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: P633026

Luminaire Tested: GWS-SA2D-830-U-SL2-W-HSS

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:	P633026
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2D-830-U-SL2-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7352.7 lumens
Efficiency:	N/A
Efficacy:	89.6 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	82.1
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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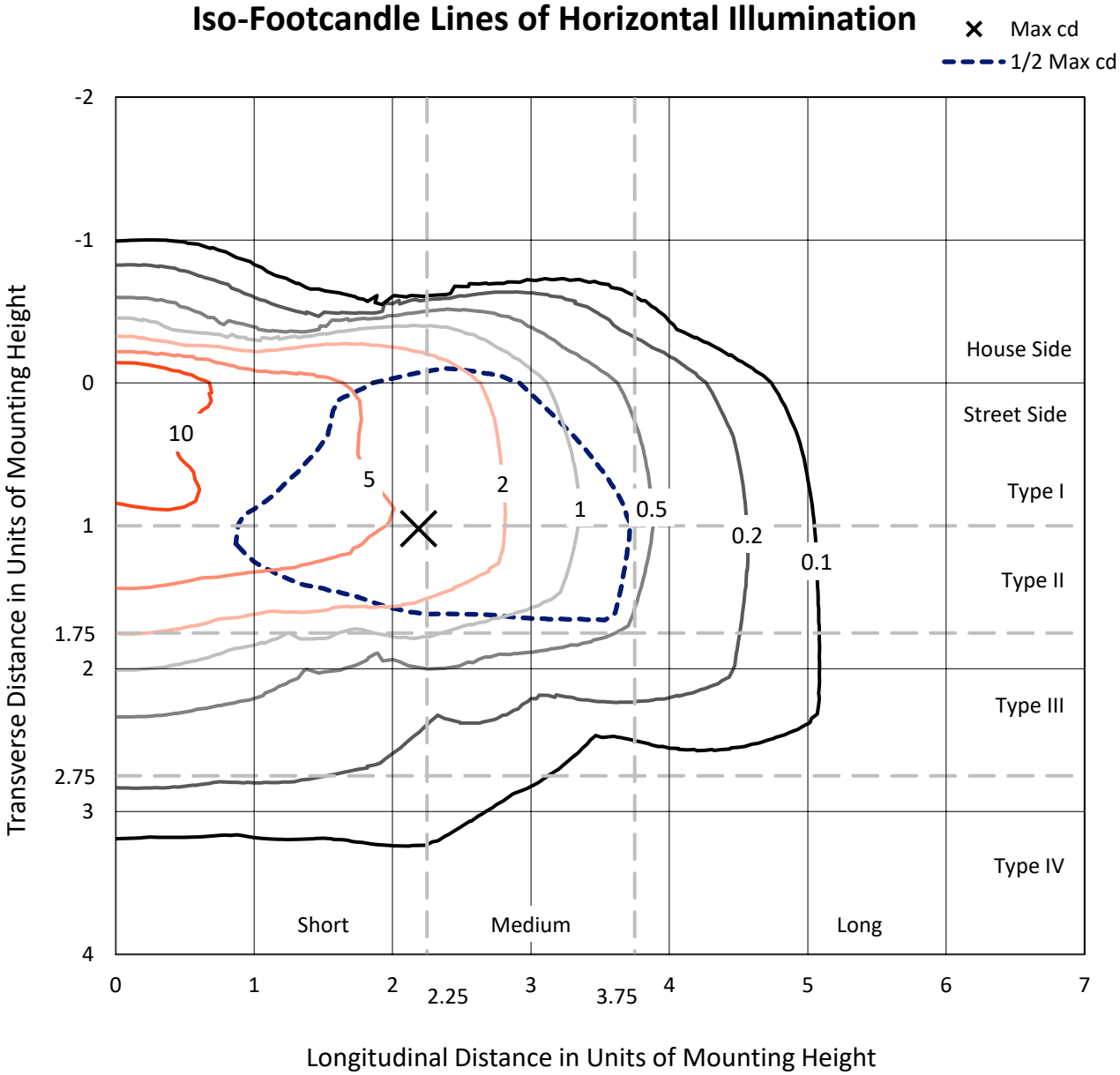
Scaled Data Report

REPORT NUMBER: P633026
CATALOG NUMBER: GWS-SA2D-830-U-SL2-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 17.8 fc
Type II - Short - N/A

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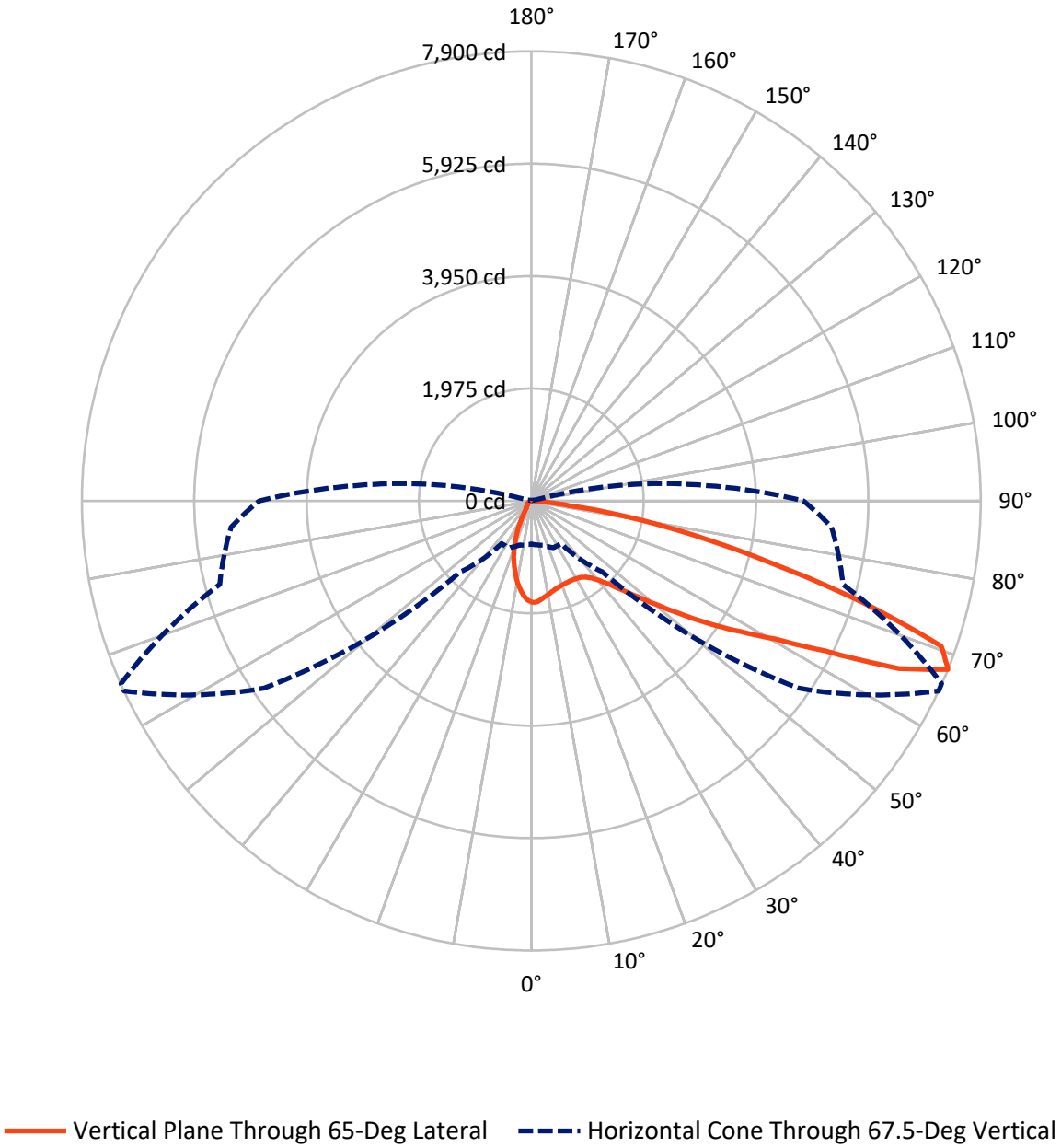
Luminous Intensity Polar Plot



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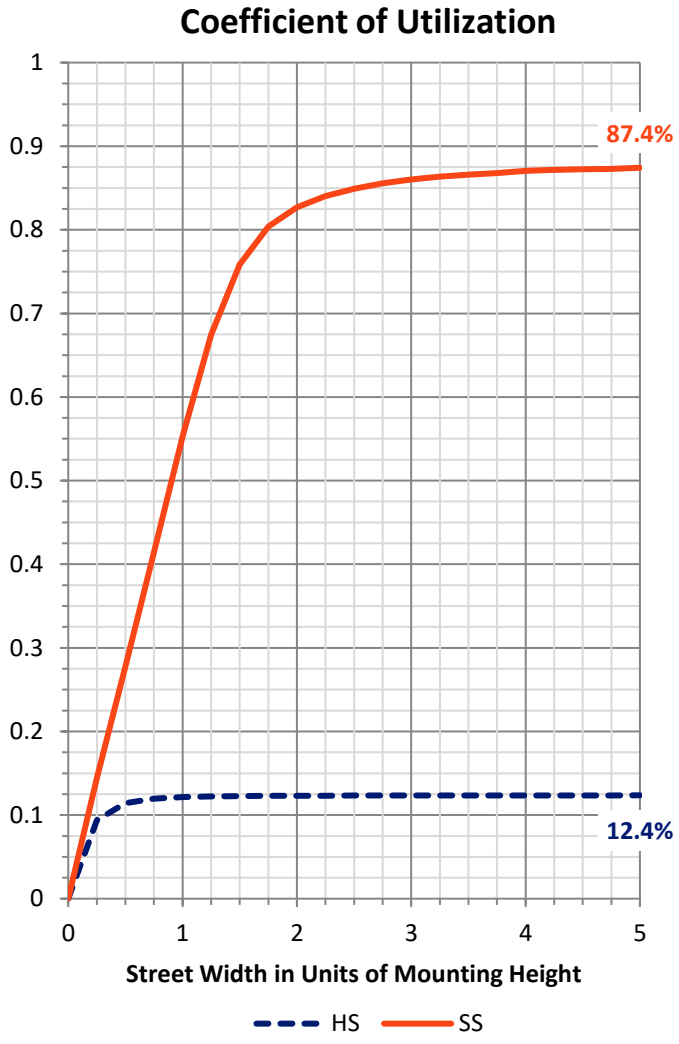
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	918.1	0.0	918.1
	% Fixture	12.5	0.0	12.5
Street Side	Lumens	6434.6	0.0	6434.6
	% Fixture	87.5	0.0	87.5
Total	Lumens	7352.7	0.0	7352.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.1	2.0
10°-20°	332.9	4.5
20°-30°	475.8	6.5
30°-40°	692.2	9.4
40°-50°	1084.0	14.7
50°-60°	1691.1	23.0
60°-70°	1857.6	25.3
70°-80°	988.6	13.4
80°-90°	82.3	1.1
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°	7352.7	100.0
0°-180°	7352.7	100.0



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REPORT NUMBER: P633026
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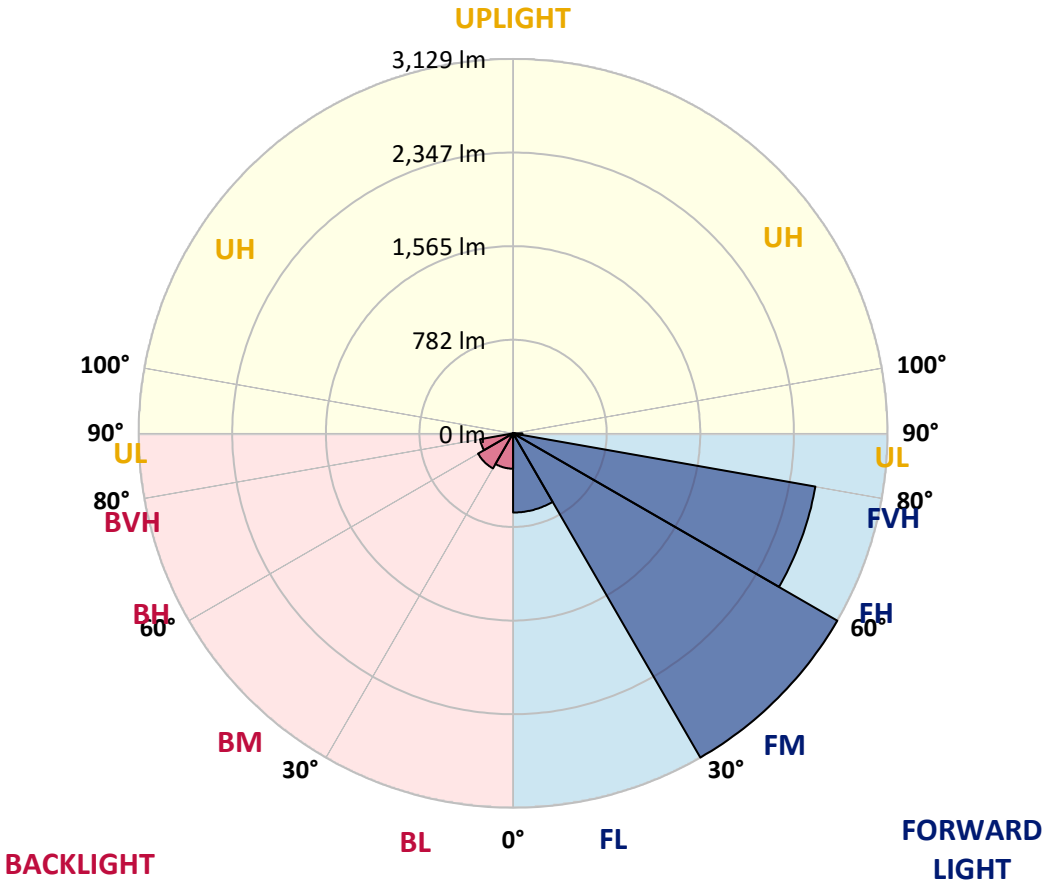
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	661.7	9.0			
FM	(30°-60°)	3129.2	42.6			
FH	(60°-80°)	2565.8	34.9			G2/5000
FVH	(80°-90°)	77.9	1.1			G1/100
BL	(0°-30°)	295.1	4.0	B1/500		
BM	(30°-60°)	338.2	4.6	B1/1000		
BH	(60°-80°)	280.4	3.8	B1/500		G1/500
BVH	(80°-90°)	4.4	0.1			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 II Short



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Scaled Data Report

REPORT NUMBER: P633026
CATALOG NUMBER: GWS-SA2D-830-U-SL2-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1783.3	1783.3	1783.3	1783.3	1783.3	1783.3	1783.3	*1783.3*	1783.3	1783.3	1783.3
2.5°	1721.4	1726.7	1719.4	1737.4	1740.7	1760.7	1772.0	*1779.9*	1779.3	1789.2	1789.2
5°	1620.4	1625.7	1621.7	1641.0	1656.3	1687.5	1713.4	*1743.4*	1744.7	1775.3	1786.6
7.5°	1534.6	1535.3	1535.3	1559.2	1579.1	1617.7	1656.3	*1702.1*	1707.5	1754.7	1784.6
10°	1464.1	1466.1	1466.8	1494.0	1516.0	1562.5	1611.7	*1666.9*	1672.9	1736.7	1783.3
12.5°	1415.6	1416.2	1418.9	1447.5	1471.4	1520.0	1569.8	*1633.0*	1641.0	1716.1	1777.3
15°	1392.3	1391.0	1392.3	1416.2	1440.2	1486.7	1537.9	*1605.7*	1614.4	1698.8	1777.9
17.5°	1391.0	1389.0	1387.6	1405.6	1420.9	1462.1	1514.0	*1587.8*	1597.1	1690.8	1785.3
20°	1410.3	1408.9	1402.3	1410.3	1413.6	1447.5	1498.7	*1573.8*	1583.1	1689.5	1801.2
22.5°	1460.8	1457.5	1447.5	1440.2	1422.2	1442.2	1488.0	*1563.8*	1574.5	1692.8	1821.8
25°	1535.9	1534.6	1522.0	1504.0	1458.1	1450.1	1488.7	*1563.8*	1573.8	1696.8	1843.8
27.5°	1649.0	1641.0	1625.0	1593.8	1527.9	1481.4	1502.0	*1567.8*	1577.8	1702.1	1861.7
30°	1764.0	1763.3	1758.0	1726.1	1628.3	1541.2	1529.9	*1578.5*	1587.8	1706.8	1878.3
32.5°	1883.0	1885.0	1898.3	1873.7	1766.6	1630.3	1580.5	*1600.4*	1607.1	1716.1	1893.0
35°	1996.0	2000.0	2035.3	2043.9	1934.9	1765.3	1662.9	*1644.3*	1645.0	1736.7	1912.3
37.5°	2104.4	2117.7	2174.2	2216.1	2144.3	1928.9	1781.9	*1718.8*	1713.4	1777.9	1941.5
40°	2227.4	2252.7	2323.8	2395.0	2372.4	2145.0	1944.2	*1833.1*	1821.8	1853.7	1994.0
42.5°	2363.7	2391.0	2485.4	2585.1	2595.8	2406.3	2147.0	*2000.0*	1980.7	1981.4	2092.4
45°	2510.0	2546.6	2656.3	2799.9	2864.4	2697.5	2397.0	*2225.4*	2206.1	2177.5	2250.7
47.5°	2702.2	2734.1	2839.8	3005.3	3129.0	3010.0	2724.8	*2515.3*	2480.1	2438.2	2496.7
50°	2867.7	2895.6	2986.7	3194.2	3451.5	3412.9	3096.4	*2877.7*	2843.8	2772.6	2821.2
52.5°	2904.3	2926.2	3010.0	3243.4	3698.2	3921.6	3551.9	*3315.9*	3291.9	3160.3	3178.9
55°	2740.1	2773.3	2848.4	3107.7	3762.7	4418.9	4143.0	*3809.9*	3760.0	3549.9	3583.1
57.5°	2325.2	2384.3	2454.8	2791.9	3587.8	4683.6	4968.8	*4333.2*	4287.9	3924.9	3925.6
60°	1704.1	1752.0	1799.2	2107.7	3172.9	4665.6	5718.1	*4920.9*	4838.5	4231.4	4220.1
62.5°	1239.4	1264.0	1263.3	1373.0	2178.9	4358.4	6111.8	*5806.6*	5614.4	4559.2	4494.7
65°	974.7	974.1	1002.7	1038.6	1216.8	3364.4	6160.3	*7099.8*	6892.4	4998.7	4864.4
67.5°	*758.7*	*773.3*	*801.9*	*907.6*	*914.2*	*1760.7*	*5733.4*	*7899.7*	*7895.7*	*5669.6*	*5297.3*
70°	585.1	605.1	645.6	799.9	844.4	985.4	4289.9	*7646.3*	7710.8	5969.5	4990.7
72.5°	375.7	374.3	434.2	646.3	811.2	821.2	2372.4	*6073.9*	6147.0	5407.0	4035.3
75°	210.1	211.4	245.3	395.6	756.0	772.6	1174.9	*4331.2*	4389.0	4215.5	3100.4
77.5°	82.4	85.1	115.0	208.1	498.7	690.2	698.1	*2953.5*	2962.1	2612.4	1901.6
80°	33.2	35.2	58.5	129.0	303.9	464.8	498.7	*1740.0*	1704.8	1011.3	553.2
82.5°	10.0	10.6	23.3	73.1	158.9	330.5	336.4	*667.6*	630.3	217.4	141.0
85°	0.7	0.7	5.3	22.6	56.5	83.1	224.1	*217.4*	192.8	54.5	62.5
87.5°	0.0	0.0	0.7	0.7	1.3	2.7	23.9	*39.9*	40.6	10.0	27.9
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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Scaled Data Report

REPORT NUMBER: P633026
CATALOG NUMBER: GWS-SA2D-830-U-SL2-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1783.3	1783.3	1783.3	1783.3	1783.3	1783.3	1783.3	1783.3	1783.3	1783.3	1783.3
2.5°	1789.2	1765.3	1763.3	1744.7	1726.1	1702.8	1675.5	1655.6	1641.6	1617.0	1612.4
5°	1786.6	1754.7	1724.8	1671.6	1612.4	1548.6	1492.7	1440.8	1408.3	1386.3	1377.0
7.5°	1781.3	1740.7	1671.6	1571.2	1472.1	1360.4	1273.3	1193.5	1139.0	1107.1	1093.1
10°	1777.3	1722.8	1610.4	1458.1	1304.5	1150.3	1018.0	899.6	833.8	781.9	773.3
12.5°	1769.3	1696.8	1531.9	1325.8	1127.7	922.9	754.0	609.0	508.6	463.4	447.5
15°	1761.3	1669.6	1453.5	1186.2	934.8	682.2	477.4	337.8	268.6	247.3	246.0
17.5°	1760.0	1645.0	1368.4	1053.9	732.7	446.8	271.9	218.8	204.1	198.8	198.8
20°	1764.0	1624.4	1284.6	901.6	533.9	271.9	202.8	189.5	180.9	176.2	176.2
22.5°	1768.0	1603.1	1204.1	748.0	354.4	198.8	178.9	167.6	157.6	152.3	149.6
25°	1770.6	1579.8	1115.0	593.8	231.4	172.9	156.9	142.3	130.3	123.7	123.7
27.5°	1770.0	1551.9	1025.3	442.8	179.5	153.6	134.3	119.0	107.0	99.7	100.4
30°	1764.6	1521.3	932.2	309.2	156.9	134.3	115.0	99.1	87.1	81.1	80.5
32.5°	1760.7	1488.7	824.5	217.4	141.0	117.7	97.7	82.4	72.5	67.8	67.2
35°	1756.0	1456.8	722.1	165.6	127.0	101.7	82.4	69.8	61.8	57.8	57.8
37.5°	1757.3	1423.6	611.0	142.3	113.0	88.4	70.5	59.8	53.2	49.2	48.5
40°	1777.9	1403.6	502.0	129.0	100.4	76.5	61.2	51.9	45.2	41.2	40.6
42.5°	1829.1	1404.3	397.6	119.0	89.1	65.2	53.2	44.5	38.6	33.9	33.2
45°	1931.5	1432.2	305.2	108.4	77.1	56.5	45.9	37.9	31.9	27.9	27.3
47.5°	2099.1	1515.3	231.4	99.1	67.2	49.2	39.2	31.9	26.6	23.3	22.6
50°	2365.7	1665.6	182.2	87.8	56.5	42.6	33.2	26.6	21.9	18.6	18.0
52.5°	2686.2	1891.0	156.3	77.8	48.5	37.2	28.6	21.9	18.0	15.3	14.6
55°	3054.5	2160.3	144.3	67.8	41.2	31.9	23.3	18.0	14.6	12.6	11.3
57.5°	3392.3	2402.9	143.6	57.8	35.2	27.3	19.3	15.3	12.6	10.0	9.3
60°	3721.4	2605.7	135.0	47.9	30.6	22.6	16.6	12.6	10.6	8.6	8.0
62.5°	4020.0	2770.6	113.0	38.6	25.9	18.6	14.0	11.3	9.3	7.3	7.3
65°	4395.0	2980.7	86.4	31.3	21.3	15.3	12.0	10.0	8.6	6.6	6.6
67.5°	*4782.6*	*3091.8*	*61.8*	*25.9*	*17.3*	*13.3*	*10.6*	*9.3*	*7.3*	*6.0*	*6.0*
70°	4331.8	2612.4	44.5	21.3	14.6	11.3	9.3	8.6	7.3	6.0	5.3
72.5°	3383.0	1883.7	33.2	16.6	12.6	10.6	8.6	8.0	6.6	5.3	5.3
75°	2508.7	1098.4	25.3	13.3	10.0	8.6	8.6	8.0	6.6	5.3	4.7
77.5°	1363.7	383.0	19.3	10.6	8.0	6.6	7.3	7.3	6.0	4.7	4.0
80°	361.0	105.1	13.3	8.0	6.6	5.3	5.3	6.6	5.3	4.0	4.0
82.5°	105.1	30.6	9.3	6.6	5.3	4.7	4.7	4.7	4.0	3.3	2.7
85°	51.2	11.3	6.6	5.3	4.7	4.0	3.3	3.3	2.7	2.0	2.0
87.5°	22.6	4.7	5.3	4.7	4.7	3.3	2.7	2.0	2.0	1.3	0.7
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

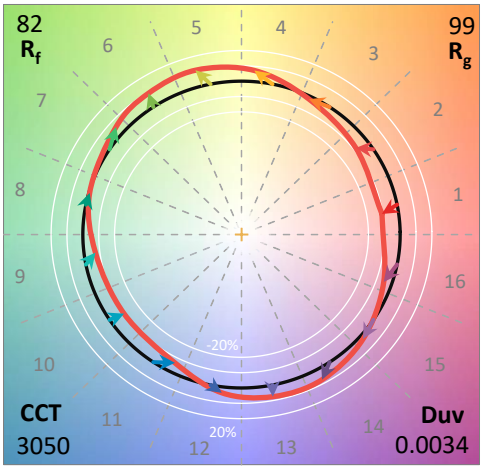
Test Information

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

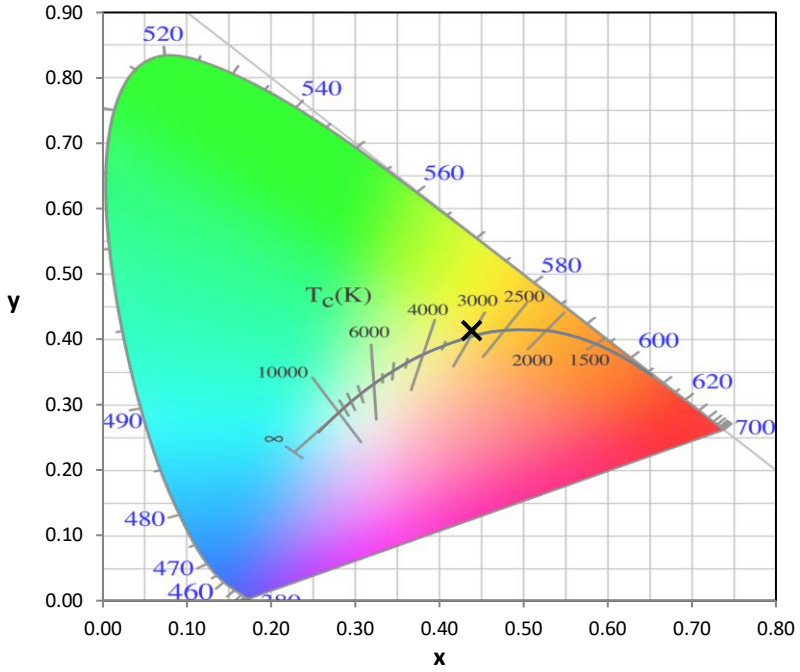
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

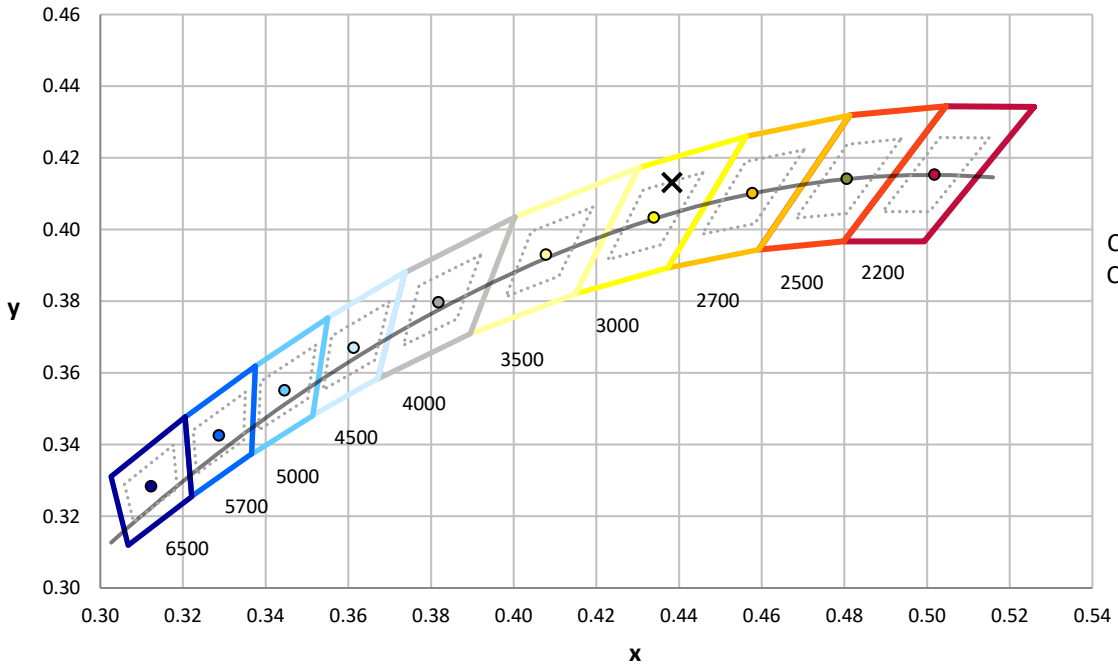
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2408-195-9

CIE 1931 Chromaticity Diagram



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

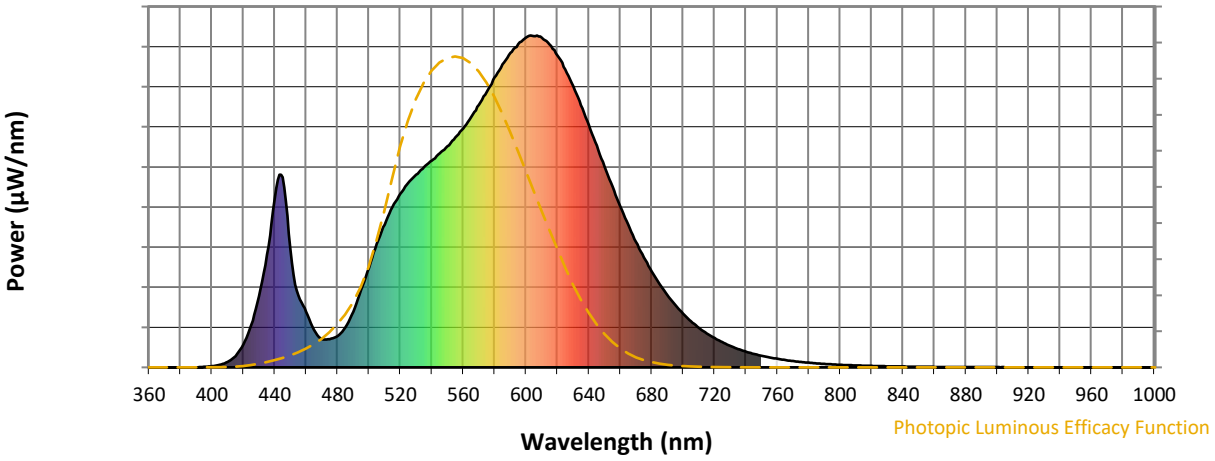


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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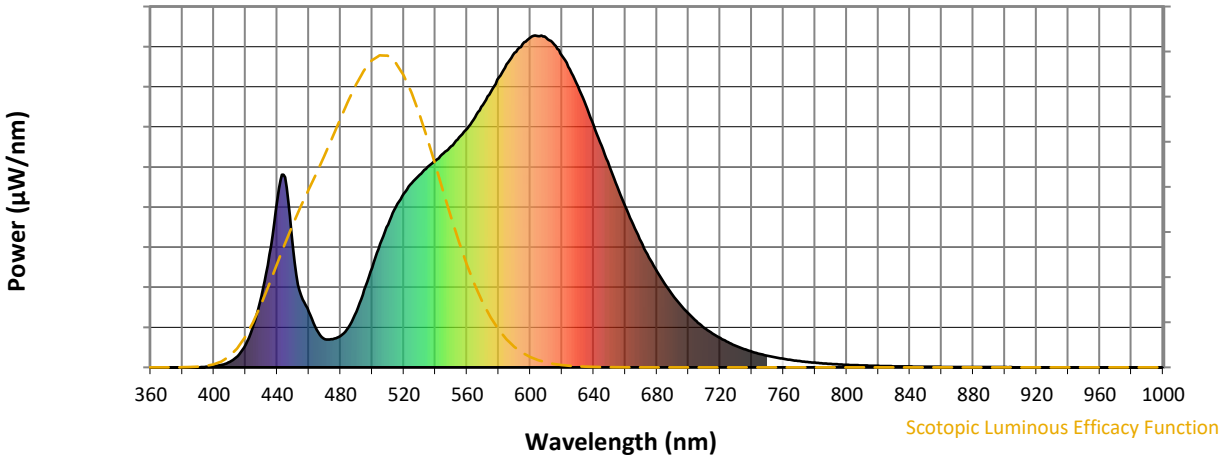
Scotopic Flux vs. Wavelength



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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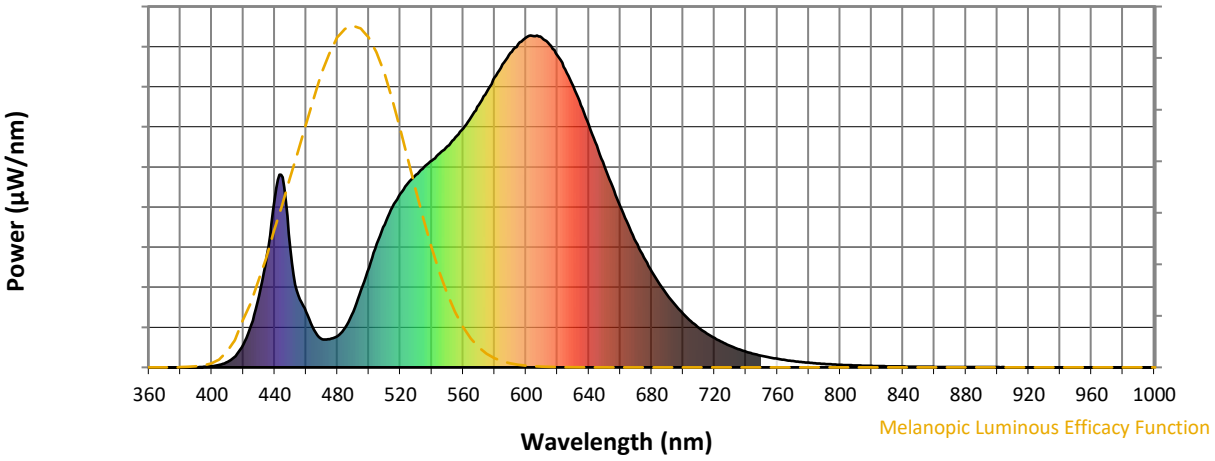
Melanopic Flux vs. Wavelength



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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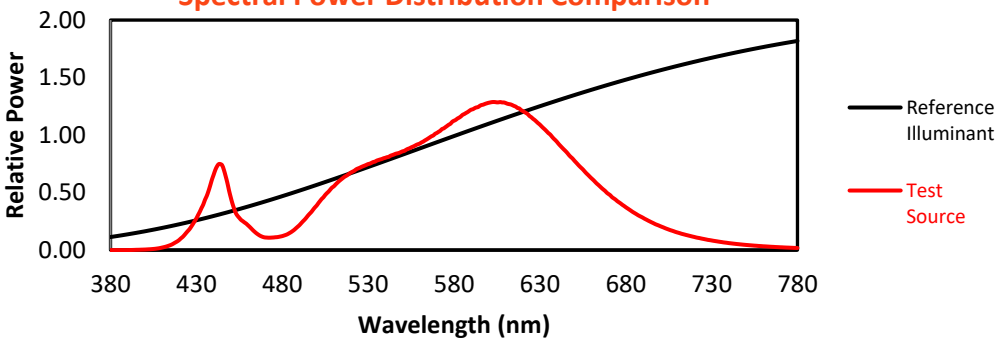
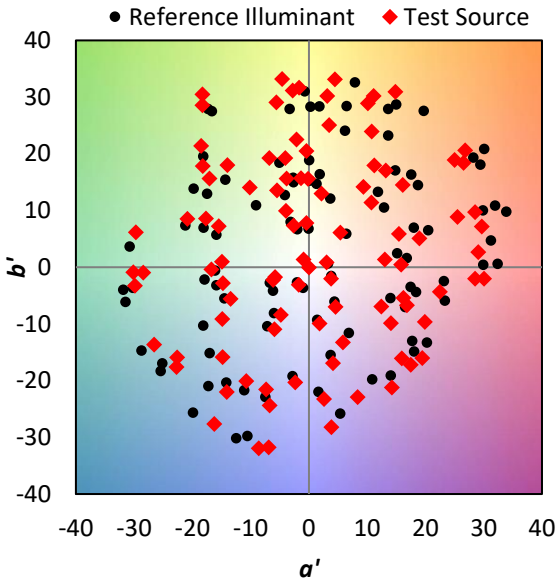
Summary

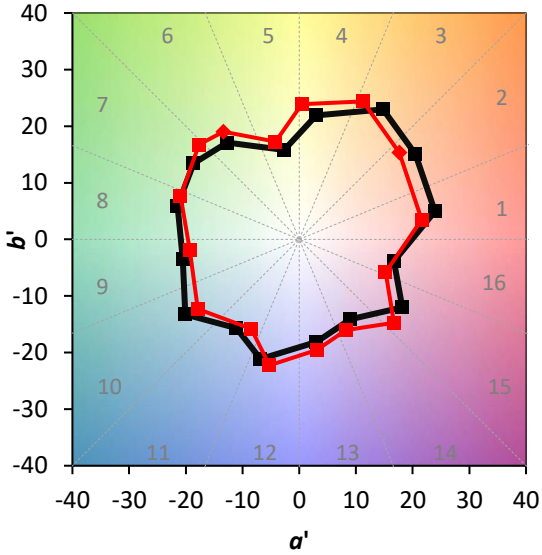
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

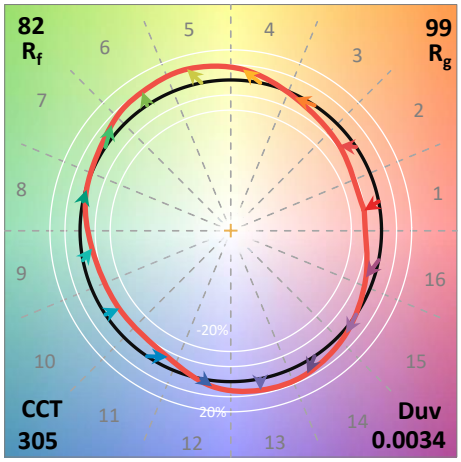
Spectral Power Distribution Comparison

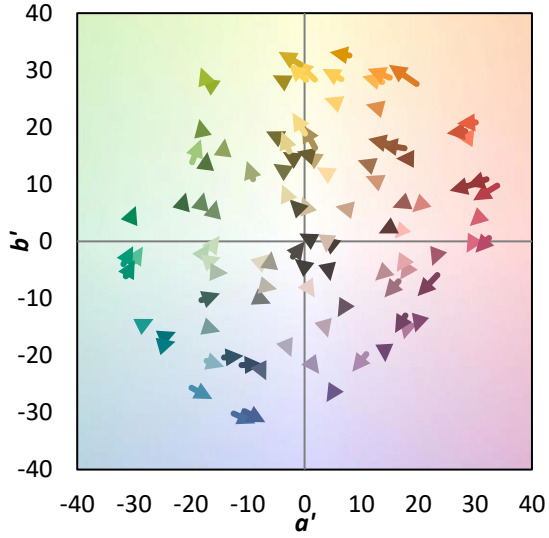


Color Vector Graphics









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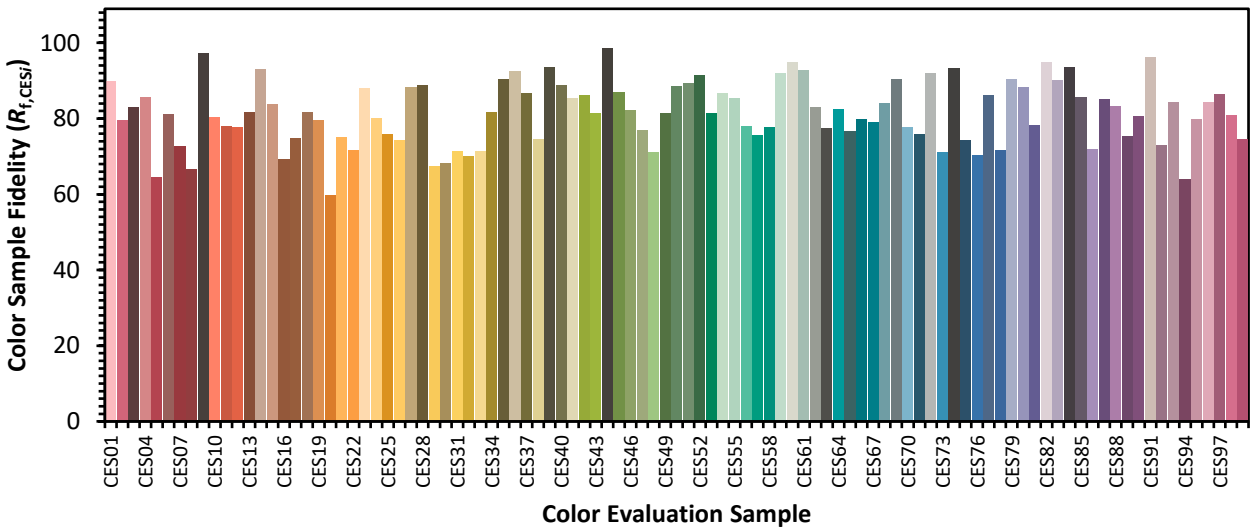
Individual Sample Fidelity Index ($R_{f,i}$)

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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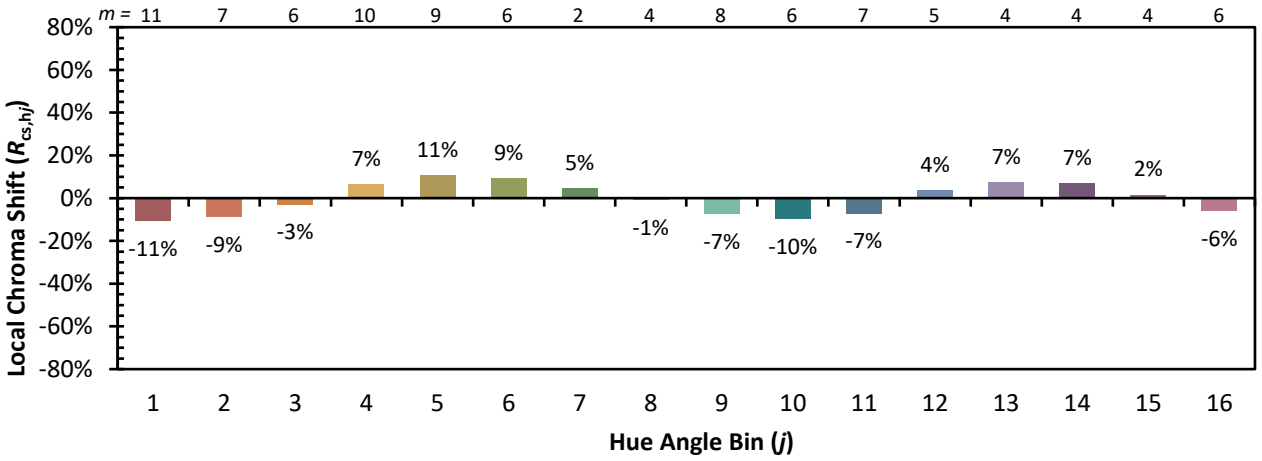
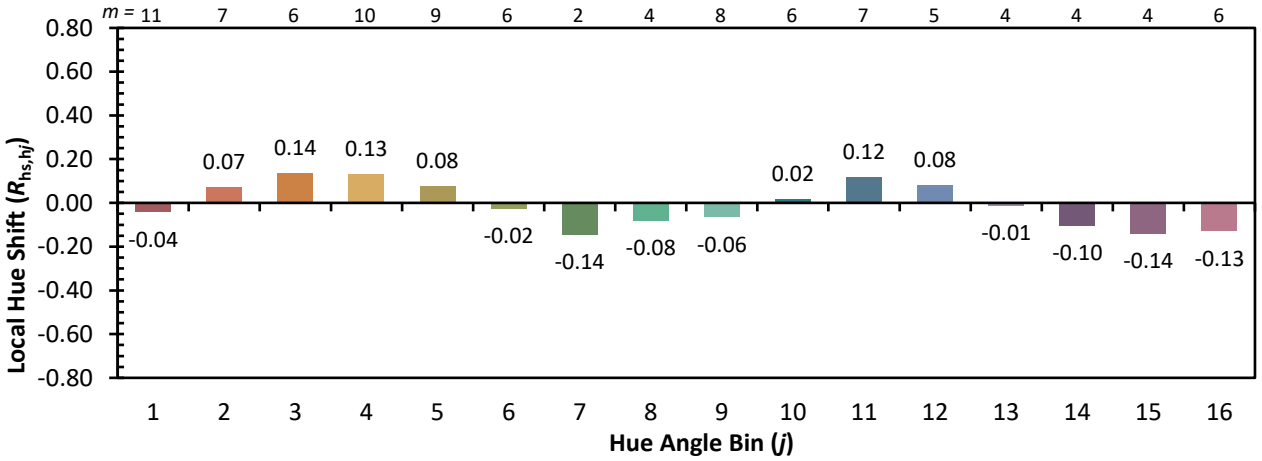
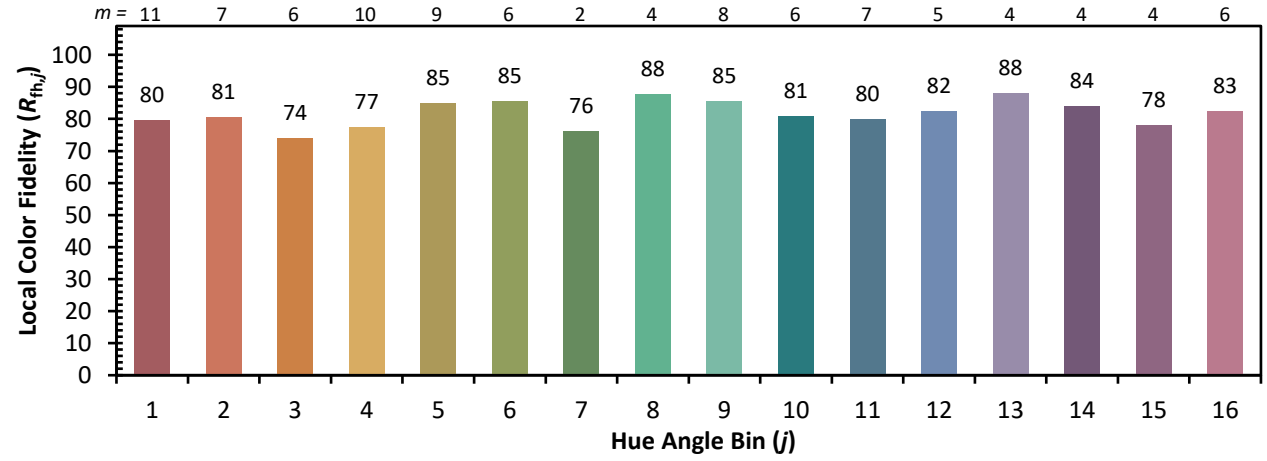
Color Rendition by Hue-Angle Bin







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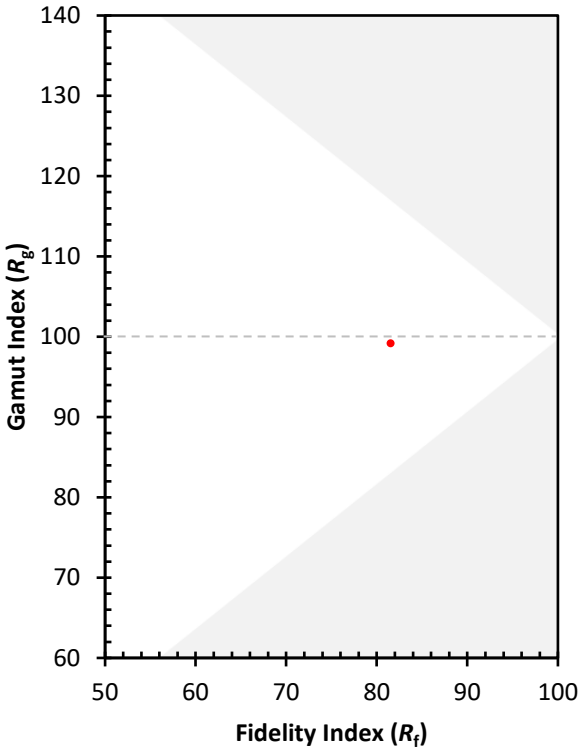
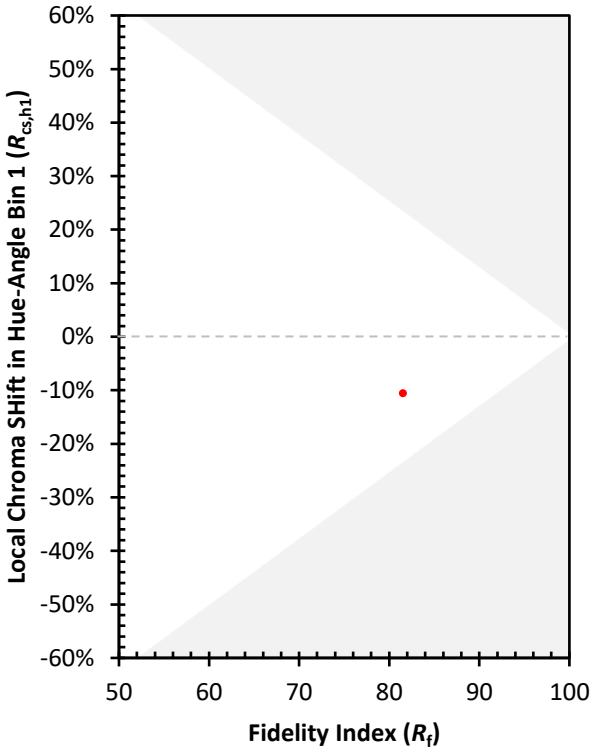
Measure Comparisons





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