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: P633052

Luminaire Tested: GWS-SA2D-830-U-T3-W-GRSWH

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:	P633052
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2D-830-U-T3-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7916.6 lumens
Efficiency:	N/A
Efficacy:	96.4 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G1

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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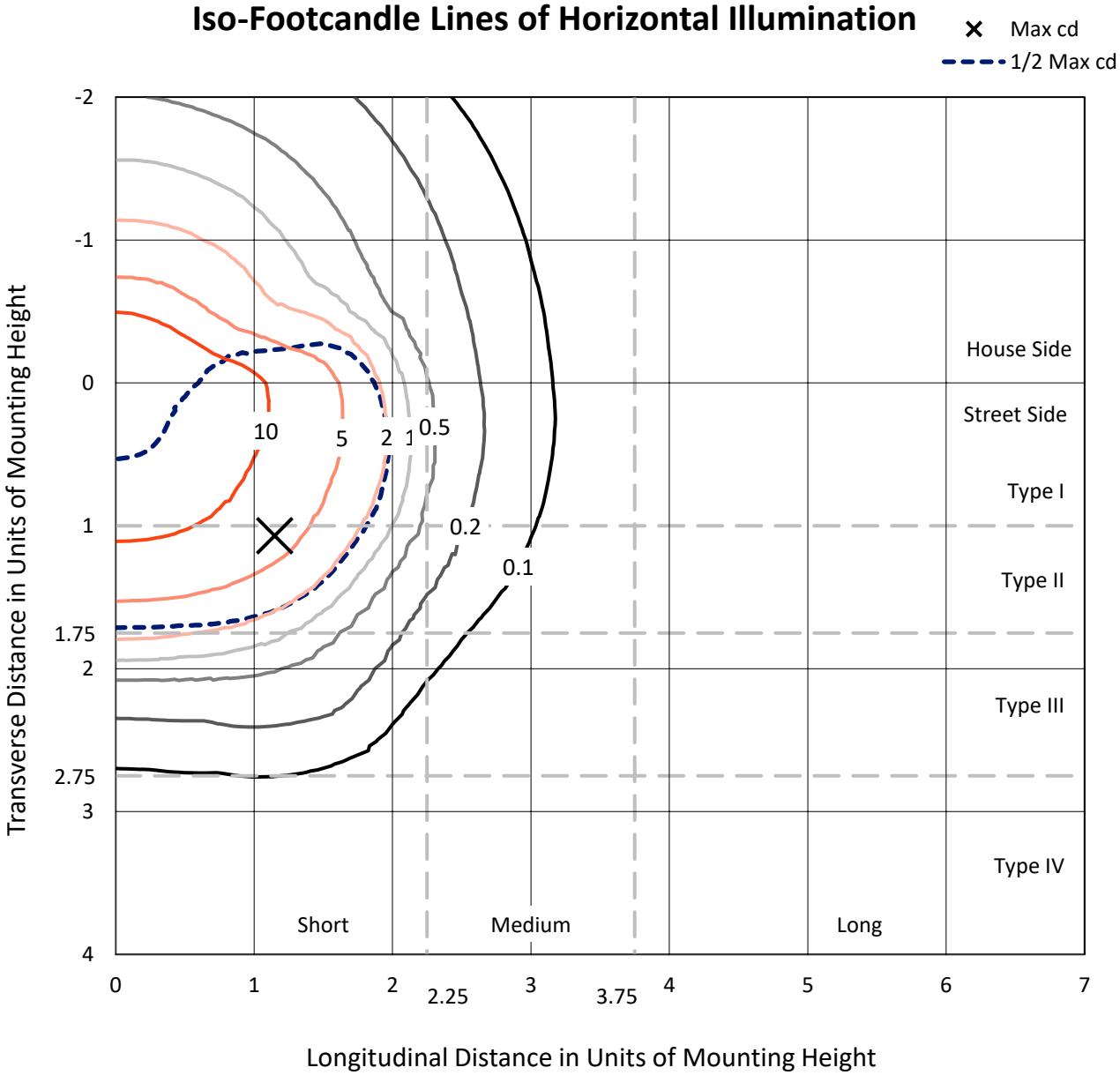
Scaled Data Report

REPORT NUMBER: P633052
CATALOG NUMBER: GWS-SA2D-830-U-T3-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 16.4 fc
Type II - Short - N/A

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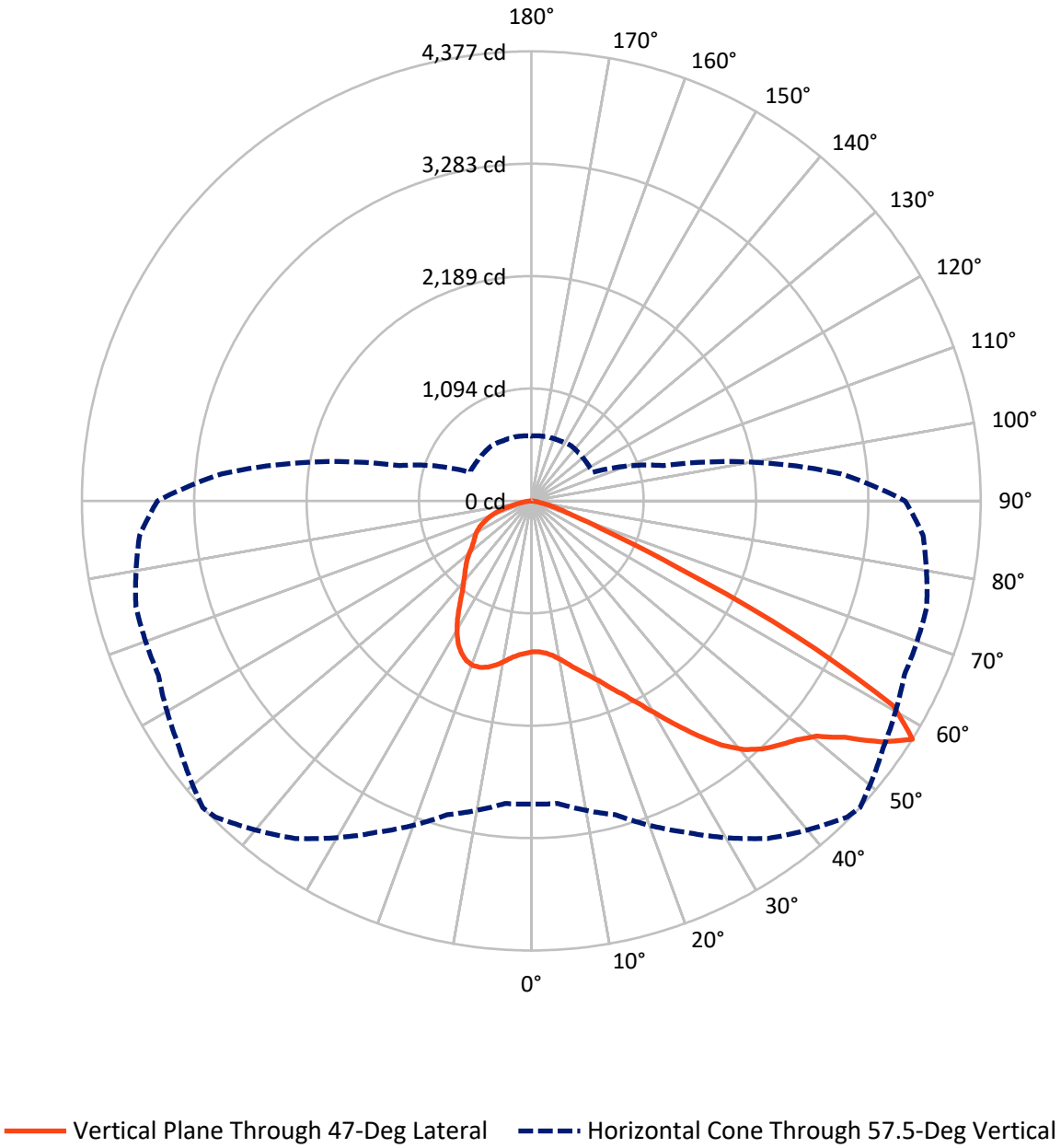
Luminous Intensity Polar Plot



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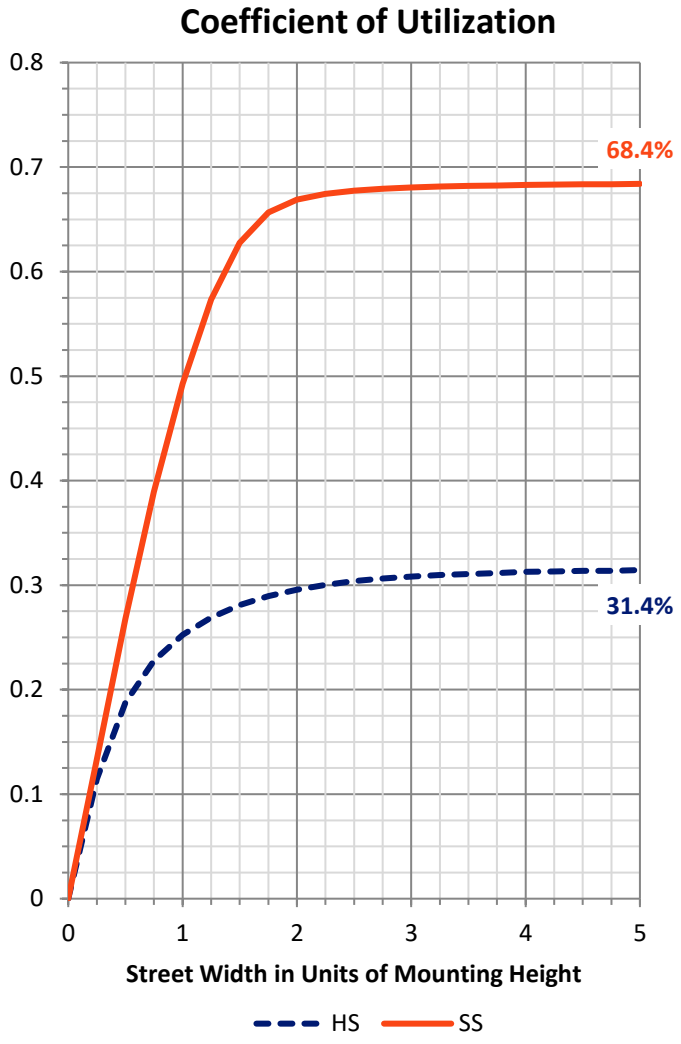
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2505.6	0.0	2505.6
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	5411.0	0.0	5411.0
	% Fixture	68.4	0.0	68.4
Total	Lumens	7916.6	0.0	7916.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.8	1.8
10°-20°	476.3	6.0
20°-30°	857.6	10.8
30°-40°	1295.3	16.4
40°-50°	1744.2	22.0
50°-60°	2095.9	26.5
60°-70°	1020.8	12.9
70°-80°	251.5	3.2
80°-90°	30.2	0.4
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°	7916.6	100.0
0°-180°	7916.6	100.0



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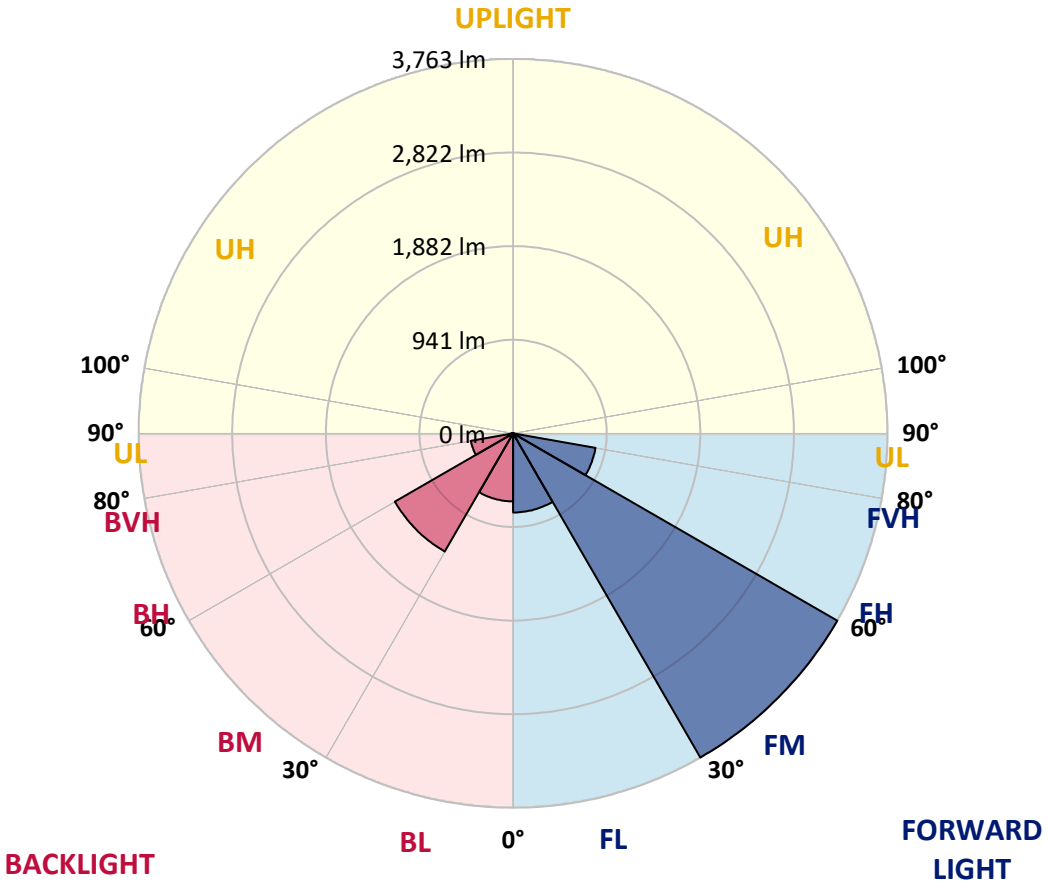
REPORT NUMBER: P633052
CATALOG NUMBER: GWS-SA2D-830-U-T3-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	795.2	10.0			
FM	(30°-60°)	3763.2	47.5			
FH	(60°-80°)	841.3	10.6			G1/1800
FVH	(80°-90°)	11.4	0.1			G1/100
BL	(0°-30°)	683.5	8.6	B2/1000		
BM	(30°-60°)	1372.3	17.3	B2/2500		
BH	(60°-80°)	431.0	5.4	B1/500		G1/500
BVH	(80°-90°)	18.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
Type II Short



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REPORT NUMBER: P633052
CATALOG NUMBER: GWS-SA2D-830-U-T3-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1468.1	1468.1	1468.1	1468.1	1468.1	1468.1	*1468.1*	1468.1	1468.1	1468.1	1468.1
2.5°	1465.5	1464.8	1464.8	1468.8	1468.8	1470.1	*1472.1*	1474.1	1474.8	1471.5	1464.2
5°	1481.4	1481.4	1481.4	1484.8	1484.8	1486.1	*1488.8*	1489.4	1488.8	1483.4	1476.1
7.5°	1506.7	1506.7	1507.4	1511.4	1514.7	1516.7	*1521.3*	1520.7	1518.7	1510.0	1500.7
10°	1547.9	1549.9	1551.9	1556.6	1563.2	1567.9	*1571.2*	1571.2	1568.5	1555.2	1543.3
12.5°	1606.4	1609.1	1611.1	1615.1	1620.4	1628.4	*1635.7*	1635.7	1632.4	1615.8	1597.8
15°	1674.9	1677.6	1676.9	1678.3	1688.2	1699.5	*1705.5*	1709.5	1710.8	1687.6	1659.6
17.5°	1753.4	1756.1	1753.4	1749.4	1750.7	1768.7	*1779.3*	1794.0	1802.6	1771.3	1726.8
20°	1824.5	1821.9	1821.9	1824.5	1828.5	1850.5	*1866.4*	1890.4	1901.0	1863.1	1794.0
22.5°	1899.7	1905.7	1903.0	1903.0	1919.0	1955.5	*1974.8*	2006.1	2017.4	1968.2	1875.1
25°	1996.8	2002.1	2000.7	2002.1	2020.7	2072.6	*2091.8*	2149.7	2161.0	2090.5	1964.8
27.5°	2103.1	2111.8	2115.8	2114.4	2144.4	2212.2	*2236.1*	2316.6	2337.2	2227.5	2060.6
30°	2241.4	2250.8	2254.1	2252.8	2288.0	2380.4	*2407.7*	2499.4	2528.7	2389.7	2182.3
32.5°	2401.7	2411.0	2421.0	2425.0	2470.2	2564.6	*2603.8*	2698.9	2740.8	2577.2	2329.2
35°	2560.6	2568.6	2587.9	2619.1	2681.0	2777.4	*2811.9*	2905.7	2946.3	2772.1	2506.8
37.5°	2736.1	2741.5	2758.1	2801.3	2890.4	2982.2	*3016.7*	3106.5	3111.2	2960.2	2707.6
40°	2928.3	2928.3	2925.0	2967.5	3060.6	3153.1	*3183.0*	3234.8	3207.6	3105.2	2903.0
42.5°	3091.2	3088.6	3091.2	3131.1	3200.3	3275.4	*3301.3*	3291.4	3256.8	3216.2	3079.9
45°	3238.2	3240.2	3264.1	3294.7	3330.6	3375.1	*3390.4*	3333.9	3302.7	3305.3	3221.5
47.5°	3337.9	3339.9	3395.7	3446.9	3468.9	3482.9	*3476.2*	3397.7	3381.8	3411.7	3330.6
50°	3351.2	3361.8	3458.3	3563.3	3617.8	3619.8	*3601.2*	3505.5	3500.8	3534.7	3389.1
52.5°	3353.9	3364.5	3484.8	3674.4	3816.0	3845.9	*3824.6*	3724.9	3676.3	3642.4	3460.9
55°	3343.9	3355.9	3488.8	3748.8	4020.1	4139.8	*4141.8*	4000.8	3845.9	3823.3	3665.7
57.5°	*2952.2*	*2956.9*	*3163.0*	*3559.3*	*4012.1*	*4351.2*	*4377.2*	*4185.7*	*4008.8*	*3987.5*	*3829.9*
60°	2056.6	2075.2	2299.3	2822.6	3370.5	3968.2	*4052.0*	3996.2	3877.8	3722.9	3286.0
62.5°	1030.0	1045.9	1270.7	1765.4	2324.6	2796.7	*2886.4*	2945.6	2973.5	2807.3	2237.5
65°	443.5	455.5	595.1	922.2	1315.9	1543.9	*1575.2*	1646.3	1820.6	1624.4	1205.5
67.5°	296.6	304.5	375.7	562.5	775.3	789.9	*785.3*	800.6	838.5	692.2	544.6
70°	227.4	234.1	281.9	412.3	557.2	476.7	*451.5*	409.6	444.8	453.5	441.5
72.5°	164.9	170.2	206.1	281.3	349.1	304.5	*300.5*	321.8	369.7	383.0	375.7
75°	106.4	109.0	131.0	154.3	180.2	195.5	*203.5*	242.0	290.6	300.5	291.9
77.5°	71.1	73.1	85.8	99.1	102.4	103.1	*105.7*	123.0	156.3	174.9	172.9
80°	37.2	37.2	41.9	41.9	47.9	57.2	*59.8*	71.1	86.4	95.7	96.4
82.5°	14.6	15.3	18.0	19.9	23.9	29.3	*31.3*	37.2	45.2	51.9	57.8
85°	6.0	6.6	7.3	8.6	10.6	13.3	*14.0*	16.0	21.3	26.6	29.9
87.5°	0.0	0.0	0.7	0.7	1.3	2.0	*2.0*	2.7	3.3	6.0	8.0
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: P633052
CATALOG NUMBER: GWS-SA2D-830-U-T3-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1468.1	1468.1	1468.1	1468.1	1468.1	1468.1	1468.1	1468.1	1468.1	1468.1	1468.1
2.5°	1472.8	1464.2	1472.8	1475.5	1482.8	1485.4	1480.8	1480.1	1480.1	1473.5	1471.5
5°	1482.8	1474.8	1483.4	1487.4	1498.1	1504.7	1506.0	1511.4	1514.7	1512.0	1511.4
7.5°	1507.4	1497.4	1506.7	1512.7	1526.7	1537.3	1542.0	1553.9	1562.6	1561.2	1560.6
10°	1550.6	1537.3	1547.9	1557.9	1573.2	1585.8	1586.5	1593.1	1601.8	1599.1	1597.8
12.5°	1600.5	1587.8	1599.8	1609.8	1627.7	1633.0	1624.4	1621.7	1623.1	1619.7	1617.1
15°	1661.6	1643.7	1654.3	1665.6	1675.6	1669.6	1651.0	1643.7	1643.0	1638.4	1635.7
17.5°	1722.8	1700.2	1708.2	1714.2	1709.5	1690.9	1667.6	1655.0	1649.0	1639.7	1637.0
20°	1783.3	1754.7	1753.4	1748.7	1727.5	1693.6	1662.3	1637.0	1621.7	1609.1	1604.5
22.5°	1852.5	1812.6	1792.6	1771.3	1724.8	1669.6	1622.4	1586.5	1561.9	1545.9	1540.6
25°	1926.9	1870.4	1829.2	1786.6	1698.2	1618.4	1552.6	1503.4	1474.1	1456.8	1450.9
27.5°	2000.7	1923.0	1861.1	1788.6	1645.0	1544.6	1456.2	1389.7	1360.4	1346.5	1341.8
30°	2100.5	1992.8	1899.0	1762.7	1575.2	1442.2	1331.8	1264.7	1245.4	1235.4	1231.4
32.5°	2215.5	2081.2	1949.5	1708.2	1486.1	1322.5	1206.2	1159.6	1146.3	1127.0	1126.4
35°	2367.1	2207.5	1997.4	1627.7	1373.7	1194.2	1109.8	1076.5	1052.6	1022.0	1019.3
37.5°	2544.0	2365.1	2023.4	1525.3	1242.7	1088.5	1037.9	1000.7	962.1	921.6	916.3
40°	2726.8	2549.3	2025.3	1404.3	1114.4	1018.7	976.1	927.6	879.7	834.5	828.5
42.5°	2919.0	2720.9	1990.1	1264.7	1009.3	958.2	914.9	853.8	799.9	769.3	766.0
45°	3090.6	2859.2	1910.3	1117.7	931.6	907.6	852.4	786.6	758.0	736.1	731.4
47.5°	3225.5	2950.9	1802.6	986.1	868.4	855.8	783.9	750.0	728.1	708.1	703.5
50°	3292.0	2971.5	1662.3	879.0	809.9	794.6	745.4	719.4	704.8	688.9	684.9
52.5°	3374.5	2994.8	1541.3	789.3	752.7	732.1	713.5	692.8	682.2	672.2	668.9
55°	3564.0	3082.6	1477.5	717.4	698.2	688.9	686.2	668.9	665.6	658.9	653.0
57.5°	*3641.1*	*3026.1*	*1326.5*	*658.9*	*654.9*	*656.3*	*662.9*	*647.0*	*643.6*	*635.7*	*631.7*
60°	2928.3	2287.3	898.3	608.4	619.0	627.7	634.3	618.4	613.7	612.4	607.1
62.5°	1876.4	1407.0	627.0	561.2	577.2	587.8	591.8	576.5	573.2	583.8	584.5
65°	976.8	766.7	508.7	510.7	524.0	539.9	547.9	542.6	541.2	552.5	553.2
67.5°	498.7	468.8	443.5	450.8	461.5	482.1	500.7	524.0	531.9	533.3	533.9
70°	424.9	411.6	399.0	403.6	414.9	426.2	444.2	455.5	442.2	438.8	437.5
72.5°	361.7	351.7	345.8	351.1	357.1	355.1	349.7	355.1	357.1	357.7	358.4
75°	281.3	273.9	269.3	270.0	270.0	262.6	252.7	246.7	240.0	234.7	234.7
77.5°	172.2	173.5	178.2	177.5	176.9	174.2	164.2	158.9	143.0	138.3	138.3
80°	98.4	100.4	105.1	106.4	106.4	103.1	93.1	87.1	79.8	76.5	75.8
82.5°	59.8	62.5	65.2	66.5	67.2	63.2	54.5	49.9	45.9	42.6	42.6
85°	31.3	32.6	35.2	35.9	33.9	29.9	25.3	23.3	19.3	18.6	18.6
87.5°	8.6	9.3	10.6	8.6	8.0	6.0	3.3	2.7	1.3	0.7	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

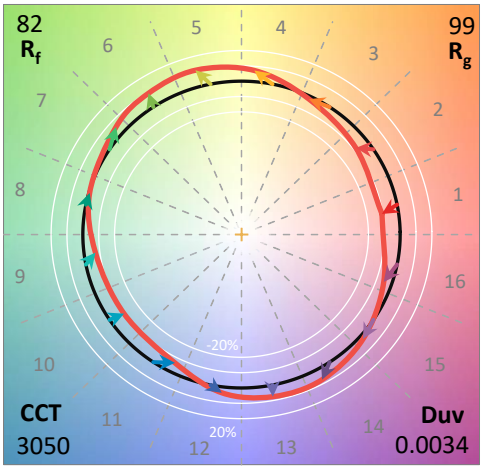
Test Information

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

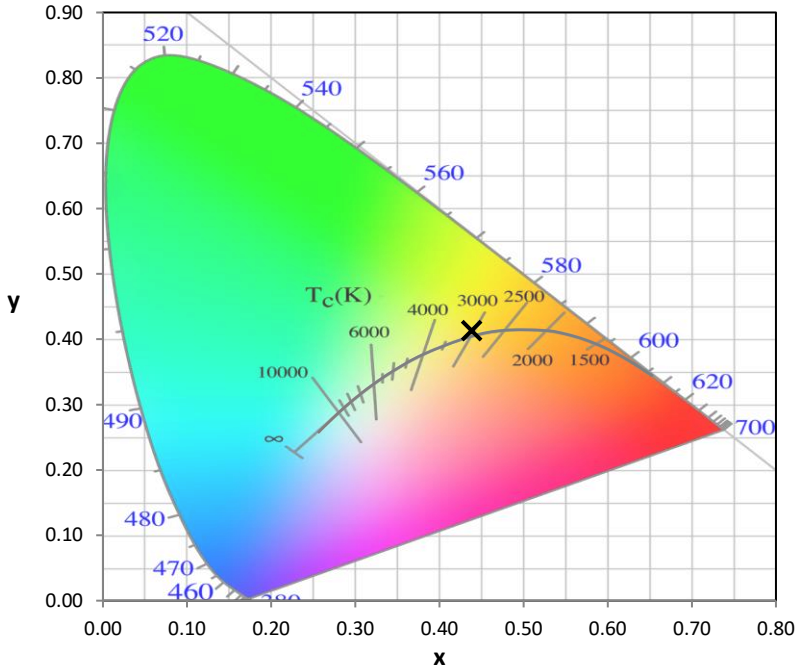
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

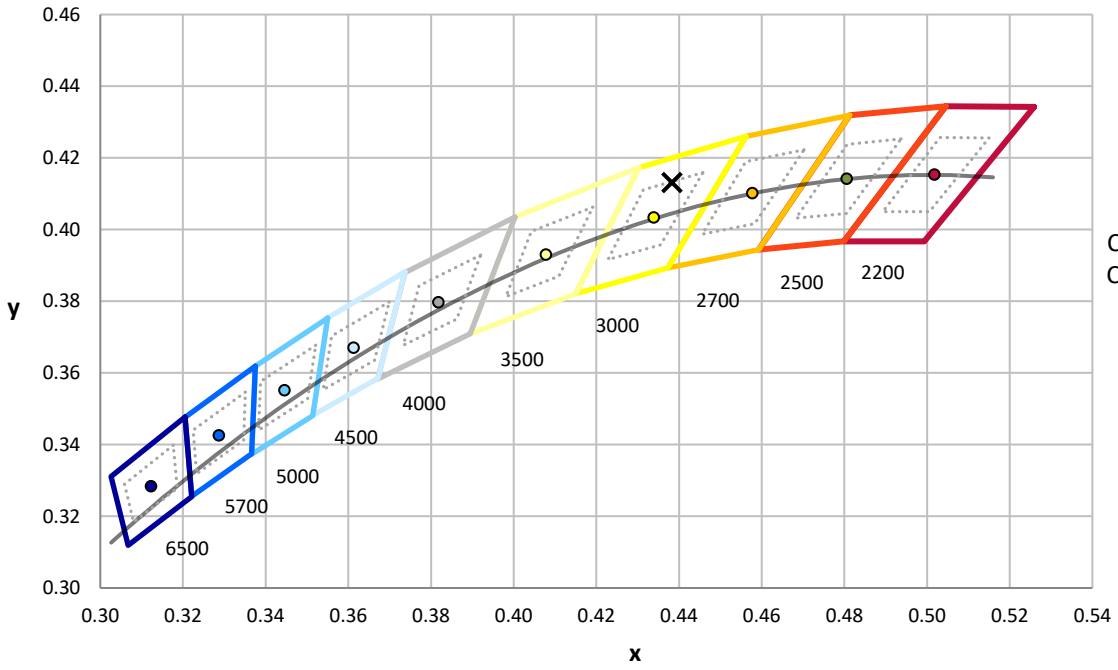
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

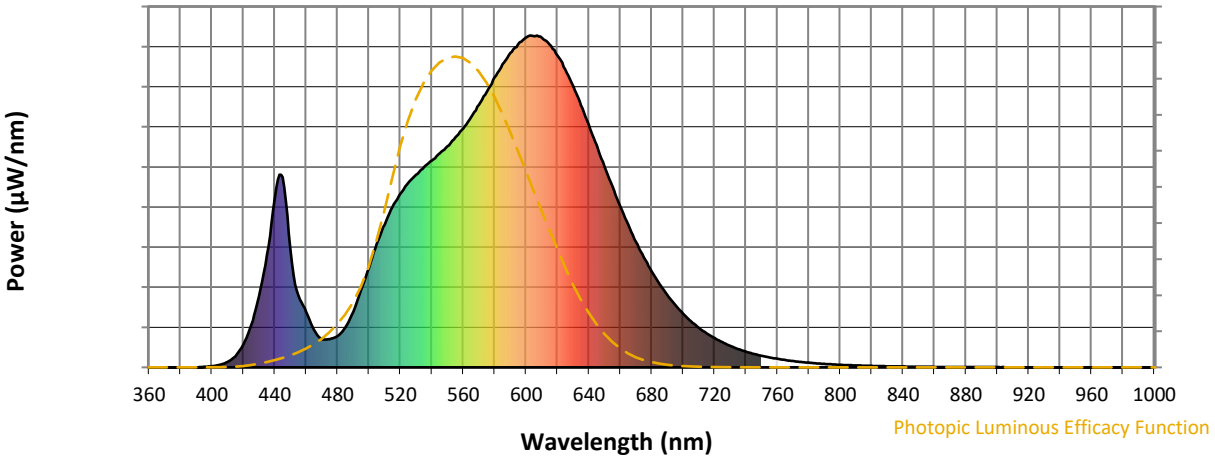


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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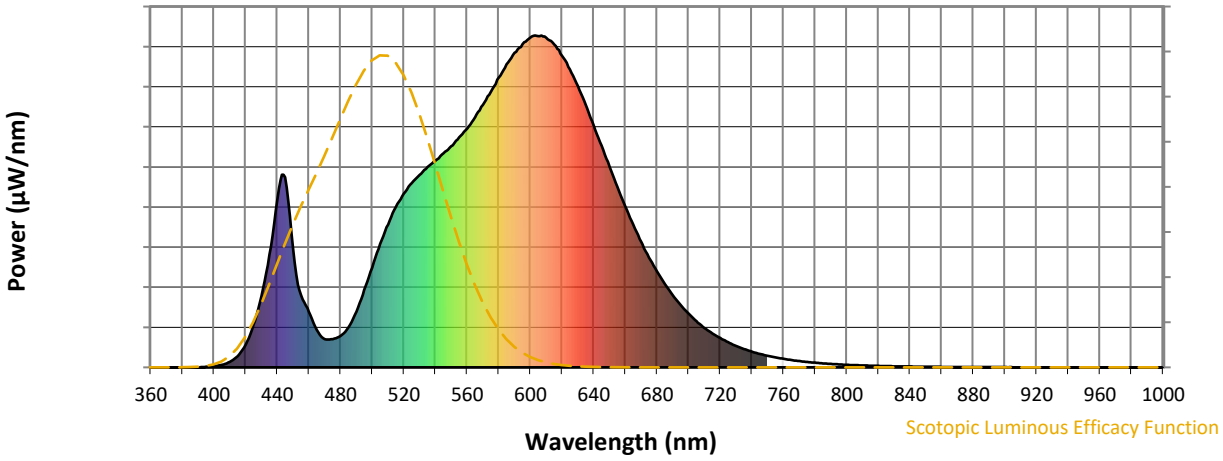
Scotopic Flux vs. Wavelength



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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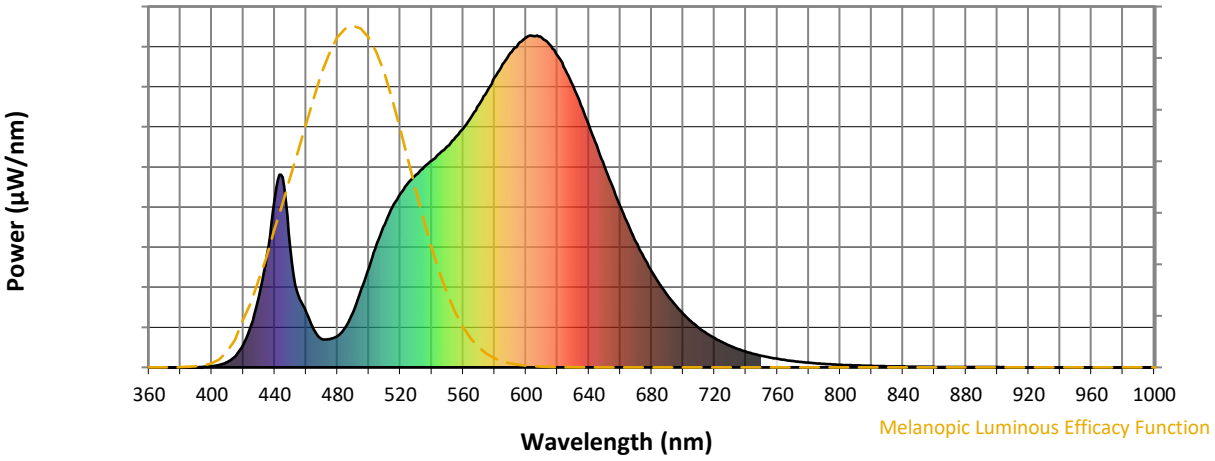
Melanopic Flux vs. Wavelength



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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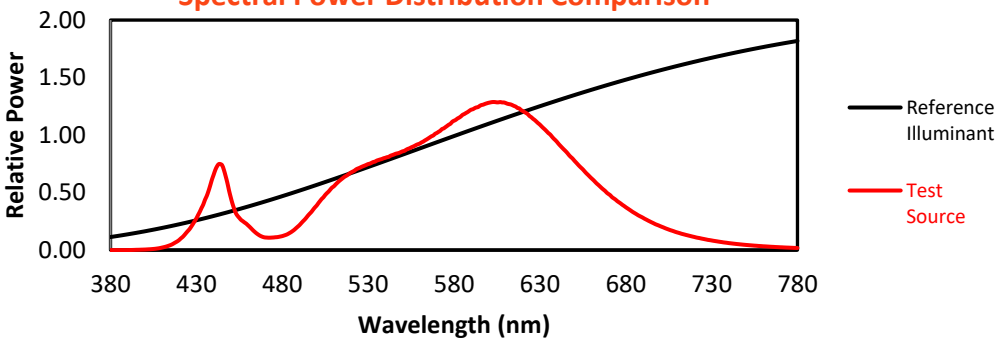
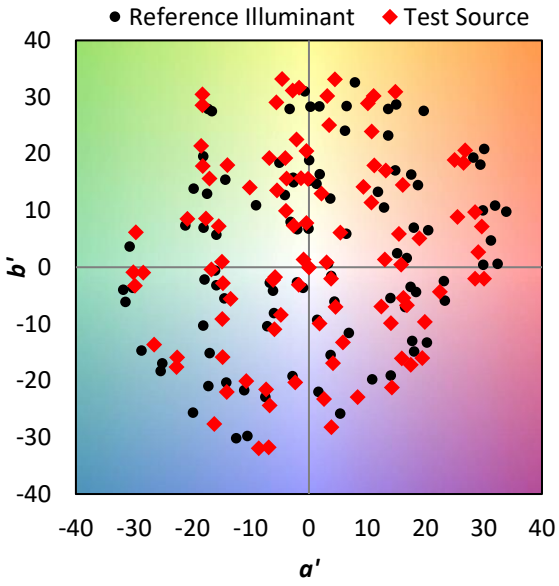
Summary

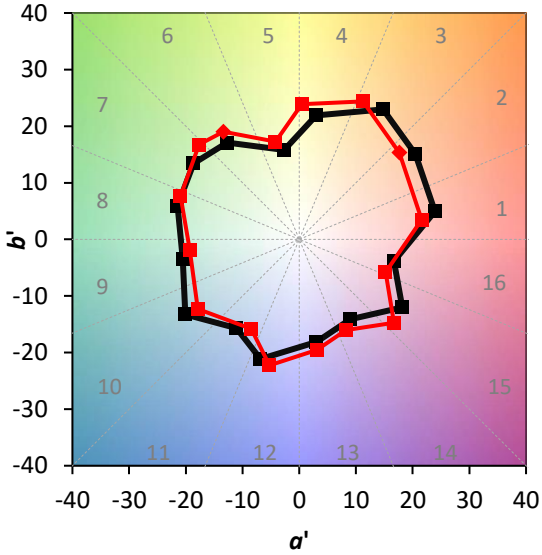
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

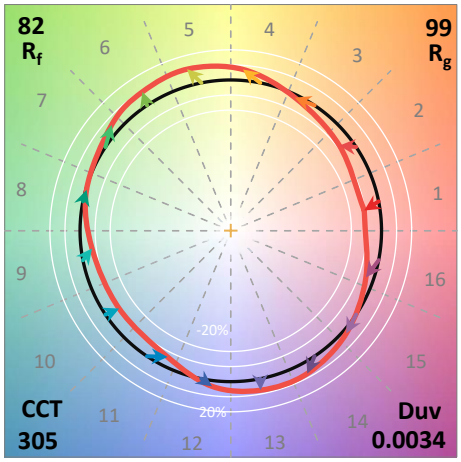
Spectral Power Distribution Comparison

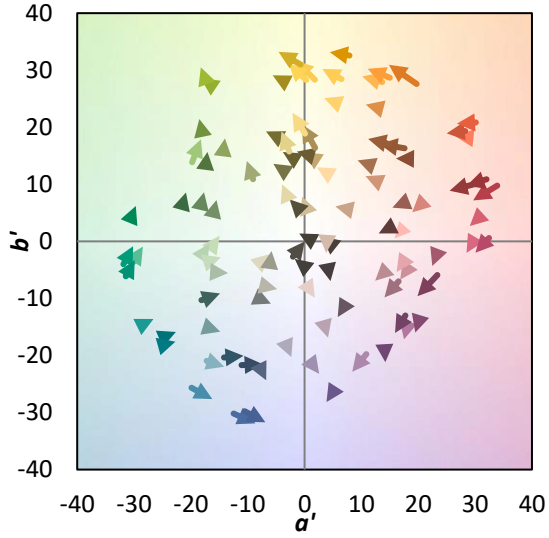


Color Vector Graphics









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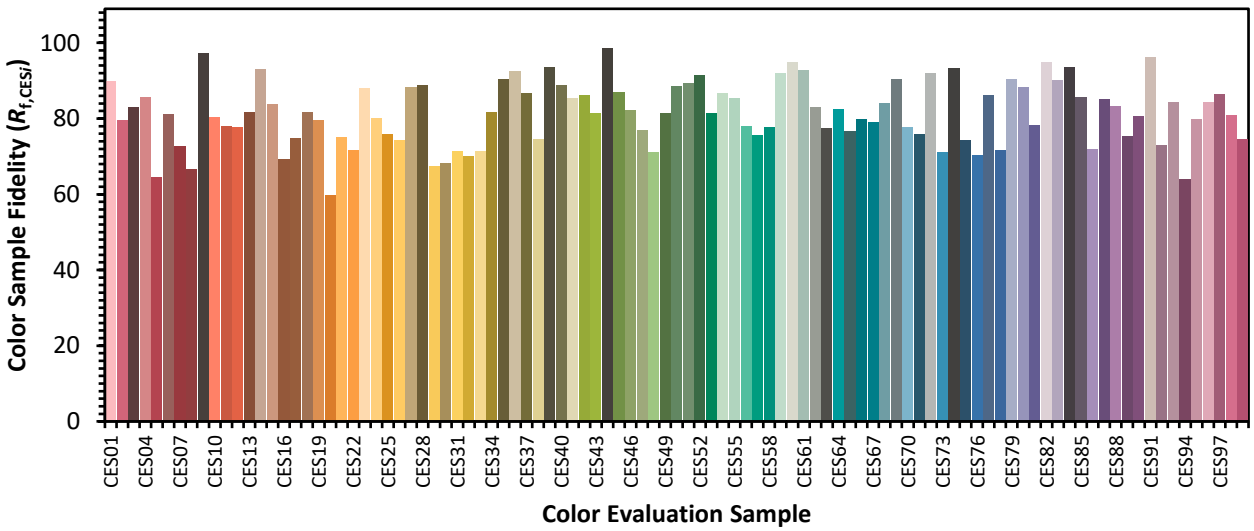
Individual Sample Fidelity Index ($R_{f,i}$)

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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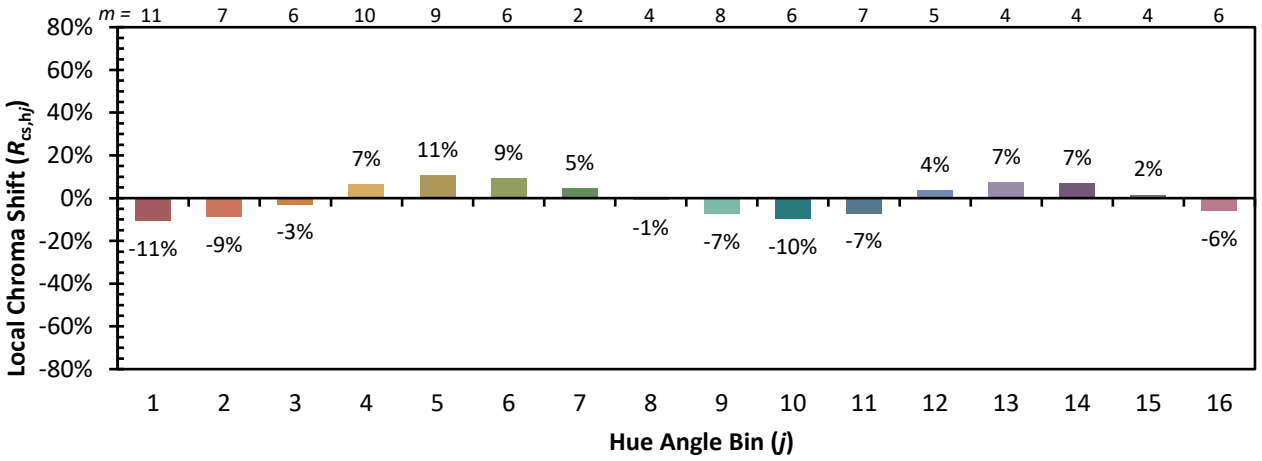
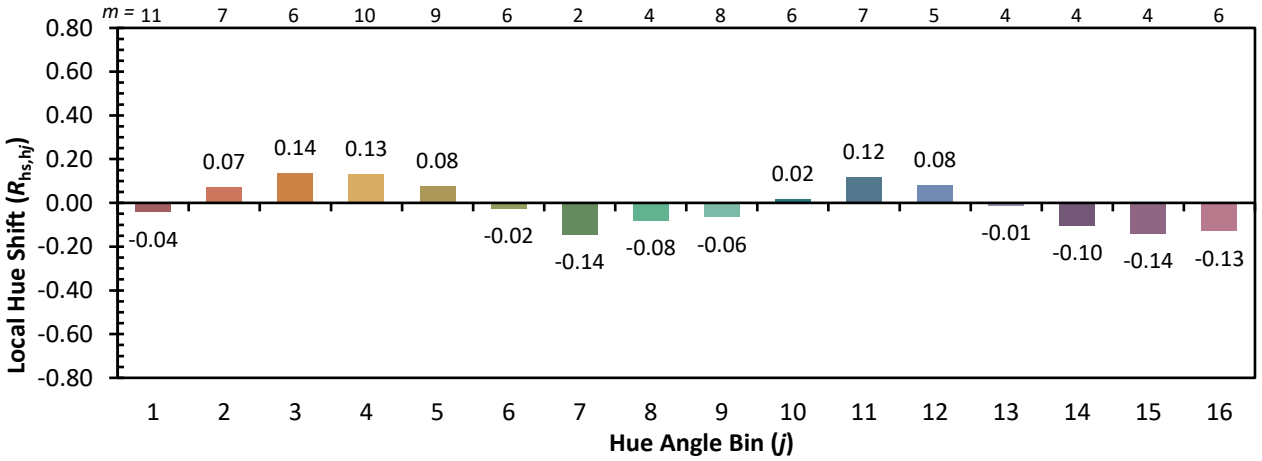
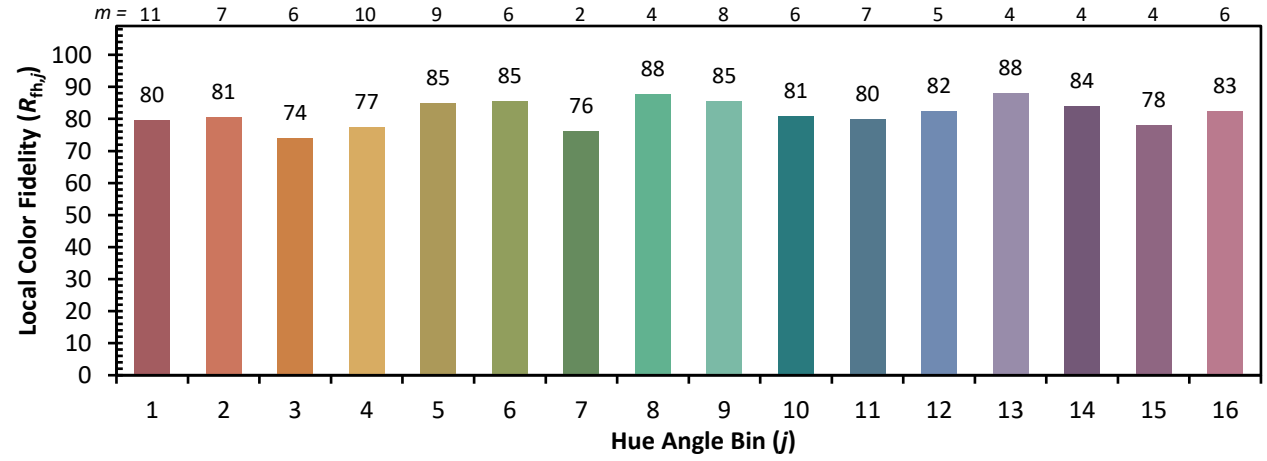
Color Rendition by Hue-Angle Bin







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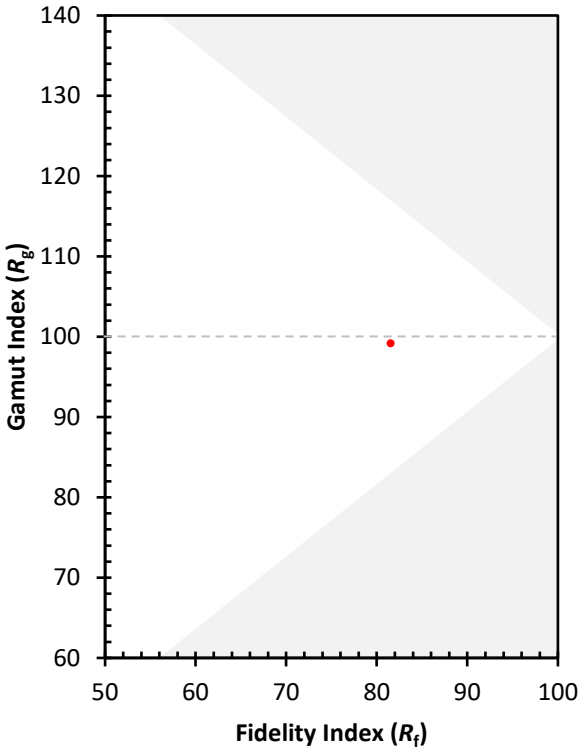
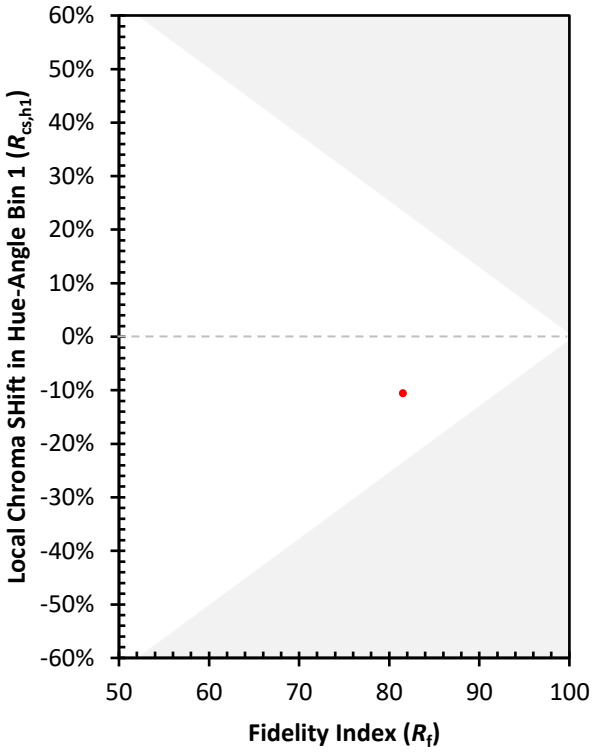
Measure Comparisons





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