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: P637501

Luminaire Tested: GWS-SA4C-830-U-T2-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:	P637501
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA4C-830-U-T2-W
Description:	GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source:	(64) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	15299.3 lumens
Efficiency:	N/A
Efficacy:	119.1 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B2 - U0 - G3

Input Watts (W):	128.5
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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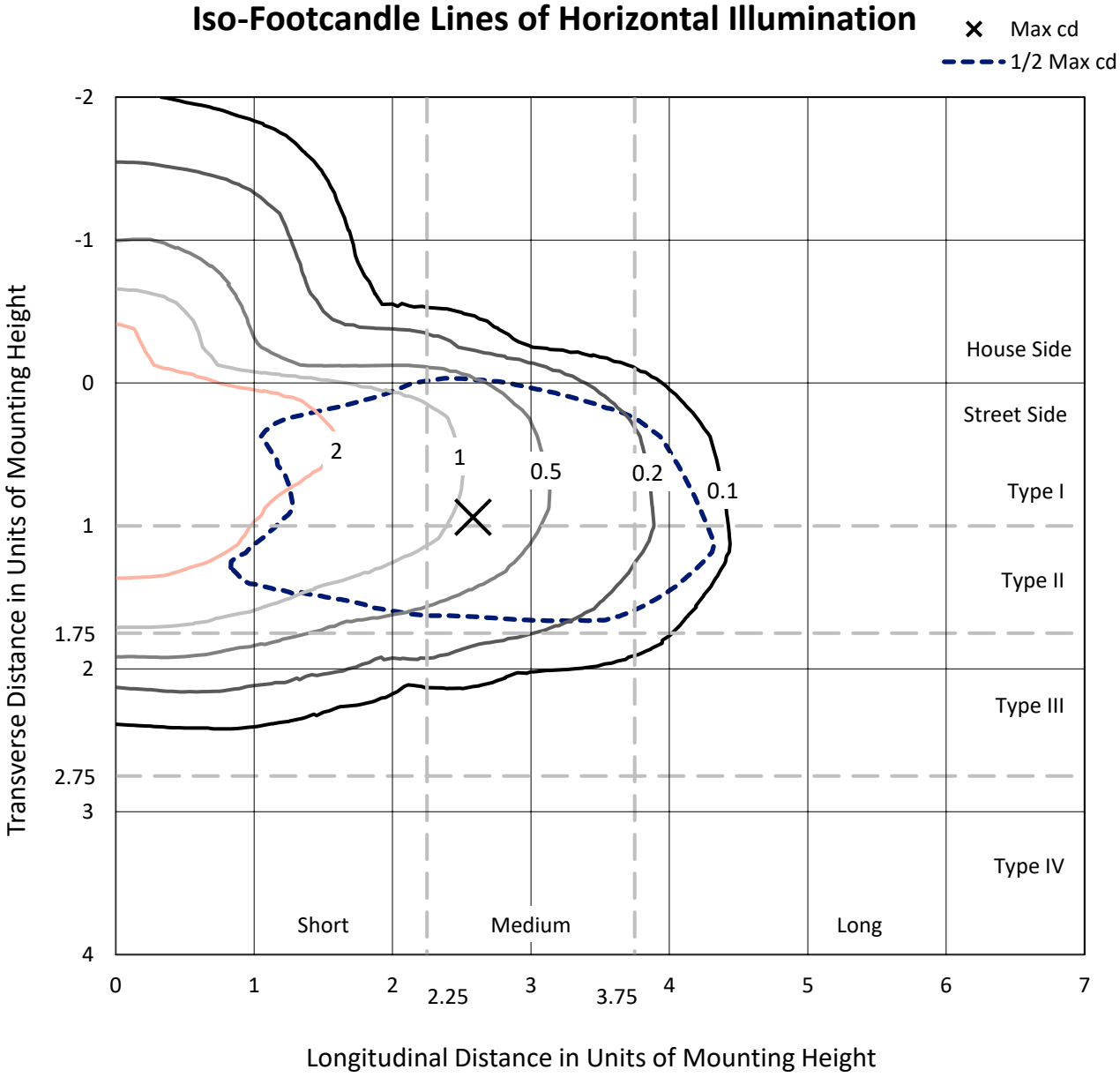
Scaled Data Report

REPORT NUMBER: P637501
CATALOG NUMBER: GWS-SA4C-830-U-T2-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
Type II - Medium - N/A

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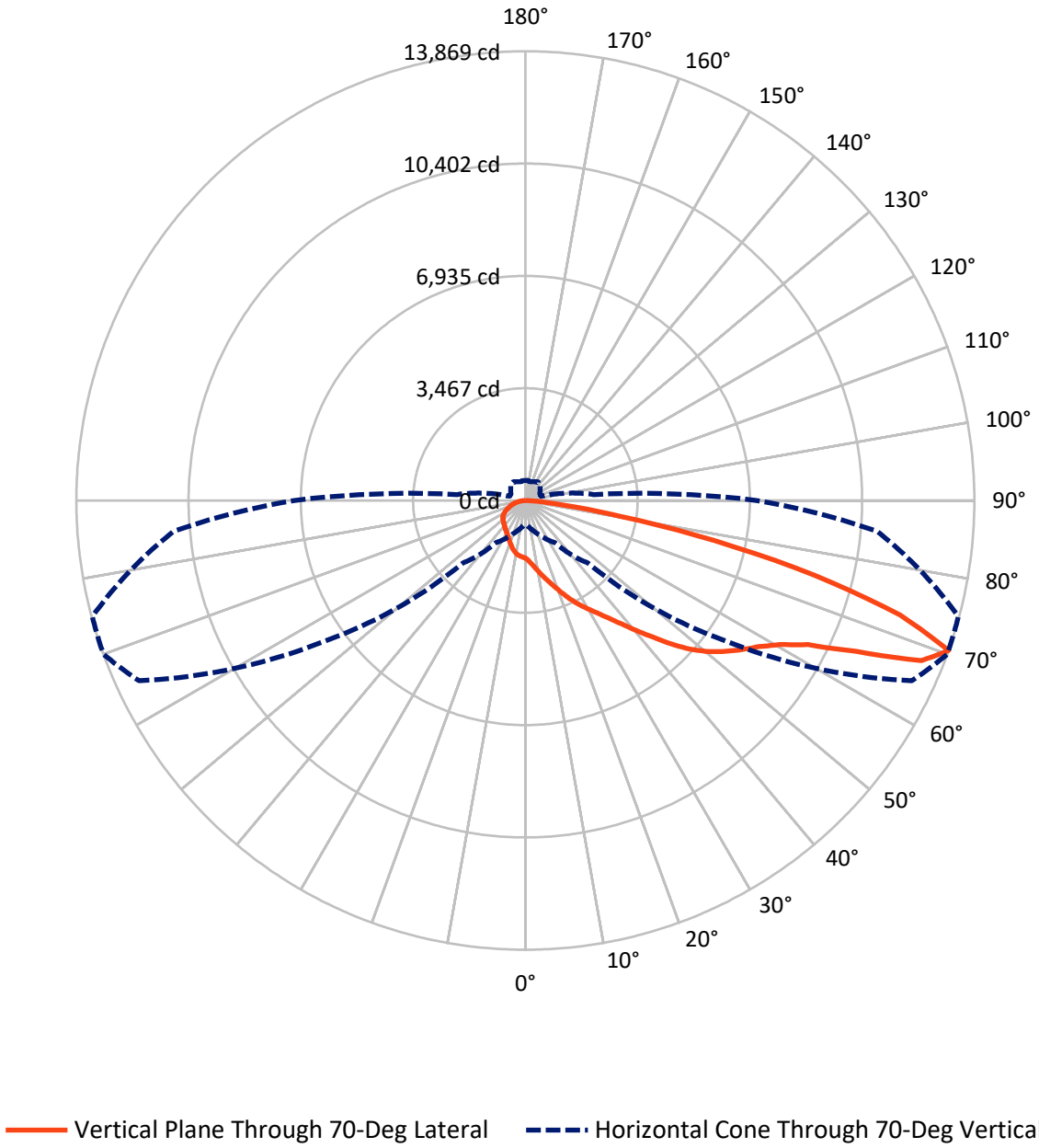
Luminous Intensity Polar Plot



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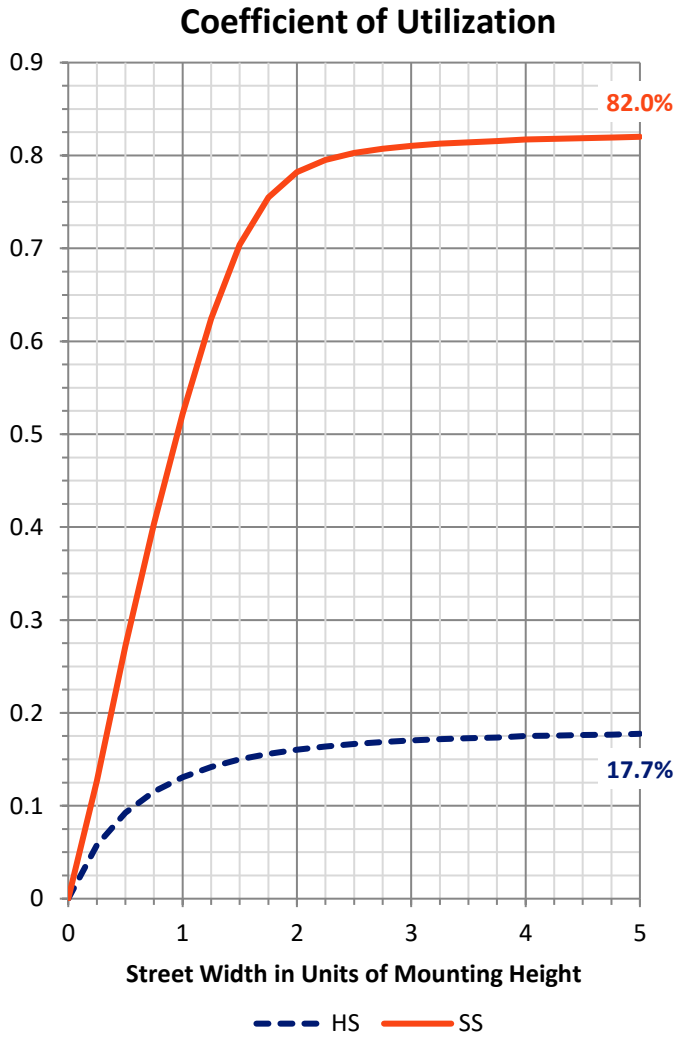
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2741.7	0.0	2741.7
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	12557.6	0.0	12557.6
	% Fixture	82.1	0.0	82.1
Total	Lumens	15299.3	0.0	15299.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.3	1.2
10°-20°	589.9	3.9
20°-30°	1045.1	6.8
30°-40°	1572.8	10.3
40°-50°	2379.5	15.6
50°-60°	3408.8	22.3
60°-70°	3768.0	24.6
70°-80°	2126.4	13.9
80°-90°	227.4	1.5
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°	15299.3	100.0
0°-180°	15299.3	100.0



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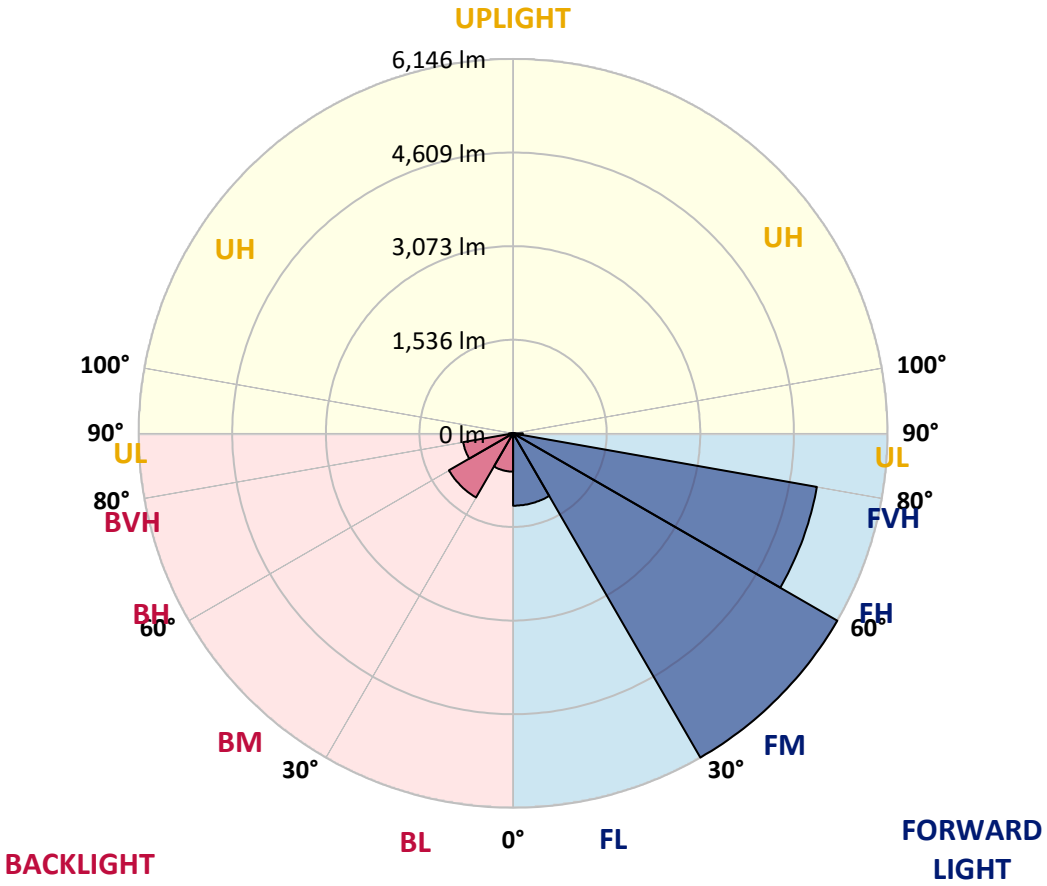
CATALOG NUMBER: GWS-SA4C-830-U-T2-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1187.7	7.8			
FM	(30°-60°)	6145.7	40.2			
FH	(60°-80°)	5063.4	33.1			G3/7500
FVH	(80°-90°)	160.8	1.1			G2/225
BL	(0°-30°)	628.6	4.1	B2/1000		
BM	(30°-60°)	1215.4	7.9	B2/2500		
BH	(60°-80°)	831.0	5.4	B2/1000		G2/1000
BVH	(80°-90°)	66.7	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
Type II Medium



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Scaled Data Report

REPORT NUMBER: P637501
CATALOG NUMBER: GWS-SA4C-830-U-T2-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1784.2	1784.2	1784.2	1784.2	1784.2	1784.2	1784.2	1784.2	*1784.2*	1784.2	1784.2
2.5°	1976.6	1973.2	1975.5	1973.2	1961.1	1931.2	1906.9	1876.0	*1855.0*	1842.8	1814.1
5°	2208.7	2205.4	2197.7	2186.6	2164.5	2123.6	2062.8	1995.4	*1954.5*	1923.5	1862.7
7.5°	2375.6	2375.6	2374.5	2361.3	2345.8	2302.7	2230.8	2142.4	*2082.7*	2029.6	1930.1
10°	2460.8	2466.3	2474.0	2492.8	2489.5	2466.3	2398.9	2303.8	*2228.6*	2166.7	2018.6
12.5°	2507.2	2510.5	2523.8	2562.5	2602.3	2607.8	2568.0	2468.5	*2386.7*	2303.8	2117.0
15°	2566.9	2568.0	2585.7	2632.1	2690.7	2749.3	2739.3	2639.8	*2555.8*	2464.1	2226.4
17.5°	2613.3	2621.0	2653.1	2707.3	2780.2	2860.9	2909.6	2847.7	*2743.8*	2638.7	2345.8
20°	2629.9	2635.4	2677.4	2760.3	2859.8	2973.7	3082.0	3065.4	*2960.4*	2836.6	2480.7
22.5°	2689.6	2689.6	2720.5	2790.2	2907.4	3073.2	3249.0	3292.1	*3199.2*	3054.4	2625.5
25°	2821.1	2816.7	2831.1	2859.8	2948.3	3152.8	3413.7	3543.0	*3439.1*	3276.6	2770.3
27.5°	3001.3	2999.1	2998.0	3002.4	3032.3	3222.4	3553.0	3777.4	*3673.4*	3489.9	2899.6
30°	3197.0	3190.4	3204.7	3191.5	3184.8	3305.3	3671.2	3987.4	*3906.7*	3701.1	3006.9
32.5°	3463.4	3451.3	3447.9	3404.8	3378.3	3434.7	3766.3	4226.2	*4162.1*	3928.8	3127.4
35°	3814.9	3803.9	3747.5	3679.0	3600.5	3627.0	3884.6	4459.4	*4463.9*	4214.0	3285.4
37.5°	4169.8	4172.0	4127.8	3966.4	3885.7	3870.2	4064.8	4743.5	*4838.6*	4554.5	3489.9
40°	4465.0	4478.2	4478.2	4308.0	4187.5	4173.1	4317.9	5080.7	*5269.7*	4972.4	3748.6
42.5°	4689.4	4701.5	4740.2	4617.5	4490.4	4540.1	4625.3	5419.0	*5758.4*	5488.6	4075.8
45°	4935.9	4945.8	4966.8	4896.1	4822.0	4954.7	4973.5	5823.6	*6317.7*	6067.9	4456.1
47.5°	5263.1	5254.3	5256.5	5204.5	5147.0	5361.5	5357.1	6164.1	*6858.3*	6702.4	4868.5
50°	5669.9	5686.5	5671.0	5568.2	5500.8	5696.4	5721.9	6541.0	*7333.6*	7330.3	5284.1
52.5°	6061.2	6067.9	6149.7	6154.1	6015.9	5975.0	6041.3	6921.3	*7734.9*	7905.2	5683.2
55°	6081.1	6106.6	6352.0	6528.9	6752.2	6423.8	6364.1	7283.9	*8122.9*	8467.8	6097.7
57.5°	5657.8	5698.7	6115.4	6496.8	7118.1	7194.3	6916.9	7752.6	*8510.9*	9021.7	6577.5
60°	4753.5	4838.6	5404.6	5988.3	6953.4	7748.2	8047.8	8389.3	*9020.6*	9587.7	7160.1
62.5°	3035.6	3068.8	3862.5	4839.7	6211.6	7694.0	9279.2	9511.4	*9796.6*	10325.0	8057.7
65°	1520.0	1626.1	2091.5	2888.6	4479.3	6779.8	9901.6	11566.4	*11217.1*	11587.4	9512.5
67.5°	1031.4	1065.7	1301.1	1735.6	2626.6	4803.2	9515.8	13297.6	*13194.8*	13255.6	11063.5
70°	*760.6*	*782.7*	*968.4*	*1229.3*	*1588.5*	*2727.2*	*7575.7*	*13167.2*	*13869.1*	*13847.0*	*10901.0*
72.5°	554.9	566.0	706.4	938.5	1177.3	1410.6	4626.4	10636.8	*12107.0*	12744.9	9533.5
75°	403.5	416.8	490.8	702.0	915.3	879.9	2283.9	7683.0	*9232.8*	10459.9	7767.0
77.5°	300.7	317.3	351.5	440.0	641.2	630.1	987.2	4988.9	*5971.7*	6831.8	4718.1
80°	216.7	220.0	239.9	281.9	406.8	369.2	469.8	2601.2	*2982.5*	3267.7	1849.4
82.5°	131.5	134.9	160.3	173.6	252.0	232.1	244.3	842.4	*1207.2*	1281.2	690.9
85°	38.7	40.9	73.0	79.6	105.0	99.5	98.4	342.7	*409.0*	522.9	271.9
87.5°	0.0	0.0	0.0	0.0	1.1	6.6	12.2	60.8	*91.8*	127.1	66.3
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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REPORT NUMBER: P637501
CATALOG NUMBER: GWS-SA4C-830-U-T2-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1784.2	1784.2	1784.2	1784.2	1784.2	1784.2	1784.2	1784.2	1784.2	1784.2	1784.2
2.5°	1803.0	1777.6	1764.3	1741.1	1724.5	1707.9	1691.4	1675.9	1669.2	1659.3	1661.5
5°	1835.1	1795.3	1755.5	1710.1	1671.5	1639.4	1610.7	1585.2	1574.2	1564.2	1568.7
7.5°	1883.7	1824.0	1747.7	1664.8	1604.0	1559.8	1530.0	1512.3	1506.7	1499.0	1499.0
10°	1945.6	1856.1	1722.3	1604.0	1531.1	1495.7	1482.4	1481.3	1486.8	1488.0	1485.7
12.5°	2014.2	1887.0	1684.7	1532.2	1470.3	1459.2	1469.2	1488.0	1506.7	1516.7	1514.5
15°	2084.9	1906.9	1620.6	1463.6	1426.0	1440.4	1472.5	1510.1	1546.5	1565.3	1564.2
17.5°	2151.2	1911.3	1537.7	1397.3	1387.4	1423.8	1479.1	1537.7	1587.4	1614.0	1615.1
20°	2225.3	1903.6	1452.6	1337.6	1348.7	1408.4	1481.3	1552.1	1610.7	1637.2	1643.8
22.5°	2292.7	1877.1	1369.7	1281.2	1315.5	1389.6	1463.6	1530.0	1581.9	1607.3	1616.2
25°	2353.5	1826.2	1279.0	1233.7	1290.1	1363.0	1419.4	1465.8	1502.3	1517.8	1530.0
27.5°	2386.7	1749.9	1210.5	1196.1	1265.8	1325.4	1356.4	1370.8	1382.9	1378.5	1387.4
30°	2393.3	1654.9	1150.8	1166.3	1229.3	1273.5	1280.1	1265.8	1244.7	1210.5	1218.2
32.5°	2386.7	1545.4	1101.0	1134.2	1188.4	1214.9	1206.1	1168.5	1117.6	1064.6	1067.9
35°	2388.9	1434.9	1060.1	1098.8	1140.8	1155.2	1133.1	1081.1	1027.0	978.3	976.1
37.5°	2413.2	1342.0	1025.9	1064.6	1094.4	1096.6	1072.3	1018.1	990.5	954.0	949.6
40°	2480.7	1273.5	994.9	1030.3	1049.1	1048.0	1020.3	981.6	1000.4	988.3	985.0
42.5°	2591.2	1231.5	969.5	993.8	1007.1	1009.3	987.2	962.9	1003.8	988.3	982.8
45°	2769.2	1229.3	951.8	957.3	978.3	993.8	978.3	950.7	966.2	891.0	876.6
47.5°	2980.3	1266.9	938.5	925.3	961.8	989.4	965.1	920.8	888.8	820.3	810.3
50°	3234.6	1343.1	926.4	891.0	937.4	972.8	948.5	887.7	839.0	802.6	797.0
52.5°	3536.4	1443.7	910.9	852.3	901.0	964.0	948.5	884.4	820.3	787.1	781.6
55°	3852.5	1559.8	893.2	805.9	860.0	966.2	956.2	861.2	805.9	788.2	783.8
57.5°	4245.0	1699.1	861.2	751.7	823.6	946.3	925.3	847.9	795.9	781.6	777.1
60°	4754.6	1905.8	800.4	696.4	781.6	910.9	897.6	825.8	769.4	757.2	753.9
62.5°	5561.6	2256.2	726.3	643.4	731.8	836.8	856.7	783.8	736.2	735.1	734.0
65°	6877.1	2677.4	639.0	595.8	679.9	776.0	802.6	740.7	702.0	714.1	713.0
67.5°	7799.0	2713.9	567.1	546.1	619.1	709.7	748.4	696.4	654.4	677.6	676.5
70°	*7143.5*	*2117.0*	*505.2*	*494.1*	*553.8*	*637.9*	*689.8*	*641.2*	*599.2*	*621.3*	*616.8*
72.5°	6024.8	1622.8	446.6	440.0	487.5	562.7	614.6	585.9	541.7	541.7	531.7
75°	4841.9	1338.7	384.7	381.4	413.4	486.4	545.0	496.4	455.5	453.2	446.6
77.5°	2776.9	877.7	322.8	320.6	330.5	406.8	423.4	413.4	382.5	368.1	363.7
80°	1106.6	456.6	254.3	239.9	249.8	298.5	333.8	317.3	290.7	273.0	263.1
82.5°	428.9	228.8	179.1	157.0	171.3	215.6	242.1	236.6	218.9	179.1	168.0
85°	174.7	111.7	107.2	90.6	99.5	116.1	139.3	120.5	99.5	70.7	67.4
87.5°	46.4	40.9	39.8	24.3	18.8	5.5	1.1	0.0	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

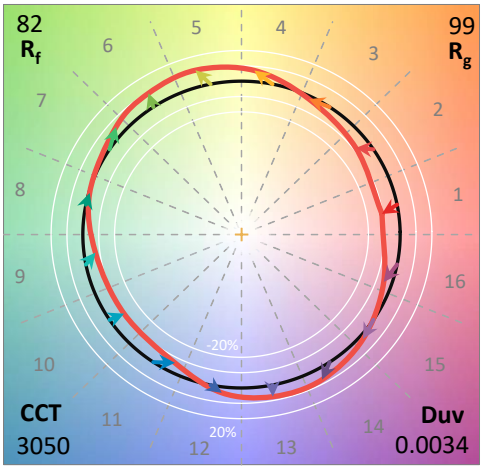
Test Information

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

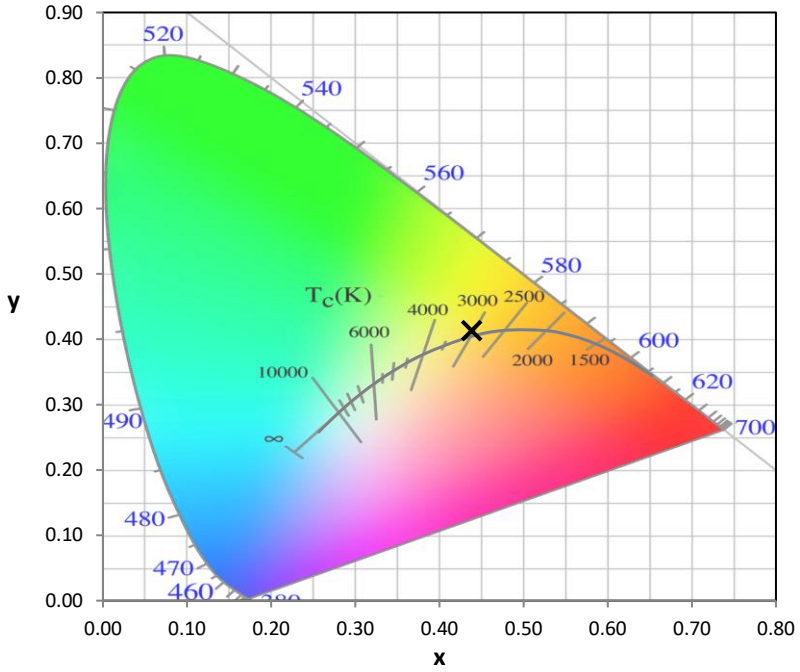
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

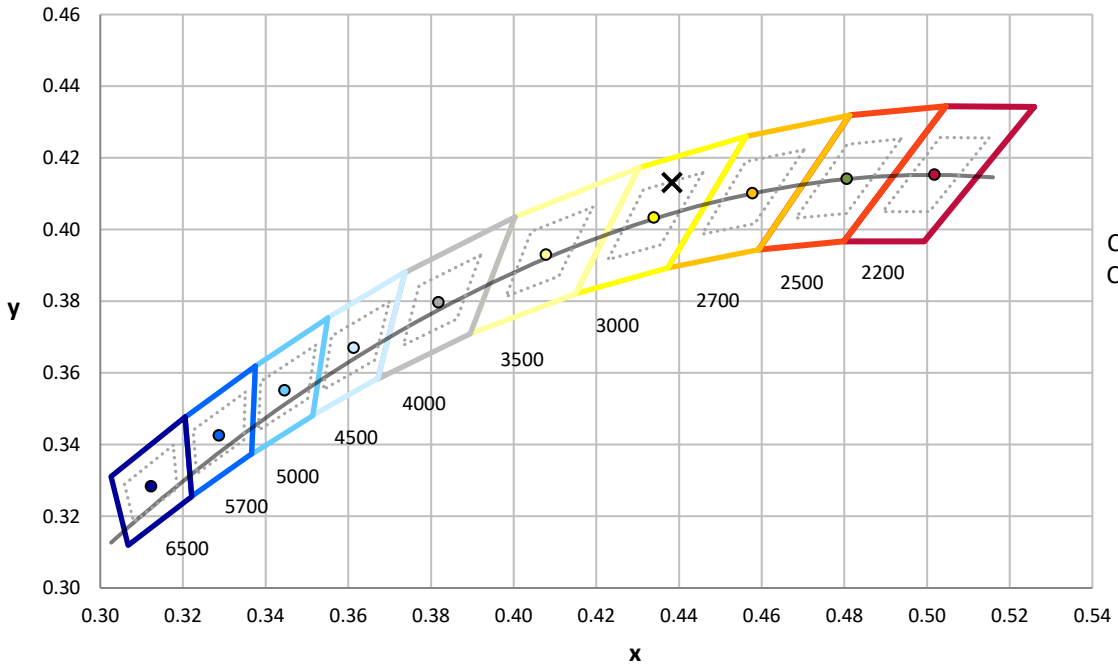
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

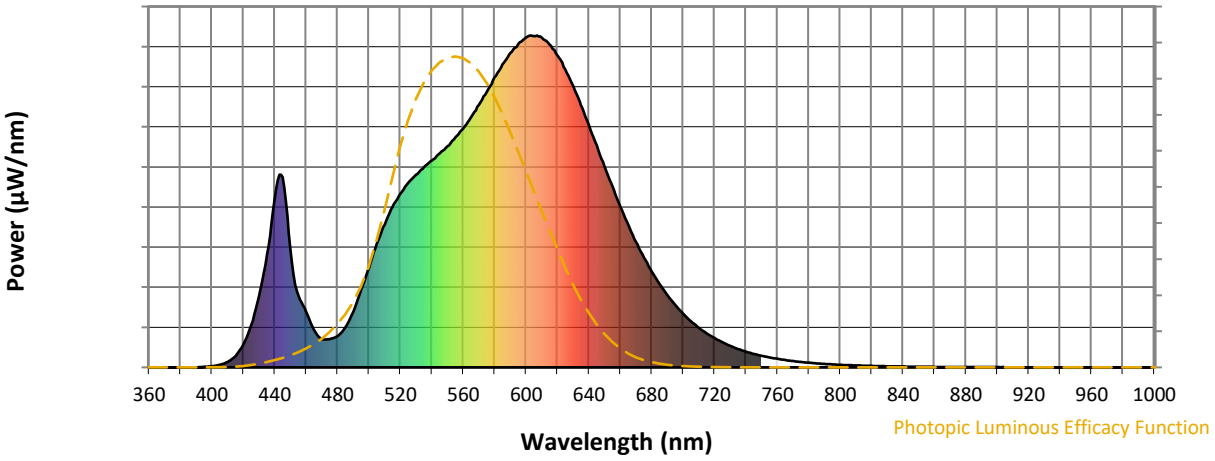


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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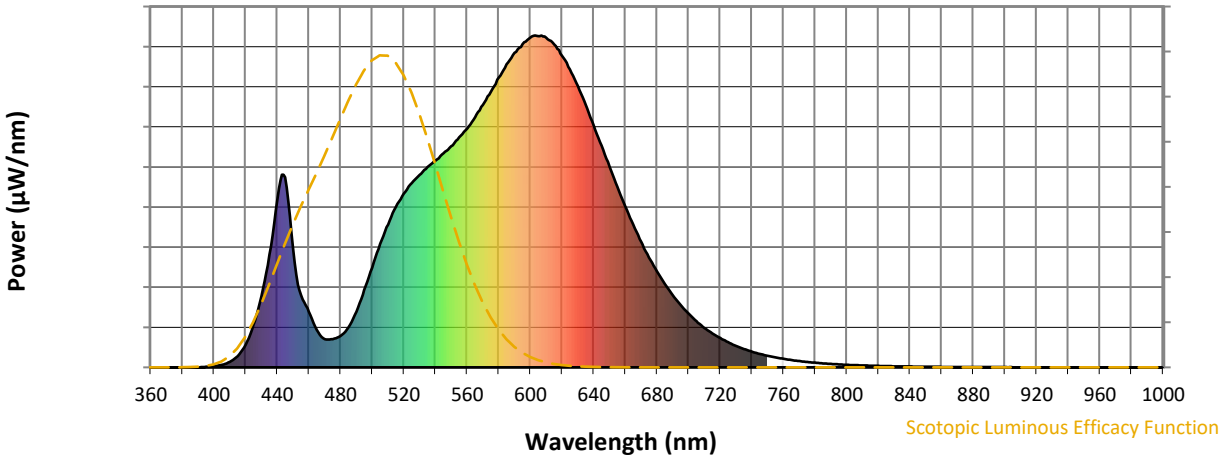
Scotopic Flux vs. Wavelength



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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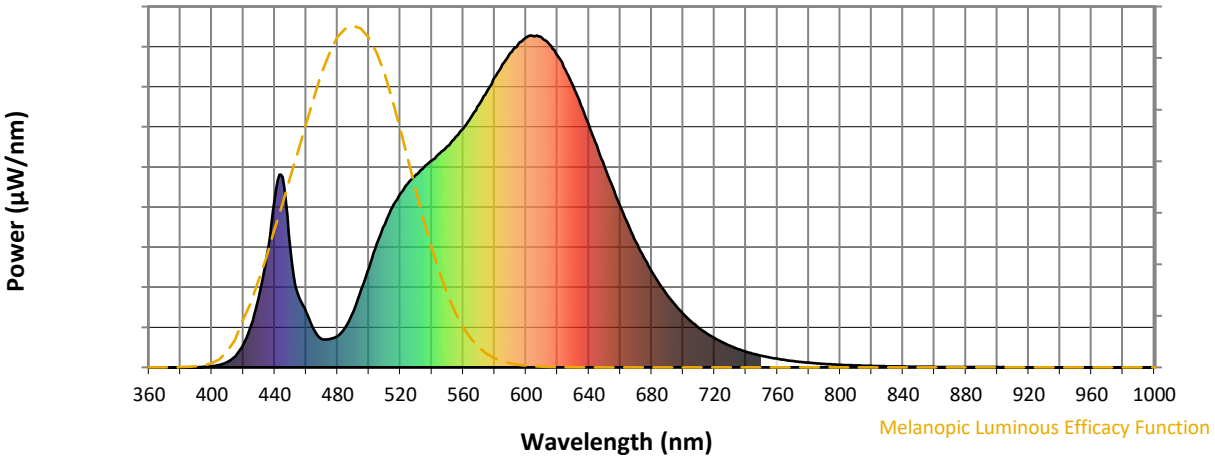
Melanopic Flux vs. Wavelength



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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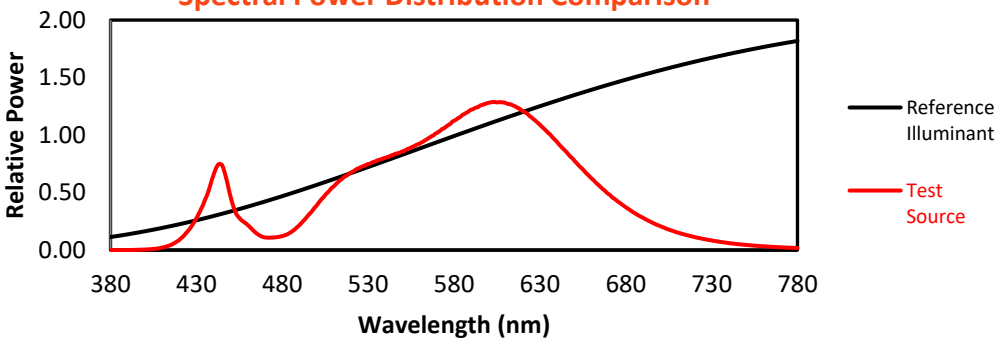
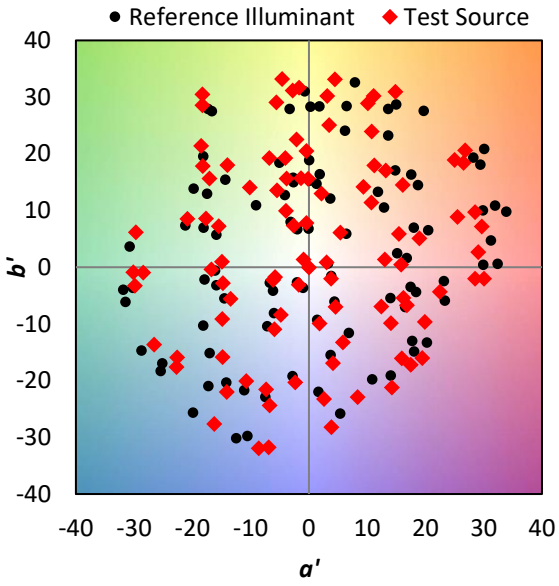
Summary

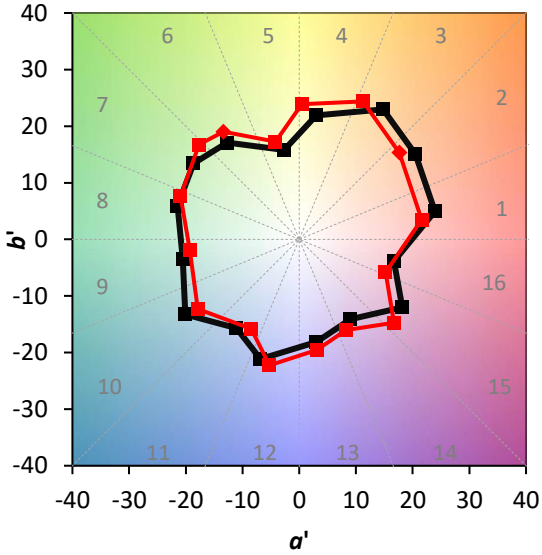
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

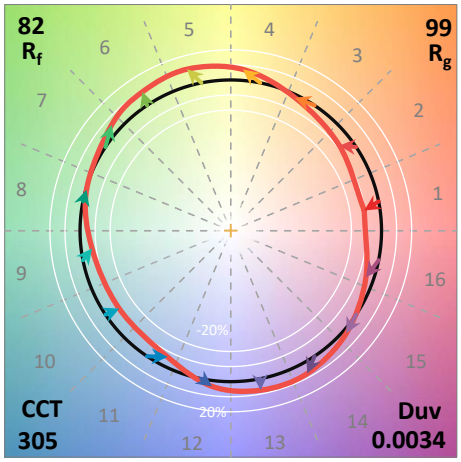
Spectral Power Distribution Comparison

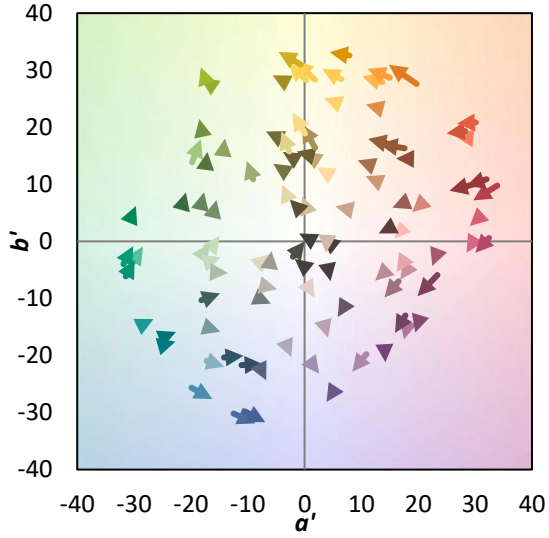


Color Vector Graphics









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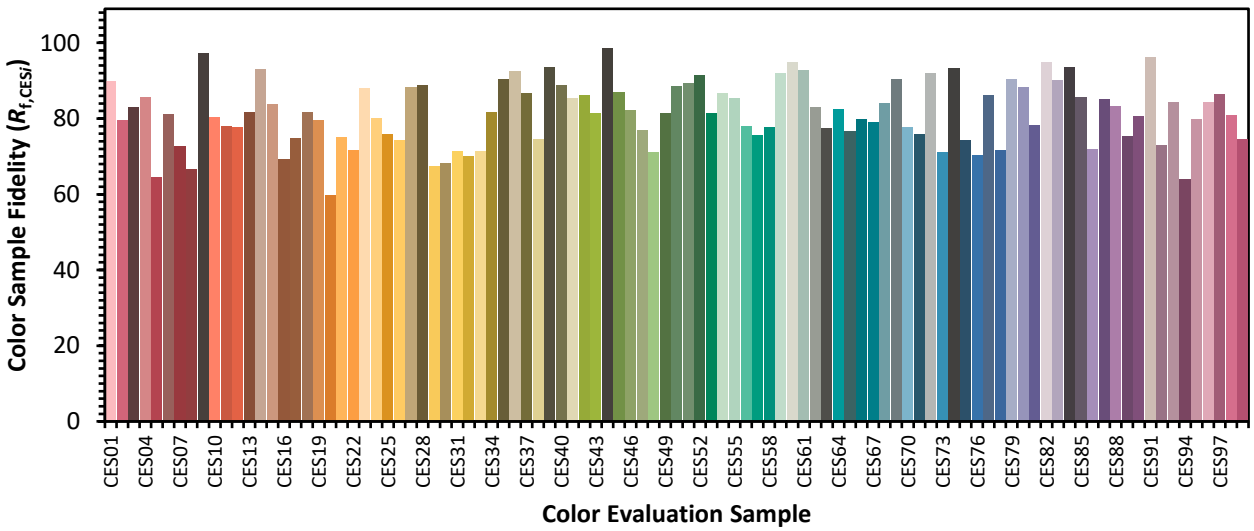
Individual Sample Fidelity Index ($R_{f,i}$)

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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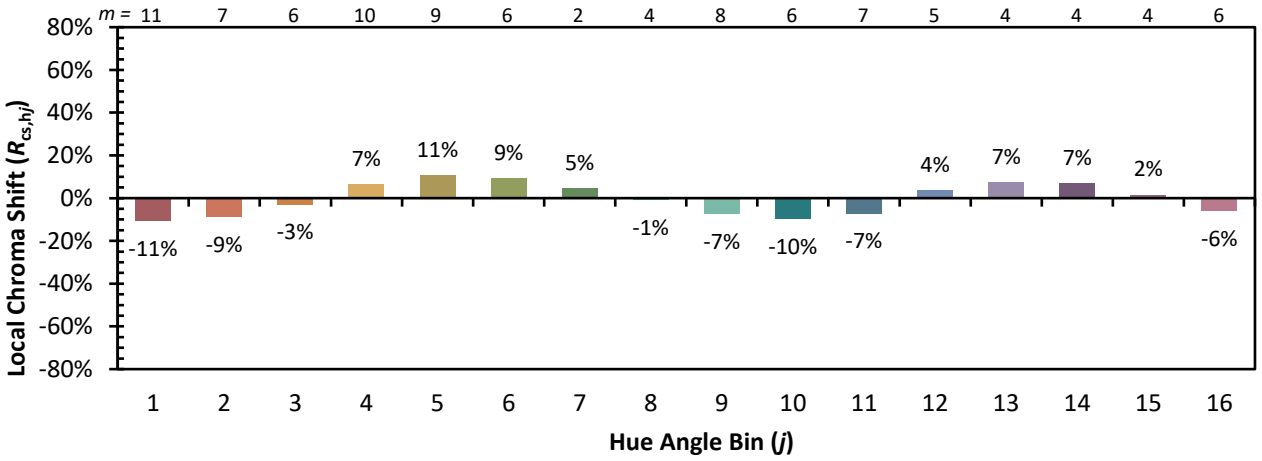
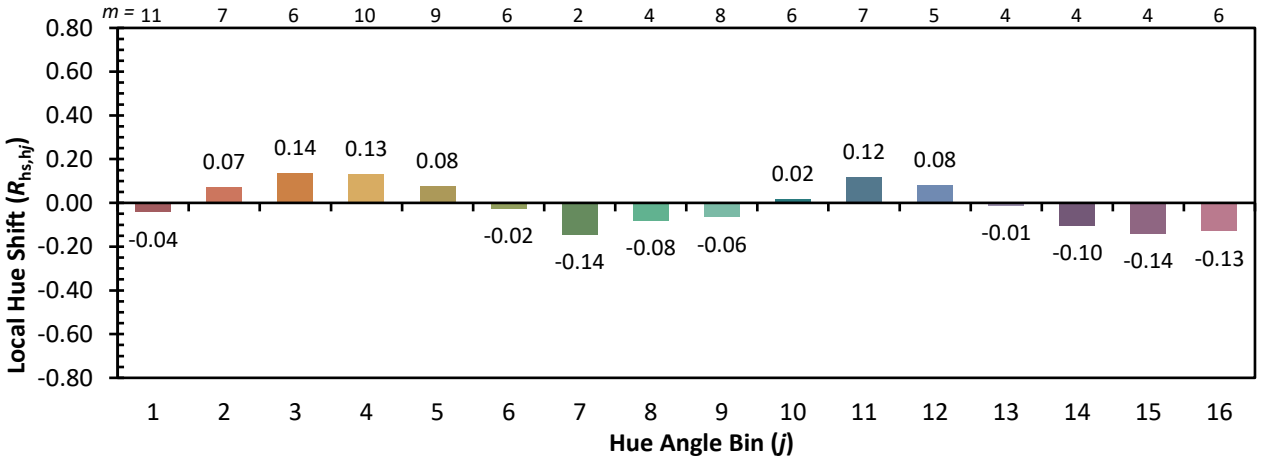
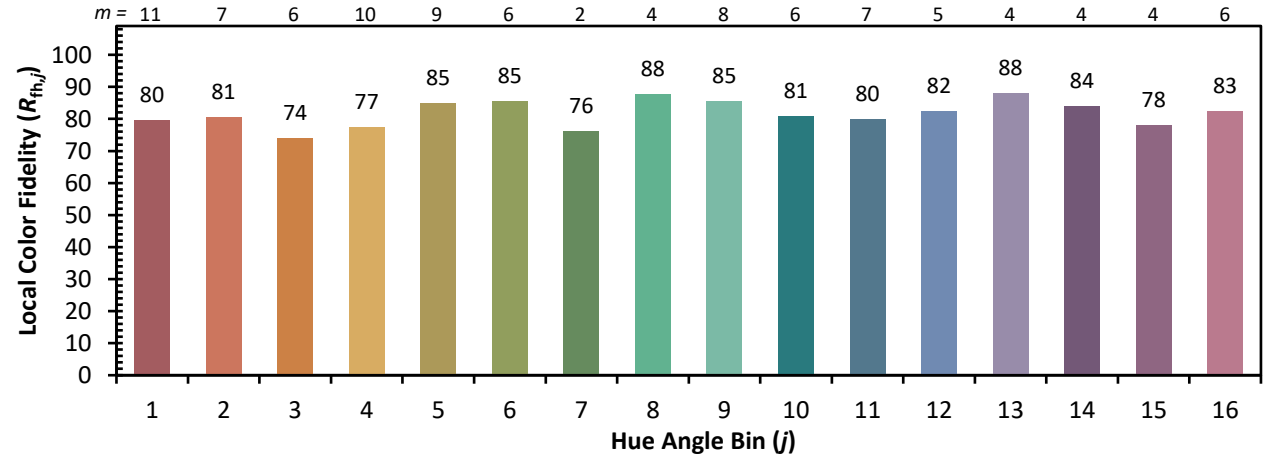
Color Rendition by Hue-Angle Bin







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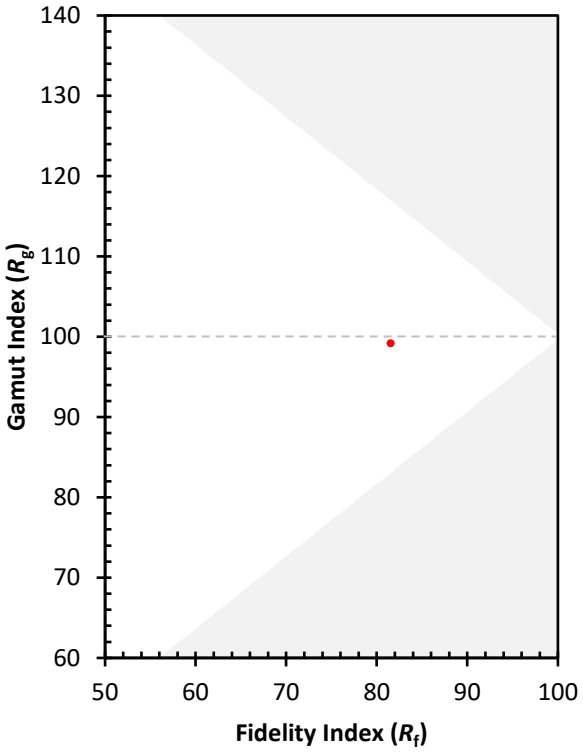
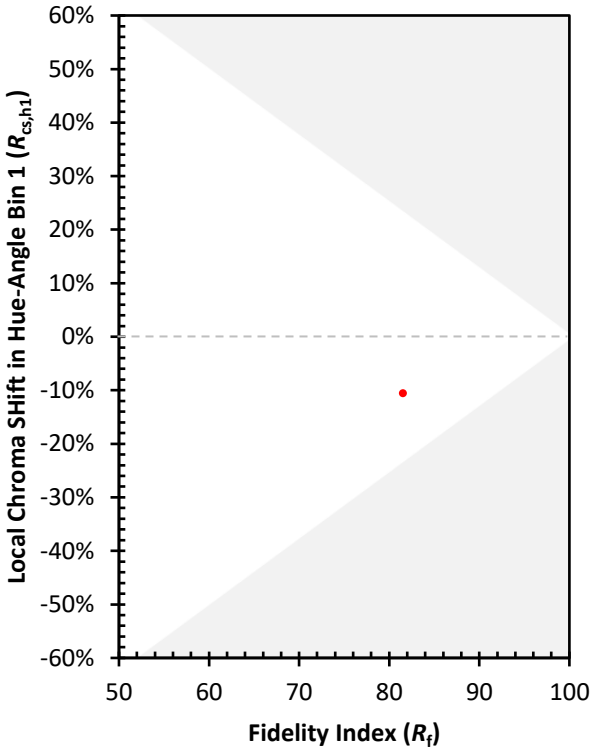
Measure Comparisons





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