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: P639979

Luminaire Tested: GWS-SA5C-830-U-T2R-W-HSS

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:	P639979
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA5C-830-U-T2R-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(80) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	15255.7 lumens
Efficiency:	N/A
Efficacy:	96.9 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	157.5
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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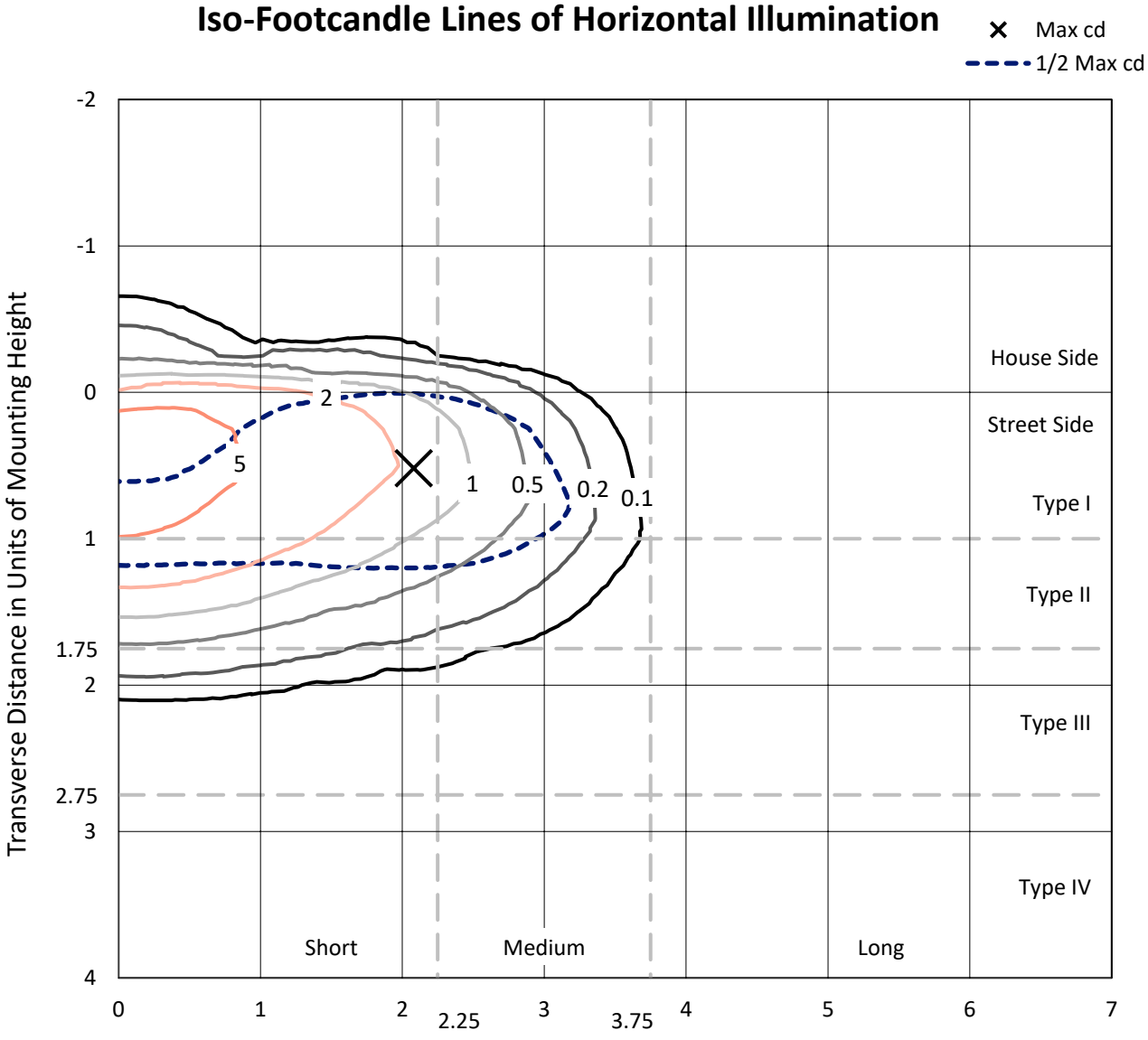
Scaled Data Report

REPORT NUMBER: P639979
CATALOG NUMBER: GWS-SA5C-830-U-T2R-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
Type II - Short - N/A

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REPORT NUMBER: P639979
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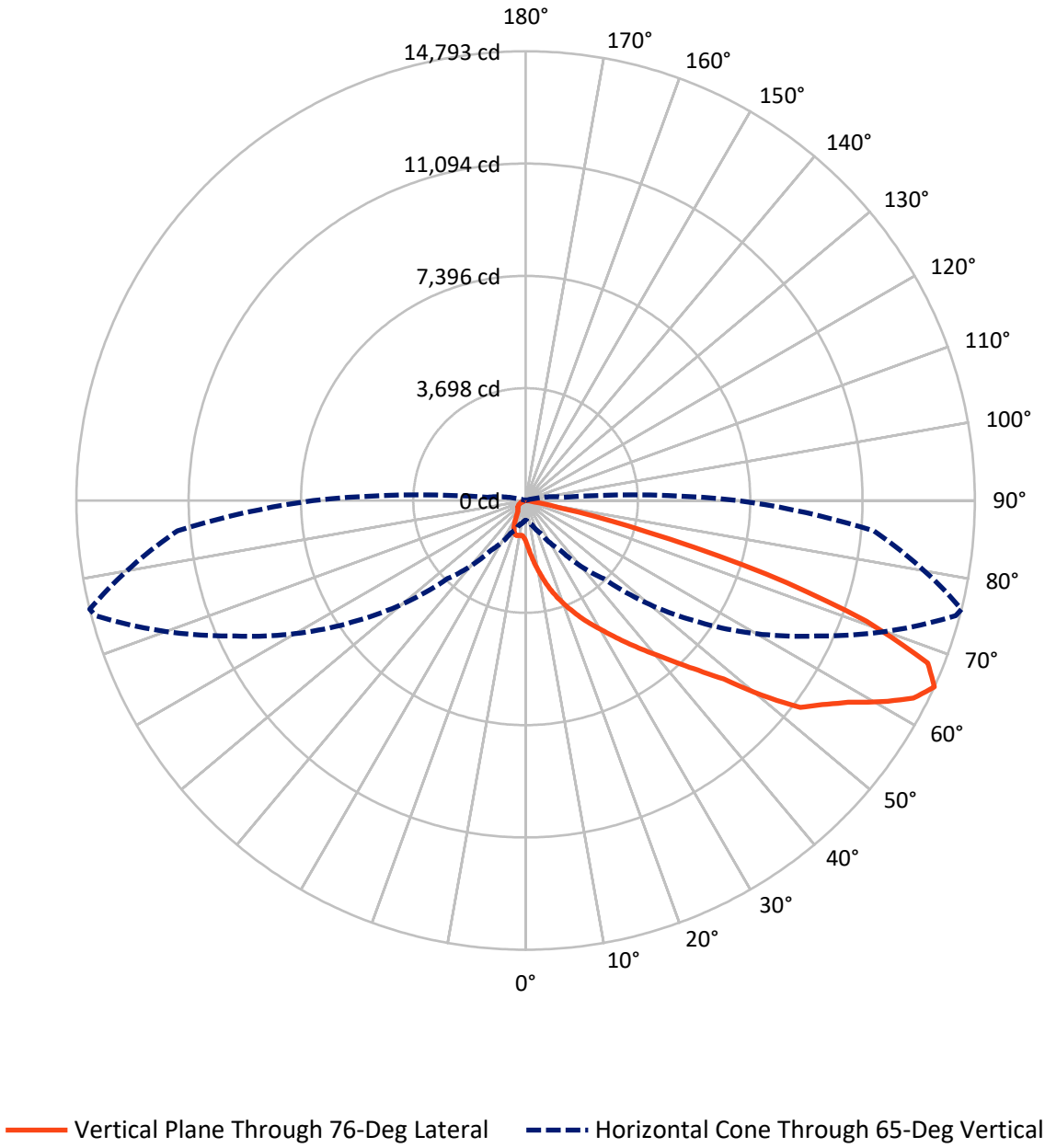
Luminous Intensity Polar Plot



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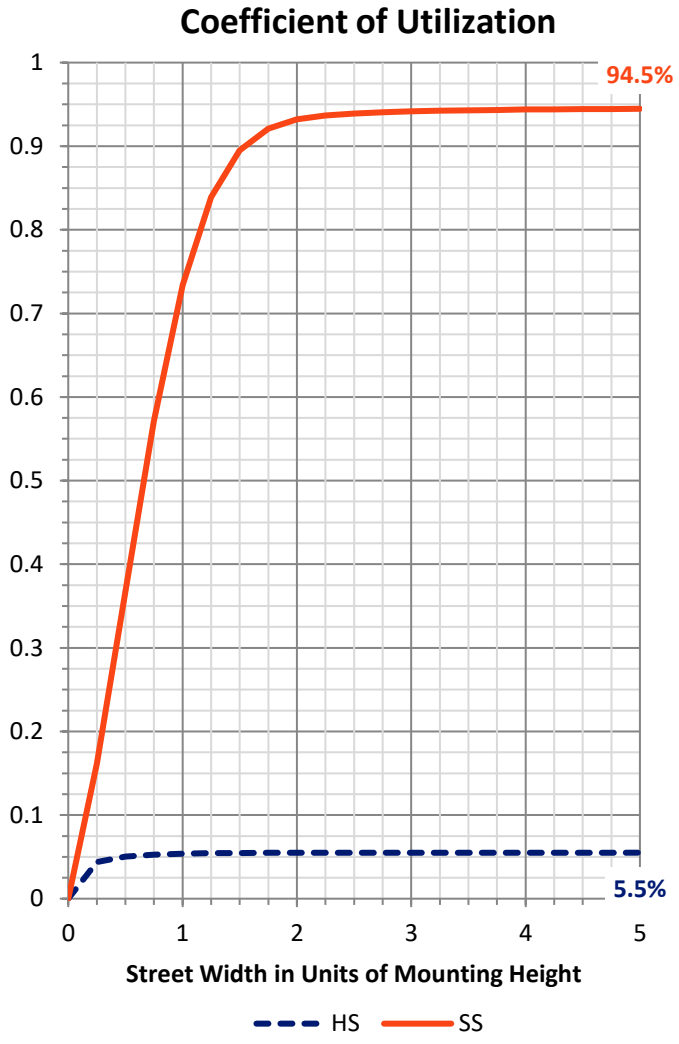
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	843.6	0.0	843.6
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	14412.2	0.0	14412.2
	% Fixture	94.5	0.0	94.5
Total	Lumens	15255.7	0.0	15255.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.3	1.1
10°-20°	623.5	4.1
20°-30°	1272.0	8.3
30°-40°	2262.4	14.8
40°-50°	3344.3	21.9
50°-60°	3829.0	25.1
60°-70°	2921.3	19.1
70°-80°	818.3	5.4
80°-90°	20.6	0.1
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°	15255.7	100.0
0°-180°	15255.7	100.0



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REPORT NUMBER: P639979
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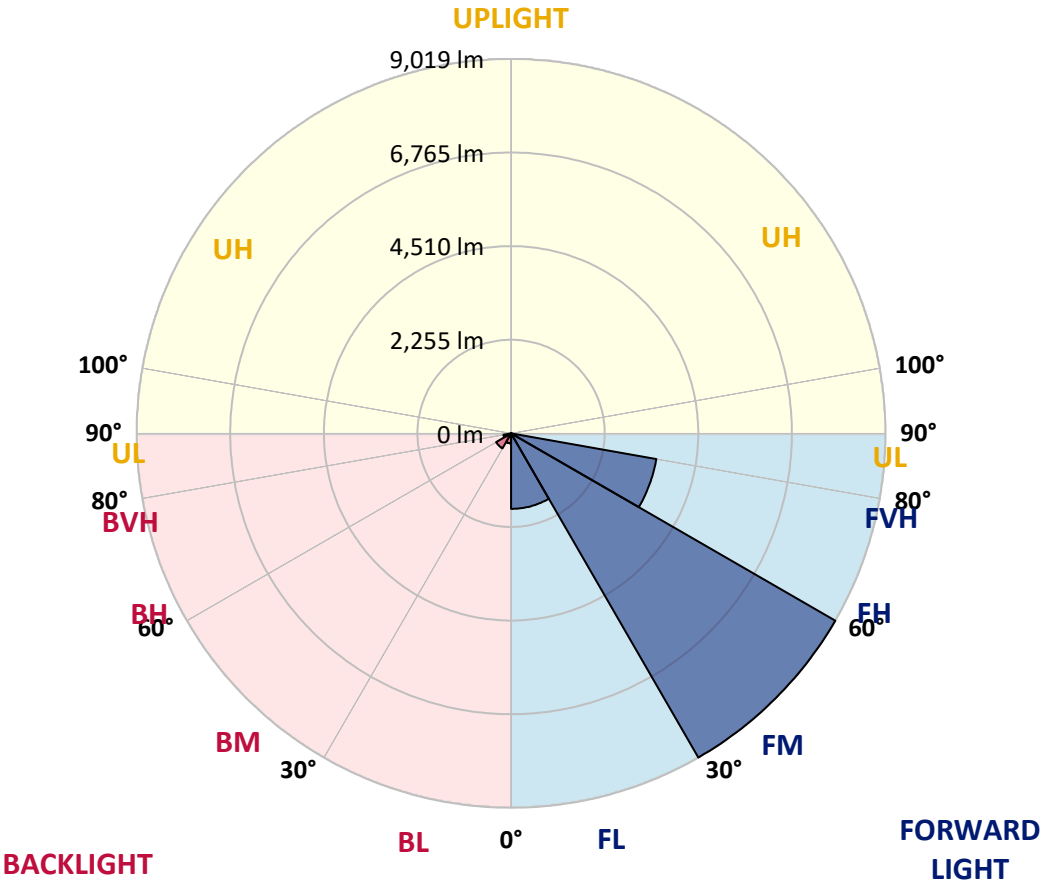
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1819.1	11.9			
FM	(30°-60°)	9019.4	59.1			
FH	(60°-80°)	3554.2	23.3			G2/5000
FVH	(80°-90°)	19.4	0.1			G1/100
BL	(0°-30°)	240.7	1.6	B1/500		
BM	(30°-60°)	416.2	2.7	B1/1000		
BH	(60°-80°)	185.4	1.2	B1/500		G1/500
BVH	(80°-90°)	1.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type II Short



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Scaled Data Report

REPORT NUMBER: P639979
CATALOG NUMBER: GWS-SA5C-830-U-T2R-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1350.7	1350.7	1350.7	1350.7	1350.7	1350.7	1350.7	1350.7	1350.7	*1350.7*	1350.7
2.5°	2081.6	2112.8	2088.4	2047.7	1969.1	1893.1	1795.5	1661.2	1554.1	*1540.5*	1440.2
5°	2811.2	2808.5	2755.6	2702.7	2620.0	2489.8	2293.2	2043.7	1803.6	*1783.3*	1558.2
7.5°	3245.2	3249.2	3219.4	3178.7	3097.4	2963.1	2758.3	2457.3	2106.0	*2065.4*	1719.5
10°	3610.0	3608.6	3586.9	3567.9	3494.7	3405.2	3185.5	2854.6	2431.5	*2367.8*	1899.9
12.5°	3883.9	3893.4	3904.2	3923.2	3892.0	3803.9	3596.4	3235.7	2761.0	*2690.5*	2106.0
15°	4100.9	4103.6	4144.3	4217.5	4243.3	4197.2	4008.7	3604.5	3086.5	*3025.5*	2343.4
17.5°	4166.0	4171.4	4240.6	4374.8	4510.4	4536.2	4393.8	3976.1	3406.5	*3341.5*	2573.9
20°	4302.9	4315.1	4366.7	4484.7	4655.5	4793.9	4738.2	4351.8	3726.6	*3641.2*	2809.9
22.5°	4734.2	4741.0	4723.3	4738.2	4826.4	4986.4	5020.3	4715.2	4054.8	*3963.9*	3064.8
25°	5476.0	5478.7	5355.3	5238.7	5172.2	5202.0	5276.6	5050.2	4380.2	*4290.7*	3302.1
27.5°	6246.2	6255.7	6107.9	5909.9	5672.6	5537.0	5515.3	5356.6	4708.4	*4609.4*	3536.7
30°	6971.8	6971.8	6815.8	6574.4	6257.1	5992.7	5836.7	5665.8	5059.6	*4951.2*	3776.8
32.5°	7624.1	7618.6	7419.3	7157.6	6844.3	6554.1	6225.9	5988.6	5450.2	*5329.5*	4053.4
35°	8162.4	8148.9	7922.4	7671.5	7336.6	7120.9	6754.8	6335.7	5873.3	*5752.6*	4338.2
37.5°	8569.3	8554.3	8346.9	8081.1	7770.5	7630.8	7324.4	6752.1	6319.5	*6209.6*	4654.2
40°	8790.3	8760.5	8616.7	8418.7	8158.4	8036.3	7908.8	7268.8	6844.3	*6707.3*	5027.1
42.5°	8855.4	8820.1	8725.2	8633.0	8475.7	8379.4	8516.4	7851.9	7420.6	*7302.7*	5452.9
45°	8662.8	8642.5	8634.4	8700.8	8729.3	8756.4	9094.1	8497.4	8056.7	*7967.1*	5988.6
47.5°	8199.0	8193.6	8265.5	8542.1	8843.2	9129.3	9722.0	9293.4	8881.2	*8784.9*	6737.2
50°	7342.0	7397.6	7598.3	8083.8	8685.9	9340.9	10309.2	10397.3	10215.6	*10074.5*	7713.6
52.5°	6002.1	6109.3	6559.5	7297.2	8162.4	9281.2	10580.4	11281.5	11467.3	*11320.8*	8413.3
55°	4709.8	4810.1	5211.5	6147.2	7301.3	8826.9	10592.6	11586.6	11992.1	*11856.5*	8886.6
57.5°	3508.3	3600.5	3965.3	4860.3	6129.6	7933.2	10302.4	11756.1	12614.5	*12527.7*	9633.8
60°	2293.2	2384.0	2713.6	3496.1	4754.5	6631.4	9587.7	11720.9	13462.1	*13454.0*	10551.9
62.5°	1272.0	1343.9	1582.6	2192.8	3318.4	5135.6	8464.8	11366.9	14282.6	*14334.1*	11308.6
65°	*650.9*	*697.0*	*842.1*	*1205.6*	*2008.4*	*3641.2*	*6988.0*	*10556.0*	*14662.3*	*14792.5*	*11508.0*
67.5°	425.8	440.7	476.0	626.5	1075.4	2290.5	5259.0	9255.5	14128.0	*14279.8*	10839.4
70°	345.8	358.0	378.4	417.7	554.6	1216.4	3454.0	7392.2	11804.9	*11908.0*	8631.6
72.5°	253.6	269.9	309.2	335.0	400.1	667.2	1796.8	4852.2	8106.8	*8288.5*	5424.4
75°	187.1	196.6	229.2	264.4	326.8	421.8	687.5	2550.8	4186.3	*4080.5*	2278.3
77.5°	112.6	119.3	146.5	169.5	233.3	263.1	240.0	942.5	1273.4	*1197.4*	550.6
80°	55.6	62.4	96.3	127.5	149.2	105.8	100.4	263.1	283.4	*283.4*	138.3
82.5°	19.0	24.4	51.5	84.1	73.2	40.7	47.5	67.8	75.9	*80.0*	40.7
85°	0.0	0.0	12.2	24.4	10.8	5.4	12.2	14.9	19.0	*20.3*	13.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.1	*5.4*	5.4
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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CATALOG NUMBER: GWS-SA5C-830-U-T2R-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1350.7	1350.7	1350.7	1350.7	1350.7	1350.7	1350.7	1350.7	1350.7	1350.7	1350.7
2.5°	1385.9	1322.2	1225.9	1139.1	1072.7	1010.3	962.8	924.9	918.1	896.4	899.1
5°	1448.3	1333.1	1155.4	1018.4	922.2	857.1	802.8	762.1	744.5	726.9	713.3
7.5°	1544.6	1377.8	1128.3	961.5	848.9	748.6	664.5	596.7	564.1	543.8	530.2
10°	1662.6	1440.2	1129.6	927.6	760.8	607.5	492.3	417.7	382.4	371.6	370.2
12.5°	1803.6	1518.8	1140.5	872.0	633.3	451.6	364.8	330.9	320.0	310.5	310.5
15°	1952.8	1607.0	1140.5	770.3	482.8	352.6	316.0	294.3	280.7	275.3	272.6
17.5°	2110.1	1689.7	1113.4	630.6	370.2	310.5	280.7	260.4	249.5	241.4	238.7
20°	2278.3	1768.4	1045.6	482.8	317.3	278.0	249.5	229.2	218.3	210.2	210.2
22.5°	2449.1	1841.6	935.7	371.6	280.7	246.8	219.7	200.7	189.9	181.7	181.7
25°	2607.8	1890.4	794.7	306.5	253.6	219.7	195.3	176.3	164.1	158.7	156.0
27.5°	2755.6	1921.6	638.7	269.9	227.8	196.6	170.9	153.2	143.7	139.7	137.0
30°	2908.9	1929.7	488.2	245.5	206.1	173.6	149.2	135.6	127.5	122.0	122.0
32.5°	3058.0	1920.3	372.9	225.1	187.1	153.2	132.9	120.7	113.9	109.8	108.5
35°	3209.9	1876.9	302.4	207.5	168.2	134.3	118.0	108.5	104.4	99.0	99.0
37.5°	3375.4	1818.5	263.1	189.9	149.2	120.7	105.8	99.0	93.6	89.5	88.1
40°	3581.5	1750.7	241.4	174.9	131.5	108.5	94.9	88.1	84.1	80.0	78.7
42.5°	3825.6	1684.3	230.5	158.7	118.0	96.3	85.4	77.3	73.2	67.8	66.4
45°	4171.4	1669.4	218.3	141.0	105.8	86.8	74.6	66.4	61.0	57.0	55.6
47.5°	4727.4	1711.4	198.0	122.0	93.6	75.9	63.7	57.0	50.2	46.1	43.4
50°	5279.3	1700.6	177.7	105.8	82.7	65.1	54.2	47.5	40.7	36.6	35.3
52.5°	5580.4	1649.0	158.7	93.6	71.9	55.6	46.1	38.0	33.9	29.8	28.5
55°	5853.0	1628.7	139.7	81.4	61.0	48.8	38.0	31.2	28.5	24.4	23.1
57.5°	6387.3	1676.2	123.4	70.5	52.9	42.0	32.5	25.8	23.1	19.0	17.6
60°	6946.0	1681.6	105.8	61.0	46.1	35.3	25.8	20.3	17.6	13.6	12.2
62.5°	7237.6	1544.6	86.8	51.5	38.0	29.8	21.7	16.3	13.6	8.1	8.1
65°	*6993.5*	*1249.0*	*73.2*	*42.0*	*29.8*	*23.1*	*16.3*	*12.2*	*8.1*	*4.1*	*1.4*
67.5°	6189.3	888.3	61.0	33.9	21.7	16.3	12.2	8.1	1.4	0.0	0.0
70°	4532.1	507.2	47.5	24.4	16.3	10.8	8.1	4.1	0.0	0.0	0.0
72.5°	2785.5	271.2	35.3	16.3	12.2	8.1	6.8	2.7	0.0	0.0	0.0
75°	1056.4	130.2	21.7	10.8	9.5	6.8	4.1	1.4	0.0	0.0	0.0
77.5°	286.1	63.7	12.2	8.1	6.8	4.1	2.7	0.0	0.0	0.0	0.0
80°	74.6	29.8	8.1	5.4	4.1	2.7	0.0	0.0	0.0	0.0	0.0
82.5°	25.8	13.6	4.1	4.1	2.7	1.4	0.0	0.0	0.0	0.0	0.0
85°	10.8	5.4	2.7	2.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	1.4	1.4	1.4	1.4	0.0	0.0	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

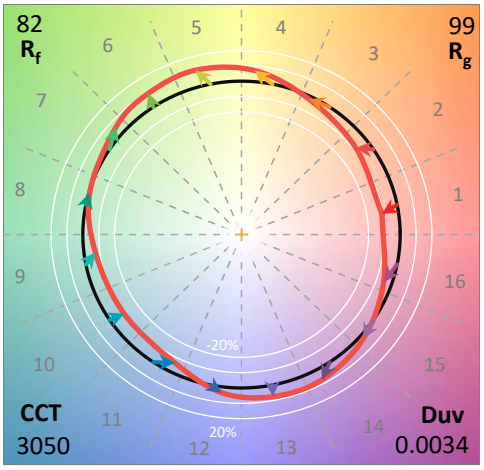
Test Information

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

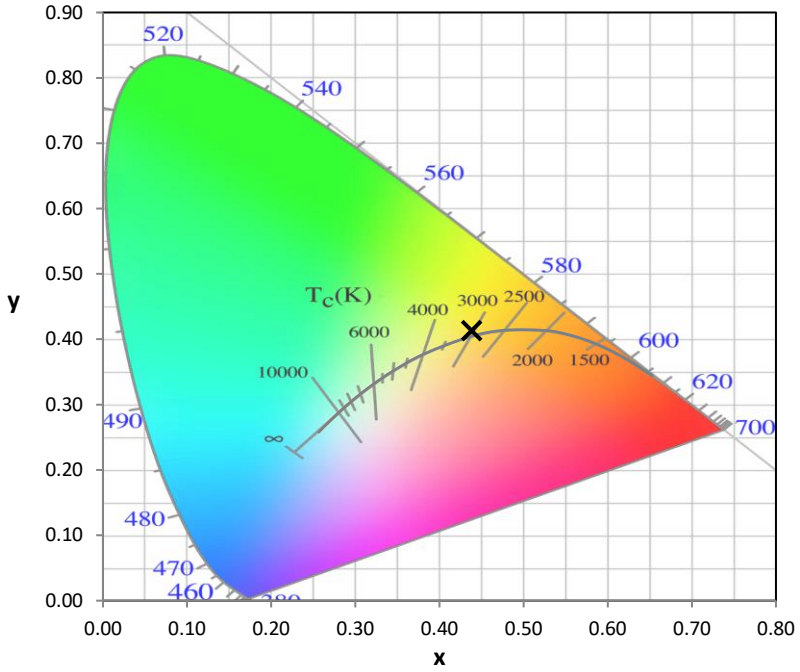
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

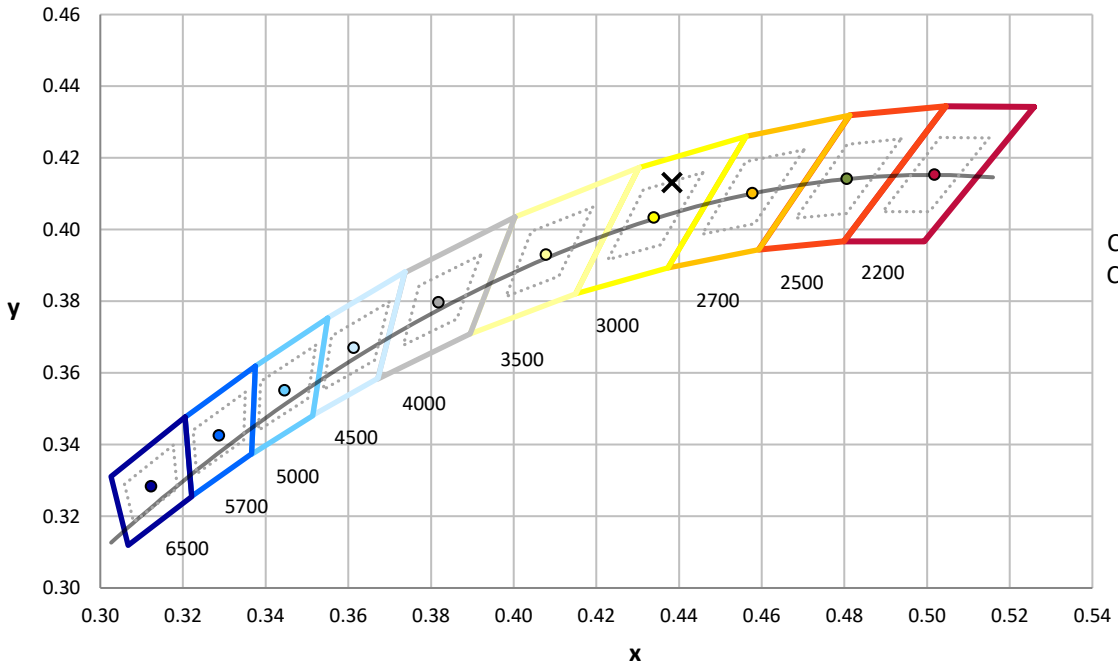
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

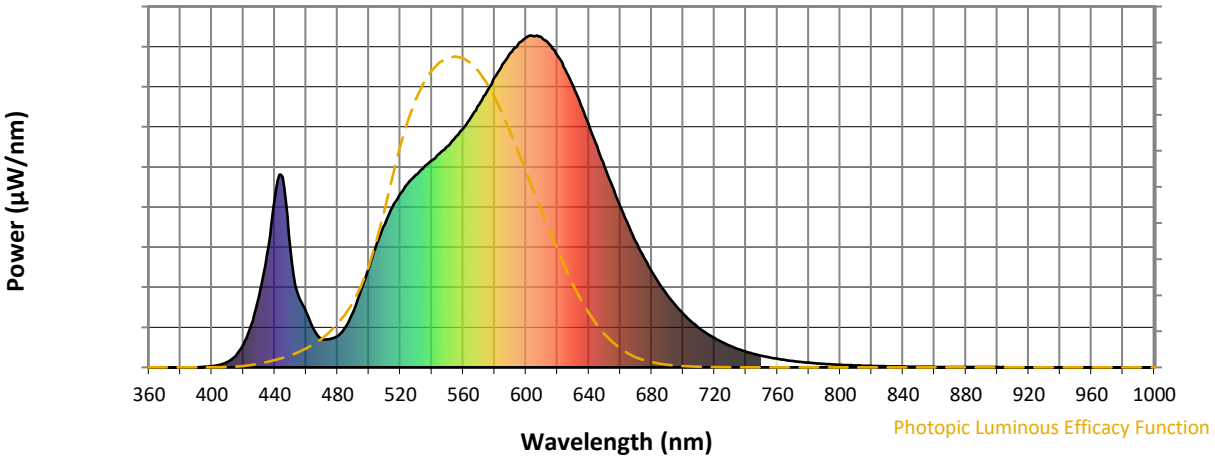


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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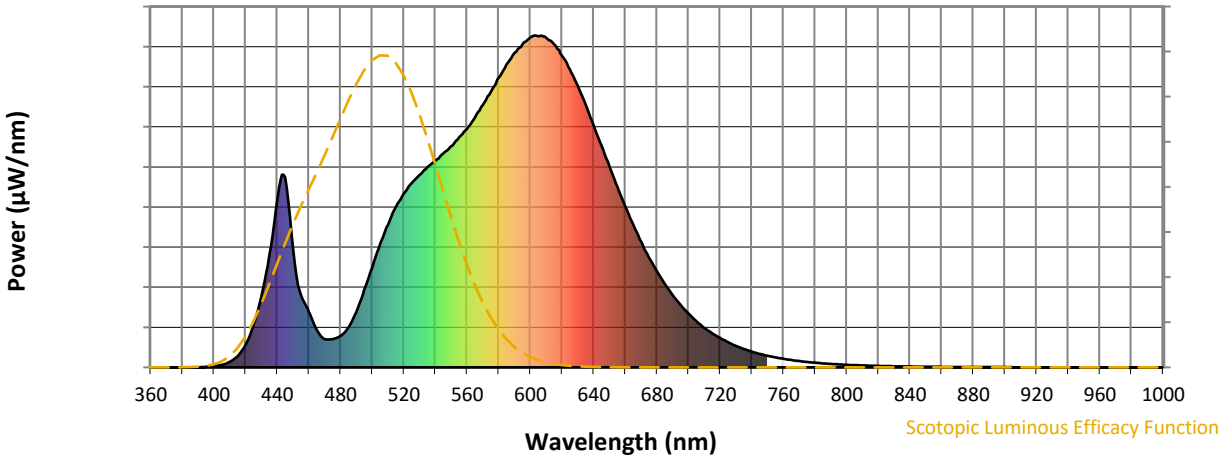
Scotopic Flux vs. Wavelength



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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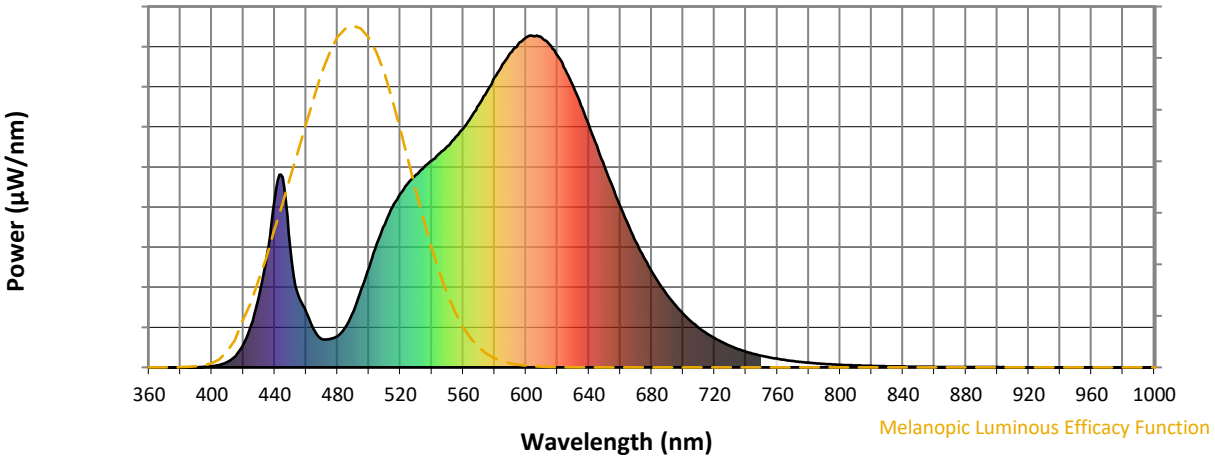
Melanopic Flux vs. Wavelength



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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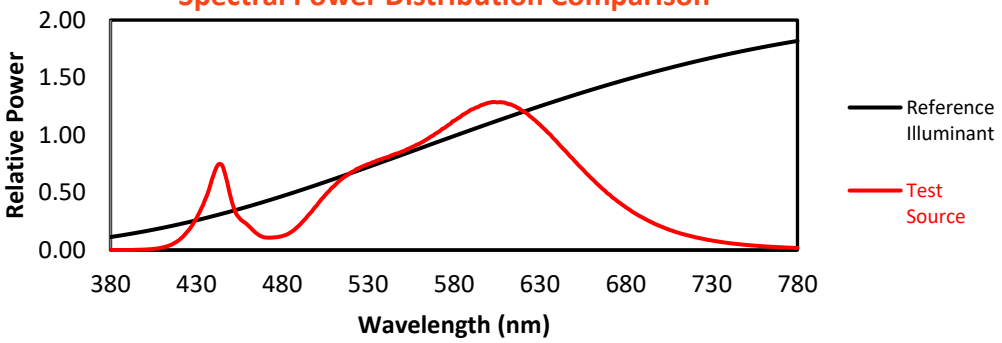
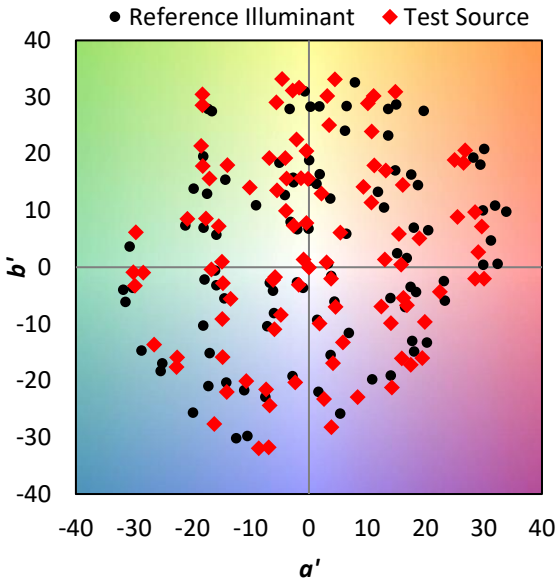
Summary

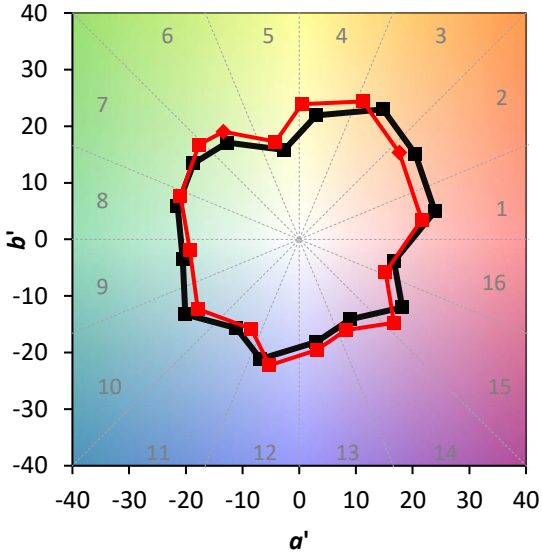
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

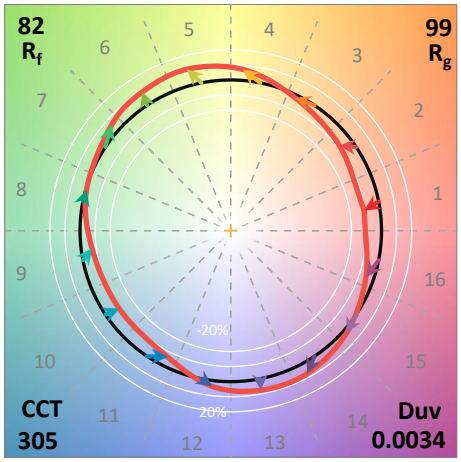
Spectral Power Distribution Comparison

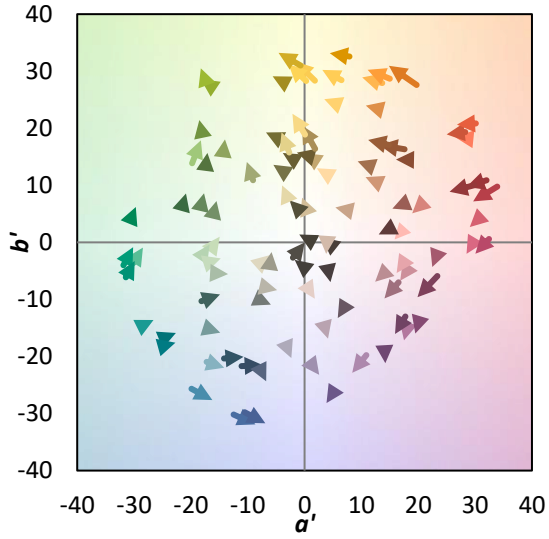


Color Vector Graphics









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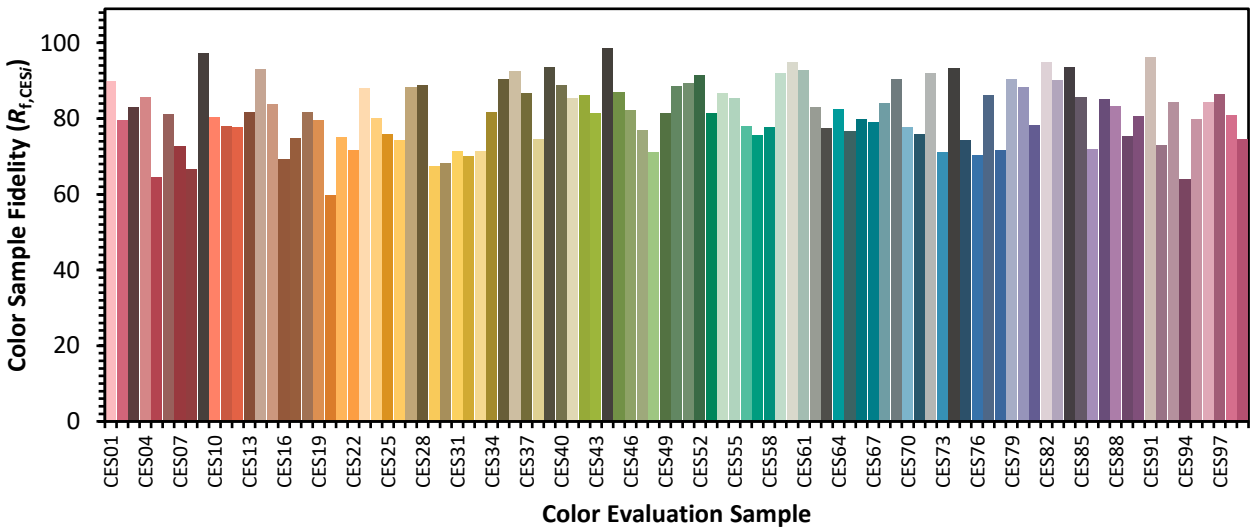
Individual Sample Fidelity Index ($R_{f,i}$)

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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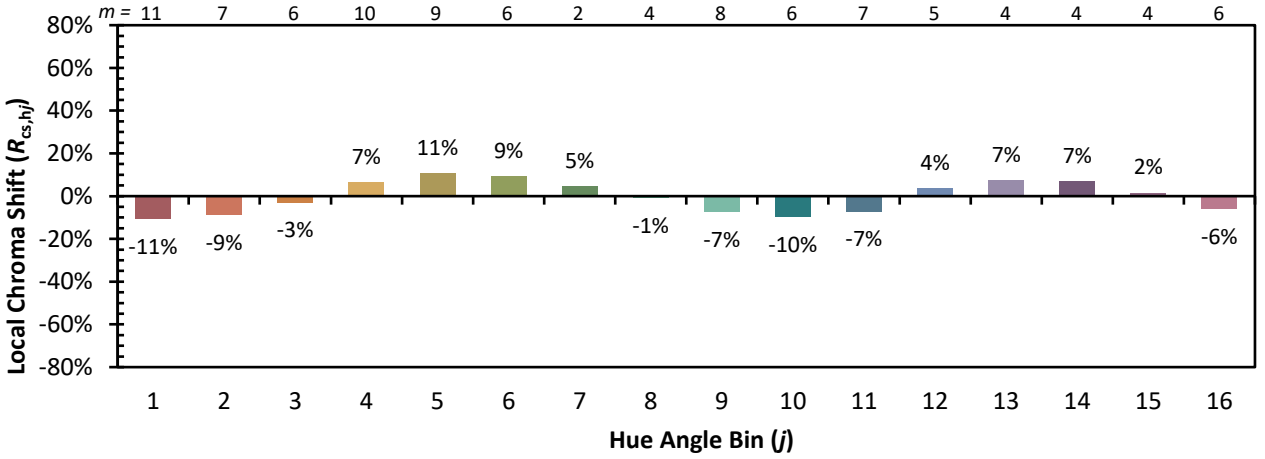
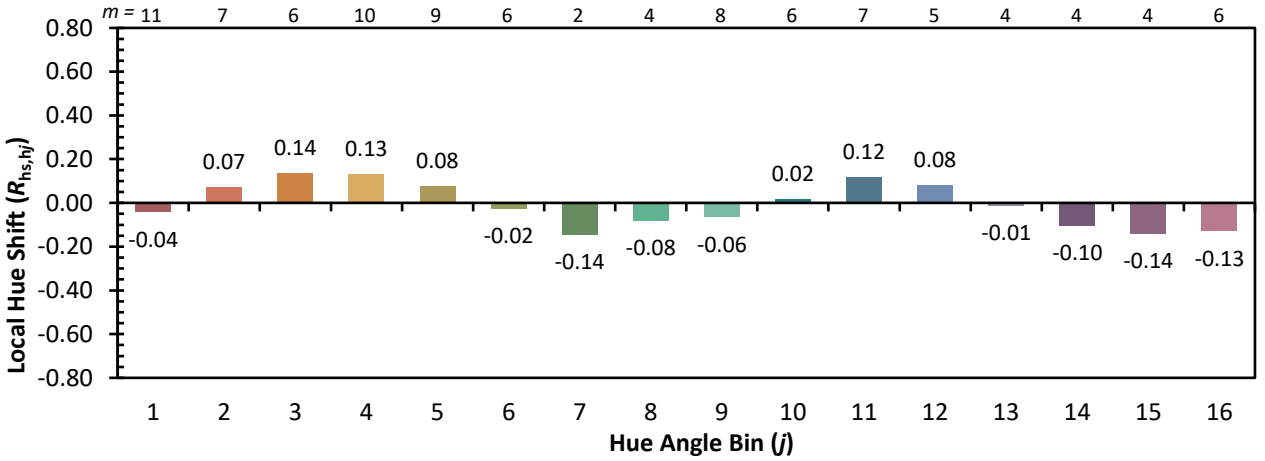
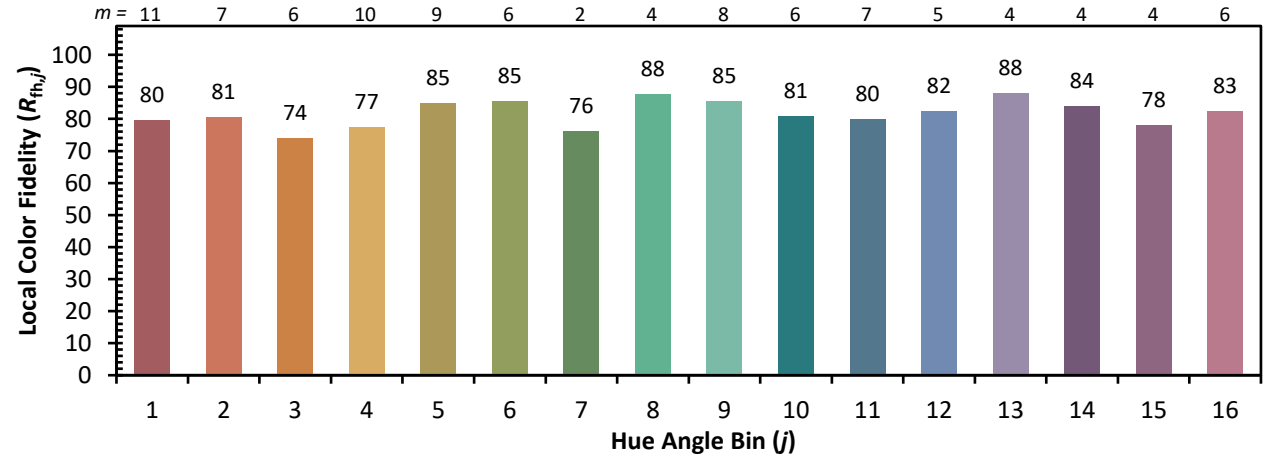
Color Rendition by Hue-Angle Bin







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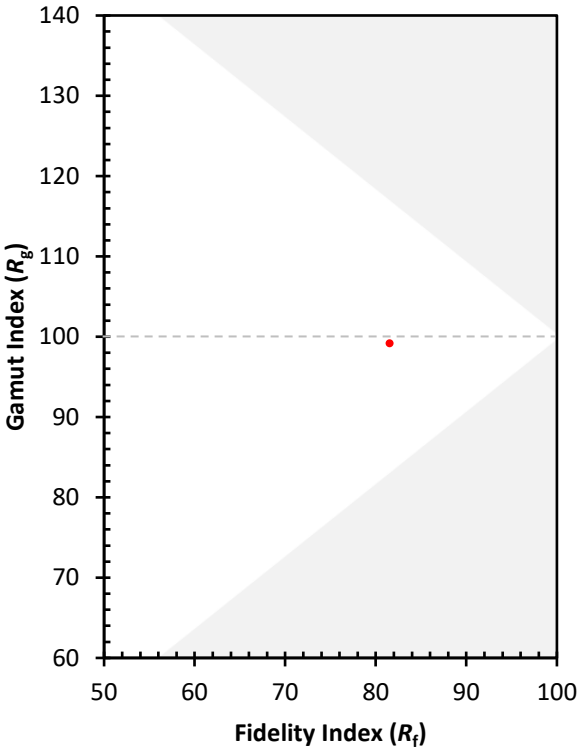
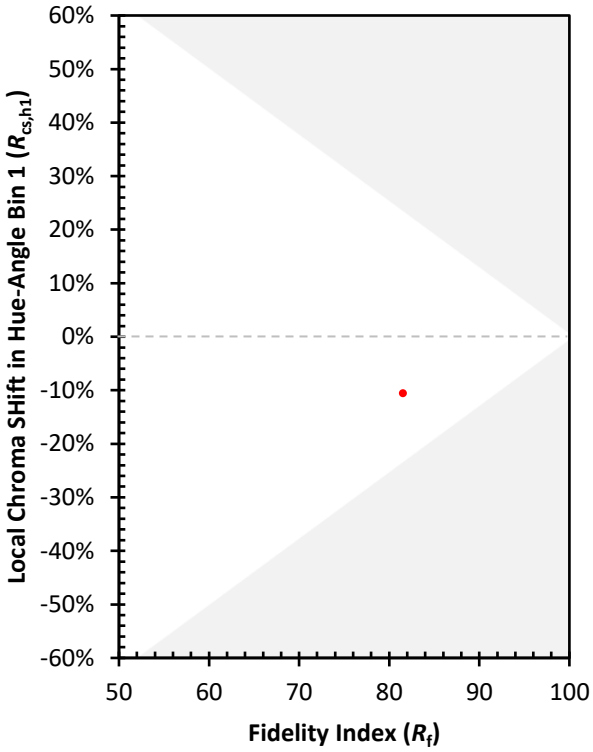
Measure Comparisons





(END OF REPORT)