Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled data based on original data using

LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P632536

Luminaire Tested: GWS-SA2C-830-U-SL3-W

Issue Date: 1/10/2023

Report Generated By 670246102 / DESKTOP-G35701P

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P632536
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2C-830-U-SL3-W
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7203.9 lumens
Efficiency:	N/A
Efficacy:	114.0 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B1 - U0 - G2

Input Watts (W):	63.2
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	0
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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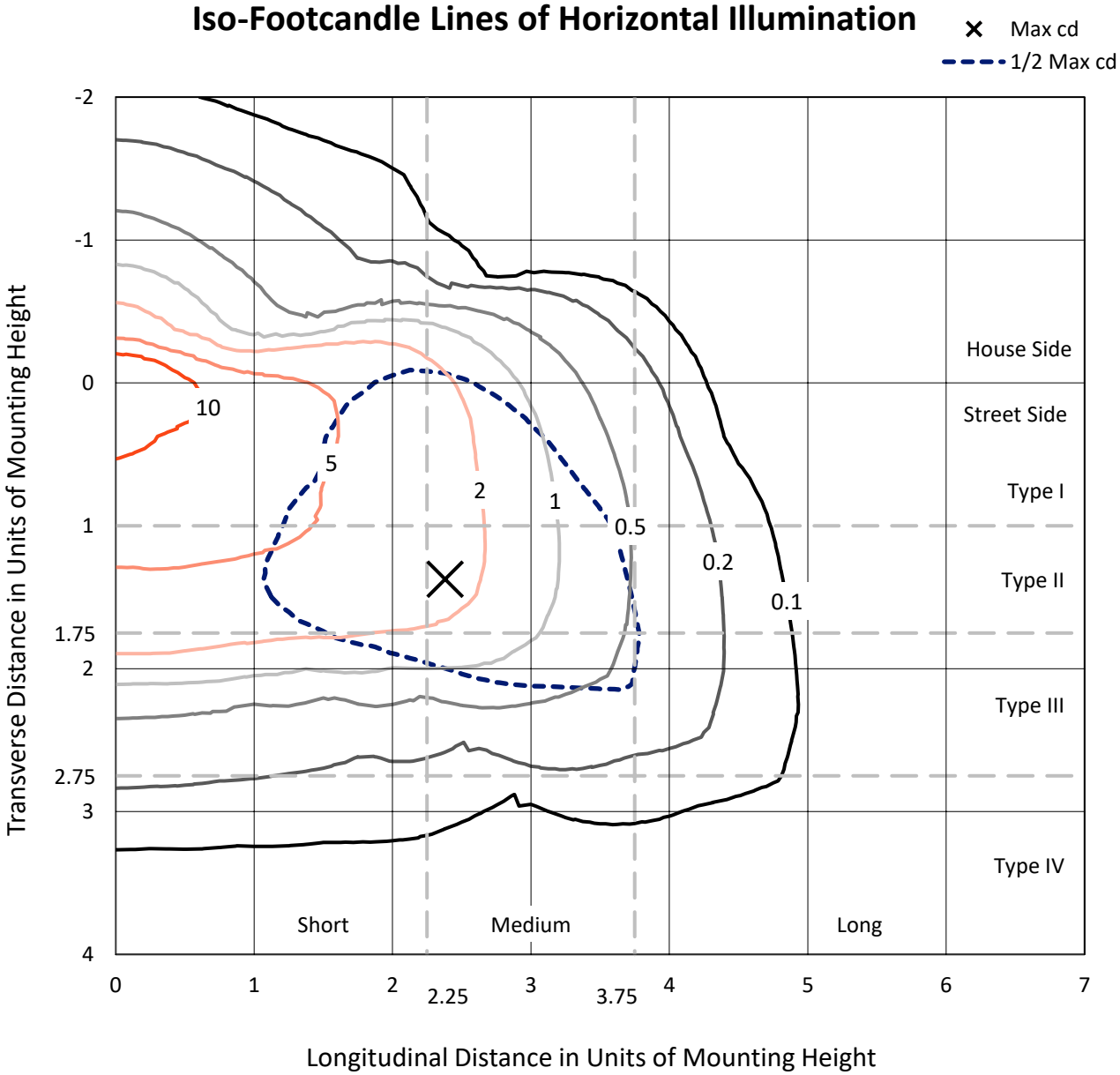
Scaled Data Report

REPORT NUMBER: P632536
CATALOG NUMBER: GWS-SA2C-830-U-SL3-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 19.9 fc
Type III - Medium - N/A

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REPORT NUMBER: P632536
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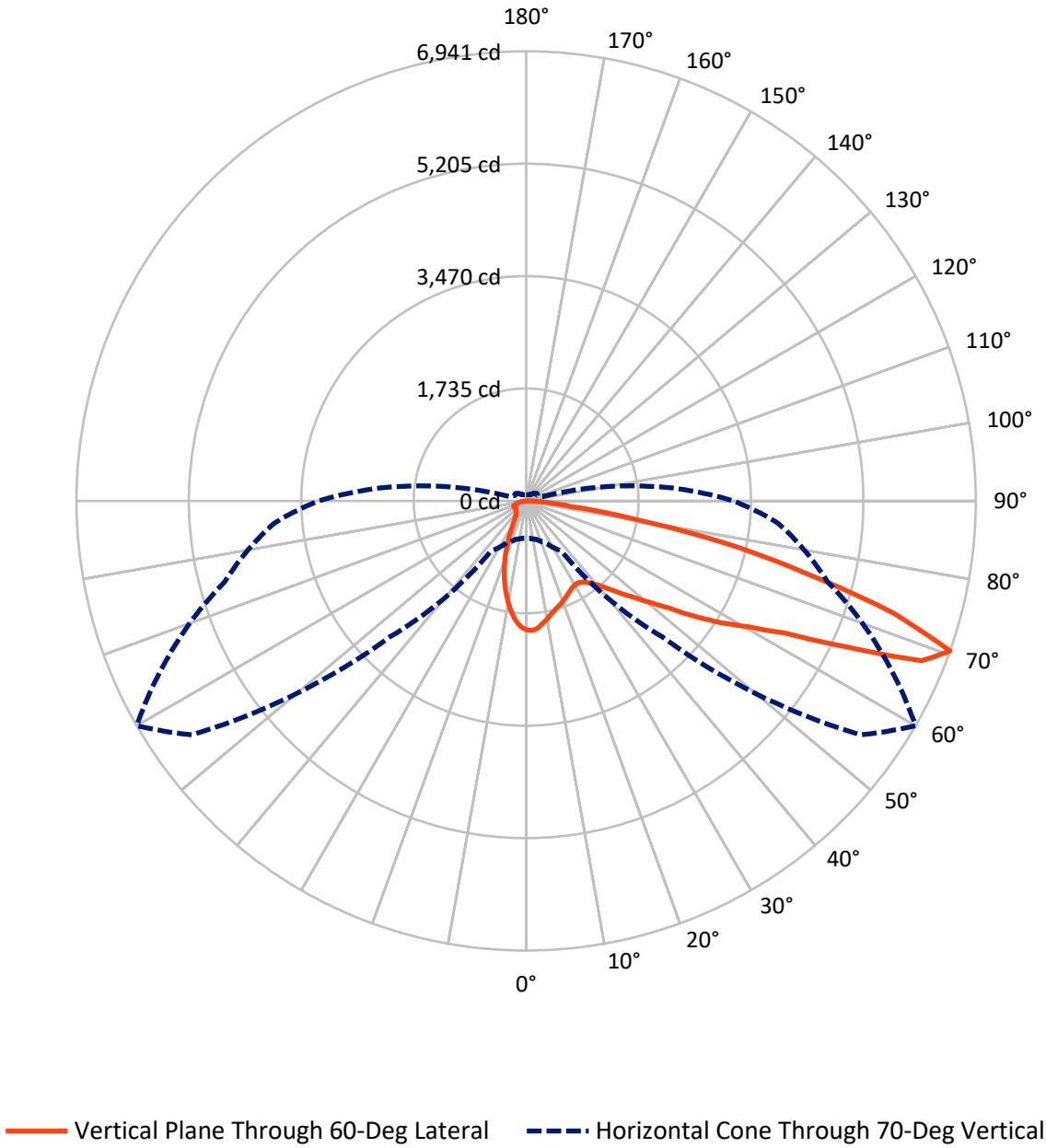
Luminous Intensity Polar Plot



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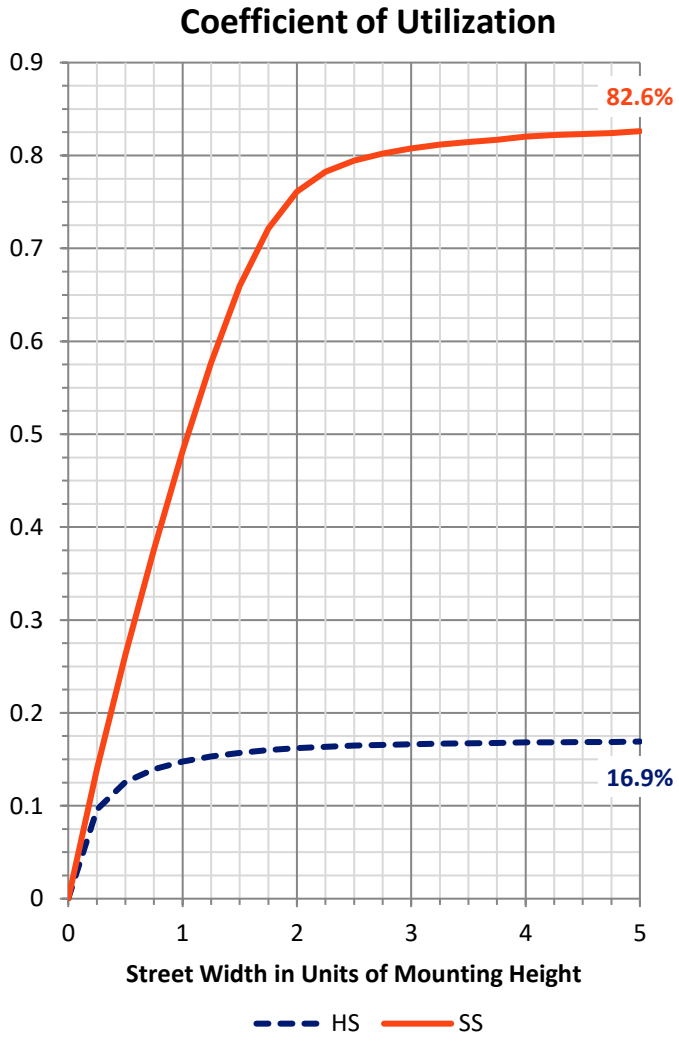
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1232.0	0.0	1232.0
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	5971.9	0.0	5971.9
	% Fixture	82.9	0.0	82.9
Total	Lumens	7203.9	0.0	7203.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.8	2.4
10°-20°	384.9	5.3
20°-30°	493.0	6.8
30°-40°	647.9	9.0
40°-50°	940.0	13.0
50°-60°	1466.6	20.4
60°-70°	1920.1	26.7
70°-80°	1061.7	14.7
80°-90°	117.8	1.6
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°	7203.9	100.0
0°-180°	7203.9	100.0



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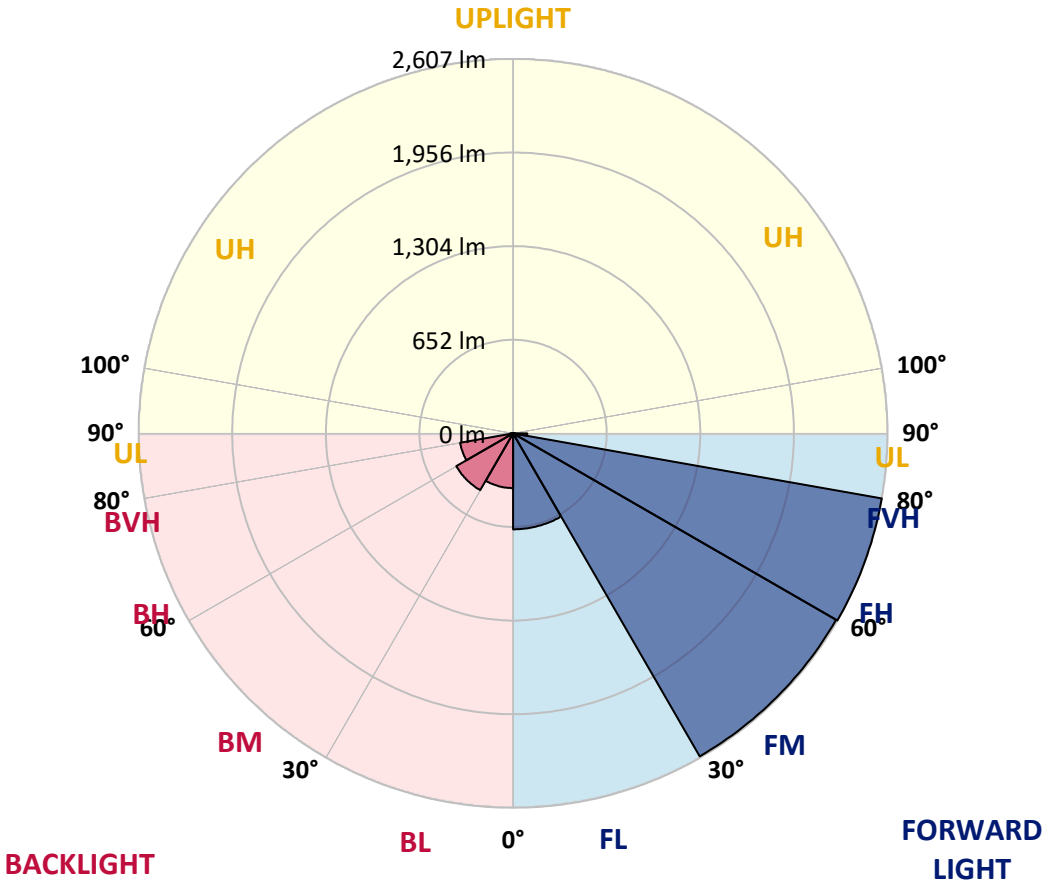
REPORT NUMBER: P632536
CATALOG NUMBER: GWS-SA2C-830-U-SL3-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	668.6	9.3			
FM	(30°-60°)	2597.7	36.1			
FH	(60°-80°)	2607.4	36.2			G2/5000
FVH	(80°-90°)	98.2	1.4			G1/100
BL	(0°-30°)	381.2	5.3	B1/500		
BM	(30°-60°)	456.8	6.3	B1/1000		
BH	(60°-80°)	374.4	5.2	B1/500		G1/500
BVH	(80°-90°)	19.6	0.3			G1/100
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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Scaled Data Report

REPORT NUMBER: P632536
CATALOG NUMBER: GWS-SA2C-830-U-SL3-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1993.4	1993.4	1993.4	1993.4	1993.4	1993.4	1993.4	*1993.4*	1993.4	1993.4	1993.4
2.5°	1965.5	1967.6	1973.4	1981.8	1990.2	1994.5	2005.0	*2001.8*	1999.7	1995.5	1990.2
5°	1878.5	1882.7	1888.0	1904.3	1922.8	1937.5	1961.3	*1963.9*	1965.0	1967.1	1958.6
7.5°	1767.8	1768.9	1781.5	1803.1	1827.4	1852.7	1892.2	*1903.3*	1912.8	1923.3	1916.5
10°	1645.5	1648.2	1657.7	1688.8	1730.4	1767.8	1821.1	*1839.5*	1859.5	1882.7	1873.2
12.5°	1545.4	1545.9	1561.2	1594.4	1639.7	1690.3	1756.8	*1778.9*	1805.2	1841.6	1833.2
15°	1465.8	1465.8	1480.0	1508.5	1560.7	1620.2	1699.3	*1727.8*	1763.6	1812.6	1797.9
17.5°	1402.6	1403.1	1412.0	1442.1	1488.5	1554.4	1648.2	*1686.7*	1726.2	1791.0	1768.9
20°	1369.4	1366.7	1368.3	1386.7	1426.3	1490.1	1597.0	*1641.9*	1695.1	1776.3	1742.5
22.5°	1367.8	1363.0	1356.2	1357.8	1380.9	1433.7	1542.2	*1596.5*	1663.5	1764.1	1715.6
25°	1394.7	1389.4	1377.3	1363.6	1361.4	1393.1	1490.6	*1552.2*	1630.8	1758.9	1689.8
27.5°	1440.0	1436.3	1420.5	1399.9	1378.3	1377.3	1451.6	*1515.9*	1607.1	1764.1	1671.4
30°	1500.1	1493.7	1483.7	1457.4	1424.7	1391.0	1436.3	*1496.4*	1591.3	1781.0	1663.5
32.5°	1568.1	1564.4	1554.9	1528.5	1493.7	1440.0	1448.4	*1500.6*	1591.3	1810.5	1665.0
35°	1640.3	1639.7	1639.7	1622.3	1583.9	1516.9	1496.4	*1536.4*	1615.5	1858.0	1681.9
37.5°	1710.4	1709.8	1726.7	1733.0	1689.3	1617.1	1578.1	*1608.1*	1668.7	1928.1	1723.5
40°	1767.3	1769.4	1806.3	1837.9	1813.7	1746.7	1691.9	*1707.2*	1755.2	2027.7	1796.3
42.5°	1824.7	1830.5	1885.9	1941.8	1951.2	1893.3	1837.9	*1846.9*	1879.0	2159.4	1904.9
45°	1887.5	1890.1	1967.6	2045.6	2091.4	2057.2	2011.9	*2024.0*	2031.4	2322.3	2066.7
47.5°	1948.1	1954.9	2055.1	2162.1	2249.0	2245.9	2220.6	*2216.9*	2218.5	2520.5	2258.0
50°	2030.8	2040.8	2158.4	2287.5	2415.1	2473.6	2481.0	*2453.0*	2441.4	2740.8	2496.2
52.5°	2187.9	2187.9	2293.3	2420.3	2591.6	2736.6	2786.1	*2740.3*	2703.4	2973.8	2749.2
55°	2384.5	2392.9	2476.7	2579.5	2796.7	3013.3	3180.9	*3130.3*	3026.0	3227.3	3014.4
57.5°	2472.0	2482.5	2615.4	2775.1	3065.0	3328.0	3560.4	*3542.5*	3390.2	3490.8	3289.5
60°	2313.9	2336.0	2518.9	2786.7	3307.9	3835.6	3999.5	*3947.3*	3729.6	3767.6	3587.8
62.5°	1930.2	1954.4	2157.3	2531.0	3274.2	4384.2	4691.5	*4499.1*	4153.4	4117.0	3985.2
65°	1151.7	1150.6	1394.7	1890.1	2858.3	4536.6	5786.8	*5427.9*	4808.0	4596.7	4394.3
67.5°	732.1	730.5	781.7	1001.4	1902.2	4163.4	6491.0	*6584.3*	5697.2	4949.3	4428.0
70°	*577.7*	*577.2*	*614.0*	*714.2*	*940.8*	*2962.7*	*6294.9*	*6940.6*	*6234.3*	*4814.9*	*3898.8*
72.5°	421.1	422.2	479.1	598.2	725.8	1487.4	5097.4	*5938.6*	5734.1	4250.4	3165.1
75°	302.5	304.1	338.4	458.0	669.4	813.3	3389.6	*4465.4*	4362.6	3407.0	2177.4
77.5°	192.4	194.5	224.5	321.0	540.8	656.7	2055.1	*3152.5*	2902.6	1919.6	774.3
80°	117.5	124.4	149.7	239.3	432.2	492.8	1027.3	*1660.8*	1453.7	526.6	260.4
82.5°	60.6	65.9	90.1	148.1	297.8	432.7	581.4	*697.9*	450.1	220.3	138.6
85°	19.0	22.1	31.6	60.1	141.8	268.3	384.8	*346.8*	206.6	103.8	64.3
87.5°	4.7	4.7	5.3	5.3	5.8	12.1	74.3	*78.5*	54.8	32.7	26.4
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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Scaled Data Report

REPORT NUMBER: P632536
CATALOG NUMBER: GWS-SA2C-830-U-SL3-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1993.4	1993.4	1993.4	1993.4	1993.4	1993.4	1993.4	1993.4	1993.4	1993.4	1993.4
2.5°	1979.7	1967.1	1961.8	1961.3	1948.1	1929.1	1916.5	1907.5	1902.2	1901.2	1901.2
5°	1944.4	1928.1	1906.4	1890.1	1854.8	1818.9	1788.9	1772.0	1752.5	1749.9	1749.4
7.5°	1897.5	1873.8	1832.7	1786.8	1725.1	1665.6	1615.0	1580.7	1546.4	1540.1	1538.0
10°	1846.9	1814.7	1744.6	1664.0	1571.7	1482.7	1405.2	1344.6	1304.5	1276.1	1270.8
12.5°	1796.8	1754.1	1651.3	1531.2	1404.7	1282.9	1166.4	1067.3	995.7	954.0	946.6
15°	1749.9	1690.3	1549.6	1396.2	1231.8	1065.2	900.3	771.6	671.0	635.1	626.7
17.5°	1707.2	1632.9	1451.0	1256.6	1051.5	833.8	646.2	531.8	472.8	454.9	450.7
20°	1664.5	1573.9	1350.9	1109.5	860.2	616.2	472.3	418.5	396.4	389.5	387.4
22.5°	1618.7	1509.0	1241.8	964.6	666.8	461.2	386.3	362.6	355.8	356.3	355.8
25°	1572.8	1443.1	1127.4	807.0	496.5	374.2	337.3	328.4	330.0	334.7	335.7
27.5°	1534.9	1384.6	1015.2	634.1	387.9	322.0	304.7	304.1	309.9	316.2	317.3
30°	1507.4	1332.5	904.5	487.5	319.4	286.2	279.4	282.5	289.4	294.1	295.7
32.5°	1487.9	1287.7	786.4	383.2	279.9	260.9	257.7	260.9	265.1	269.9	270.9
35°	1481.1	1255.0	670.4	312.6	253.0	242.5	240.3	241.9	244.0	246.7	247.7
37.5°	1496.4	1238.6	549.2	272.0	236.7	230.3	227.2	226.1	226.6	227.7	228.2
40°	1541.7	1246.0	450.1	248.3	226.1	220.3	215.0	212.9	212.4	213.5	212.9
42.5°	1619.7	1277.1	378.4	234.6	217.7	209.3	203.5	201.3	201.3	204.0	204.0
45°	1734.1	1338.3	326.8	224.5	210.3	199.8	193.4	192.4	194.5	198.7	199.2
47.5°	1901.7	1427.9	295.7	217.2	203.5	191.3	185.0	184.5	188.7	195.5	196.1
50°	2100.4	1557.0	278.8	211.9	198.7	184.5	178.2	178.7	183.4	190.8	192.4
52.5°	2339.7	1733.0	279.9	209.8	196.1	180.3	173.9	172.9	177.6	185.0	186.6
55°	2586.9	1947.0	300.4	210.3	192.4	178.2	169.7	166.0	170.2	175.5	176.0
57.5°	2858.9	2188.4	351.6	209.3	187.6	176.0	166.0	157.6	160.2	163.4	165.0
60°	3165.6	2472.5	461.7	211.4	185.5	171.3	158.7	147.6	147.1	149.2	149.7
62.5°	3575.7	2858.9	585.6	215.0	190.3	165.5	147.6	136.0	133.9	134.9	135.5
65°	3889.3	3043.4	546.6	211.9	200.3	161.3	137.0	124.9	120.7	119.6	119.6
67.5°	3761.8	2799.3	380.6	203.5	205.0	161.8	128.6	113.3	108.1	105.4	104.9
70°	*3201.0*	*2273.8*	*264.6*	*195.0*	*199.8*	*160.8*	*119.6*	*103.8*	*97.0*	*93.3*	*92.8*
72.5°	2528.9	1736.2	214.0	178.2	181.3	144.9	106.5	93.3	87.5	82.8	82.8
75°	1627.6	1059.4	178.7	158.7	148.1	112.8	92.2	83.3	77.5	72.7	72.7
77.5°	547.6	393.2	138.6	134.4	110.7	84.9	77.5	71.7	66.9	62.7	62.2
80°	222.4	186.6	101.7	101.7	77.5	64.8	60.6	58.0	54.8	49.5	49.5
82.5°	129.1	113.3	71.2	61.7	51.7	44.8	42.2	39.5	39.5	35.8	35.8
85°	62.2	62.7	42.7	37.9	29.5	25.8	24.8	23.2	22.7	20.6	20.0
87.5°	33.7	34.3	21.6	16.9	11.6	10.0	8.4	7.9	7.4	6.9	6.9
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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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.

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

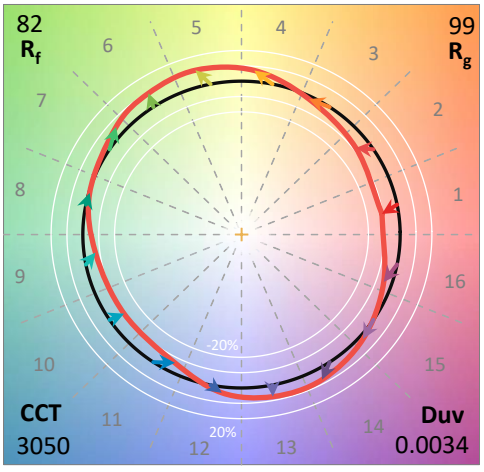
Test Information

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	CRI (Ra):	81.0		
CIE u':	0.2476	R1:	79.6	R9:	7.1
CIE v':	0.5251	R2:	85.6	R10:	67.0
Duv:	0.0034	R3:	92.0	R11:	82.7
CIE x:	0.4383	R4:	82.6	R12:	63.2
CIE y:	0.4131	R5:	78.9	R13:	80.3
CIE z:	0.1487	R6:	81.7	R14:	95.0
Peak Wavelength (nm):	603	R7:	85.2	R15:	71.7
Dominant Wavelength (nm):	581	R8:	62.0		
Purity:	55.55201				

Rf:	81.5
Rg:	99.2



Test Conditions

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

REPORT NUMBER: SP1-2408-195-9

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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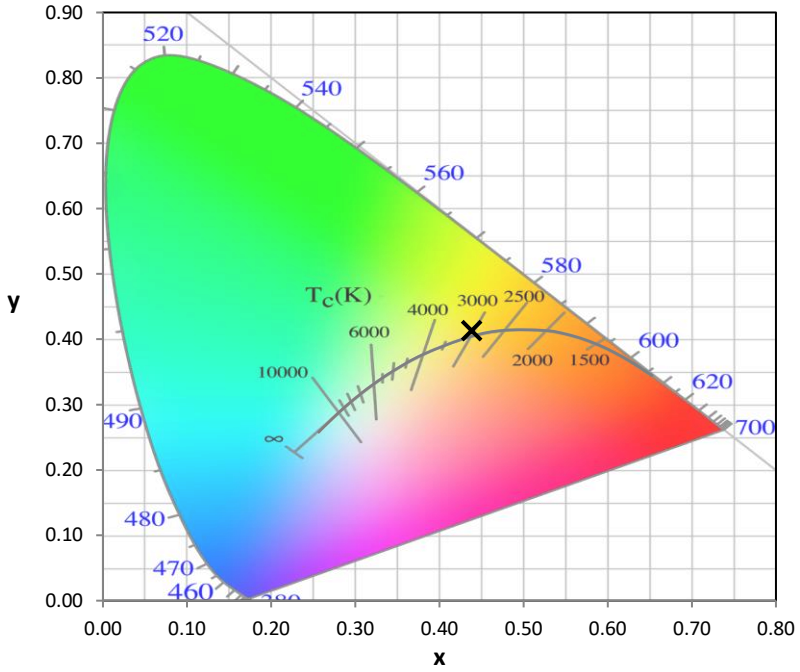
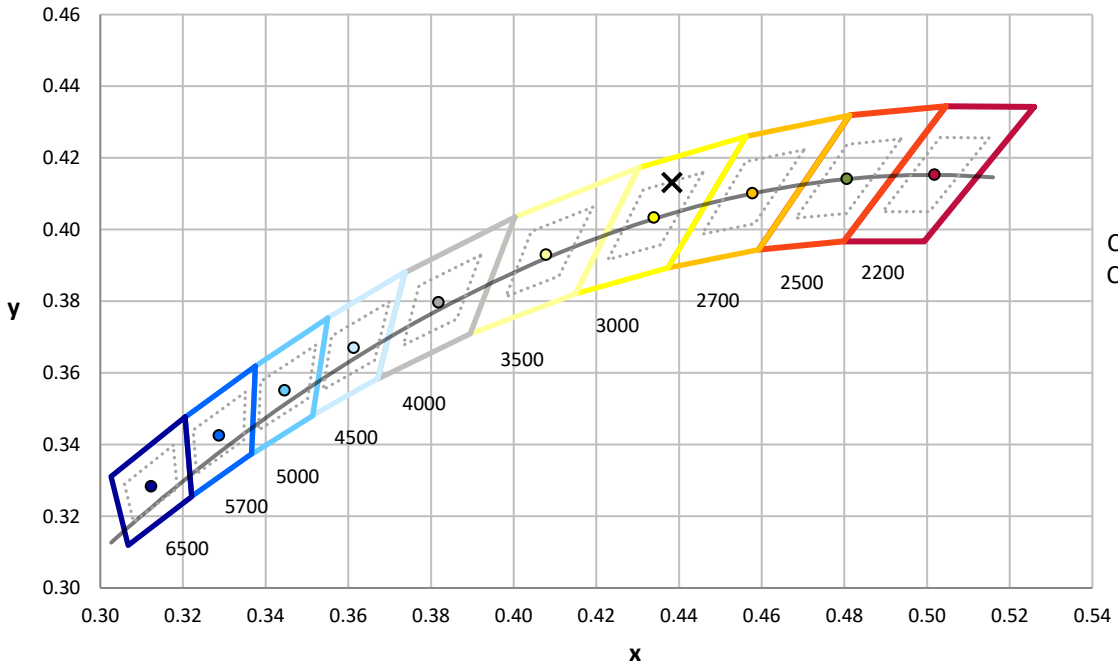
CIE 1931 Chromaticity Diagram



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

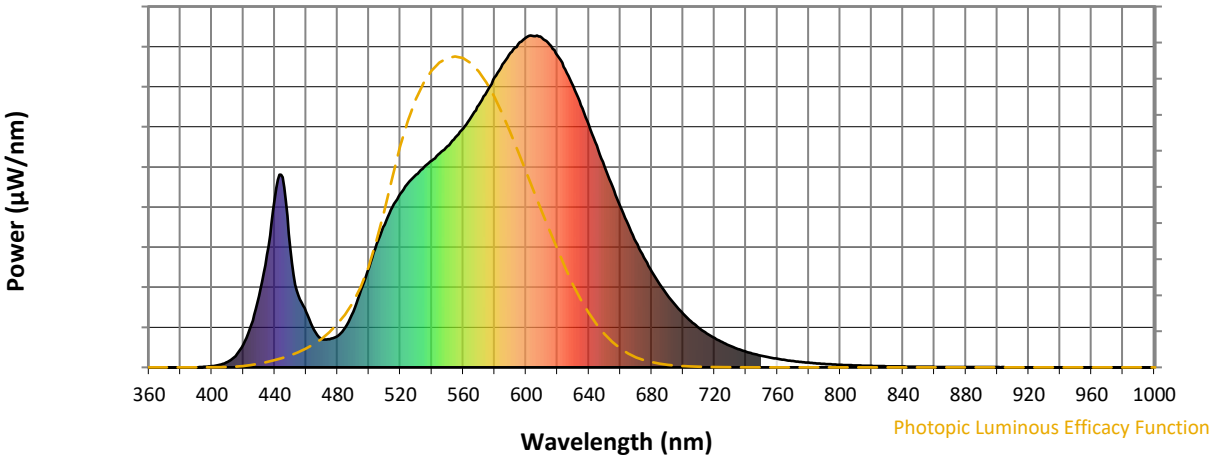


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength



Photopic Lumens: NR

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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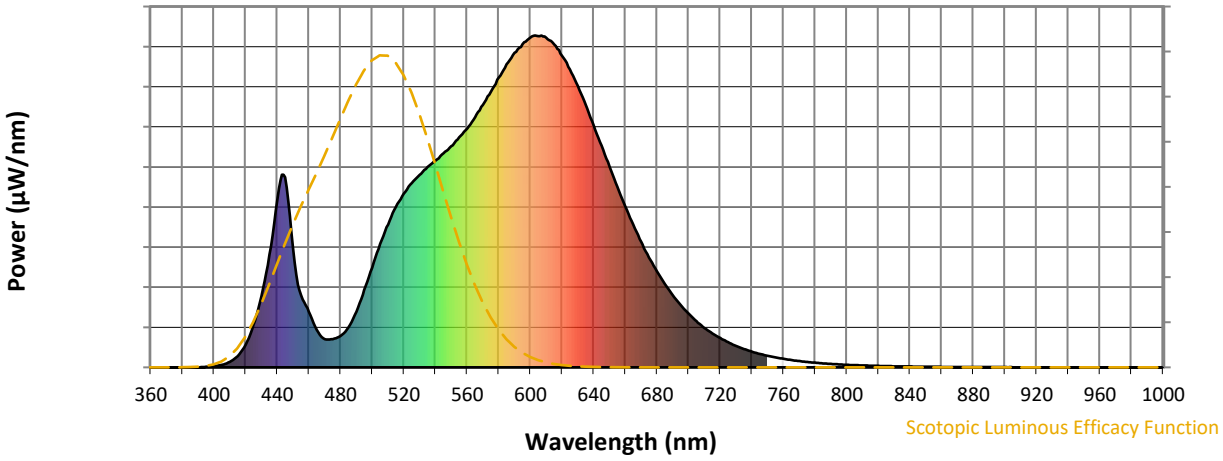
Scotopic Flux vs. Wavelength



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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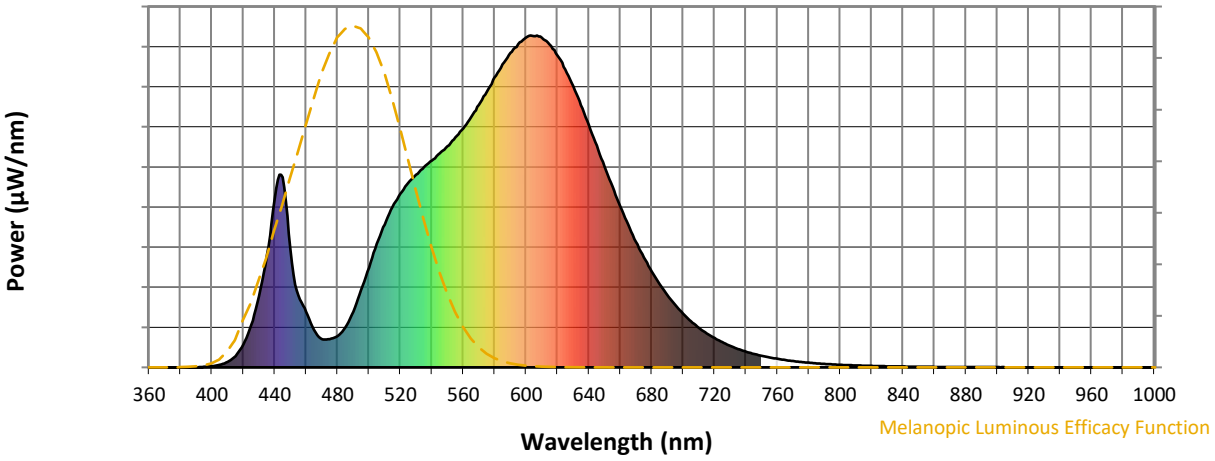
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.32**

λ (nm)	Power W^/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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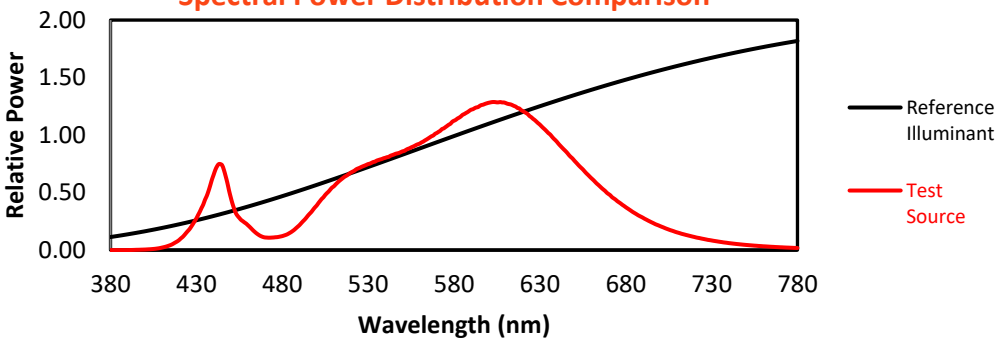
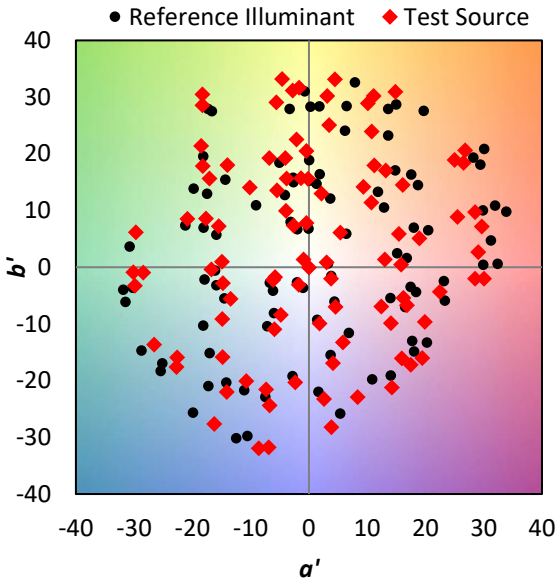
Summary

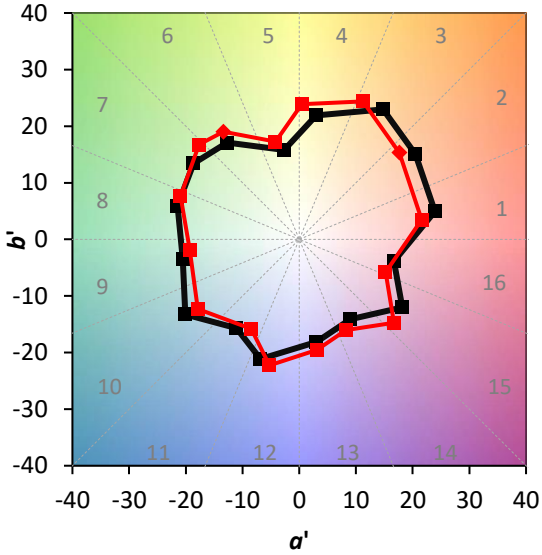
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

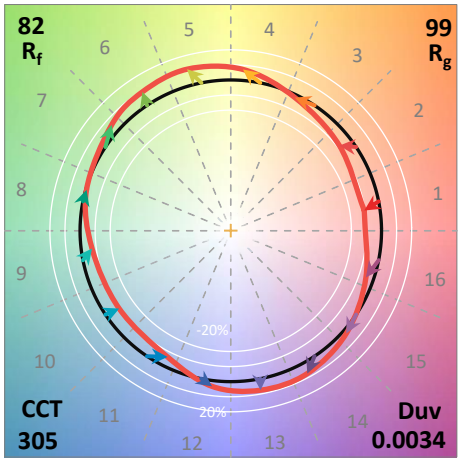
Spectral Power Distribution Comparison

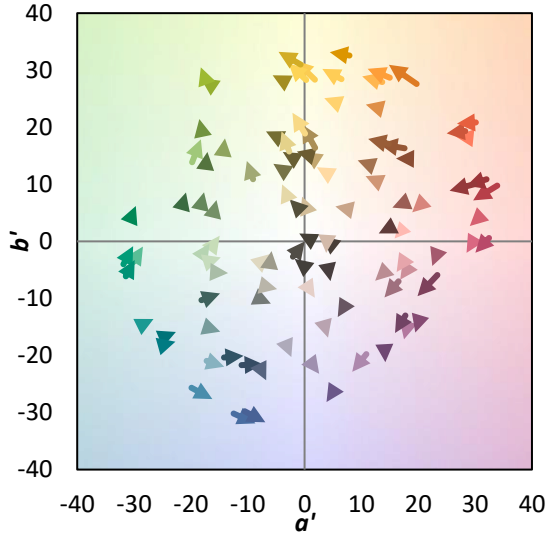


Color Vector Graphics









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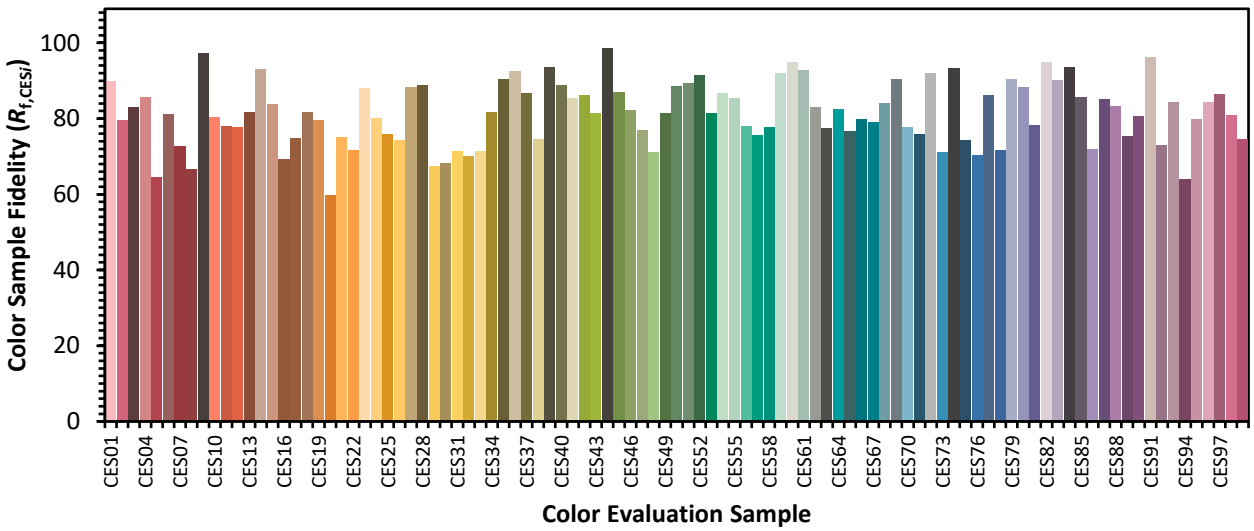
Individual Sample Fidelity Index ($R_{f,i}$)

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	



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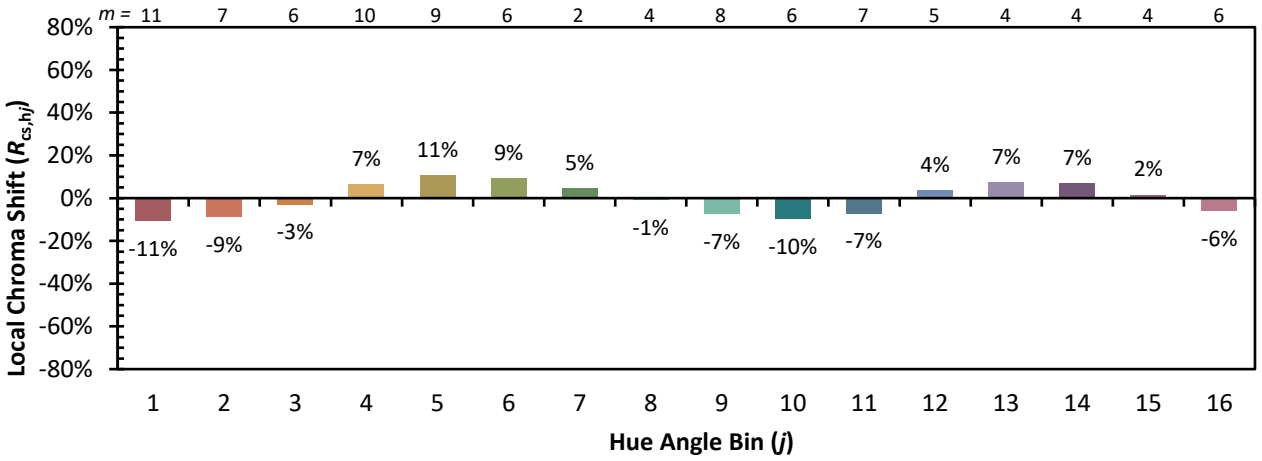
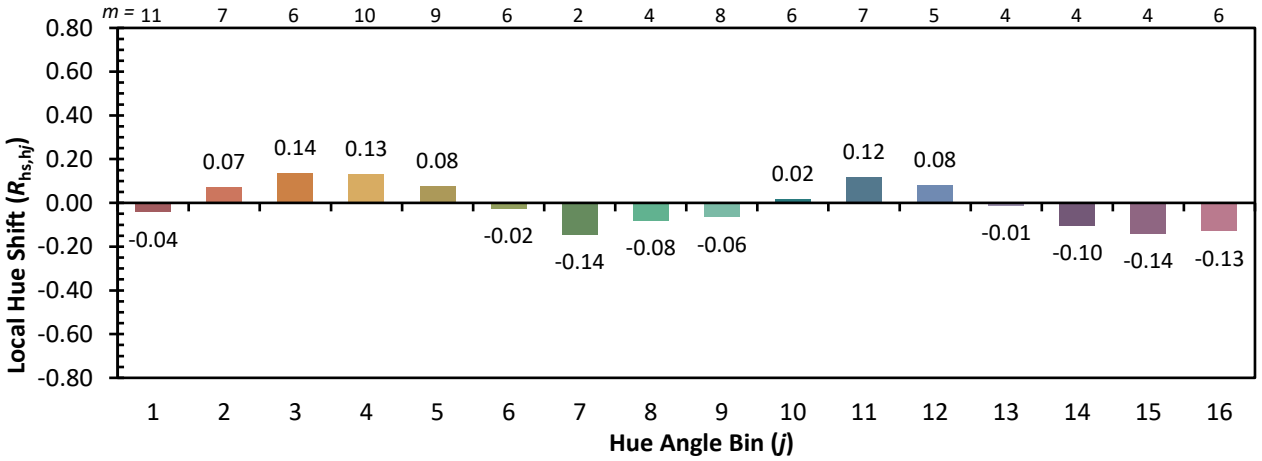
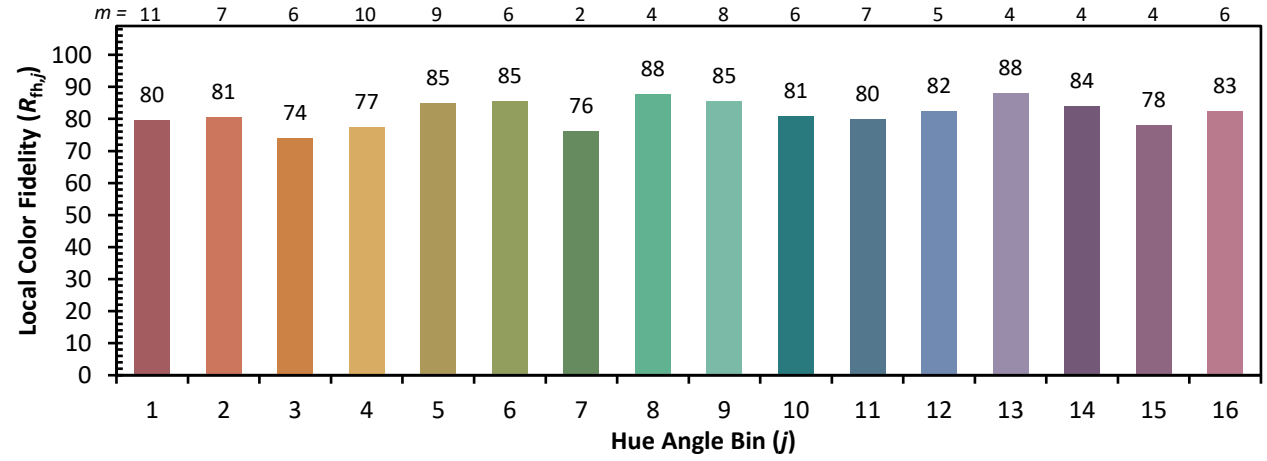
Color Rendition by Hue-Angle Bin







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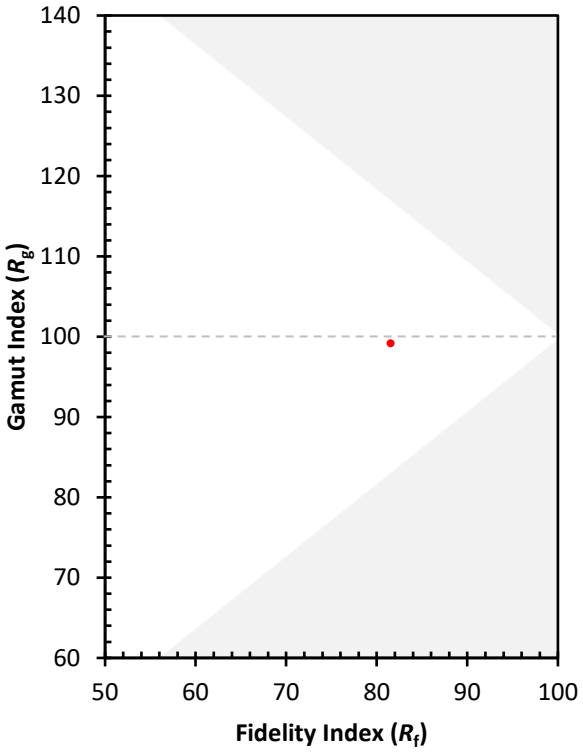
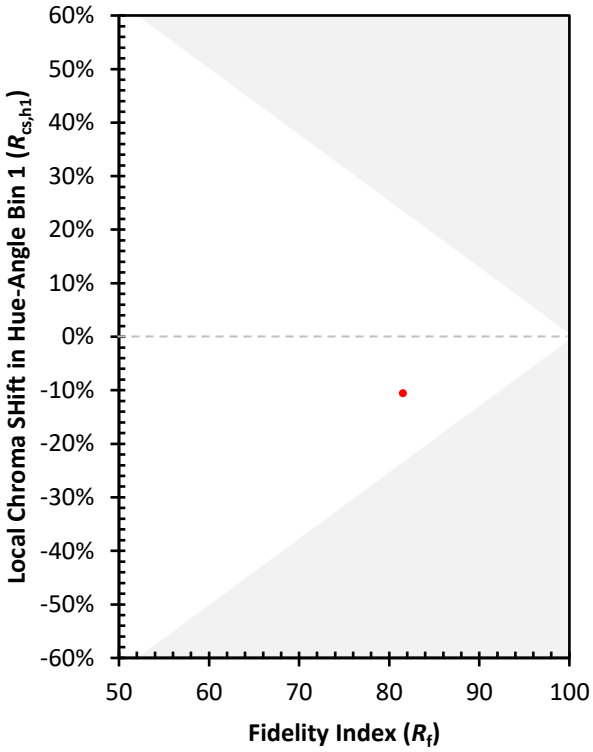
Measure Comparisons





(END OF REPORT)