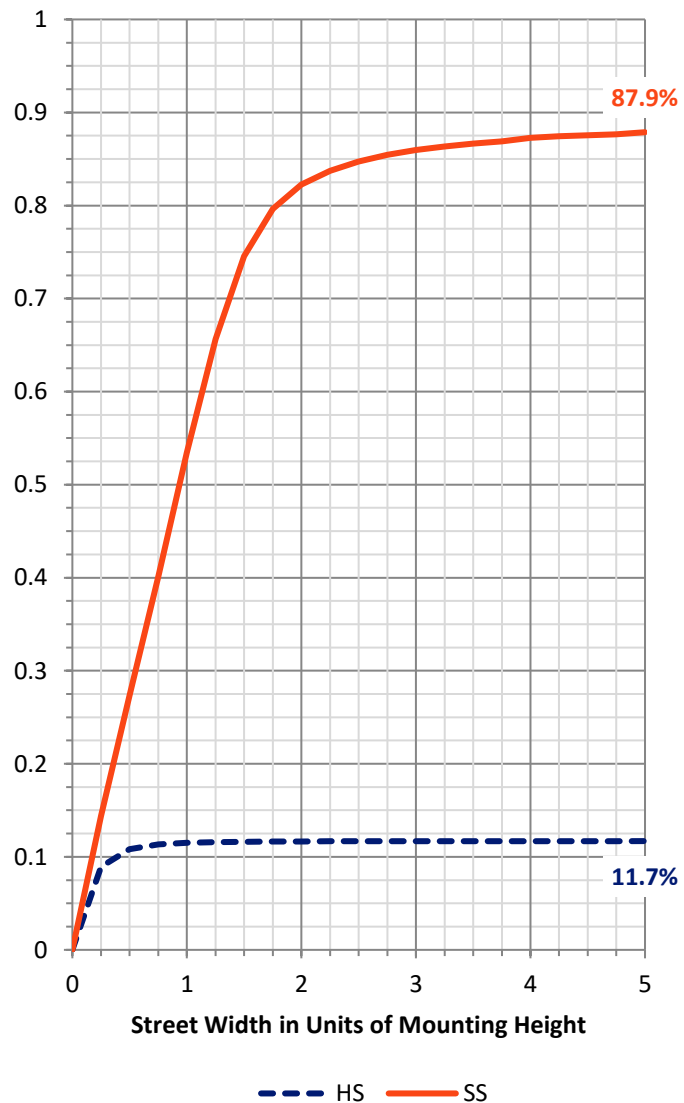
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	907.1	0.0	907.1
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	6787.9	0.0	6787.9
	% Fixture	88.2	0.0	88.2
Total	Lumens	7695.0	0.0	7695.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.6	2.1
10°-20°	355.9	4.6
20°-30°	493.0	6.4
30°-40°	687.4	8.9
40°-50°	1068.4	13.9
50°-60°	1715.3	22.3
60°-70°	1940.2	25.2
70°-80°	1139.5	14.8
80°-90°	132.6	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°	7695.0	100.0
0°-180°	7695.0	100.0

Coefficient of Utilization



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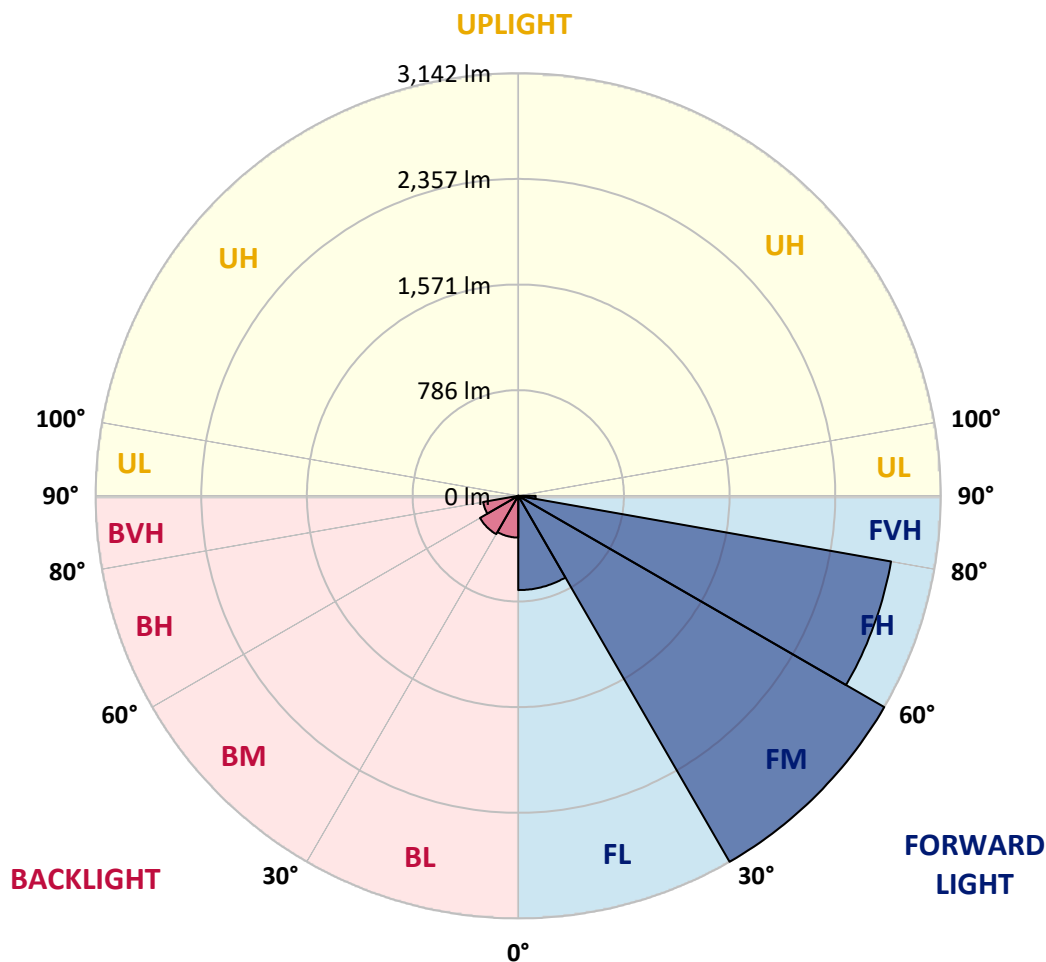
CATALOG NUMBER: GLEON-SA2B-830-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	701.2	9.1			
FM	(30°-60°)	3142.4	40.8			
FH	(60°-80°)	2814.8	36.6			G2/5000
FVH	(80°-90°)	129.6	1.7			G2/225
BL	(0°-30°)	310.4	4.0	B1/500		
BM	(30°-60°)	328.7	4.3	B1/1000		
BH	(60°-80°)	265.0	3.4	B1/500		G1/500
BVH	(80°-90°)	3.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1944.5	1944.5	1944.5	1944.5	1944.5	1944.5	1944.5	1944.5	1944.5	1944.5	1944.5
2.5°	1961.8	1956.9	1960.8	1969.3	1973.5	1973.5	1976.8	1972.9	1974.2	1964.7	1951.1
5°	1839.0	1831.6	1842.3	1866.1	1895.4	1920.4	1957.6	1977.1	1979.1	1979.4	1963.4
7.5°	1706.8	1700.0	1716.0	1744.0	1781.7	1828.3	1893.1	1949.7	1953.0	1983.6	1971.9
10°	1599.4	1594.5	1613.1	1643.0	1687.3	1739.4	1818.9	1897.7	1907.1	1974.8	1970.6
12.5°	1514.1	1510.2	1527.8	1562.3	1607.5	1665.2	1748.2	1839.7	1852.4	1955.0	1964.1
15°	1451.9	1451.2	1465.9	1499.1	1549.3	1603.0	1688.0	1786.0	1800.6	1933.5	1963.1
17.5°	1419.3	1420.3	1431.1	1459.4	1502.4	1555.8	1637.2	1740.7	1756.7	1914.3	1968.0
20°	1416.1	1417.1	1422.9	1438.9	1473.7	1520.9	1595.8	1702.6	1719.2	1899.9	1975.8
22.5°	1444.7	1444.1	1445.7	1444.1	1463.6	1499.4	1568.5	1673.3	1692.5	1890.5	1982.0
25°	1499.8	1498.8	1498.1	1486.1	1473.1	1492.3	1557.1	1656.7	1674.9	1883.7	1985.6
27.5°	1576.3	1575.6	1574.6	1554.8	1515.7	1503.7	1558.4	1650.5	1665.8	1878.1	1984.9
30°	1676.9	1681.4	1680.1	1652.5	1591.6	1538.5	1572.0	1647.3	1660.6	1867.4	1978.1
32.5°	1795.1	1804.2	1811.4	1781.7	1705.5	1607.5	1603.6	1650.8	1660.6	1859.2	1965.7
35°	1917.8	1929.6	1955.9	1945.5	1845.2	1711.4	1658.0	1672.3	1680.5	1863.8	1959.8
37.5°	2038.6	2052.6	2109.9	2140.2	2028.2	1848.8	1742.7	1725.4	1729.6	1891.5	1966.4
40°	2179.0	2200.1	2287.1	2335.9	2246.7	2032.8	1869.3	1816.6	1818.2	1952.4	1996.6
42.5°	2363.3	2385.1	2479.2	2555.7	2492.9	2265.3	2041.2	1955.9	1954.3	2066.3	2067.9
45°	2587.9	2610.7	2708.1	2793.1	2764.8	2540.7	2261.4	2159.4	2157.5	2246.1	2203.1
47.5°	2842.6	2865.0	2952.0	3039.6	3070.2	2862.4	2541.7	2437.2	2432.6	2495.8	2411.8
50°	3061.1	3075.7	3155.8	3273.7	3411.7	3257.7	2890.4	2789.8	2784.9	2827.6	2718.2
52.5°	3140.5	3149.0	3230.4	3395.5	3740.0	3793.0	3348.6	3219.0	3215.4	3234.0	3126.2
55°	2979.7	2995.0	3094.9	3339.8	3917.7	4398.0	3926.9	3750.4	3723.3	3683.3	3552.7
57.5°	2541.4	2565.8	2673.3	2998.9	3834.7	4878.0	4776.7	4351.4	4311.7	4066.9	3899.5
60°	1904.2	1934.1	2023.3	2374.7	3391.5	5048.9	5705.3	5021.2	4931.7	4372.3	4218.3
62.5°	1306.7	1321.6	1382.2	1611.1	2497.8	4768.9	6482.2	5918.3	5754.8	4704.4	4563.1
65°	998.0	1003.2	1027.9	1106.7	1487.4	3873.8	6791.2	7101.9	6904.2	5101.6	4920.9
67.5°	804.3	800.0	834.2	946.9	996.0	2363.3	6430.8	8221.6	8129.2	5632.7	5281.1
69°	709.2	703.3	738.2	869.1	935.5	1562.3	5749.0	8475.9	8481.8	5913.1	5305.8
70°	638.2	642.1	676.6	822.8	915.0	1226.2	5097.7	8411.1	8457.4	6017.9	5157.3
72.5°	426.2	436.6	506.0	683.1	879.8	928.0	3078.0	7217.8	7395.6	5781.8	4424.7
75°	240.3	248.1	330.5	515.1	829.0	883.7	1625.8	5317.5	5489.5	4835.0	3412.1
77.5°	117.9	122.1	186.9	332.4	693.2	842.0	922.1	3612.0	3808.3	3155.8	1929.9
80°	49.8	52.1	93.4	205.1	495.6	803.6	684.8	2222.9	2247.4	1236.3	514.1
82.5°	19.2	19.9	39.4	128.0	314.9	626.5	572.7	1054.0	1028.6	232.8	117.2
85°	2.3	2.6	14.3	76.8	175.2	322.4	465.3	454.2	420.4	46.2	60.2
87.5°	0.0	0.0	1.0	23.4	52.1	151.1	241.9	188.5	170.0	15.0	31.3
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-SA2B-830-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1944.5	1944.5	1944.5	1944.5	1944.5	1944.5	1944.5	1944.5	1944.5	1944.5	1944.5
2.5°	1939.7	1936.4	1918.8	1893.4	1869.3	1839.4	1810.7	1793.5	1779.8	1770.7	1781.4
5°	1944.9	1930.5	1877.1	1808.8	1741.7	1666.1	1595.8	1536.2	1512.8	1486.7	1498.5
7.5°	1943.2	1916.2	1820.2	1698.4	1575.3	1448.0	1327.5	1234.7	1186.5	1139.3	1151.4
10°	1935.1	1889.5	1744.0	1563.6	1379.3	1196.3	1025.3	895.4	822.8	757.0	766.5
12.5°	1917.2	1853.7	1654.1	1409.2	1162.8	921.5	721.2	554.8	465.6	426.2	431.1
15°	1906.4	1818.9	1559.0	1252.9	931.6	641.8	440.9	327.9	287.2	274.2	275.8
17.5°	1901.2	1785.3	1460.7	1074.2	695.2	408.6	284.9	251.4	242.6	240.3	241.0
20°	1896.0	1751.5	1359.4	897.4	479.0	274.8	234.1	224.3	221.1	218.2	218.8
22.5°	1887.2	1718.9	1250.7	718.3	323.0	223.0	211.0	201.6	194.7	191.1	191.8
25°	1876.5	1684.7	1139.6	535.0	235.7	198.9	187.6	174.2	166.1	159.5	159.9
27.5°	1859.2	1642.7	1025.0	389.4	198.0	178.1	162.8	148.2	134.5	127.0	127.0
30°	1835.1	1595.2	897.7	278.7	177.5	157.6	139.0	120.8	106.1	99.3	98.7
32.5°	1808.4	1545.7	769.1	211.3	161.2	138.4	117.2	98.0	85.0	79.4	79.1
35°	1785.6	1492.3	640.8	177.1	144.9	119.8	96.7	80.4	70.0	65.4	65.1
37.5°	1771.0	1438.9	515.8	158.2	130.2	102.6	81.1	66.4	58.9	55.4	55.0
40°	1768.7	1399.1	401.5	143.9	116.6	87.3	67.7	56.3	49.5	45.6	45.3
42.5°	1798.3	1376.4	308.0	131.9	102.6	73.9	57.6	48.2	41.0	37.1	36.8
45°	1876.2	1383.5	237.0	121.1	88.6	62.5	48.8	40.0	33.5	30.6	30.0
47.5°	2018.1	1433.0	188.5	110.4	75.2	53.1	41.7	33.2	27.7	24.7	24.4
50°	2270.8	1549.3	157.6	98.7	62.8	45.3	34.5	27.0	22.5	19.9	19.5
52.5°	2606.2	1756.3	140.7	87.3	52.1	38.4	28.3	21.5	17.6	15.6	15.3
55°	2976.1	2007.1	129.6	74.9	42.7	31.9	22.5	16.9	13.7	12.0	11.4
57.5°	3337.2	2224.2	119.2	62.8	35.5	26.0	17.9	13.3	10.7	9.1	8.8
60°	3669.0	2423.8	107.1	50.5	29.0	20.5	14.0	10.4	8.5	6.8	6.8
62.5°	4024.2	2578.2	90.5	39.4	23.8	15.6	11.4	9.4	6.8	5.9	5.5
65°	4400.6	2692.8	71.0	30.6	18.6	11.7	9.4	9.8	5.5	4.2	3.9
67.5°	4678.7	2670.0	52.4	24.1	14.3	9.1	9.1	10.4	4.9	3.3	2.9
69°	4617.5	2484.7	44.0	20.8	12.4	7.8	8.5	10.4	4.6	2.9	2.6
70°	4440.0	2279.6	38.7	18.6	11.1	7.2	8.1	10.1	4.2	2.9	2.6
72.5°	3697.6	1716.9	30.3	14.0	8.8	5.9	6.8	8.8	4.2	2.9	2.3
75°	2781.4	1098.9	23.1	10.1	6.5	4.6	5.2	6.5	4.2	2.6	2.3
77.5°	1513.4	396.3	16.6	6.8	4.6	3.6	3.6	4.9	3.9	2.0	1.3
80°	389.1	99.6	10.4	4.6	3.6	2.6	2.3	3.3	2.3	0.3	0.0
82.5°	96.1	22.5	5.5	3.3	2.6	1.0	1.0	1.6	1.0	0.0	0.0
85°	52.7	11.1	3.6	2.3	1.3	0.0	0.0	0.3	0.0	0.0	0.0
87.5°	27.0	3.3	1.0	0.7	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.

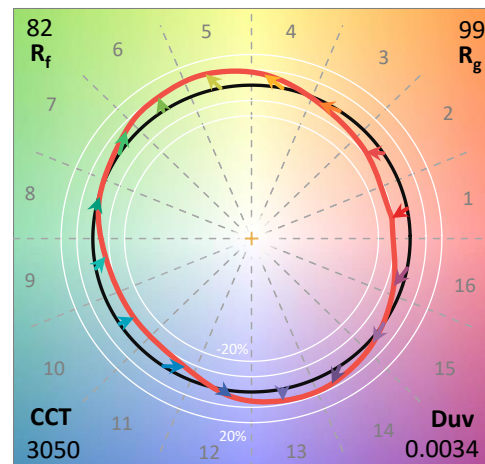
Test Information

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

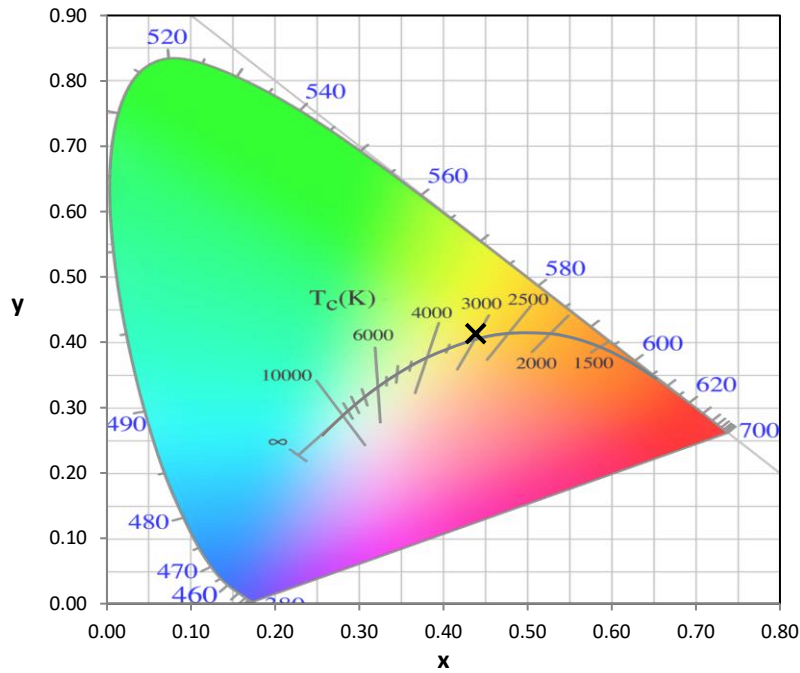
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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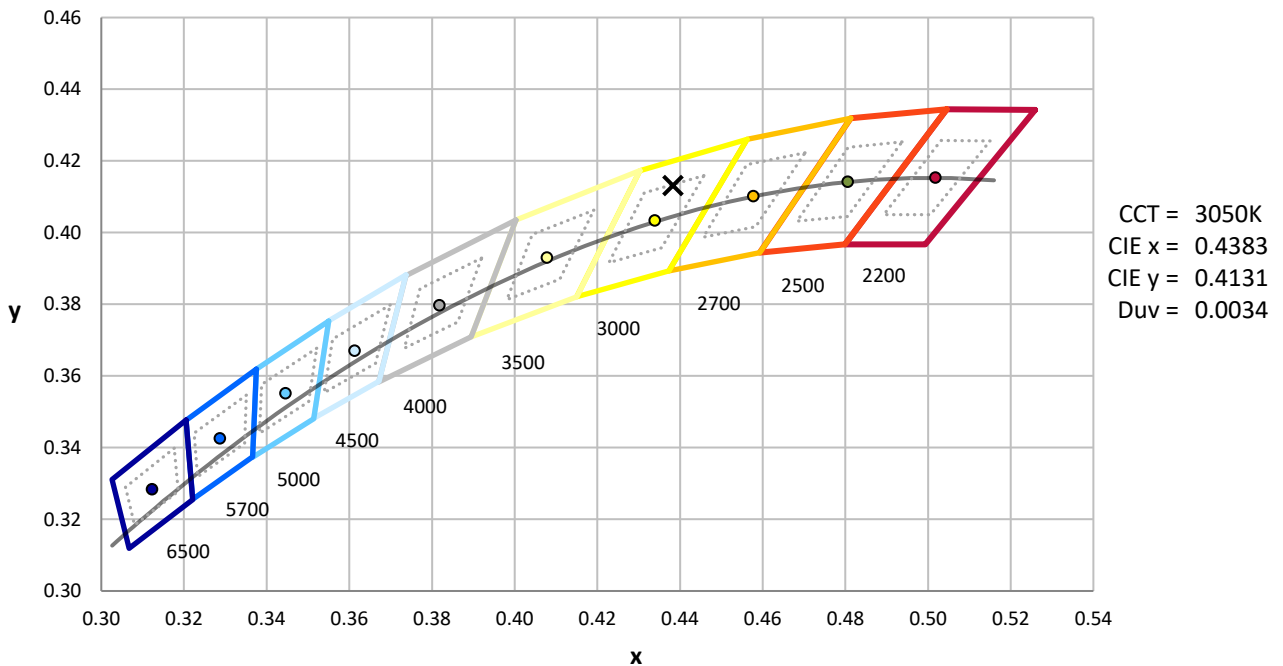
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

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CIE 1931 Chromaticity Diagram



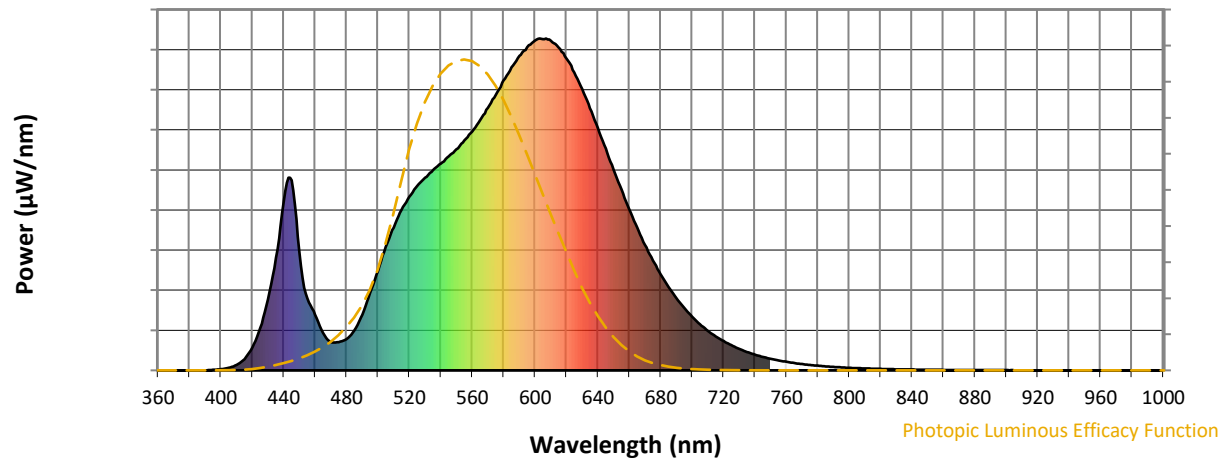
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

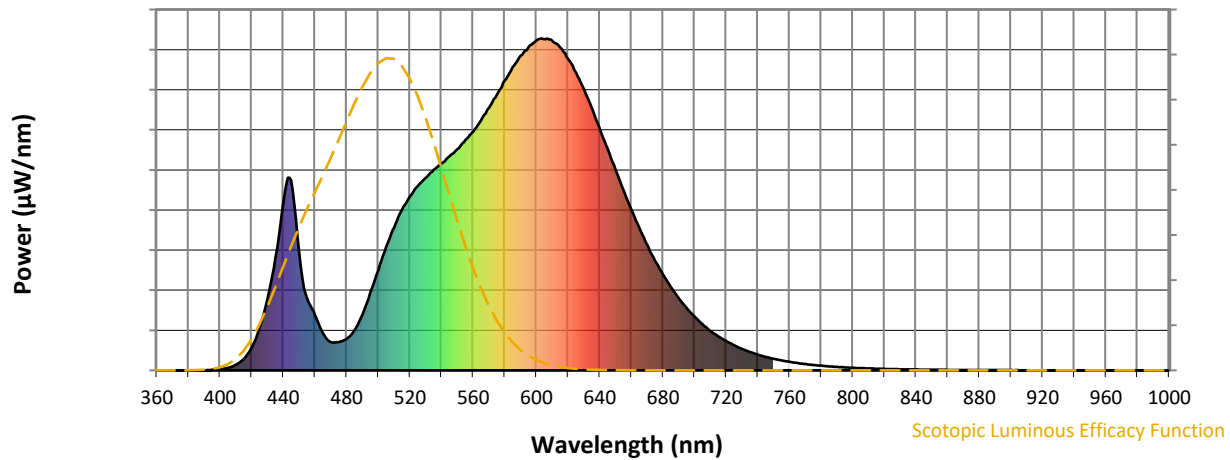


Photopic Lumens: NR

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



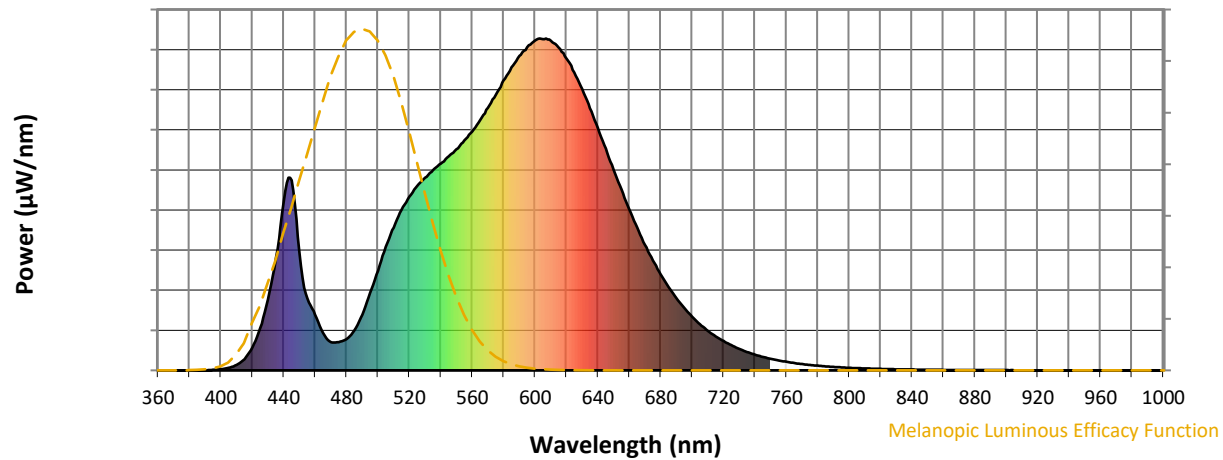
Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power 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

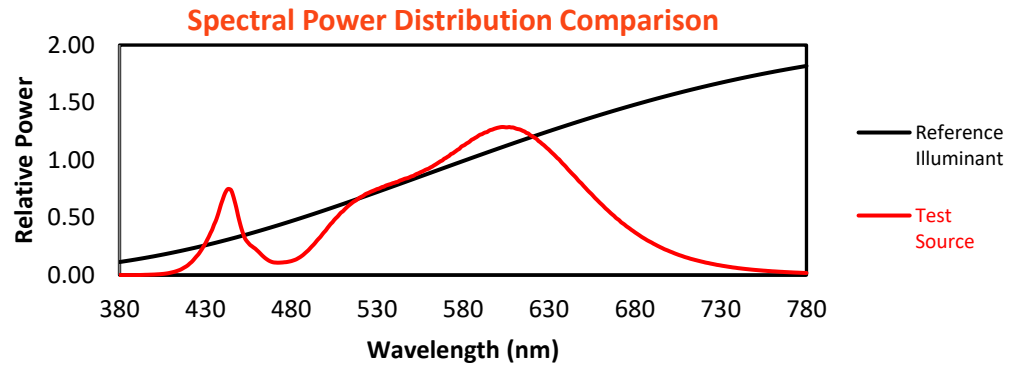
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	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			

REPORT NUMBER: SP1-2408-195-9

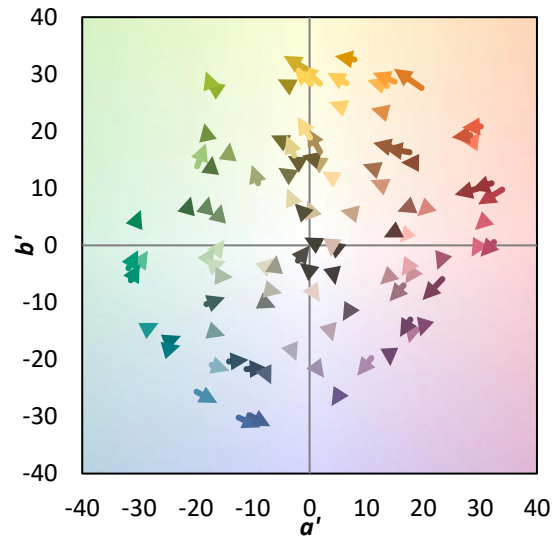
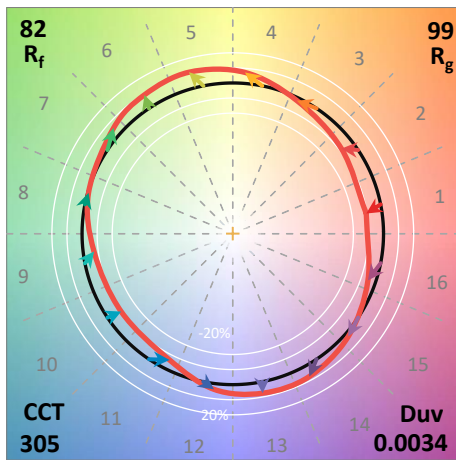
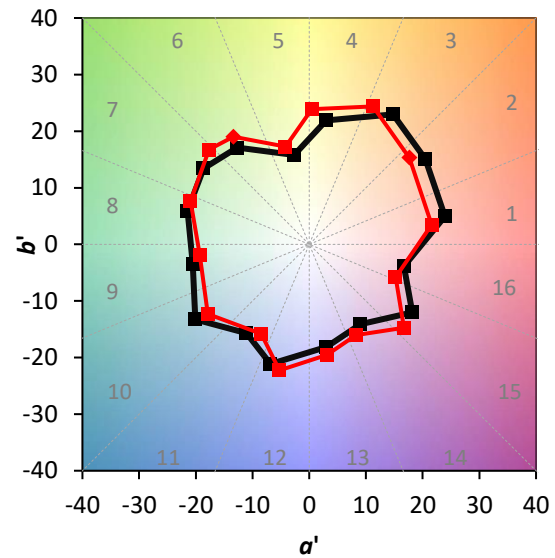
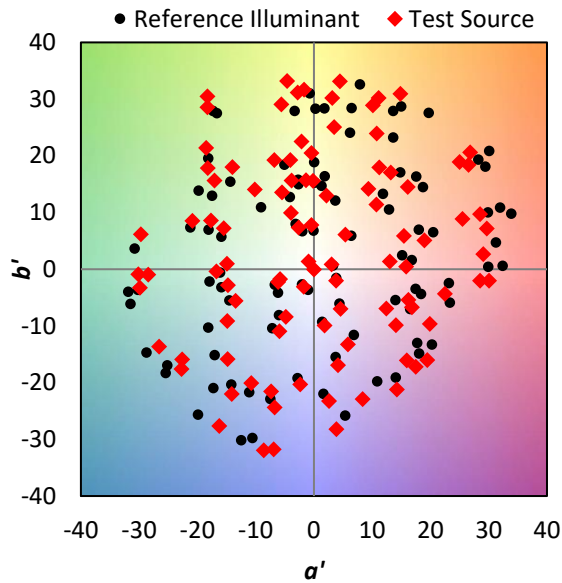
TM-30-18

Summary

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

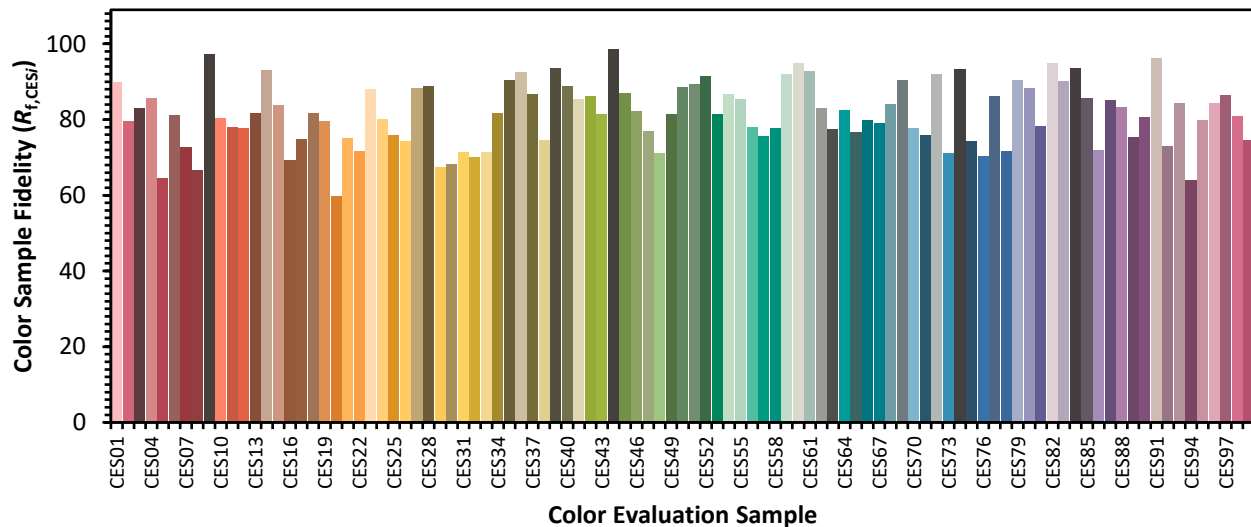


Color Vector Graphics

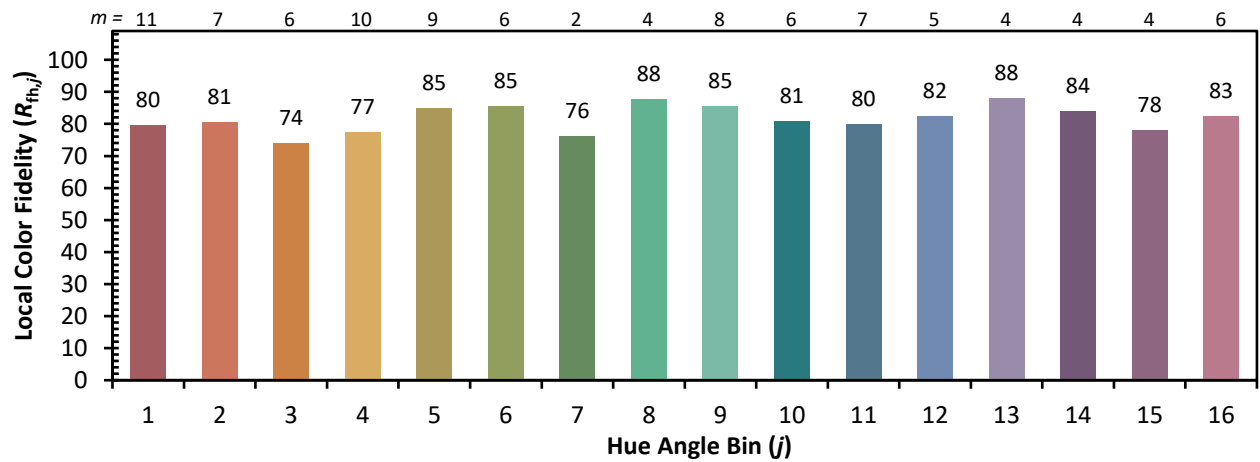
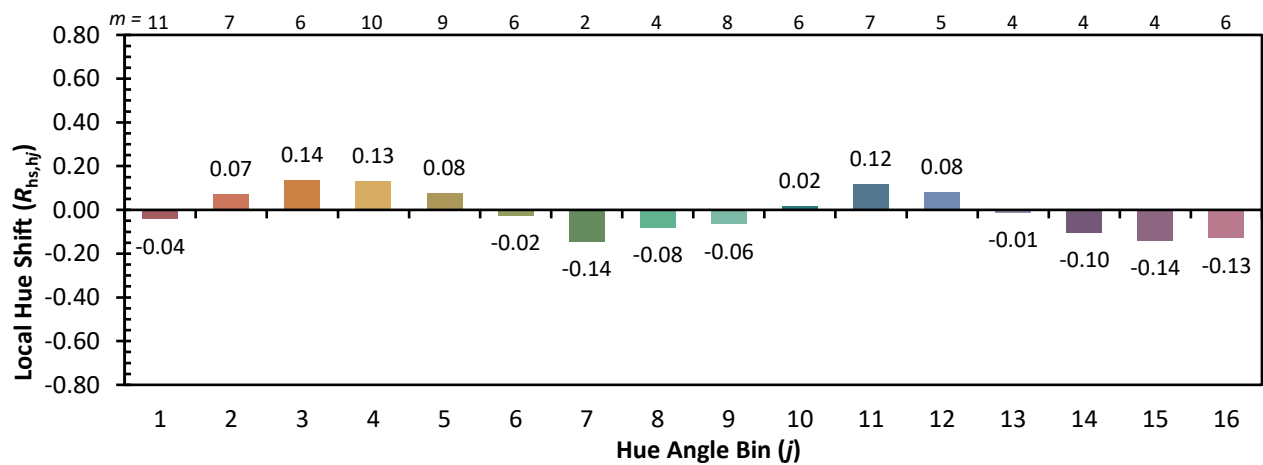
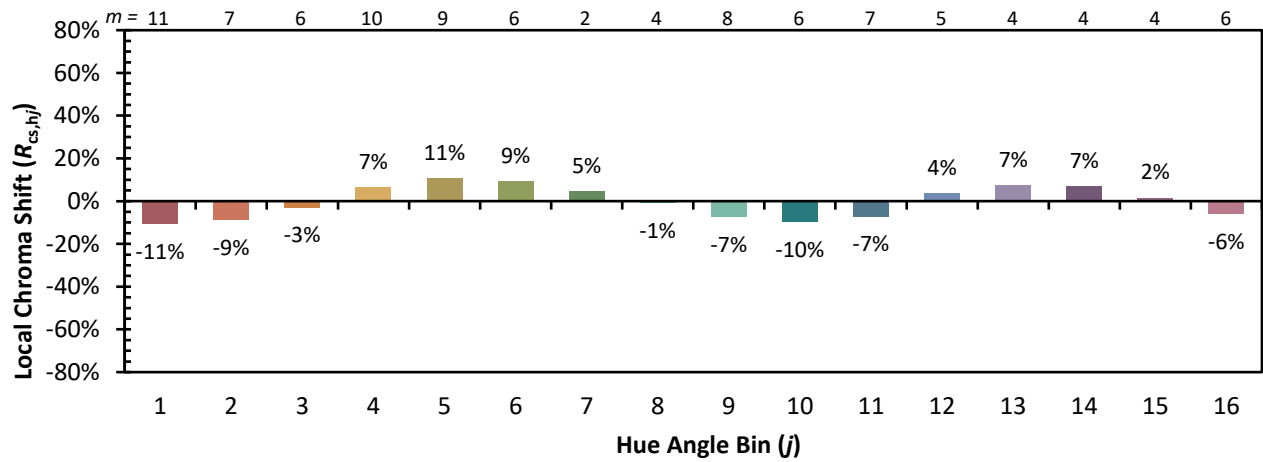


Individual Sample Fidelity Index ($R_{f,i}$)

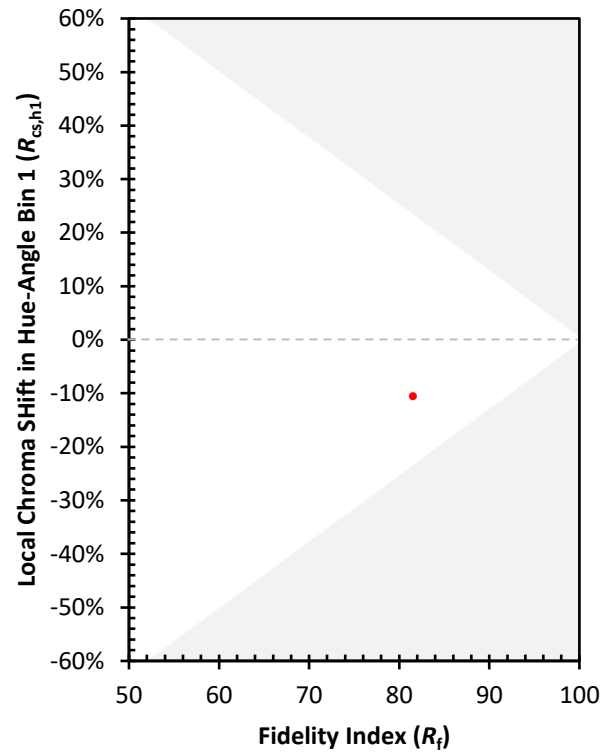
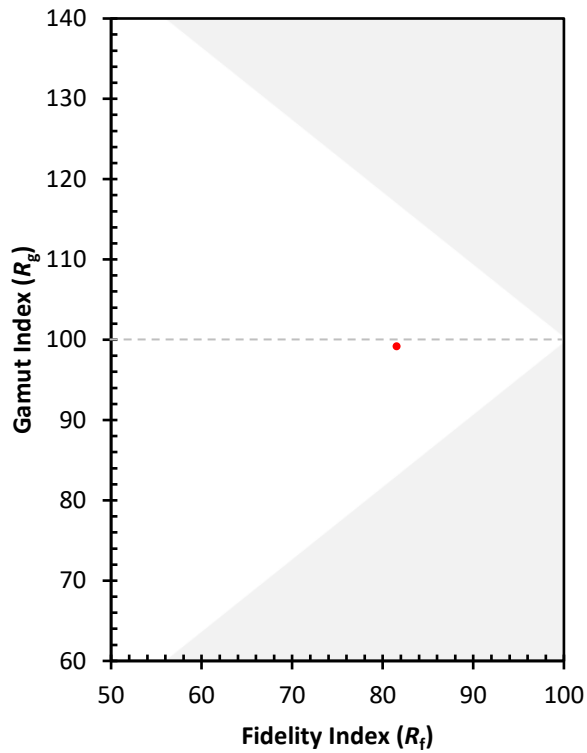
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 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)