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: P630577

Luminaire Tested: GWS-SA1D-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:	P630577
	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-SA1D-830-U-T3-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4111.3 lumens
Efficiency:	N/A
Efficacy:	92.8 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G1

Input Watts (W):	44.3
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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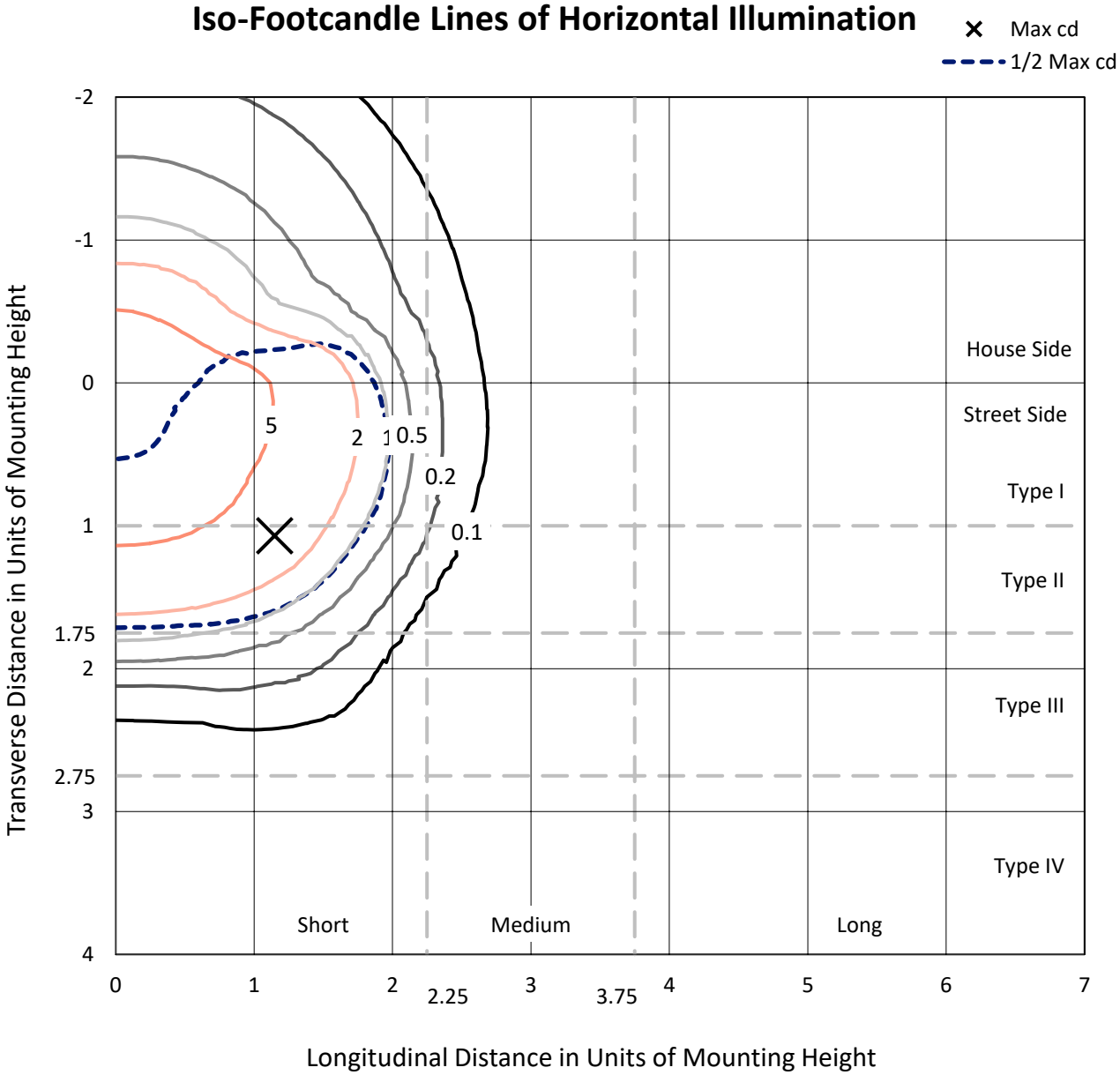
Scaled Data Report

REPORT NUMBER: P630577
CATALOG NUMBER: GWS-SA1D-830-U-T3-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 8.5 fc
Type II - Short - N/A

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REPORT NUMBER: P630577
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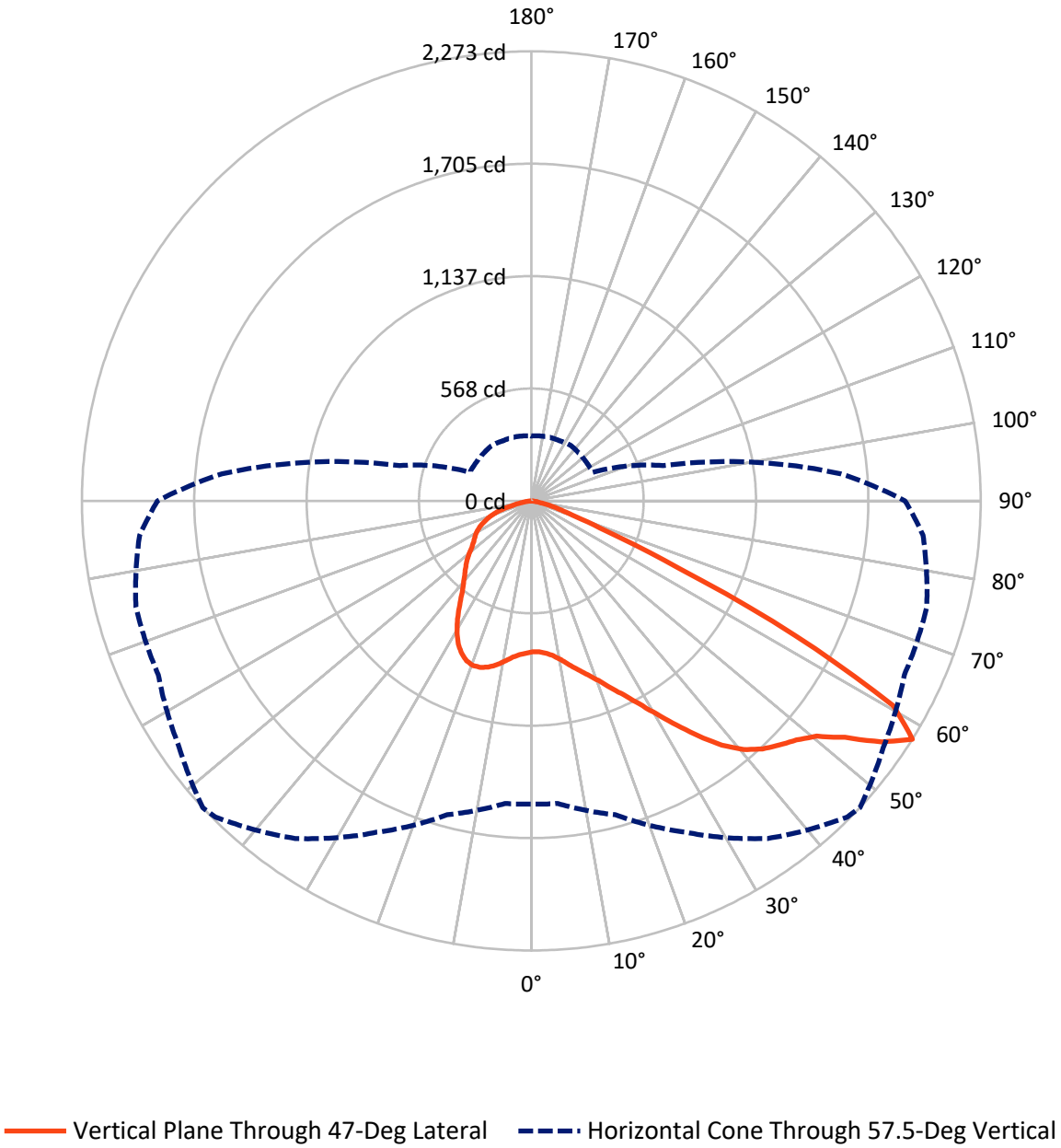
Luminous Intensity Polar Plot



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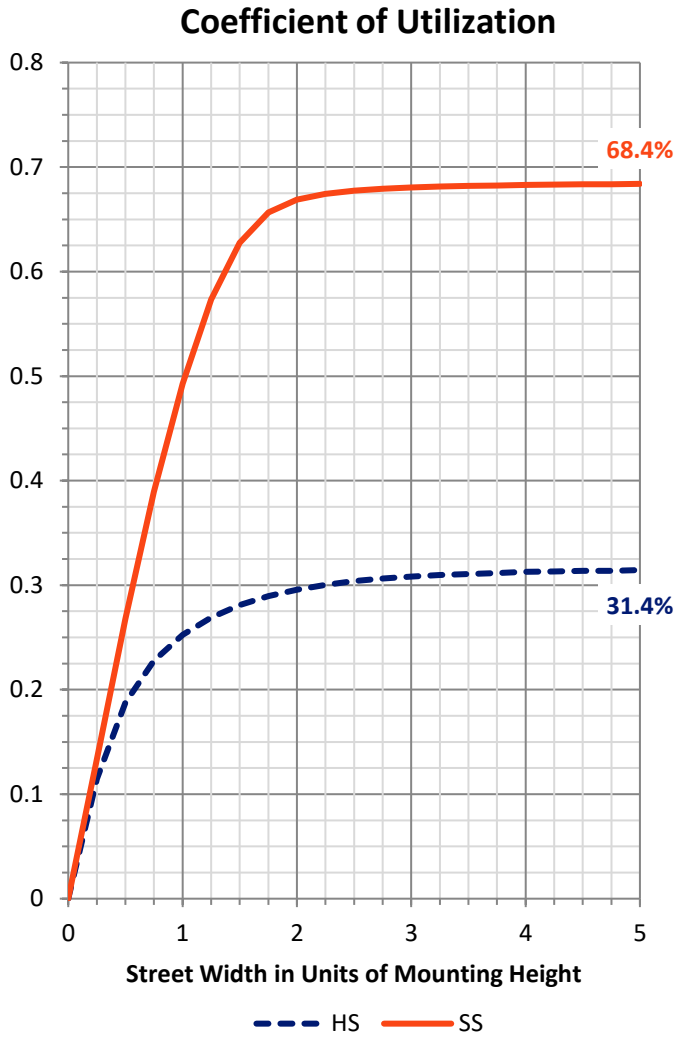
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1301.2	0.0	1301.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	2810.1	0.0	2810.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	4111.3	0.0	4111.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.2	1.8
10°-20°	247.3	6.0
20°-30°	445.4	10.8
30°-40°	672.7	16.4
40°-50°	905.8	22.0
50°-60°	1088.5	26.5
60°-70°	530.1	12.9
70°-80°	130.6	3.2
80°-90°	15.7	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°	4111.3	100.0
0°-180°	4111.3	100.0



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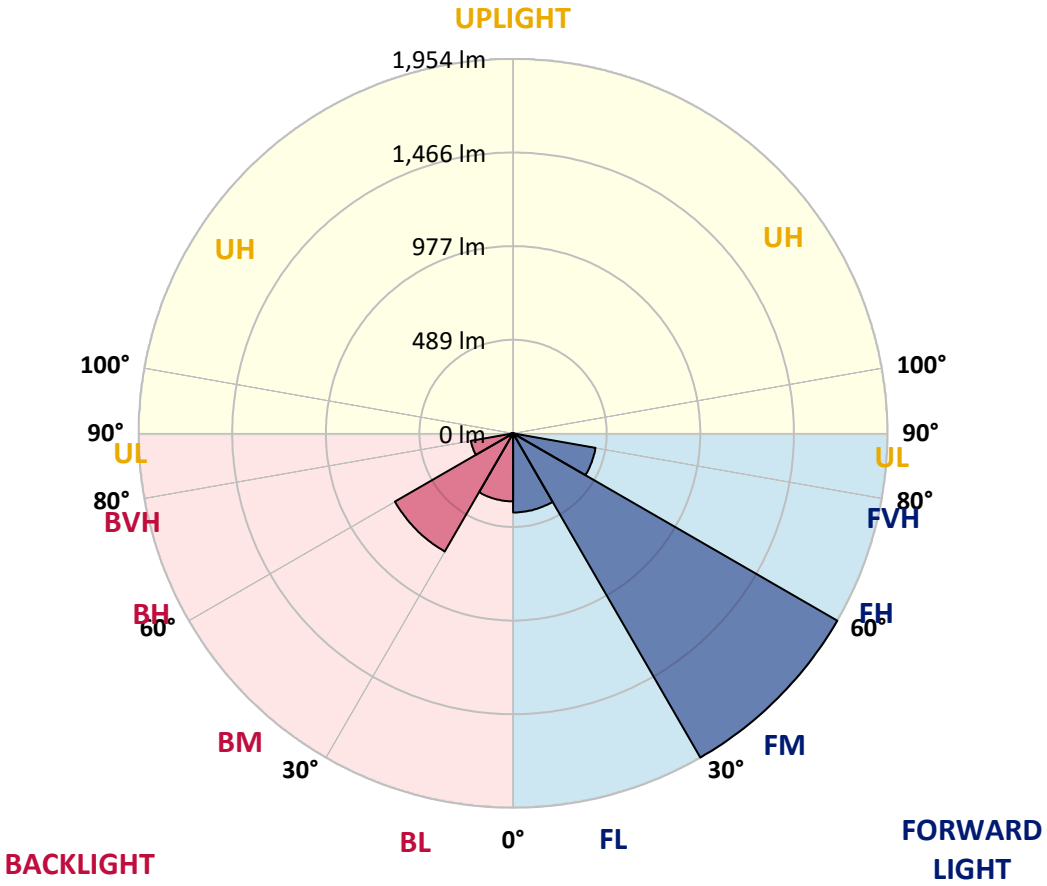
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	413.0	10.0			
FM	(30°-60°)	1954.3	47.5			
FH	(60°-80°)	436.9	10.6			G0/660
FVH	(80°-90°)	5.9	0.1			G0/10
BL	(0°-30°)	354.9	8.6	B1/500		
BM	(30°-60°)	712.7	17.3	B1/1000		
BH	(60°-80°)	223.8	5.4	B1/500		G1/500
BVH	(80°-90°)	9.8	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
Type II Short



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Scaled Data Report

REPORT NUMBER: P630577
CATALOG NUMBER: GWS-SA1D-830-U-T3-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	762.4	762.4	762.4	762.4	762.4	762.4	762.4	762.4	762.4	762.4	762.4
2.5°	761.1	760.7	760.7	762.8	762.8	763.5	764.5	765.6	765.9	764.2	760.4
5°	769.4	769.4	769.4	771.1	771.1	771.8	773.2	773.5	773.2	770.4	766.6
7.5°	782.5	782.5	782.8	784.9	786.6	787.7	790.1	789.7	788.7	784.2	779.4
10°	803.9	804.9	806.0	808.4	811.8	814.2	816.0	816.0	814.6	807.7	801.5
12.5°	834.3	835.7	836.7	838.8	841.5	845.7	849.5	849.5	847.7	839.1	829.8
15°	869.8	871.2	870.9	871.6	876.7	882.6	885.7	887.8	888.5	876.4	861.9
17.5°	910.6	912.0	910.6	908.5	909.2	918.5	924.1	931.6	936.1	919.9	896.8
20°	947.5	946.2	946.2	947.5	949.6	961.0	969.3	981.7	987.2	967.6	931.6
22.5°	986.6	989.7	988.3	988.3	996.6	1015.6	1025.6	1041.8	1047.7	1022.1	973.8
25°	1037.0	1039.7	1039.0	1039.7	1049.4	1076.3	1086.3	1116.4	1122.3	1085.7	1020.4
27.5°	1092.2	1096.7	1098.8	1098.1	1113.6	1148.8	1161.3	1203.1	1213.8	1156.8	1070.1
30°	1164.0	1168.9	1170.6	1169.9	1188.2	1236.2	1250.4	1298.0	1313.2	1241.0	1133.3
32.5°	1247.3	1252.1	1257.3	1259.3	1282.8	1331.9	1352.2	1401.6	1423.4	1338.4	1209.6
35°	1329.8	1333.9	1344.0	1360.2	1392.3	1442.4	1460.3	1509.0	1530.1	1439.6	1301.8
37.5°	1421.0	1423.7	1432.3	1454.8	1501.1	1548.7	1566.7	1613.3	1615.7	1537.3	1406.1
40°	1520.7	1520.7	1519.0	1541.1	1589.5	1637.5	1653.0	1679.9	1665.8	1612.6	1507.6
42.5°	1605.4	1604.0	1605.4	1626.1	1662.0	1701.0	1714.5	1709.3	1691.3	1670.3	1599.5
45°	1681.7	1682.7	1695.1	1711.0	1729.7	1752.8	1760.7	1731.4	1715.2	1716.5	1673.0
47.5°	1733.5	1734.5	1763.5	1790.1	1801.5	1808.7	1805.3	1764.5	1756.3	1771.8	1729.7
50°	1740.4	1745.9	1796.0	1850.5	1878.8	1879.9	1870.2	1820.5	1818.1	1835.7	1760.0
52.5°	1741.7	1747.3	1809.8	1908.2	1981.7	1997.3	1986.2	1934.4	1909.2	1891.6	1797.3
55°	1736.6	1742.8	1811.8	1946.9	2087.7	2149.9	2150.9	2077.7	1997.3	1985.5	1903.7
57.5°	1533.2	1535.6	1642.6	1848.4	2083.6	2259.7	2273.2	2173.7	2081.9	2070.8	1989.0
60°	1068.0	1077.7	1194.1	1465.8	1750.4	2060.8	2104.3	2075.3	2013.9	1933.4	1706.5
62.5°	534.9	543.2	659.9	916.8	1207.2	1452.4	1499.0	1529.7	1544.2	1457.9	1162.0
65°	230.3	236.5	309.1	478.9	683.4	801.8	818.0	855.0	945.5	843.6	626.0
67.5°	154.0	158.2	195.1	292.1	402.6	410.2	407.8	415.8	435.4	359.5	282.8
70°	118.1	121.5	146.4	214.1	289.4	247.6	234.5	212.7	231.0	235.5	229.3
72.5°	85.6	88.4	107.0	146.1	181.3	158.2	156.1	167.1	192.0	198.9	195.1
75°	55.2	56.6	68.0	80.1	93.6	101.5	105.7	125.7	150.9	156.1	151.6
77.5°	36.9	38.0	44.5	51.5	53.2	53.5	54.9	63.9	81.1	90.8	89.8
80°	19.3	19.3	21.8	21.8	24.9	29.7	31.1	36.9	44.9	49.7	50.1
82.5°	7.6	7.9	9.3	10.4	12.4	15.2	16.2	19.3	23.5	26.9	30.0
85°	3.1	3.5	3.8	4.5	5.5	6.9	7.3	8.3	11.0	13.8	15.5
87.5°	0.0	0.0	0.3	0.3	0.7	1.0	1.0	1.4	1.7	3.1	4.1
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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REPORT NUMBER: P630577
CATALOG NUMBER: GWS-SA1D-830-U-T3-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	762.4	762.4	762.4	762.4	762.4	762.4	762.4	762.4	762.4	762.4	762.4
2.5°	764.9	760.4	764.9	766.2	770.0	771.4	769.0	768.7	768.7	765.2	764.2
5°	770.0	765.9	770.4	772.5	778.0	781.4	782.1	784.9	786.6	785.2	784.9
7.5°	782.8	777.6	782.5	785.6	792.8	798.4	800.8	807.0	811.5	810.8	810.4
10°	805.3	798.4	803.9	809.1	817.0	823.6	823.9	827.4	831.9	830.5	829.8
12.5°	831.2	824.6	830.8	836.0	845.3	848.1	843.6	842.2	842.9	841.2	839.8
15°	862.9	853.6	859.1	865.0	870.2	867.1	857.4	853.6	853.3	850.8	849.5
17.5°	894.7	883.0	887.1	890.2	887.8	878.1	866.0	859.5	856.4	851.5	850.2
20°	926.1	911.3	910.6	908.2	897.1	879.5	863.3	850.2	842.2	835.7	833.2
22.5°	962.0	941.3	931.0	919.9	895.7	867.1	842.6	823.9	811.1	802.8	800.1
25°	1000.7	971.4	950.0	927.9	881.9	840.5	806.3	780.7	765.6	756.6	753.5
27.5°	1039.0	998.6	966.5	928.9	854.3	802.2	756.2	721.7	706.5	699.3	696.8
30°	1090.8	1034.9	986.2	915.4	818.0	749.0	691.7	656.8	646.8	641.6	639.5
32.5°	1150.6	1080.8	1012.5	887.1	771.8	686.8	626.4	602.2	595.3	585.3	585.0
35°	1229.3	1146.4	1037.3	845.3	713.4	620.2	576.3	559.1	546.6	530.7	529.4
37.5°	1321.2	1228.3	1050.8	792.1	645.4	565.3	539.0	519.7	499.7	478.6	475.8
40°	1416.1	1323.9	1051.8	729.3	578.7	529.0	506.9	481.7	456.8	433.4	430.3
42.5°	1515.9	1413.0	1033.5	656.8	524.2	497.6	475.1	443.4	415.4	399.5	397.8
45°	1605.0	1484.8	992.1	580.5	483.8	471.3	442.7	408.5	393.7	382.3	379.8
47.5°	1675.1	1532.5	936.1	512.1	451.0	444.4	407.1	389.5	378.1	367.8	365.3
50°	1709.6	1543.2	863.3	456.5	420.6	412.6	387.1	373.6	366.0	357.7	355.7
52.5°	1752.5	1555.3	800.4	409.9	390.9	380.2	370.5	359.8	354.3	349.1	347.4
55°	1850.9	1600.9	767.3	372.6	362.6	357.7	356.4	347.4	345.7	342.2	339.1
57.5°	*1890.9*	*1571.5*	*688.9*	*342.2*	*340.1*	*340.8*	*344.3*	*336.0*	*334.3*	*330.1*	*328.0*
60°	1520.7	1187.9	466.5	316.0	321.5	326.0	329.4	321.1	318.7	318.0	315.3
62.5°	974.5	730.7	325.6	291.4	299.7	305.3	307.3	299.4	297.7	303.2	303.5
65°	507.3	398.1	264.2	265.2	272.1	280.4	284.5	281.8	281.1	287.0	287.3
67.5°	259.0	243.4	230.3	234.1	239.6	250.4	260.0	272.1	276.2	276.9	277.3
70°	220.7	213.7	207.2	209.6	215.5	221.3	230.7	236.5	229.6	227.9	227.2
72.5°	187.8	182.7	179.6	182.3	185.4	184.4	181.6	184.4	185.4	185.8	186.1
75°	146.1	142.3	139.9	140.2	140.2	136.4	131.2	128.1	124.7	121.9	121.9
77.5°	89.4	90.1	92.5	92.2	91.9	90.5	85.3	82.5	74.2	71.8	71.8
80°	51.1	52.1	54.6	55.2	55.2	53.5	48.3	45.2	41.4	39.7	39.4
82.5°	31.1	32.5	33.8	34.5	34.9	32.8	28.3	25.9	23.8	22.1	22.1
85°	16.2	16.9	18.3	18.6	17.6	15.5	13.1	12.1	10.0	9.7	9.7
87.5°	4.5	4.8	5.5	4.5	4.1	3.1	1.7	1.4	0.7	0.3	0.3
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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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

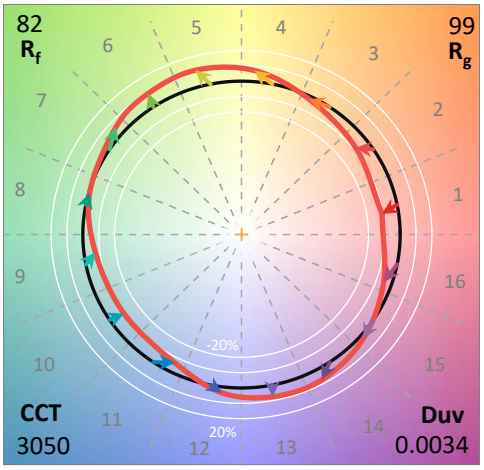
Test Information

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

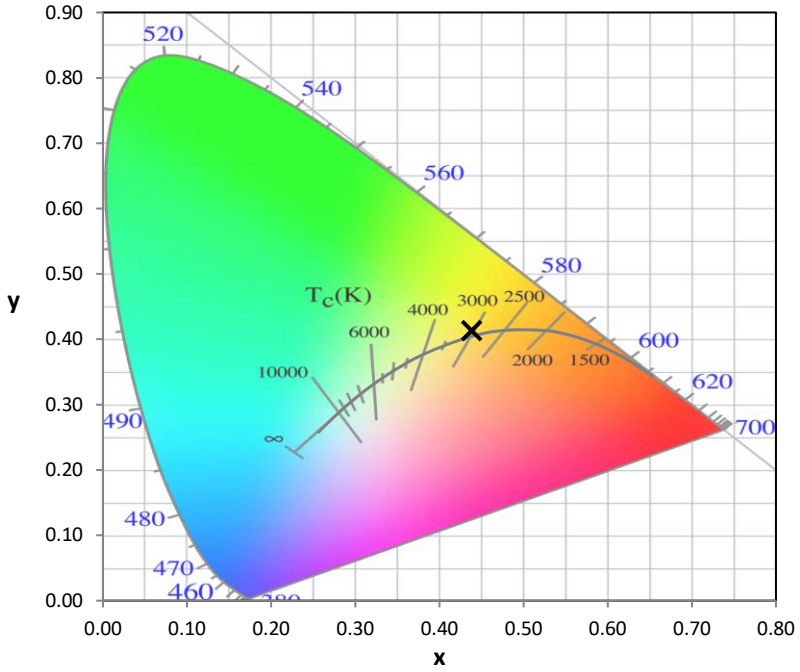
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

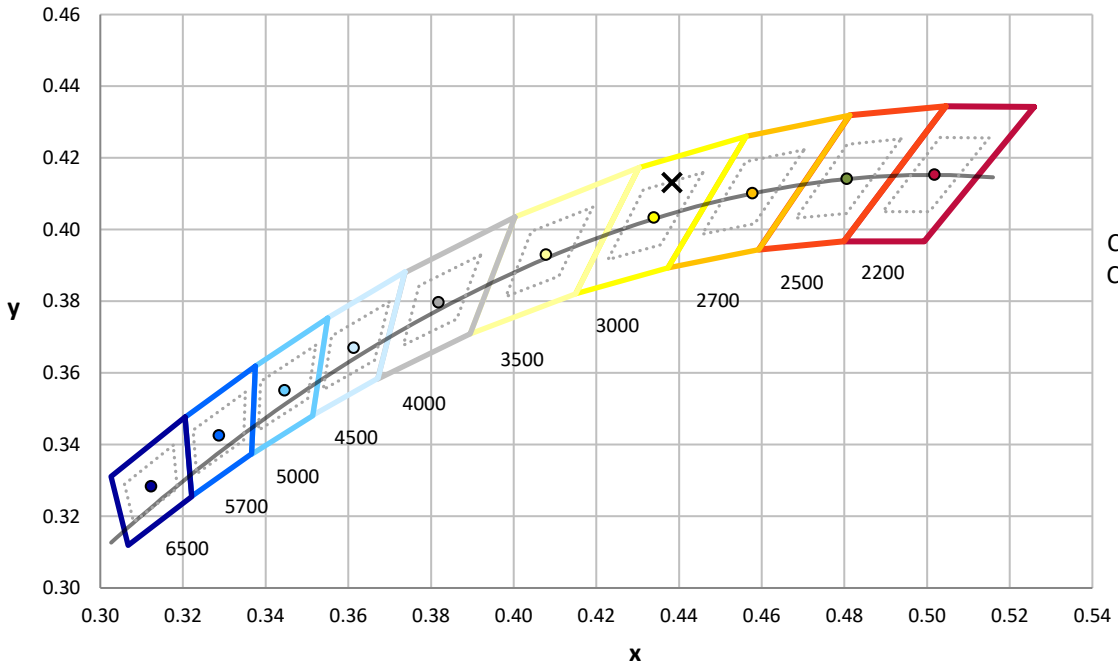
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

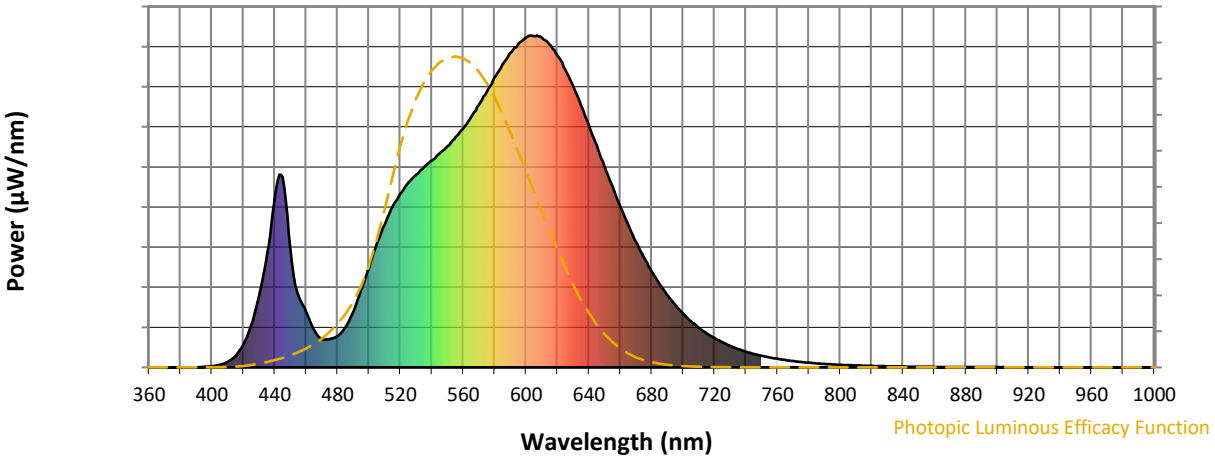


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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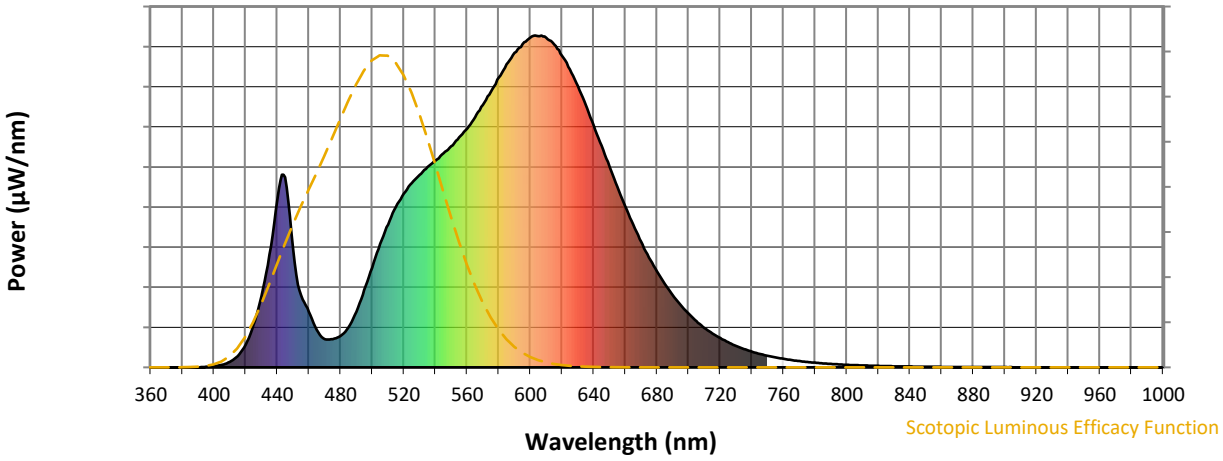
Scotopic Flux vs. Wavelength



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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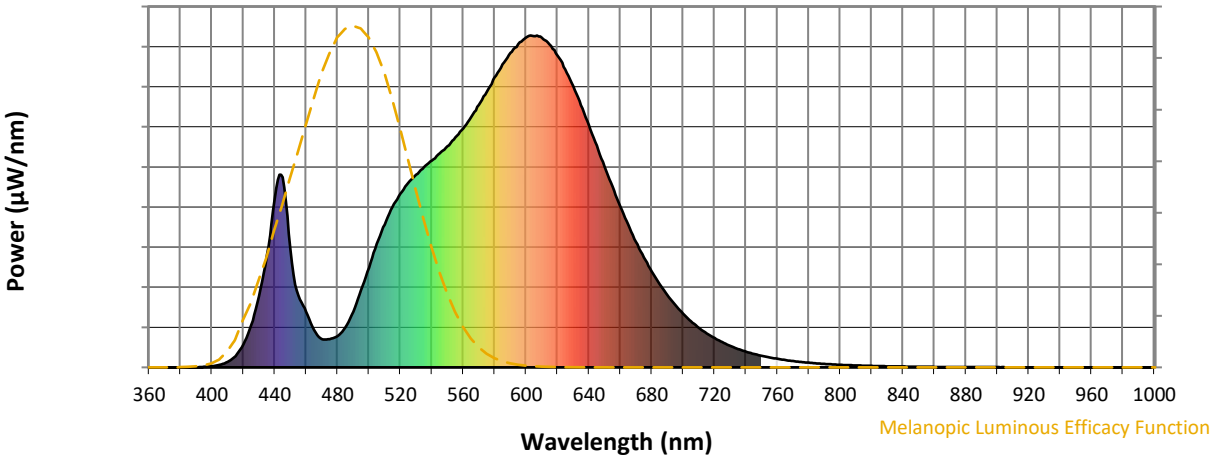
Melanopic Flux vs. Wavelength



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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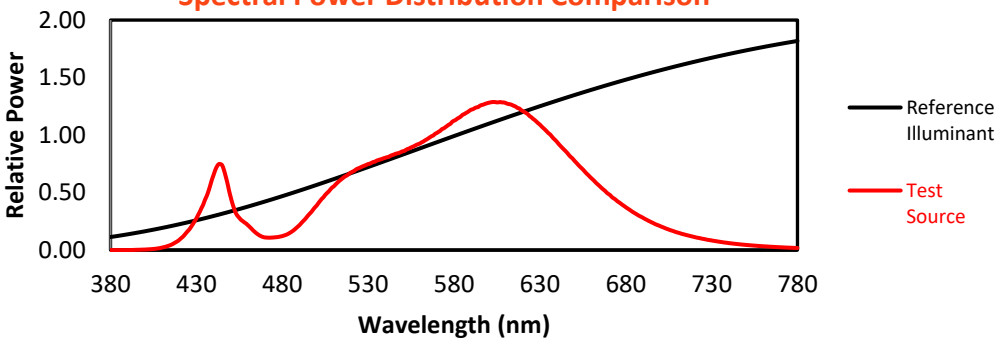
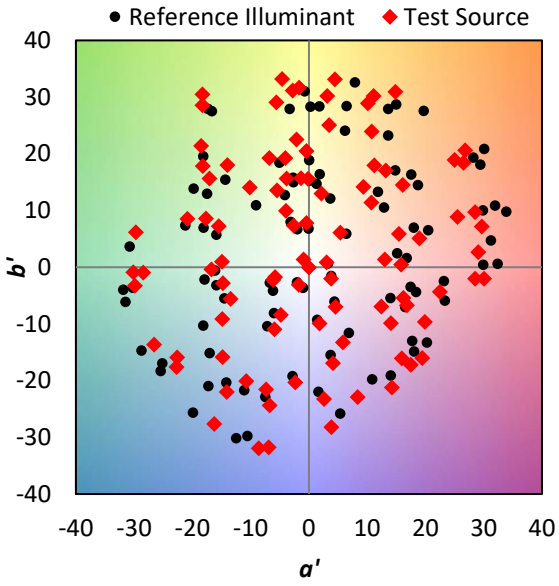
Summary

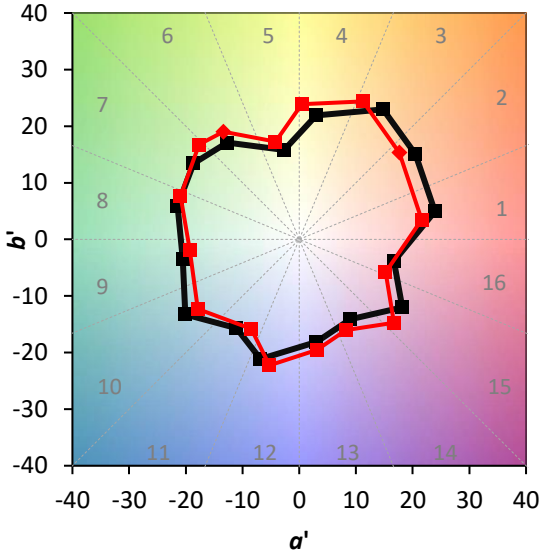
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

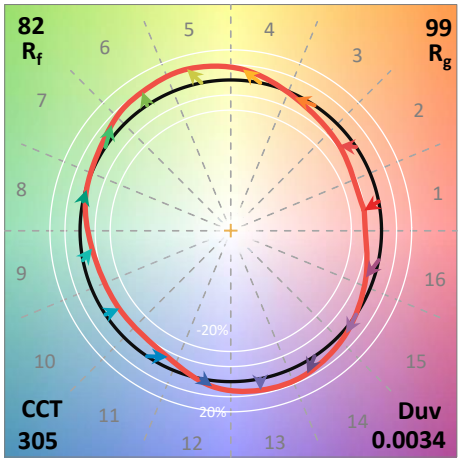
Spectral Power Distribution Comparison

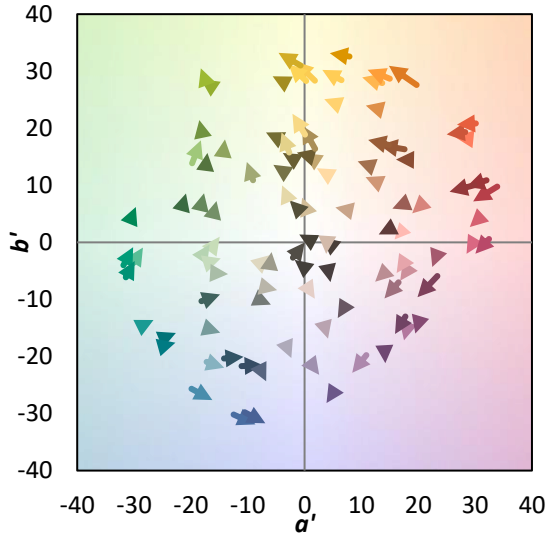


Color Vector Graphics









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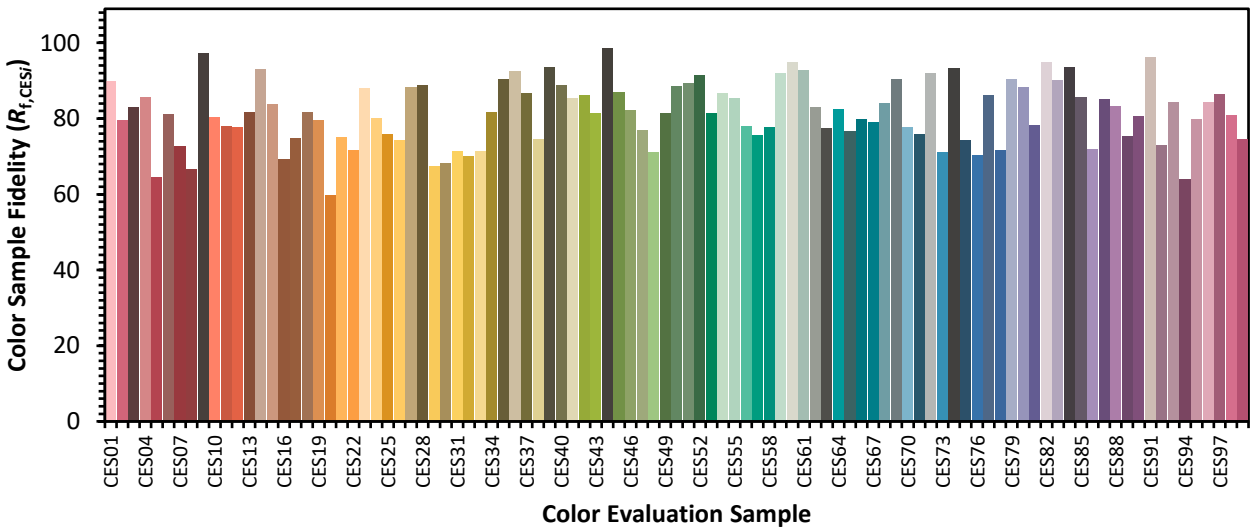
Individual Sample Fidelity Index ($R_{f,i}$)

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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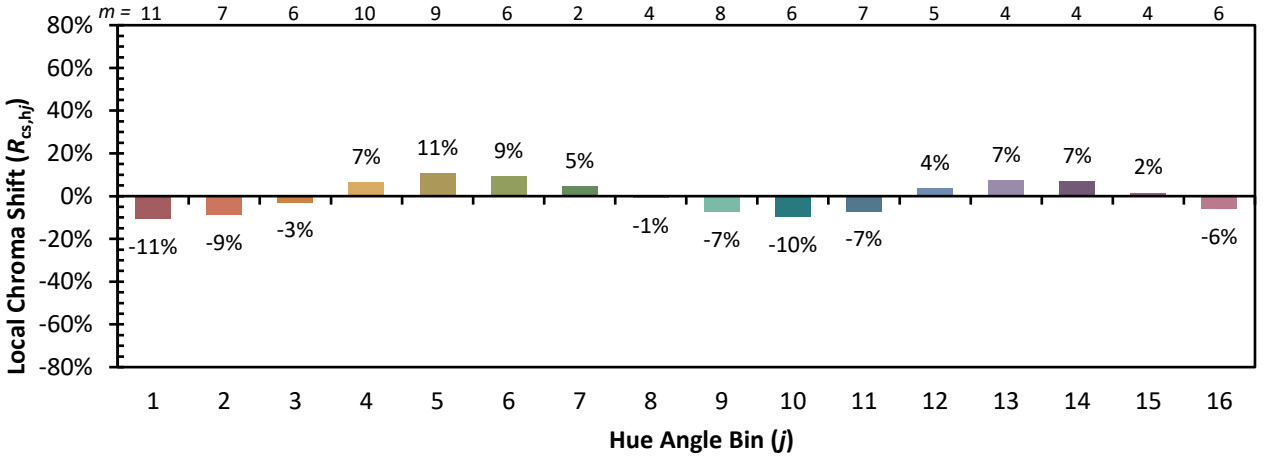
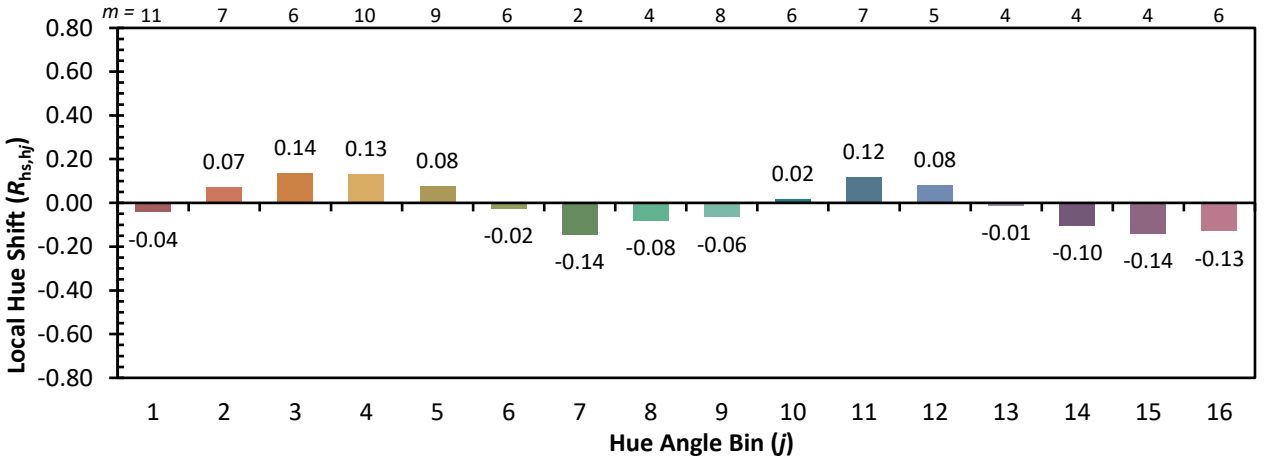
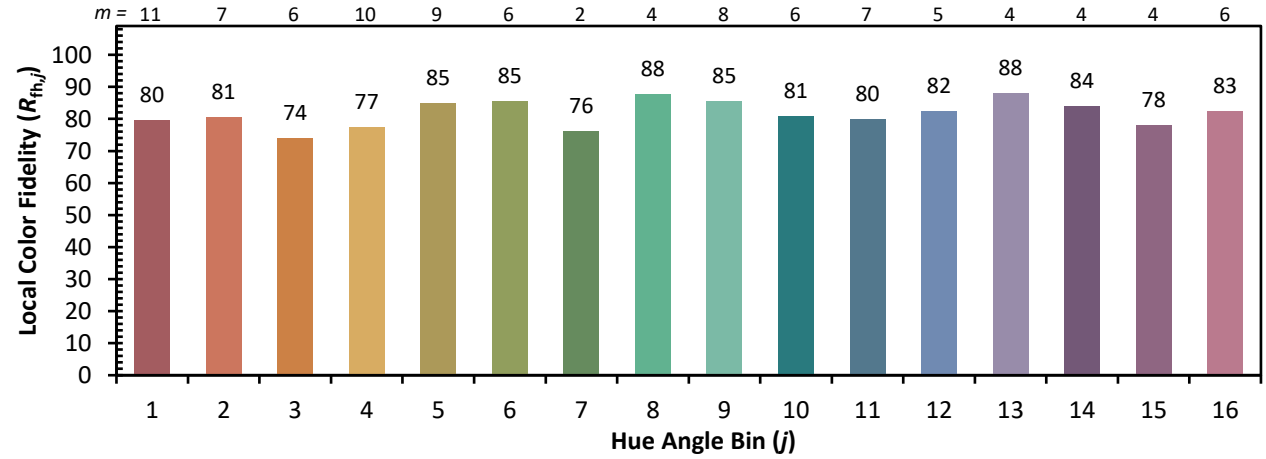
Color Rendition by Hue-Angle Bin







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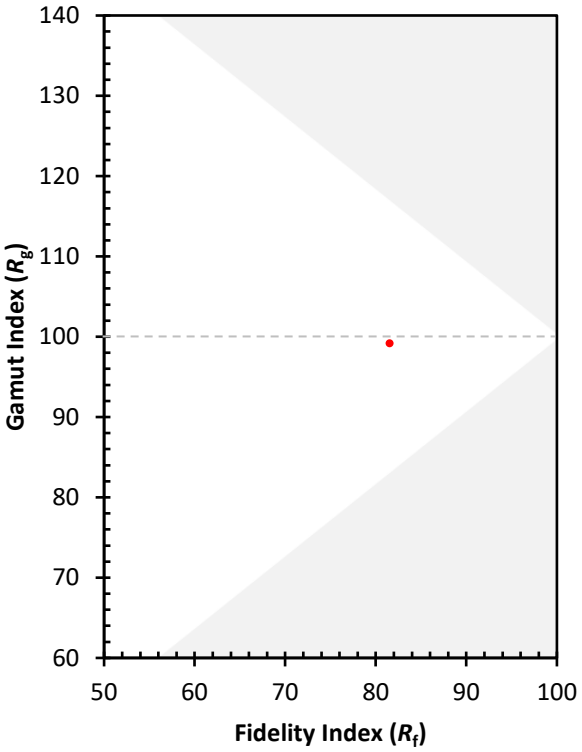
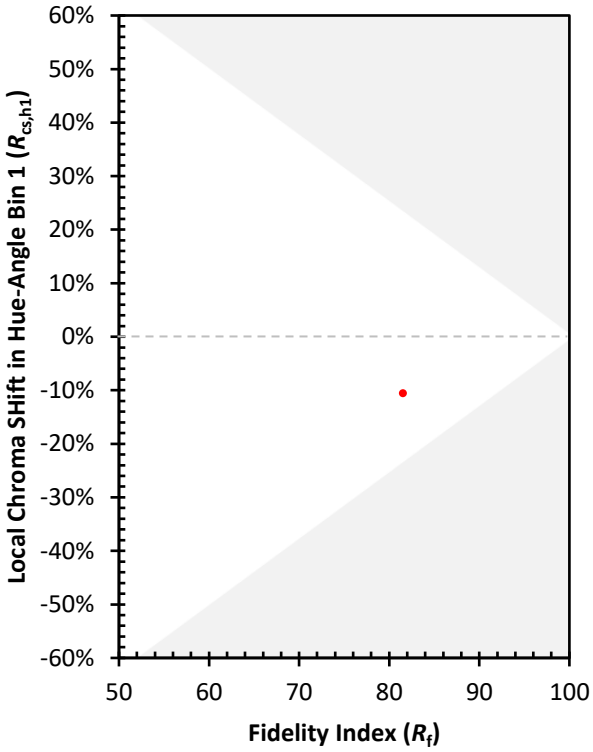
Measure Comparisons





(END OF REPORT)