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: P637015

Luminaire Tested: GWS-SA4B-830-U-T3R-W-GRSBK

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:	P637015
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA4B-830-U-T3R-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(64) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7211.6 lumens
Efficiency:	N/A
Efficacy:	76.4 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G0

Input Watts (W):	94.4
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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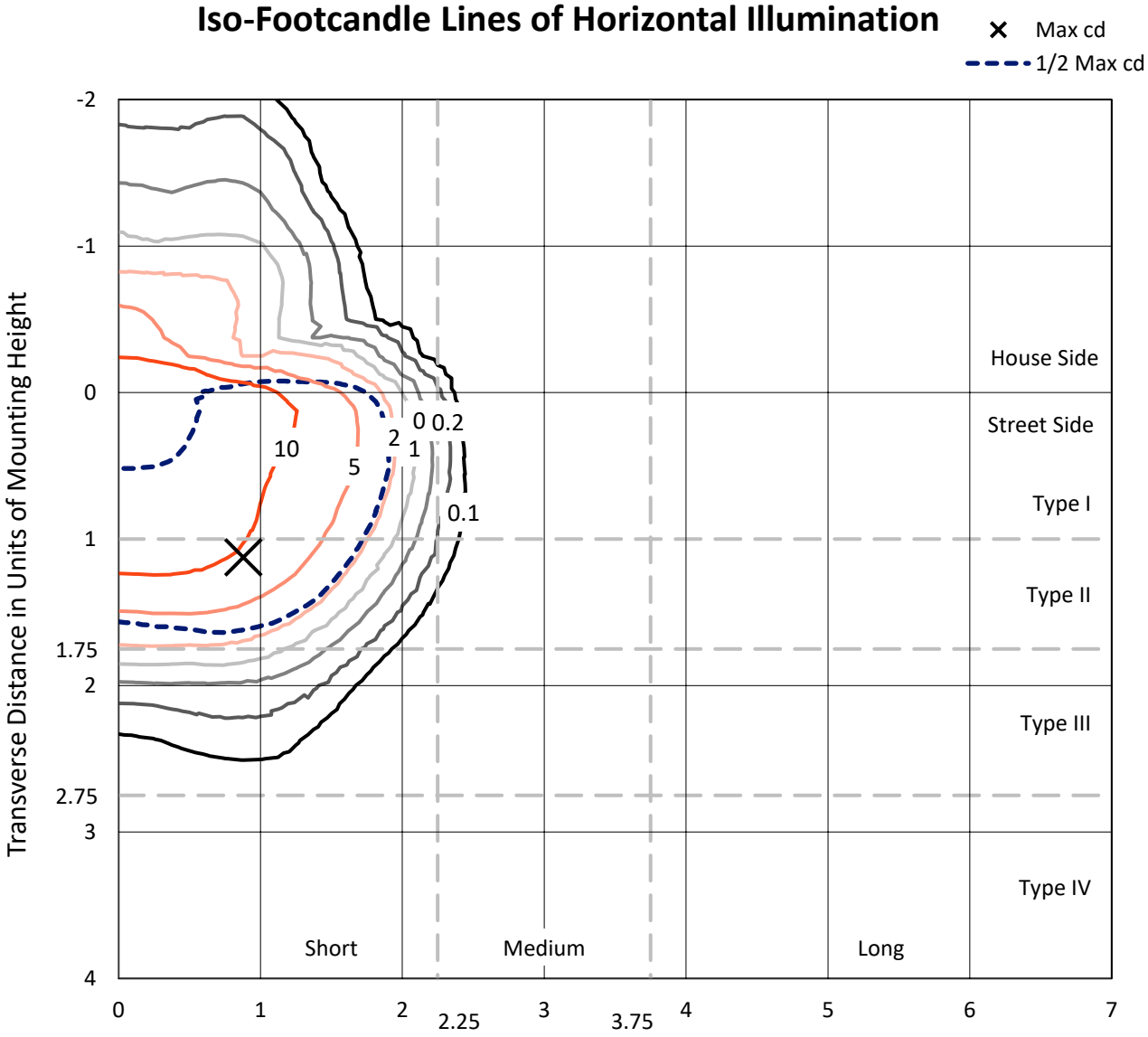
Scaled Data Report

REPORT NUMBER: P637015
CATALOG NUMBER: GWS-SA4B-830-U-T3R-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 18.1 fc
Type II - Short - N/A

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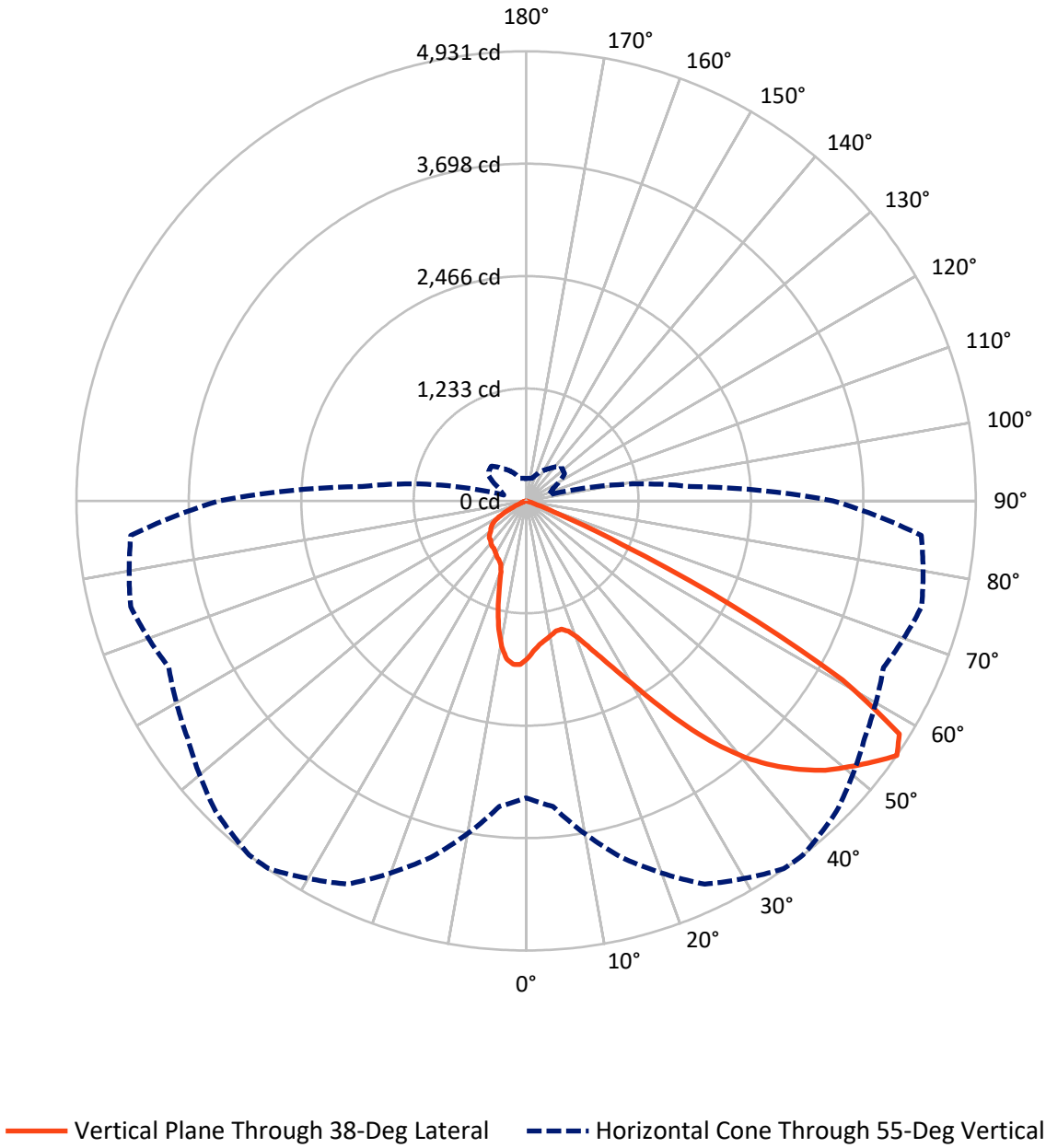
Luminous Intensity Polar Plot



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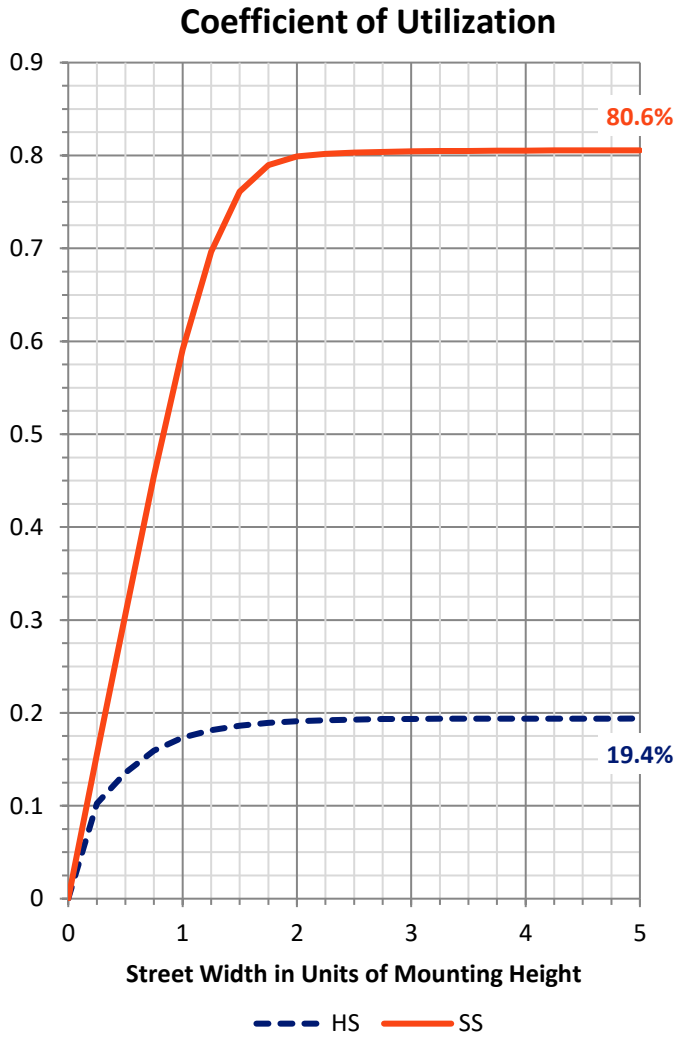
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1405.0	0.0	1405.0
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	5806.5	0.0	5806.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	7211.6	0.0	7211.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.9	2.2
10°-20°	430.5	6.0
20°-30°	738.7	10.2
30°-40°	1225.2	17.0
40°-50°	1801.2	25.0
50°-60°	2104.7	29.2
60°-70°	713.4	9.9
70°-80°	36.5	0.5
80°-90°	1.4	0.0
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°	7211.6	100.0
0°-180°	7211.6	100.0



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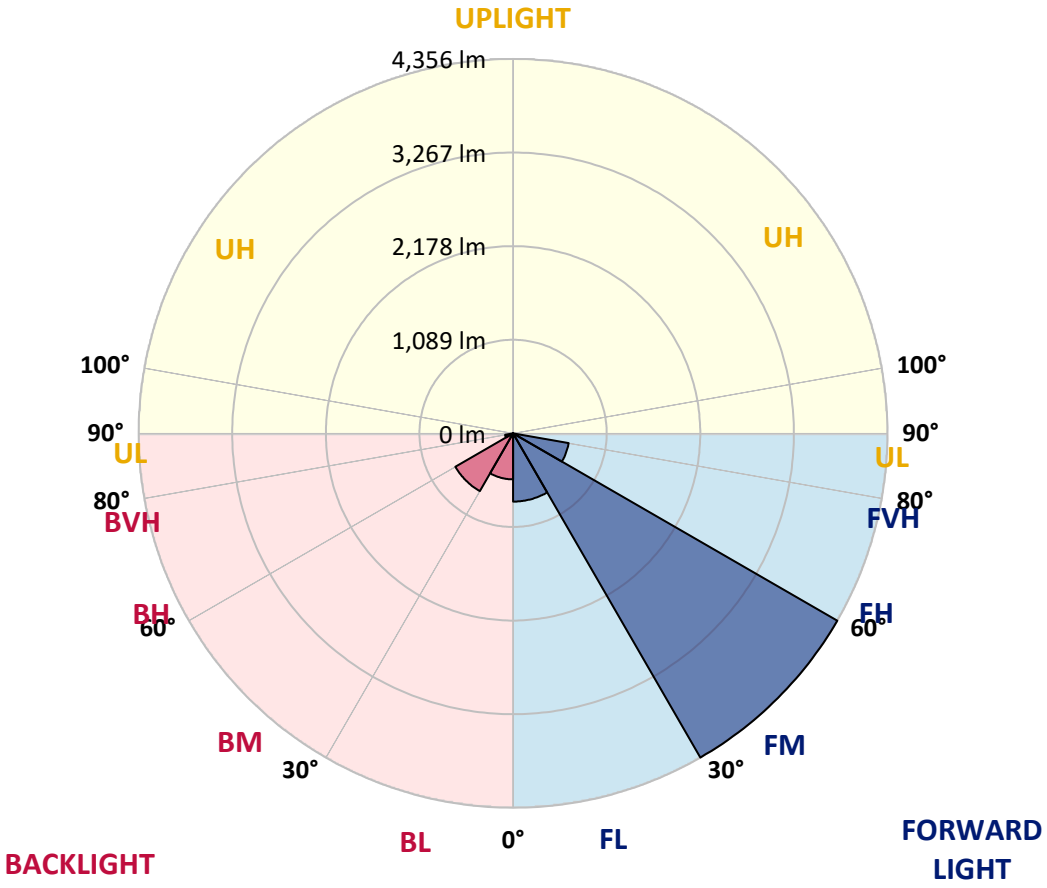
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	793.8	11.0			
FM	(30°-60°)	4355.6	60.4			
FH	(60°-80°)	656.4	9.1			G0/660
FVH	(80°-90°)	0.8	0.0			G0/10
BL	(0°-30°)	535.3	7.4	B2/1000		
BM	(30°-60°)	775.5	10.8	B1/1000		
BH	(60°-80°)	93.5	1.3	B0/110		G0/110
BVH	(80°-90°)	0.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0
Type II Short



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Scaled Data Report

REPORT NUMBER: P637015
CATALOG NUMBER: GWS-SA4B-830-U-T3R-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1729.4	1729.4	1729.4	1729.4	1729.4	*1729.4*	1729.4	1729.4	1729.4	1729.4	1729.4
2.5°	1610.7	1607.4	1614.0	1627.2	1639.5	*1643.7*	1656.0	1673.3	1684.1	1709.6	1730.2
5°	1538.2	1536.5	1543.1	1554.6	1571.1	*1576.9*	1595.9	1624.7	1653.6	1698.1	1741.8
7.5°	1472.2	1471.4	1481.3	1506.8	1530.7	*1538.2*	1561.2	1596.7	1635.4	1703.8	1768.1
10°	1385.7	1386.5	1405.4	1441.7	1485.4	*1500.2*	1537.3	1588.4	1638.7	1726.9	1815.9
12.5°	1357.6	1359.3	1369.2	1397.2	1445.0	*1464.0*	1515.9	1593.4	1657.7	1759.9	1877.8
15°	1426.1	1426.1	1417.8	1421.1	1442.5	*1459.8*	1514.3	1609.9	1689.8	1799.5	1938.8
17.5°	1558.8	1553.8	1533.2	1505.2	1497.8	*1503.5*	1547.2	1645.3	1735.2	1845.6	2008.0
20°	1738.5	1740.1	1699.7	1641.2	1594.2	*1593.4*	1619.8	1708.0	1800.3	1900.9	2083.0
22.5°	1956.1	1949.5	1895.9	1815.9	1734.3	*1727.7*	1738.5	1803.6	1894.3	1988.2	2175.3
25°	2208.3	2205.0	2129.2	2022.0	1914.0	*1898.4*	1898.4	1962.7	2028.6	2112.7	2285.8
27.5°	2472.1	2472.1	2398.7	2275.1	2131.7	*2103.6*	2099.5	2175.3	2219.0	2235.5	2379.0
30°	2743.3	2740.0	2667.5	2540.5	2387.2	*2358.3*	2346.8	2402.9	2434.2	2384.7	2495.2
32.5°	3018.6	3024.4	2951.0	2833.1	2696.3	*2677.4*	2641.9	2641.9	2667.5	2598.2	2678.2
35°	3314.5	3312.9	3255.2	3175.2	3058.2	*3036.7*	2978.2	2886.7	2925.5	2895.0	2931.2
37.5°	3575.8	3588.2	3560.2	3500.8	3406.0	*3384.6*	3288.2	3122.5	3152.2	3200.0	3232.1
40°	3841.3	3851.2	3879.2	3860.2	3740.7	*3701.1*	3529.7	3257.7	3290.6	3454.7	3547.0
42.5°	4101.8	4106.7	4163.6	4194.9	4035.0	*3965.7*	3712.7	3340.1	3374.7	3654.2	3815.7
45°	4267.4	4278.2	4372.1	4467.7	4294.6	*4199.8*	3871.8	3445.6	3460.4	3792.6	4014.4
47.5°	4260.8	4285.6	4462.0	4635.9	4518.0	*4415.8*	4063.0	3614.6	3589.9	3922.9	4145.4
50°	4128.1	4157.8	4410.9	4687.0	4678.8	*4584.0*	4275.7	3859.4	3781.9	4038.3	4161.9
52.5°	3852.8	3938.5	4321.0	4693.6	4808.2	*4760.4*	4538.6	4189.1	4041.6	4204.0	4188.3
55°	*3257.7*	*3363.2*	*4048.2*	*4637.6*	*4925.2*	*4931.0*	*4814.8*	*4532.9*	*4323.5*	*4489.2*	*4350.7*
57.5°	2472.9	2557.0	3115.9	4128.1	4731.5	*4826.3*	4921.9	4714.2	4497.4	4683.7	4388.6
60°	1490.3	1587.6	1951.1	3029.3	3821.5	*3983.1*	4358.1	4317.7	4056.4	4136.4	3598.9
62.5°	604.2	655.3	901.0	1669.2	2405.3	*2556.2*	2915.6	2976.6	2912.3	2830.7	2182.8
65°	220.9	241.5	361.0	689.9	1106.2	*1161.4*	1351.0	1459.0	1548.0	1318.1	811.9
67.5°	136.8	150.0	234.9	354.5	402.3	*374.2*	380.8	454.2	433.6	267.9	145.1
70°	101.4	112.1	183.8	245.6	162.4	*125.3*	84.9	90.7	81.6	71.7	70.9
72.5°	70.1	80.0	137.7	145.1	62.6	*44.5*	31.3	43.7	49.5	48.6	50.3
75°	46.2	53.6	86.6	56.9	15.7	*12.4*	10.7	23.1	29.7	29.7	30.5
77.5°	27.2	31.3	30.5	11.5	3.3	*3.3*	2.5	4.1	6.6	7.4	9.1
80°	3.3	2.5	1.6	1.6	1.6	*1.6*	1.6	1.6	2.5	2.5	2.5
82.5°	0.8	0.8	0.8	1.6	1.6	*1.6*	1.6	1.6	1.6	2.5	2.5
85°	0.0	0.0	0.8	0.8	1.6	*1.6*	1.6	1.6	1.6	2.5	2.5
87.5°	0.0	0.0	0.8	0.8	1.6	*1.6*	1.6	1.6	1.6	2.5	2.5
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: P637015
CATALOG NUMBER: GWS-SA4B-830-U-T3R-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4
2.5°	1745.9	1740.1	1764.0	1781.3	1795.3	1801.9	1792.9	1792.0	1792.0	1773.9	1769.0
5°	1766.5	1769.0	1802.8	1817.6	1820.1	1811.8	1791.2	1777.2	1769.0	1750.0	1739.3
7.5°	1806.1	1814.3	1846.4	1844.0	1821.7	1783.8	1729.4	1687.4	1660.2	1630.5	1612.3
10°	1862.9	1878.6	1898.4	1863.8	1792.9	1696.4	1584.3	1504.4	1456.6	1422.8	1402.1
12.5°	1932.2	1947.8	1941.2	1859.6	1712.1	1539.8	1395.6	1280.1	1224.9	1194.4	1173.0
15°	2002.2	2012.1	1969.3	1810.2	1569.5	1337.9	1177.1	1062.5	994.9	970.2	952.1
17.5°	2074.0	2071.5	1974.2	1712.9	1379.1	1110.3	952.1	873.8	854.8	850.7	849.0
20°	2149.0	2126.7	1954.4	1573.6	1149.9	885.3	795.5	800.4	835.0	851.5	854.8
22.5°	2234.7	2178.6	1905.0	1384.8	915.8	737.8	746.8	795.5	842.4	864.7	868.0
25°	2326.2	2226.5	1822.5	1142.5	722.1	678.4	732.0	788.0	838.3	865.5	868.8
27.5°	2386.4	2238.0	1687.4	898.5	619.9	655.3	712.2	765.8	817.7	847.4	851.5
30°	2451.5	2233.0	1503.5	692.4	585.3	635.5	685.0	733.6	781.4	814.4	817.7
32.5°	2547.1	2229.8	1279.3	562.2	571.2	619.9	656.1	696.5	729.5	748.5	746.0
35°	2672.4	2225.6	1018.0	506.9	563.0	607.5	636.4	655.3	619.1	607.5	610.0
37.5°	2833.1	2235.5	797.9	483.9	560.5	604.2	628.9	574.5	518.5	497.1	493.8
40°	3011.2	2261.1	608.3	474.8	568.8	612.5	600.9	511.1	441.8	399.8	390.7
42.5°	3190.1	2289.1	481.4	471.5	582.8	635.5	554.8	464.9	361.0	337.1	333.8
45°	3322.8	2284.2	416.3	465.7	595.1	648.7	542.4	399.0	322.3	311.6	312.4
47.5°	3389.6	2229.8	380.8	452.5	600.1	635.5	511.9	371.8	295.9	307.5	317.4
50°	3354.1	2088.8	347.9	427.0	589.4	618.2	463.3	351.2	282.7	330.5	352.8
52.5°	3311.2	1915.7	311.6	387.4	563.8	594.3	444.3	345.4	274.5	319.0	335.5
55°	*3368.1*	*1806.1*	*252.2*	*326.4*	*513.5*	*538.3*	*429.5*	*344.6*	*255.5*	*248.1*	*245.6*
57.5°	3288.2	1587.6	180.5	234.9	394.0	426.2	418.7	338.8	226.7	225.9	229.2
60°	2541.3	968.6	123.6	149.2	241.5	272.0	380.0	324.0	195.4	179.7	180.5
62.5°	1444.2	412.2	84.9	92.3	123.6	146.7	290.2	294.3	180.5	171.5	180.5
65°	502.8	147.6	65.9	61.8	68.4	78.3	166.5	227.5	164.0	148.4	150.0
67.5°	103.9	73.4	58.5	51.1	51.1	51.1	84.9	141.8	135.2	117.9	119.5
70°	65.9	62.6	51.1	43.7	42.0	38.7	48.6	78.3	93.1	85.7	86.6
72.5°	48.6	47.8	40.4	35.4	31.3	28.0	30.5	38.7	47.8	49.5	50.3
75°	29.7	30.5	26.4	22.3	19.8	17.3	18.1	18.1	18.1	16.5	18.1
77.5°	9.1	9.9	8.2	6.6	5.8	5.8	5.8	4.9	4.1	2.5	2.5
80°	2.5	2.5	2.5	2.5	2.5	1.6	1.6	0.8	0.8	0.0	0.0
82.5°	2.5	2.5	2.5	2.5	1.6	1.6	0.8	0.8	0.0	0.0	0.0
85°	2.5	2.5	2.5	2.5	1.6	1.6	0.8	0.8	0.0	0.0	0.0
87.5°	2.5	2.5	2.5	2.5	1.6	1.6	0.8	0.8	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

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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

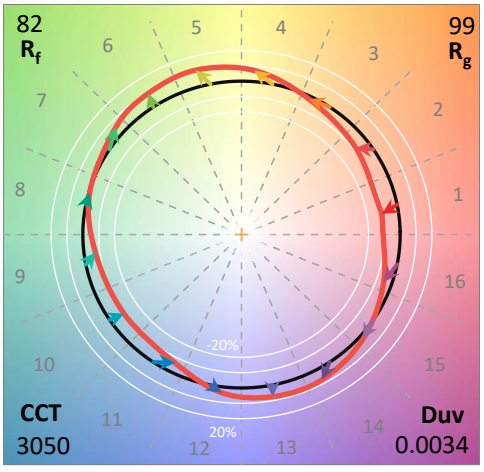
Test Information

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

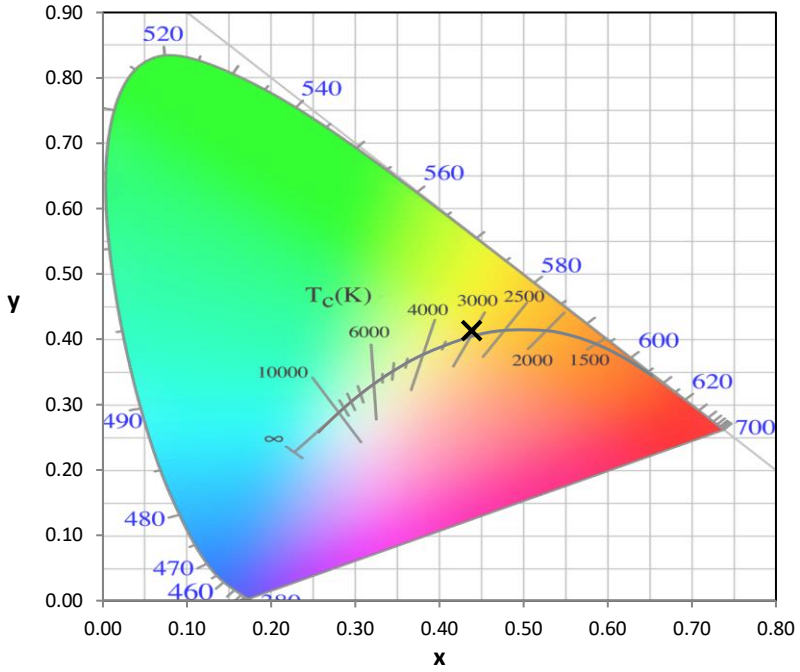
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

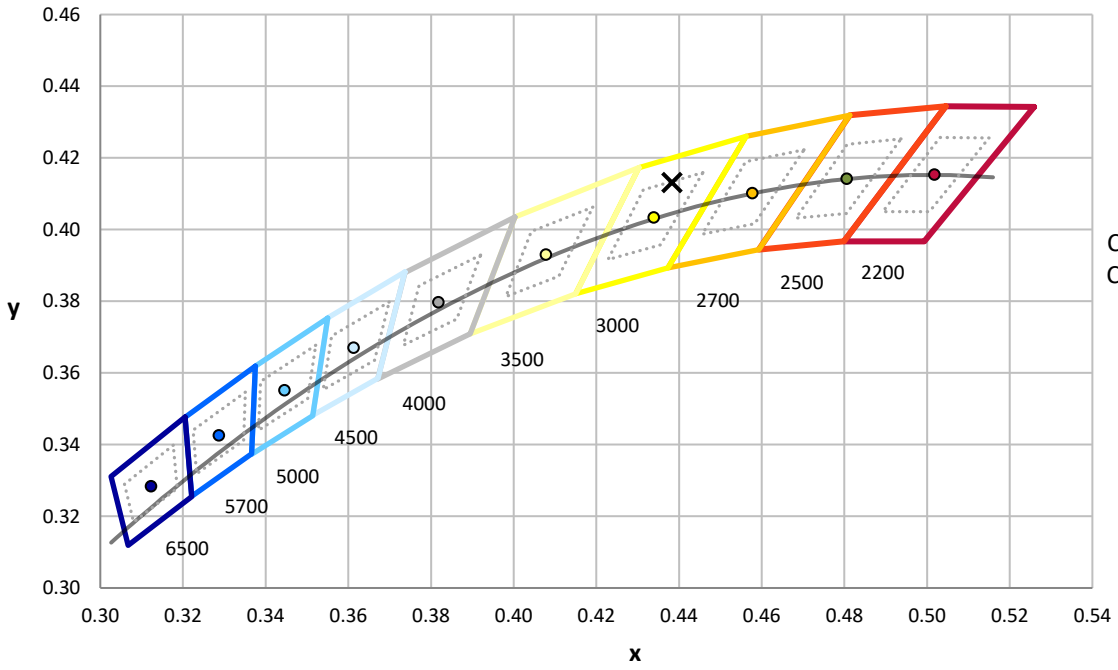
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

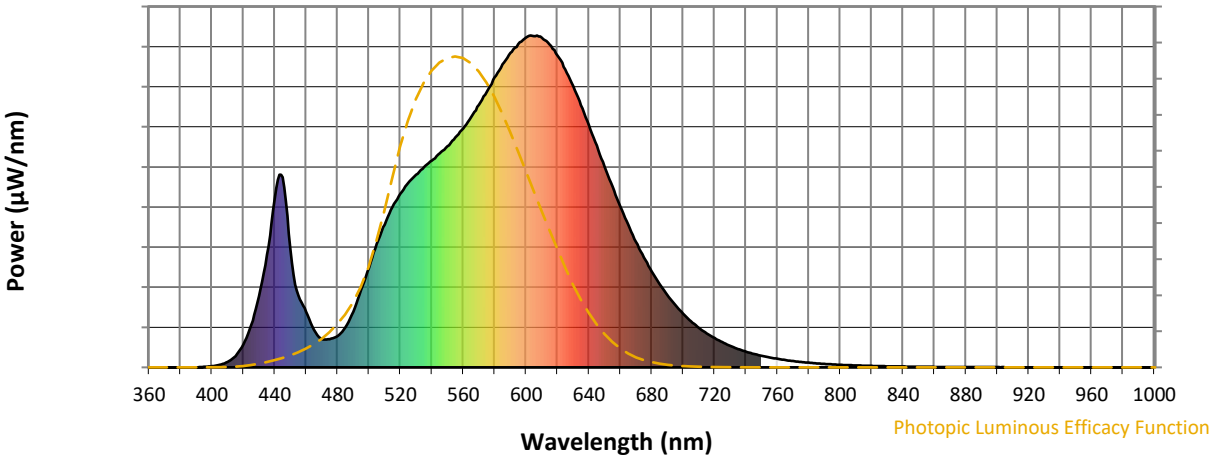


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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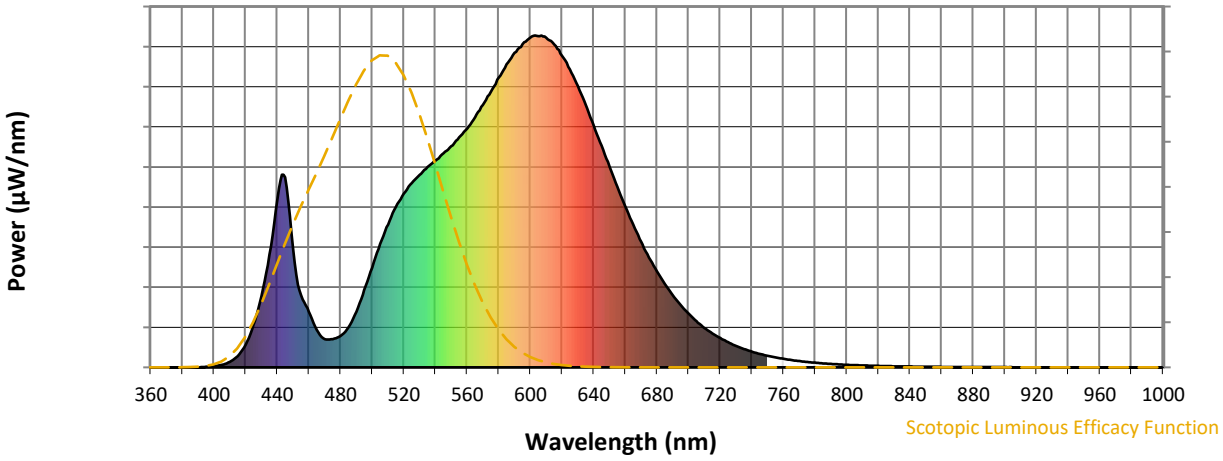
Scotopic Flux vs. Wavelength



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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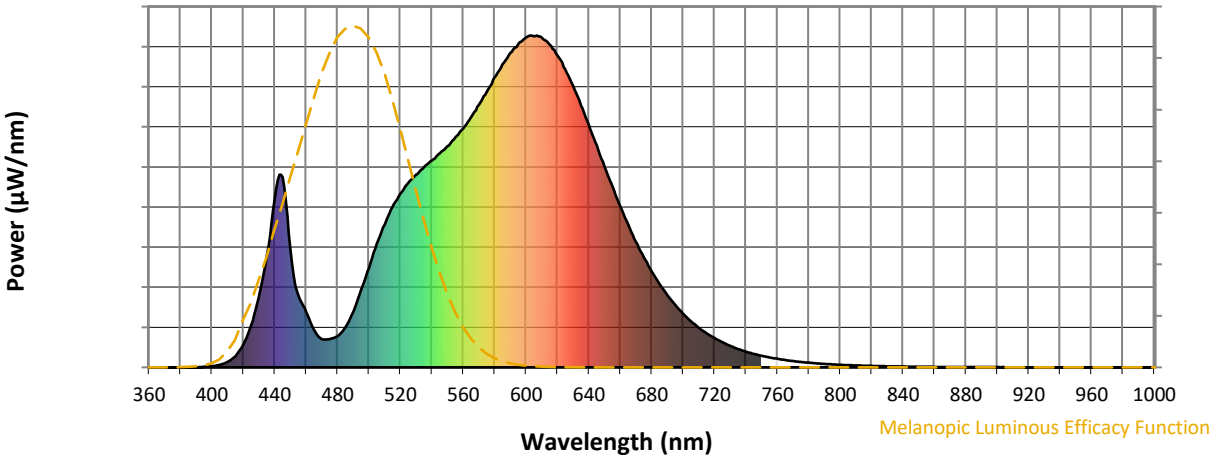
Melanopic Flux vs. Wavelength



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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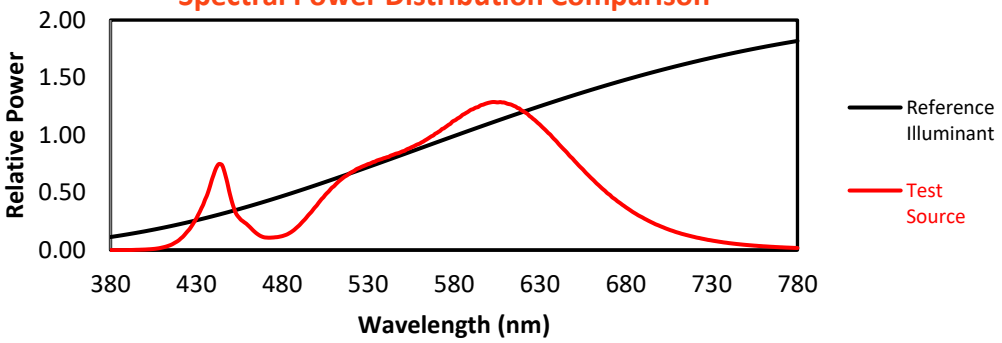
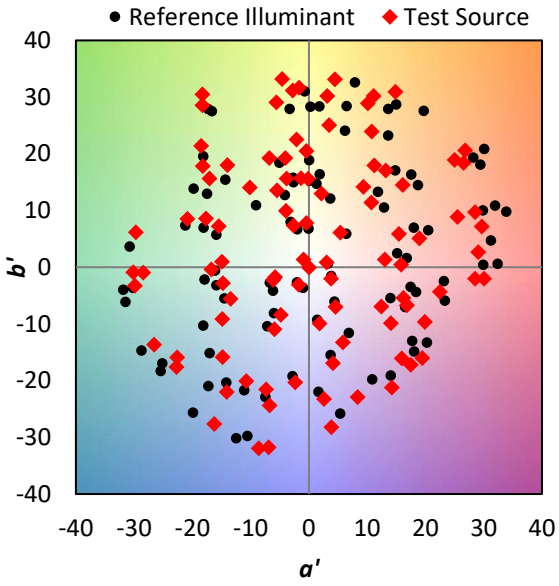
Summary

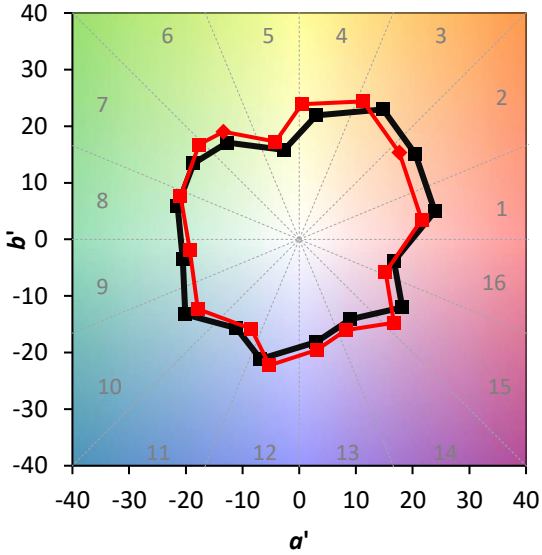
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

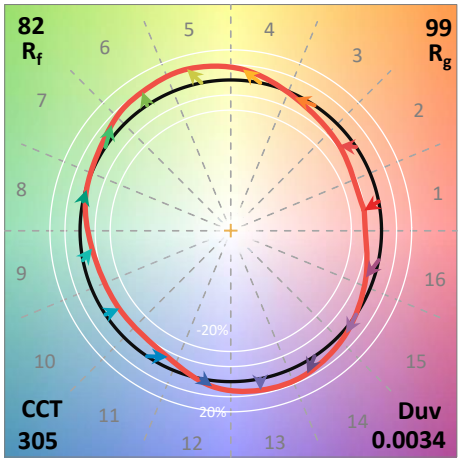
Spectral Power Distribution Comparison

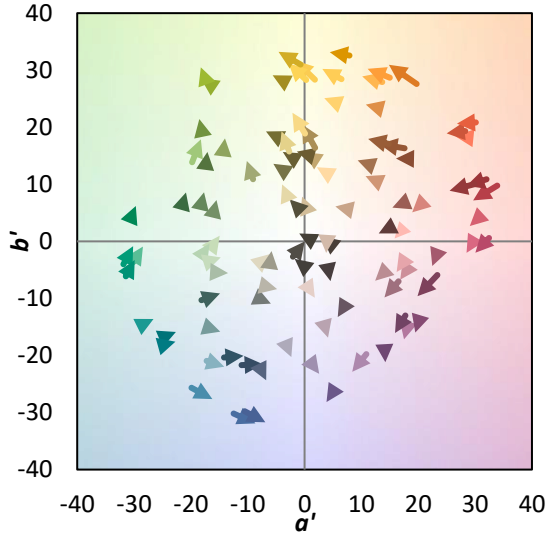


Color Vector Graphics









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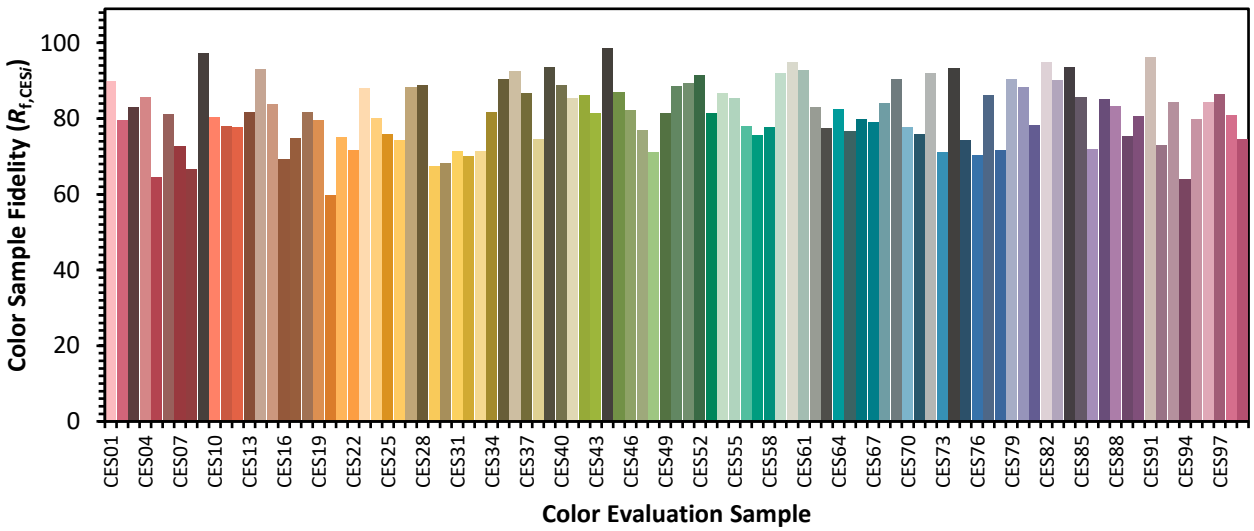
Individual Sample Fidelity Index ($R_{f,i}$)

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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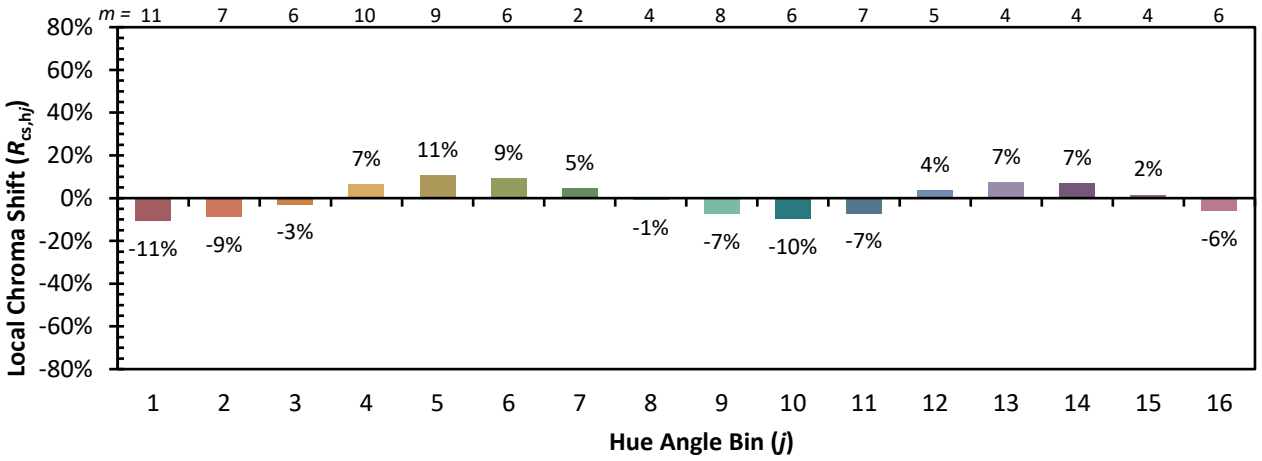
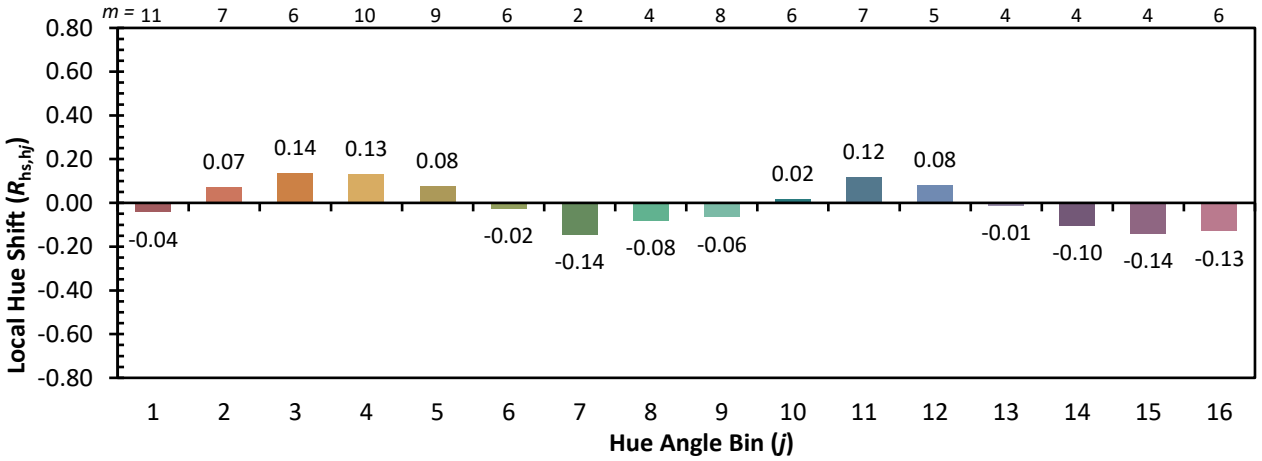
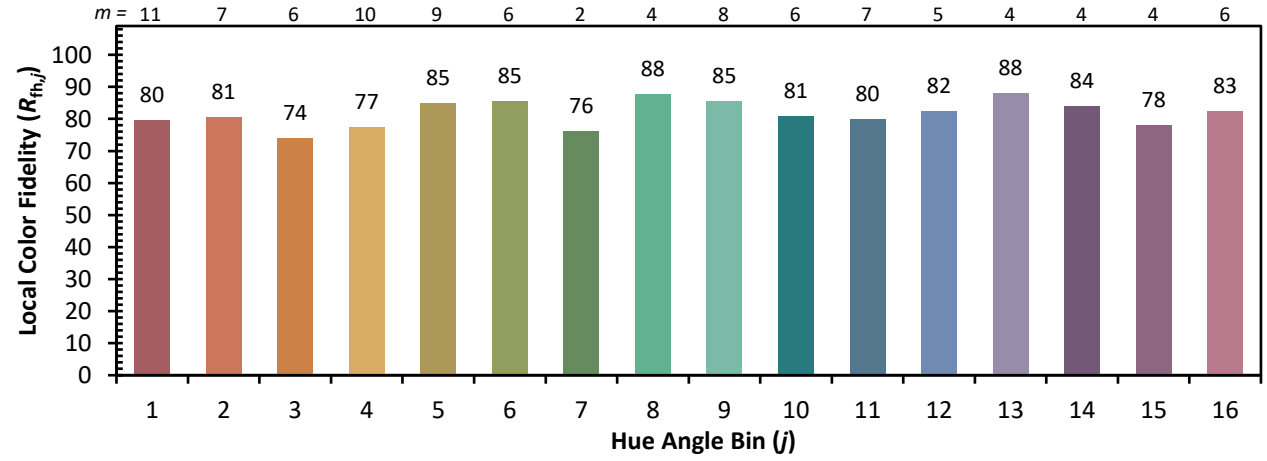
Color Rendition by Hue-Angle Bin







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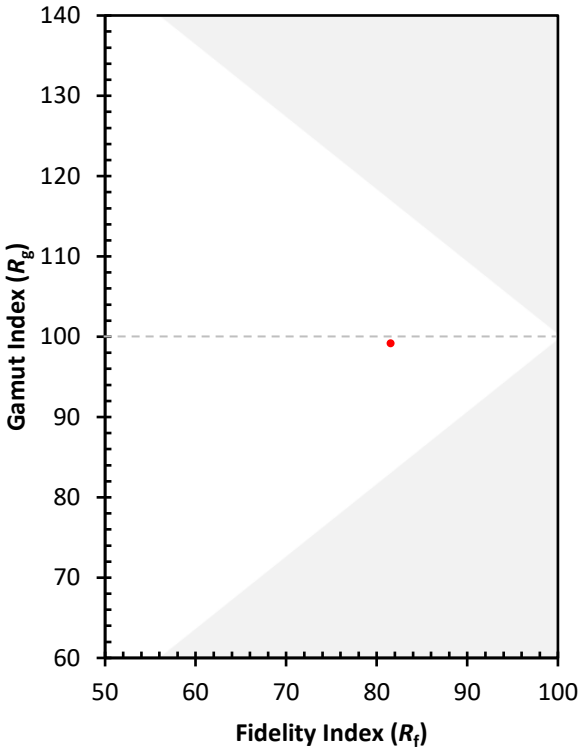
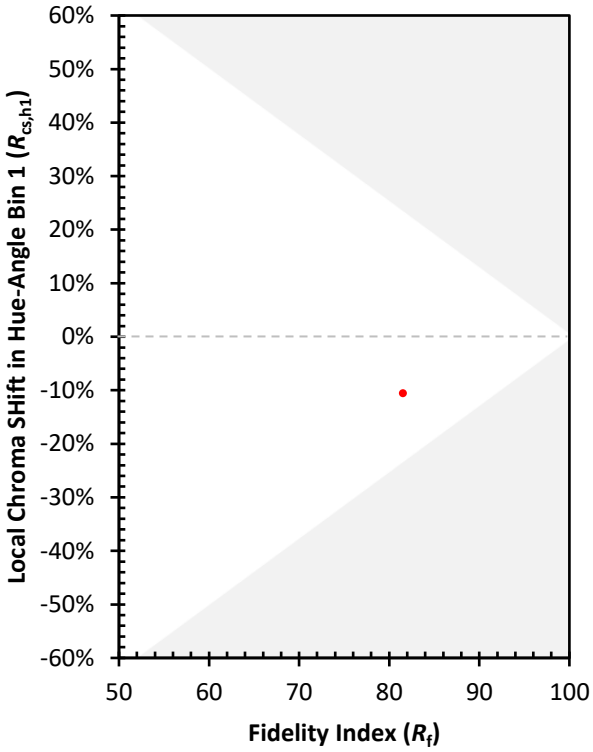
Measure Comparisons





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