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: P637018

Luminaire Tested: GWS-SA4B-830-U-T3R-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:	P637018
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
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
Description:	GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source:	(64) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11689 lumens
Efficiency:	N/A
Efficacy:	123.8 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B2 - U0 - G2

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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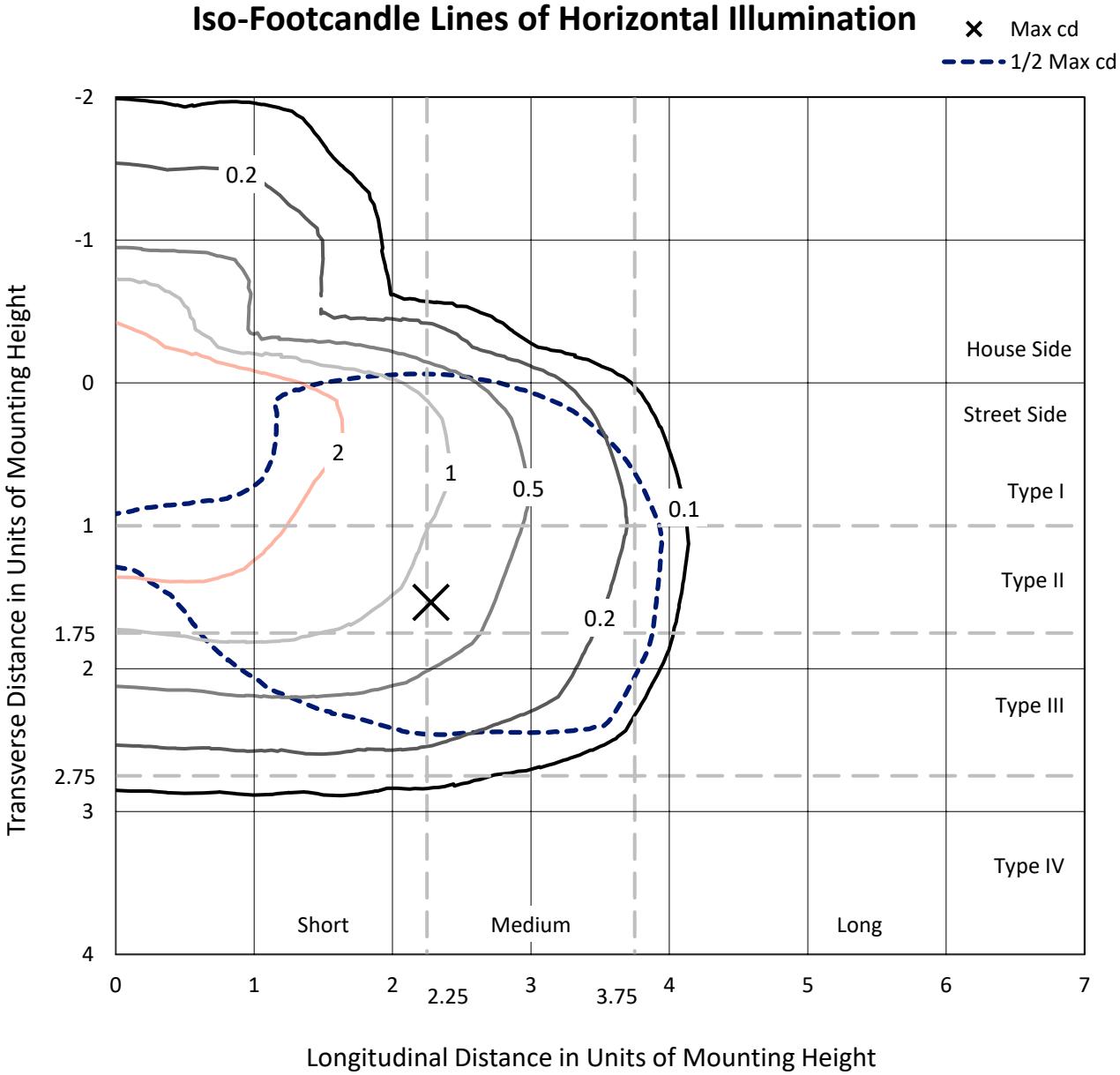
Scaled Data Report

REPORT NUMBER: P637018
CATALOG NUMBER: GWS-SA4B-830-U-T3R-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 4.9 fc
Type III - Medium - N/A

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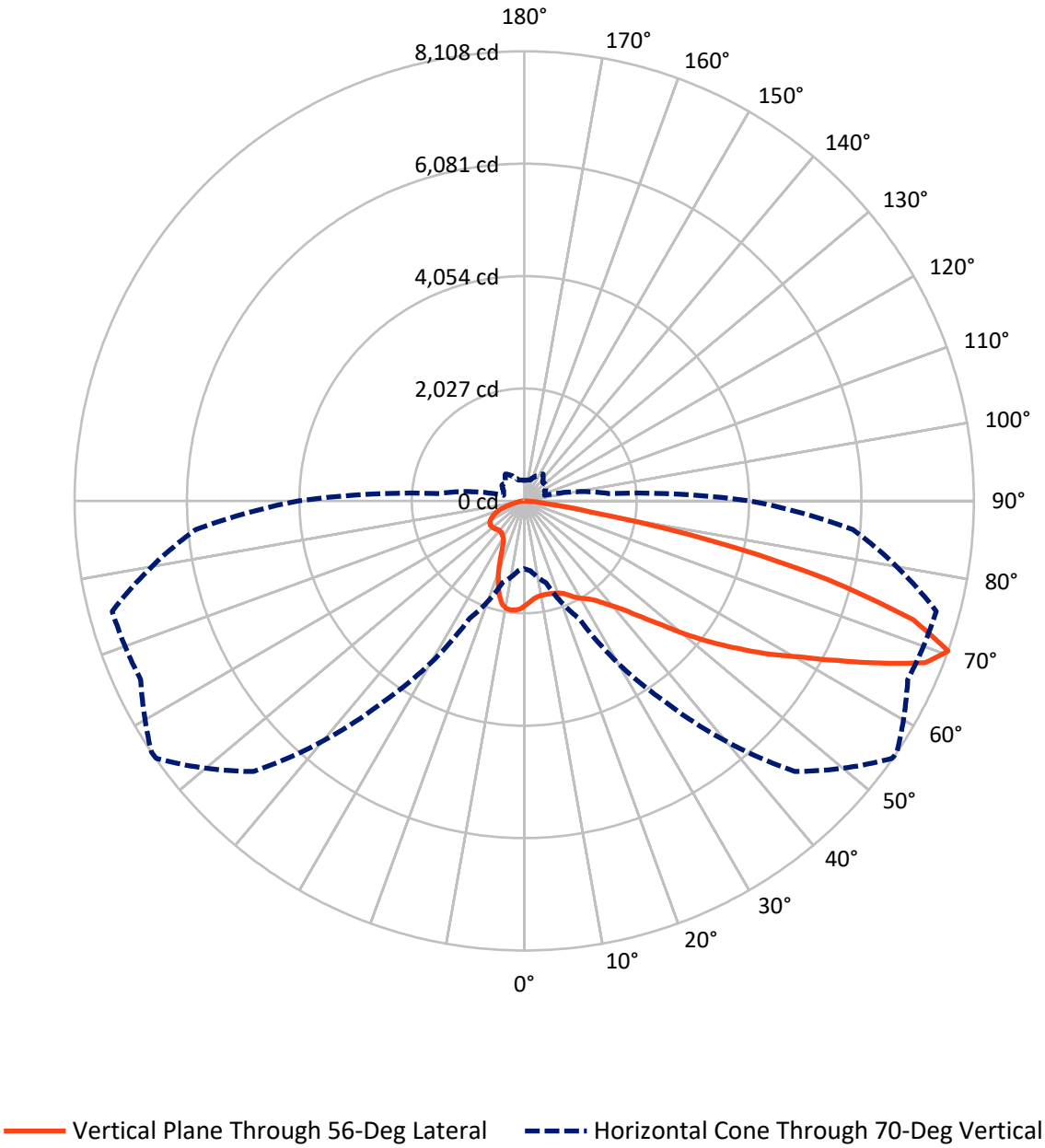
Luminous Intensity Polar Plot



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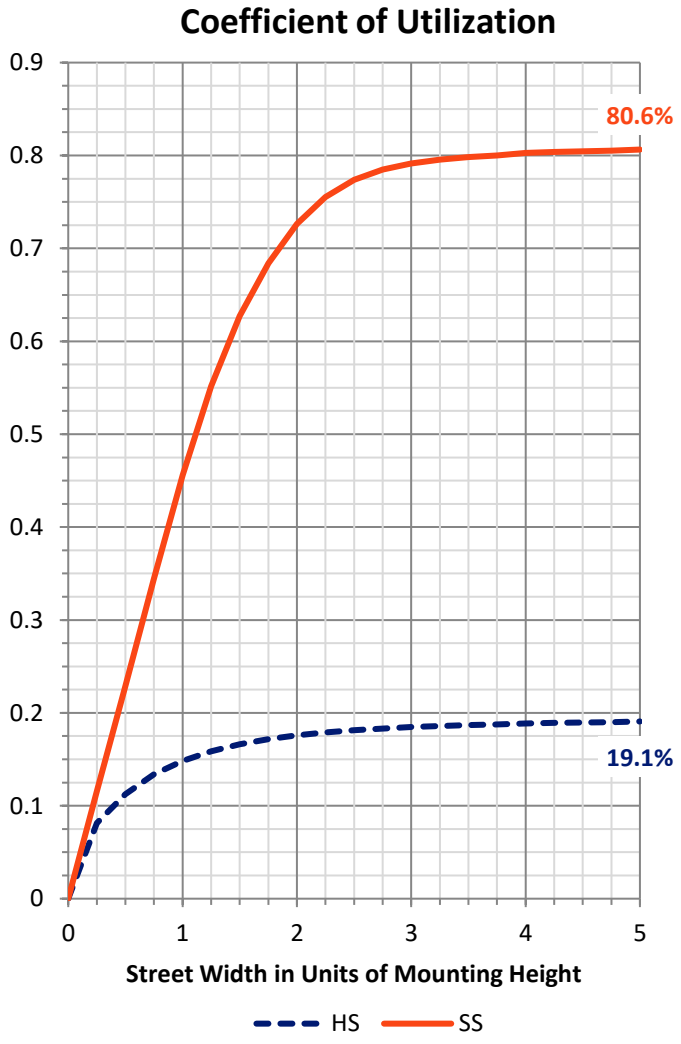
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2247.2	0.0	2247.2
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	9441.8	0.0	9441.8
	% Fixture	80.8	0.0	80.8
Total	Lumens	11689.0	0.0	11689.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.6	1.5
10°-20°	473.1	4.0
20°-30°	782.1	6.7
30°-40°	1169.4	10.0
40°-50°	1740.2	14.9
50°-60°	2474.1	21.2
60°-70°	3064.3	26.2
70°-80°	1692.0	14.5
80°-90°	119.2	1.0
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°	11689.0	100.0
0°-180°	11689.0	100.0



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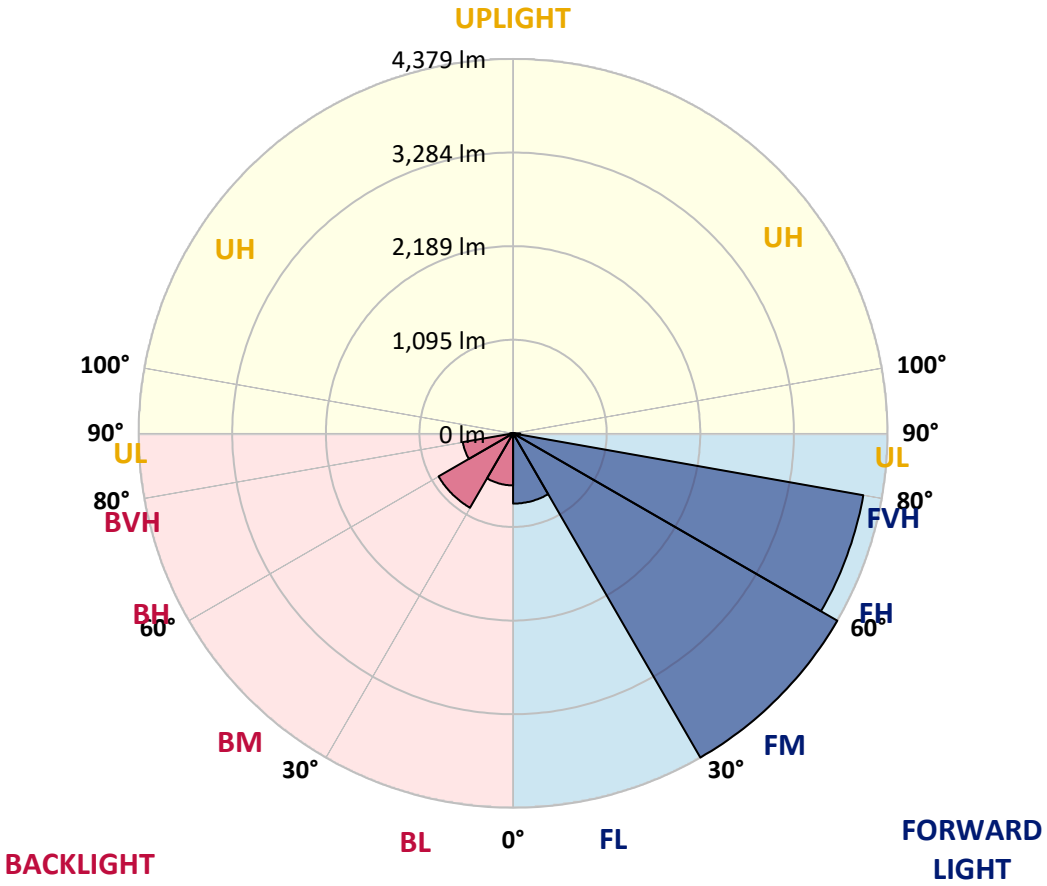
CATALOG NUMBER: GWS-SA4B-830-U-T3R-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	821.5	7.0			
FM	(30°-60°)	4378.5	37.5			
FH	(60°-80°)	4159.0	35.6			G2/5000
FVH	(80°-90°)	82.8	0.7			G1/100
BL	(0°-30°)	608.3	5.2	B2/1000		
BM	(30°-60°)	1005.2	8.6	B2/2500		
BH	(60°-80°)	597.3	5.1	B2/1000		G2/1000
BVH	(80°-90°)	36.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type III Medium



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REPORT NUMBER: P637018
CATALOG NUMBER: GWS-SA4B-830-U-T3R-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1886.8	1886.8	1886.8	1886.8	1886.8	1886.8	1886.8	1886.8	1886.8	1886.8	1886.8
2.5°	1765.6	1755.7	1767.3	1773.0	1787.9	1809.3	1828.3	1829.1	1839.0	1862.9	1886.0
5°	1685.7	1680.7	1684.0	1701.3	1717.0	1744.2	1773.0	1775.5	1803.5	1850.5	1896.7
7.5°	1623.8	1617.2	1629.6	1651.9	1671.6	1702.1	1740.1	1743.4	1782.9	1853.8	1924.7
10°	1534.8	1529.9	1552.9	1582.6	1625.5	1675.8	1726.0	1730.2	1782.1	1875.2	1974.2
12.5°	1496.1	1496.1	1506.0	1534.0	1581.0	1647.7	1723.6	1730.2	1795.3	1908.2	2037.6
15°	1556.2	1560.4	1552.1	1550.5	1569.4	1632.9	1726.9	1736.8	1820.0	1942.0	2100.3
17.5°	1677.4	1681.5	1660.1	1626.3	1607.4	1646.9	1739.2	1750.0	1846.4	1979.1	2167.9
20°	1847.2	1852.2	1805.2	1753.3	1688.1	1687.3	1763.1	1773.0	1880.2	2019.5	2239.6
22.5°	2045.9	2049.2	1989.8	1907.4	1807.7	1762.3	1804.4	1814.2	1923.9	2075.5	2317.1
25°	2275.8	2285.7	2214.0	2094.5	1959.3	1865.4	1872.8	1884.3	2002.2	2150.6	2408.6
27.5°	2521.5	2533.8	2451.4	2319.5	2133.2	1979.1	1961.0	1970.9	2085.4	2196.7	2457.2
30°	2772.9	2782.0	2699.5	2548.7	2320.4	2107.7	2035.2	2040.9	2121.7	2219.0	2506.6
32.5°	3052.3	3044.9	2965.8	2791.8	2536.3	2261.8	2104.4	2102.7	2162.1	2263.5	2577.5
35°	3314.4	3325.2	3241.1	3049.0	2773.7	2452.2	2208.3	2201.7	2247.8	2336.0	2677.3
37.5°	3631.8	3628.5	3527.9	3320.2	3011.9	2634.4	2354.2	2342.6	2359.1	2448.9	2816.6
40°	3858.5	3881.5	3816.4	3622.7	3290.5	2858.6	2524.8	2499.2	2503.3	2588.2	3002.9
42.5°	4043.9	4065.4	4072.0	3948.3	3609.5	3135.6	2737.4	2711.9	2714.4	2834.7	3232.0
45°	4186.5	4215.4	4308.5	4272.3	3968.9	3455.4	3025.1	2998.7	3000.4	3133.9	3509.0
47.5°	4245.1	4276.4	4465.1	4551.7	4350.6	3837.9	3382.9	3344.1	3349.9	3497.4	3825.5
50°	4226.1	4268.1	4523.7	4766.8	4670.4	4226.9	3810.7	3783.5	3761.2	3975.5	4169.2
52.5°	4062.9	4109.1	4517.9	4903.7	4931.7	4594.6	4252.5	4236.8	4231.9	4483.3	4553.3
55°	3582.3	3659.8	4319.2	4939.9	5136.1	4940.8	4731.4	4705.0	4730.6	5027.3	4941.6
57.5°	3316.1	3373.8	3930.2	4899.5	5303.4	5270.5	5209.5	5211.9	5240.8	5618.3	5412.2
60°	3164.4	3232.0	3714.2	4789.1	5464.2	5671.1	5709.8	5709.8	5761.7	6255.5	5890.3
62.5°	2963.3	3031.7	3512.3	4576.4	5612.5	6142.6	6338.7	6336.3	6356.9	6938.8	6357.7
65°	2555.3	2618.7	3106.7	4240.9	5685.1	6661.9	7053.4	7046.0	7004.8	7547.1	6666.8
67.5°	1855.5	1915.6	2379.7	3602.9	5423.8	7080.6	7789.5	7792.8	7546.3	7930.4	6683.3
70°	1223.2	1264.5	1529.9	2340.1	4410.7	6900.1	8097.8	8107.7	7629.6	7691.4	5948.0
72.5°	763.3	792.1	955.3	1395.5	2606.4	5461.7	7306.4	7333.6	6863.8	6759.1	4887.2
75°	506.9	526.7	635.5	813.6	1205.9	2955.9	5554.0	5641.4	5501.3	5298.5	3405.1
77.5°	305.0	321.5	404.7	516.8	534.1	1154.8	3241.9	3467.8	3487.5	2766.3	1426.0
80°	139.3	158.3	223.4	295.1	284.4	402.3	1143.3	1196.0	1411.2	878.7	450.1
82.5°	82.4	90.7	148.4	146.7	121.2	195.4	411.3	422.0	358.6	321.5	192.1
85°	33.0	38.7	62.6	55.2	44.5	63.5	155.0	162.4	155.8	140.1	70.9
87.5°	0.0	0.0	0.0	0.0	0.8	1.6	14.0	14.8	21.4	38.7	21.4
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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REPORT NUMBER: P637018
CATALOG NUMBER: GWS-SA4B-830-U-T3R-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1886.8	1886.8	1886.8	1886.8	1886.8	1886.8	1886.8	1886.8	1886.8	1886.8	1886.8
2.5°	1900.8	1895.9	1920.6	1939.5	1947.8	1956.0	1948.6	1946.1	1946.1	1929.6	1921.4
5°	1921.4	1923.9	1957.7	1973.3	1973.3	1966.7	1947.0	1932.9	1928.0	1906.6	1900.8
7.5°	1960.1	1970.9	2002.2	2001.4	1978.3	1942.0	1892.6	1854.6	1820.0	1805.2	1796.1
10°	2023.6	2037.6	2059.1	2024.4	1960.1	1864.5	1759.8	1677.4	1628.0	1588.4	1588.4
12.5°	2096.2	2109.3	2105.2	2025.3	1892.6	1713.7	1562.8	1468.0	1398.8	1362.5	1362.5
15°	2168.7	2179.4	2134.9	1987.3	1751.6	1513.4	1348.5	1234.8	1174.6	1140.8	1140.8
17.5°	2242.1	2241.2	2147.3	1900.0	1567.8	1291.7	1130.1	1041.9	1021.3	1015.5	1014.7
20°	2312.9	2294.0	2131.6	1754.1	1354.3	1068.3	966.1	971.8	1002.3	1015.5	1017.2
22.5°	2392.9	2345.9	2085.4	1567.8	1112.0	913.3	919.9	967.7	1012.2	1032.0	1034.5
25°	2474.5	2390.4	2008.0	1349.4	909.2	856.4	907.5	961.1	1011.4	1036.9	1039.4
27.5°	2507.5	2390.4	1876.1	1096.3	801.2	832.5	888.6	940.5	993.3	1022.9	1028.7
30°	2534.7	2369.8	1691.4	868.0	756.7	809.4	858.1	905.9	957.8	994.1	1000.7
32.5°	2572.6	2351.7	1468.0	729.5	736.1	787.2	821.0	861.4	908.4	932.3	929.8
35°	2617.1	2323.7	1198.5	663.5	718.8	768.2	792.1	816.0	794.6	793.8	796.3
37.5°	2680.6	2298.9	963.6	633.9	707.2	755.0	774.8	723.7	694.0	681.7	676.7
40°	2772.1	2289.0	760.0	616.6	705.6	754.2	740.2	661.1	620.7	577.8	577.0
42.5°	2887.5	2281.6	628.1	608.3	711.4	773.2	692.4	619.9	536.6	517.6	516.0
45°	3035.8	2270.1	562.2	606.7	725.4	788.0	687.5	563.0	506.1	497.9	497.9
47.5°	3214.7	2251.9	532.5	606.7	741.0	781.4	672.6	550.6	492.1	501.2	506.9
50°	3420.0	2228.9	516.8	605.0	756.7	781.4	641.3	548.1	488.8	535.8	554.7
52.5°	3639.2	2202.5	506.1	598.4	767.4	782.2	642.9	556.4	492.1	544.0	559.7
55°	3881.5	2198.4	491.3	584.4	770.7	760.8	647.1	574.5	497.0	492.9	493.7
57.5°	4187.4	2247.8	480.6	563.8	757.5	717.1	655.3	587.7	491.3	492.1	497.9
60°	4507.2	2341.0	489.6	544.0	730.3	675.9	661.1	581.1	463.2	450.1	451.7
62.5°	4779.2	2411.9	497.0	535.0	690.7	639.6	655.3	566.3	447.6	444.3	451.7
65°	4892.9	2353.3	478.9	516.0	633.0	595.1	642.9	547.3	434.4	422.0	422.9
67.5°	4766.8	2078.8	443.5	474.0	567.9	538.3	623.2	522.6	416.3	401.4	398.1
70°	*4072.0*	*1527.4*	*382.5*	*407.2*	*488.8*	*471.5*	*592.7*	*490.4*	*387.4*	*376.7*	*369.3*
72.5°	3281.5	1081.5	317.3	323.9	383.3	397.3	539.9	450.1	354.4	323.9	313.2
75°	2284.1	679.2	264.6	258.0	277.0	303.3	421.2	373.4	305.8	273.7	263.8
77.5°	982.5	348.7	206.9	203.6	184.6	210.2	323.1	311.6	256.4	219.3	213.5
80°	328.9	201.9	149.2	143.4	122.8	147.5	227.5	248.9	201.1	162.4	152.5
82.5°	164.9	117.0	94.8	85.7	82.4	93.1	134.4	155.0	139.3	112.1	94.8
85°	80.8	66.8	51.9	51.1	42.9	40.4	56.1	65.9	62.6	46.2	43.7
87.5°	29.7	26.4	16.5	13.2	8.2	5.8	3.3	3.3	2.5	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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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

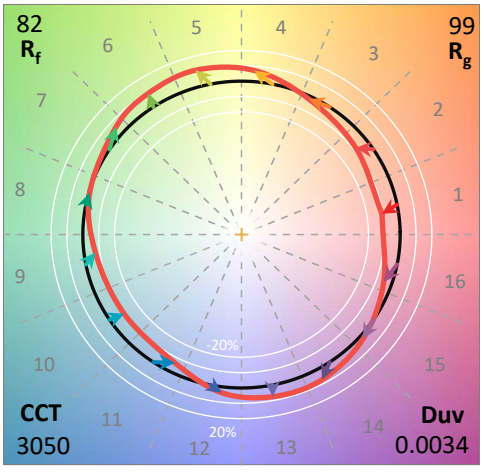
Test Information

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

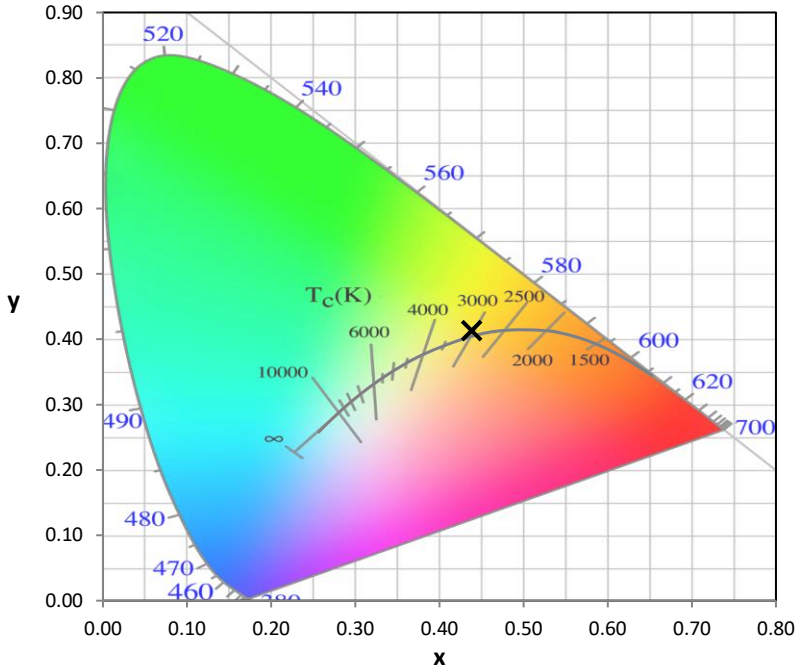
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

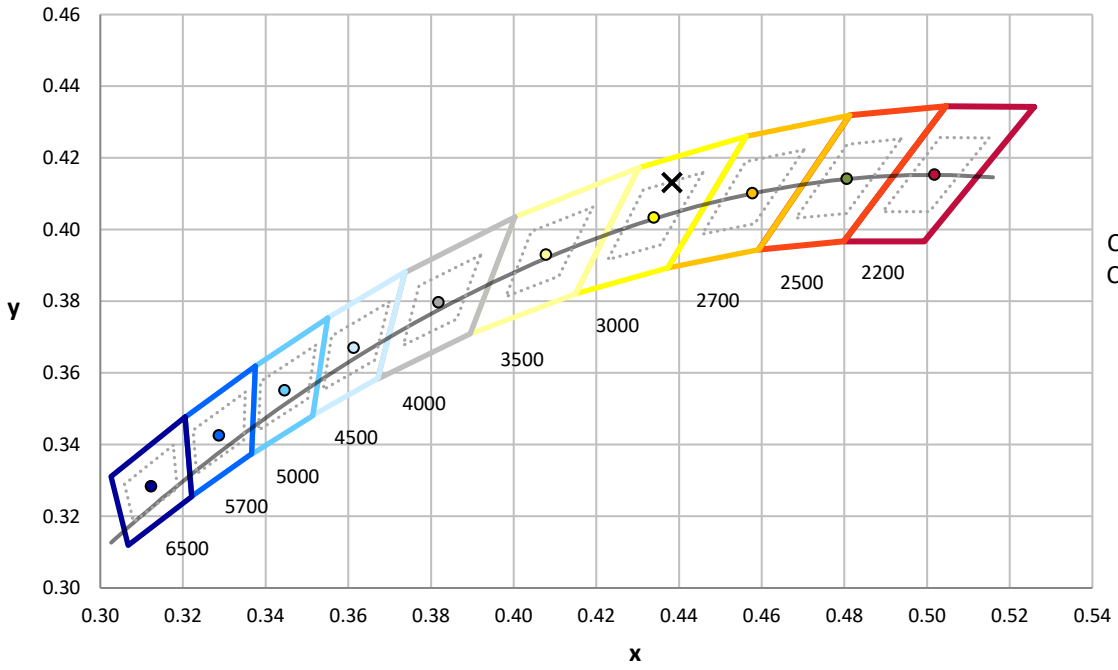
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

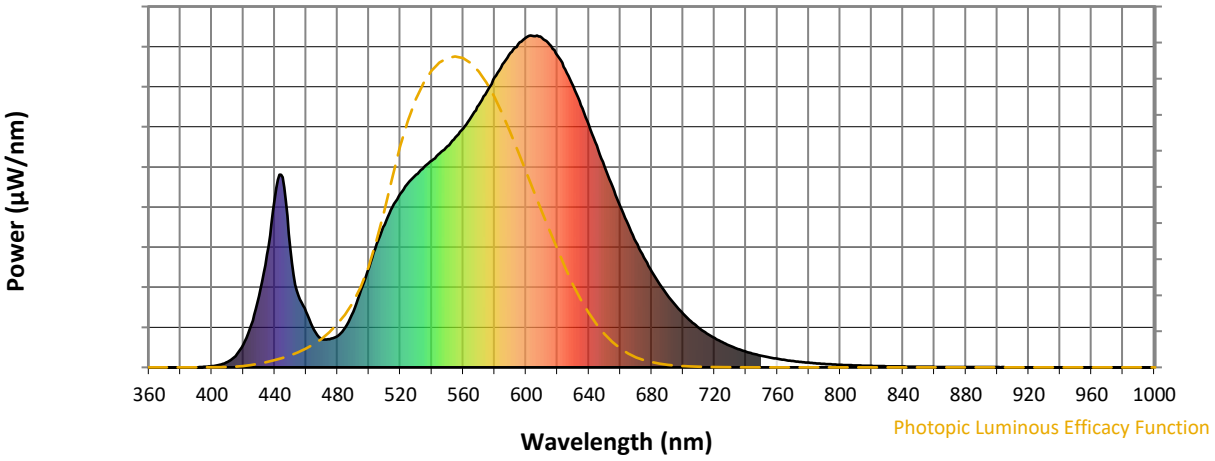


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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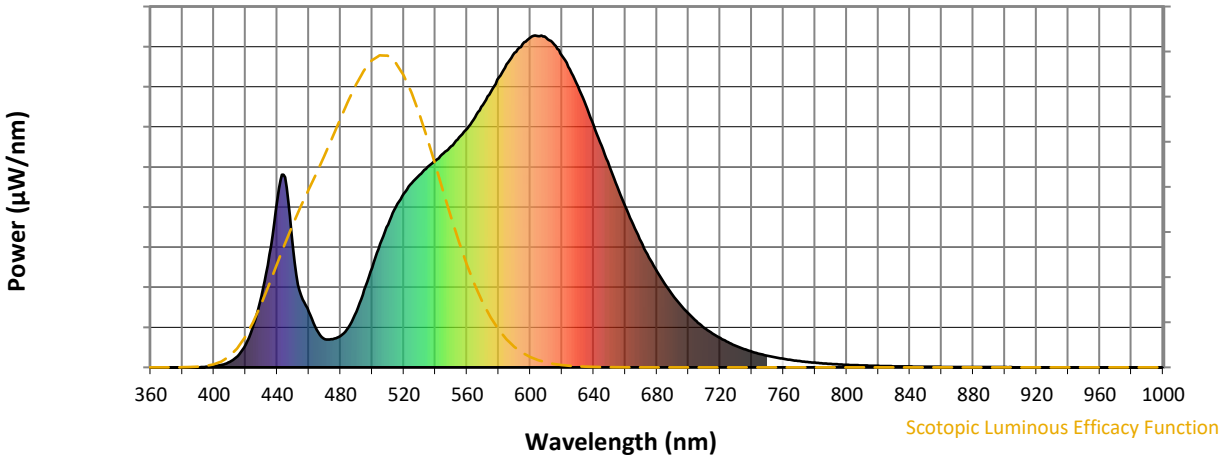
Scotopic Flux vs. Wavelength



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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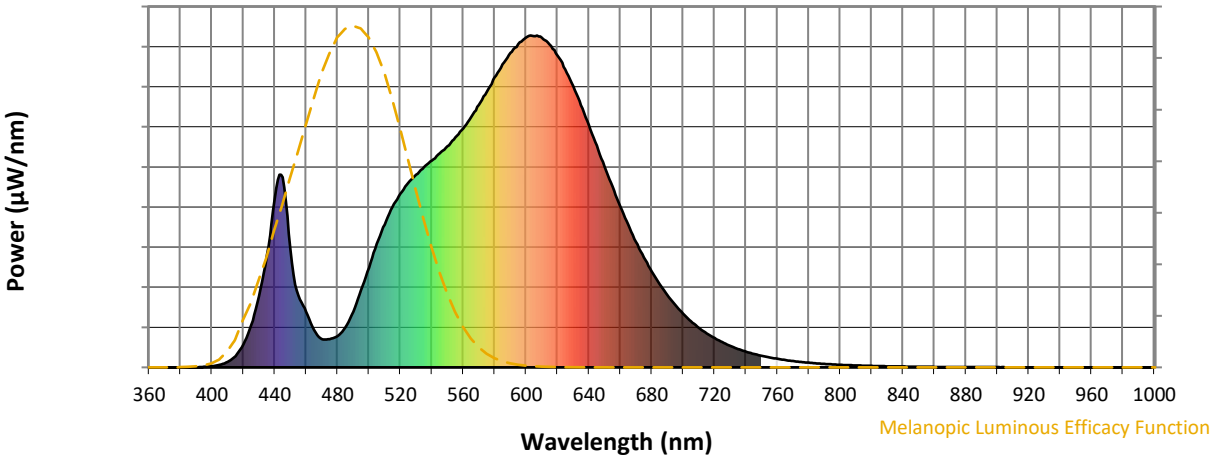
Melanopic Flux vs. Wavelength



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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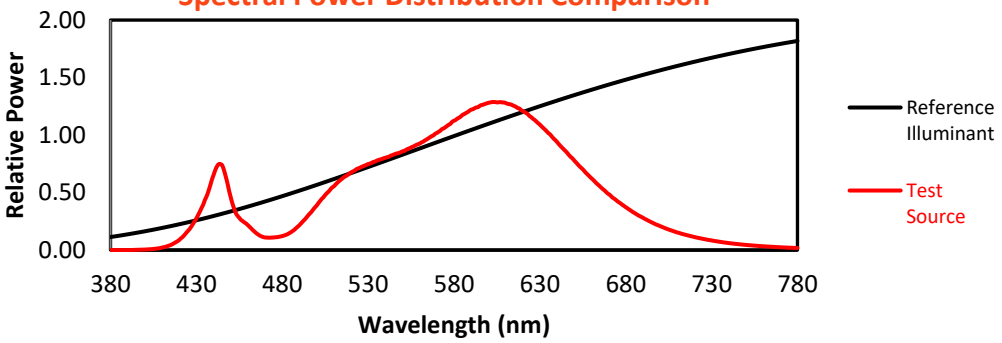
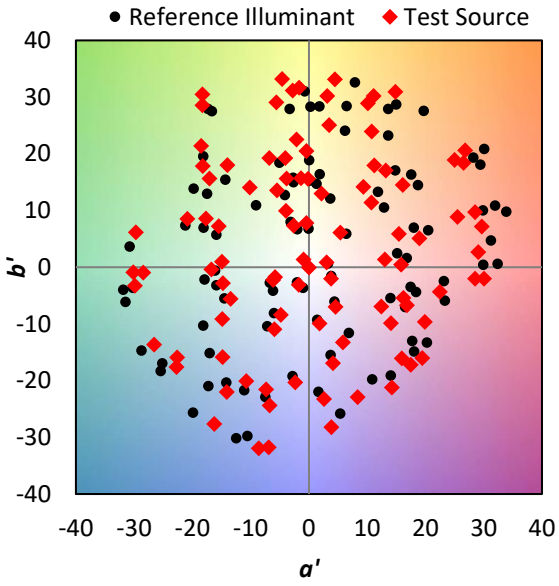
Summary

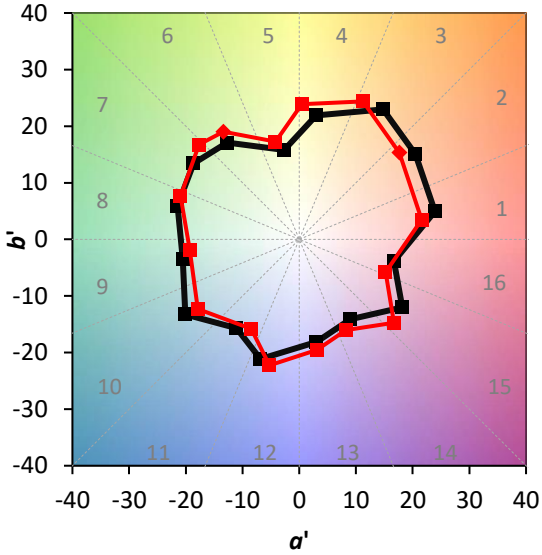
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

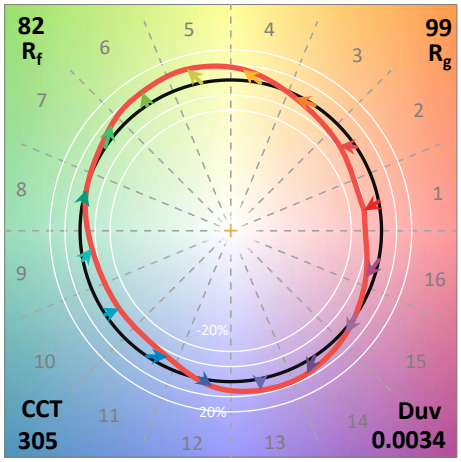
Spectral Power Distribution Comparison

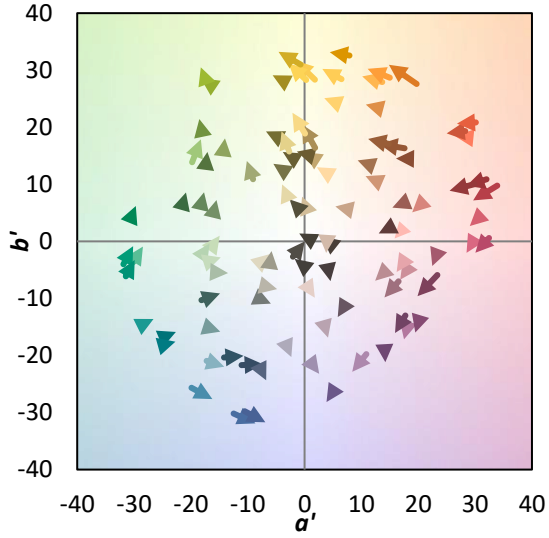


Color Vector Graphics









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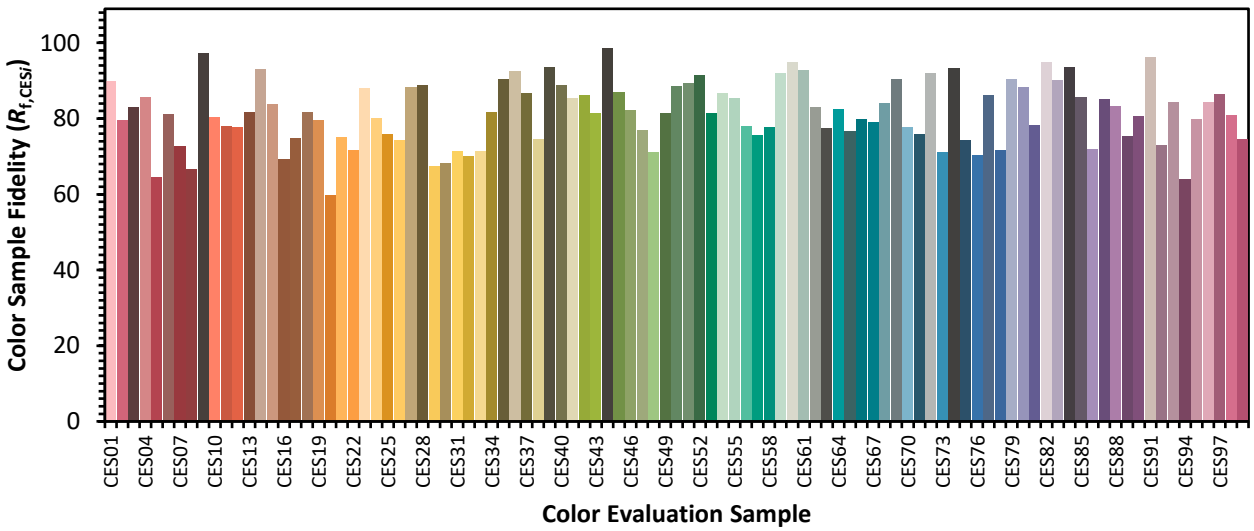
Individual Sample Fidelity Index ($R_{f,i}$)

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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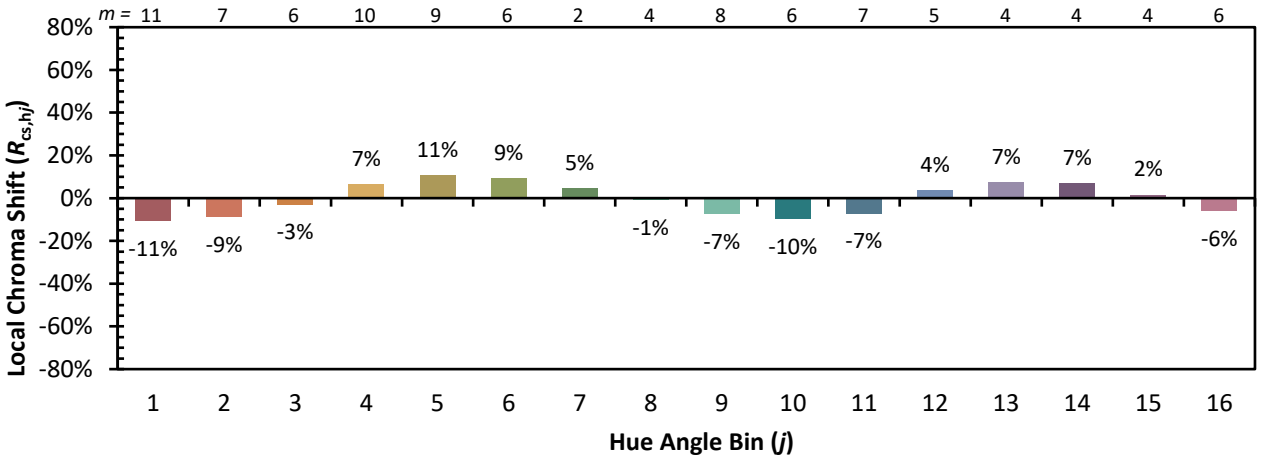
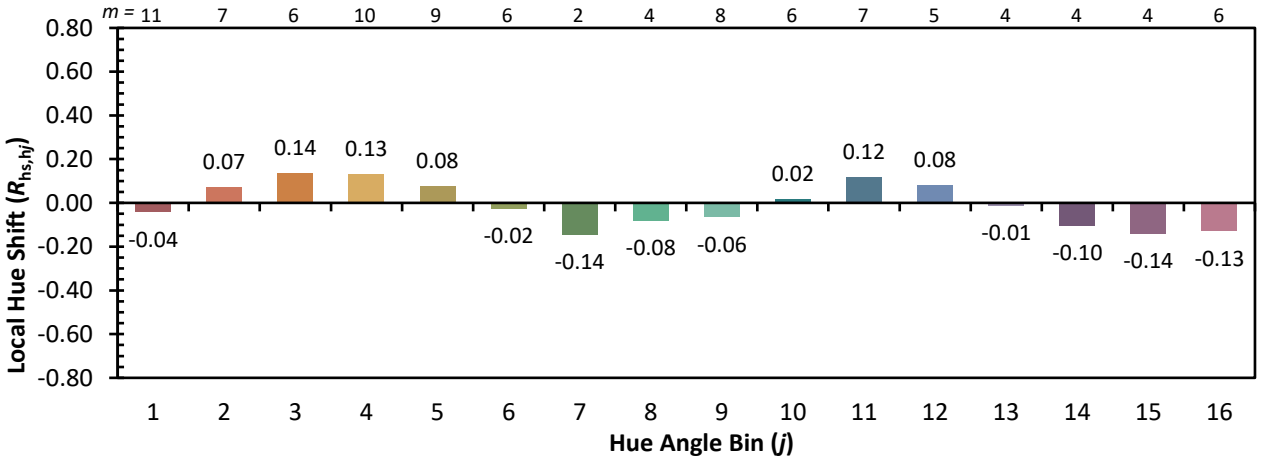
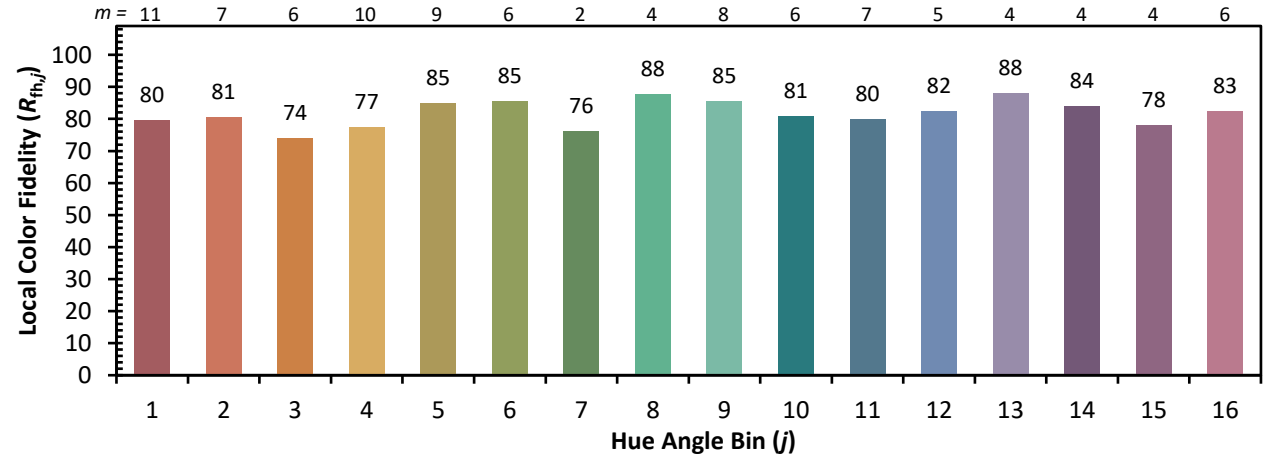
Color Rendition by Hue-Angle Bin







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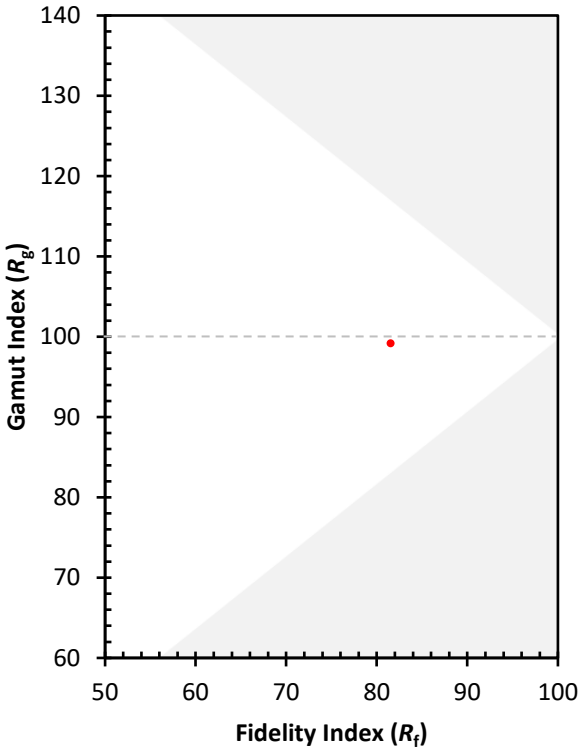
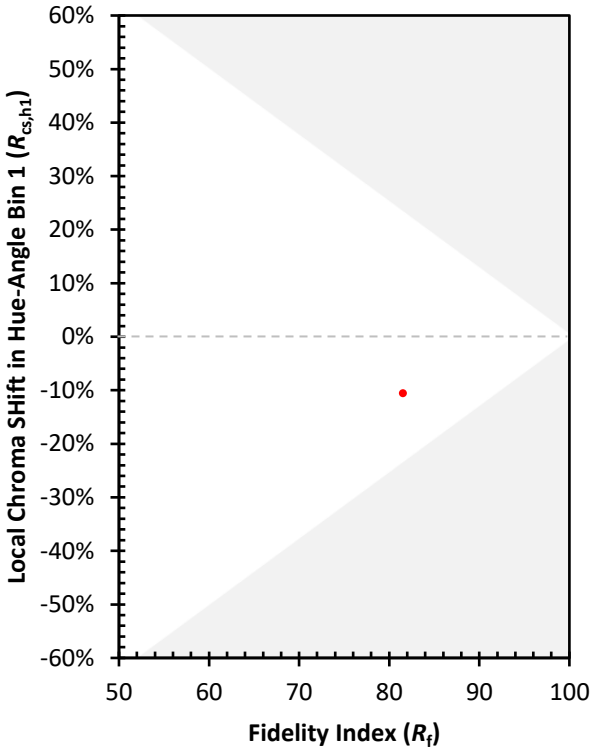
Measure Comparisons





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