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: P632548

Luminaire Tested: GWS-SA2C-830-U-T2-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:	P632548
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2C-830-U-T2-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4367.3 lumens
Efficiency:	N/A
Efficacy:	69.1 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G0

Input Watts (W):	63.2
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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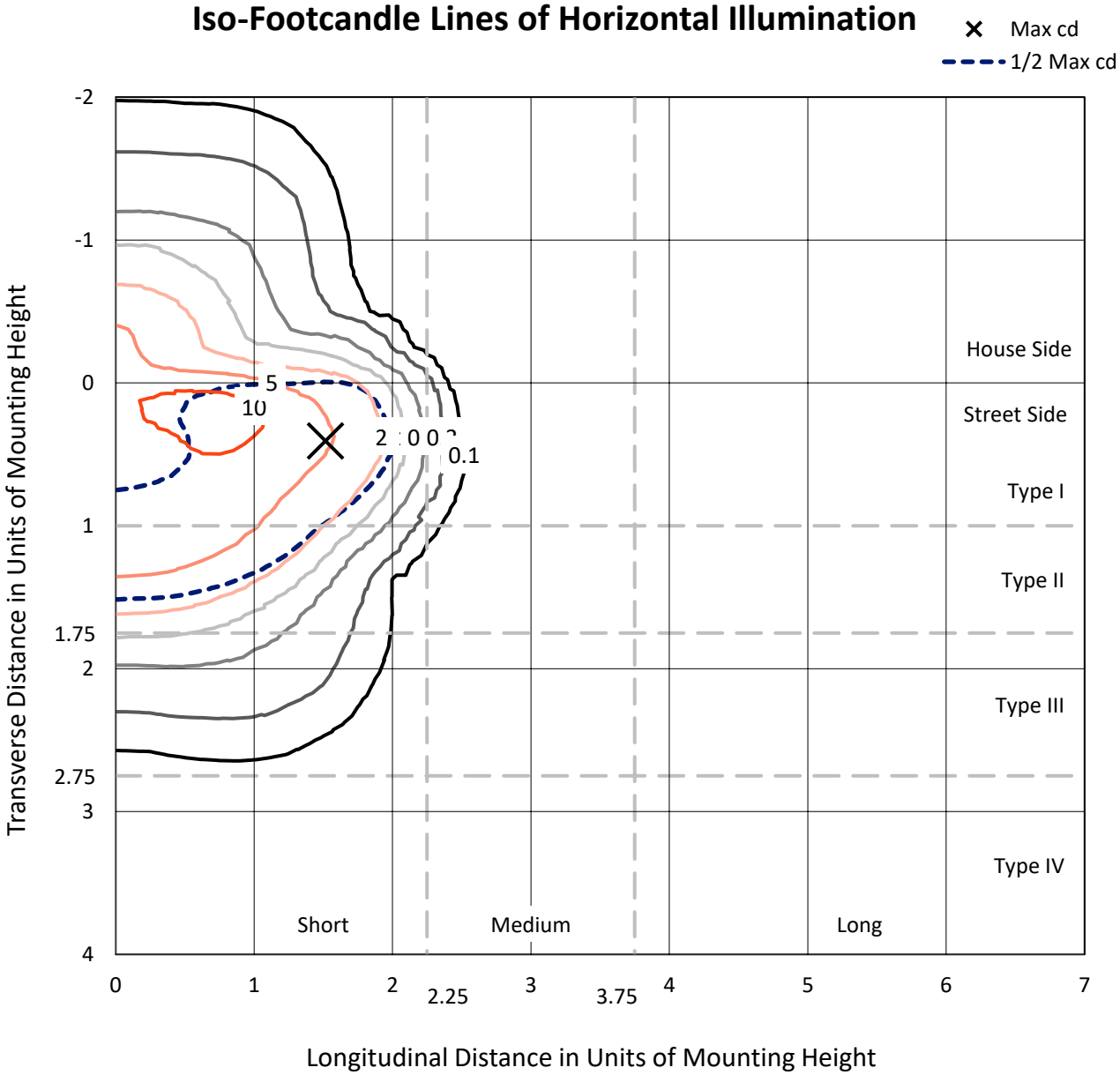
REPORT NUMBER: P632548
CATALOG NUMBER: GWS-SA2C-830-U-T2-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 13.6 fc
Type II - Short - N/A

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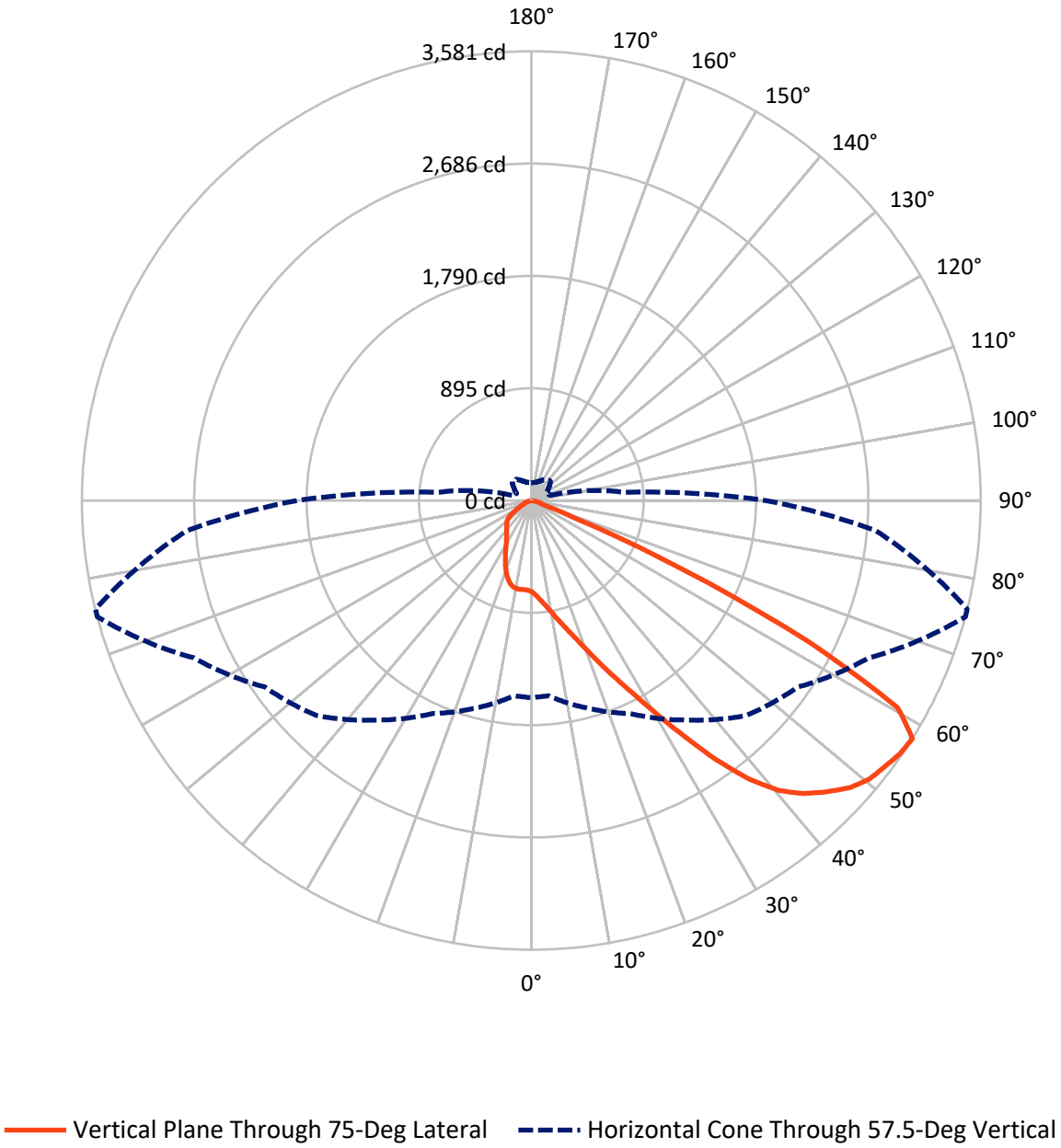
Luminous Intensity Polar Plot



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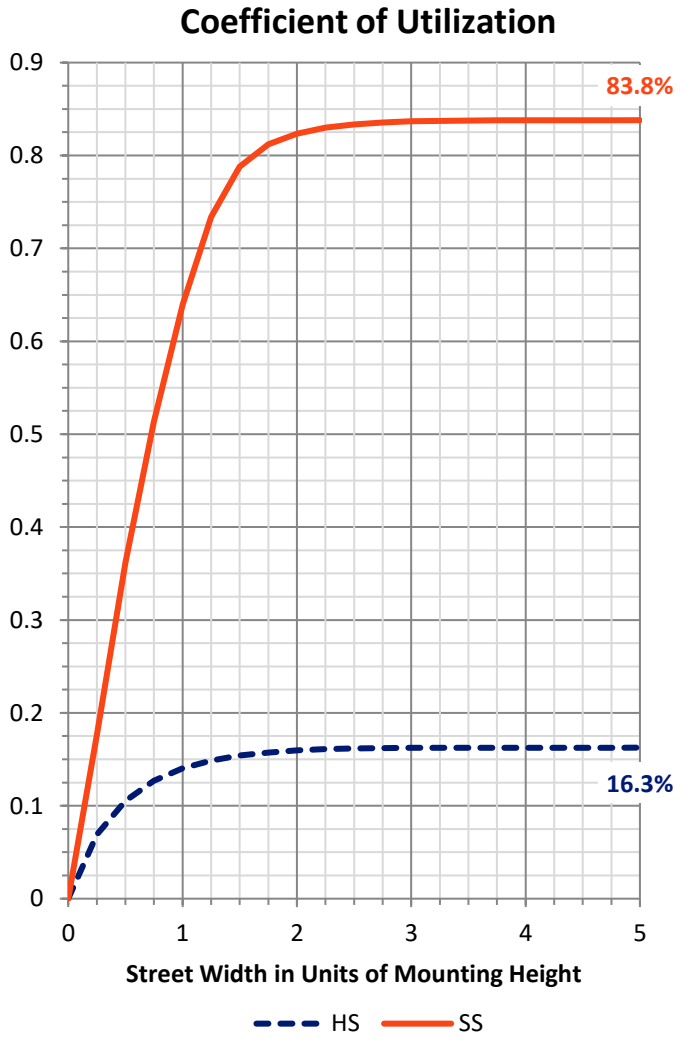
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	713.4	0.0	713.4
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	3653.9	0.0	3653.9
	% Fixture	83.7	0.0	83.7
Total	Lumens	4367.3	0.0	4367.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.1	1.7
10°-20°	240.8	5.5
20°-30°	440.9	10.1
30°-40°	731.5	16.8
40°-50°	1117.2	25.6
50°-60°	1255.4	28.7
60°-70°	463.0	10.6
70°-80°	44.3	1.0
80°-90°	0.0	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°	4367.3	100.0
0°-180°	4367.3	100.0



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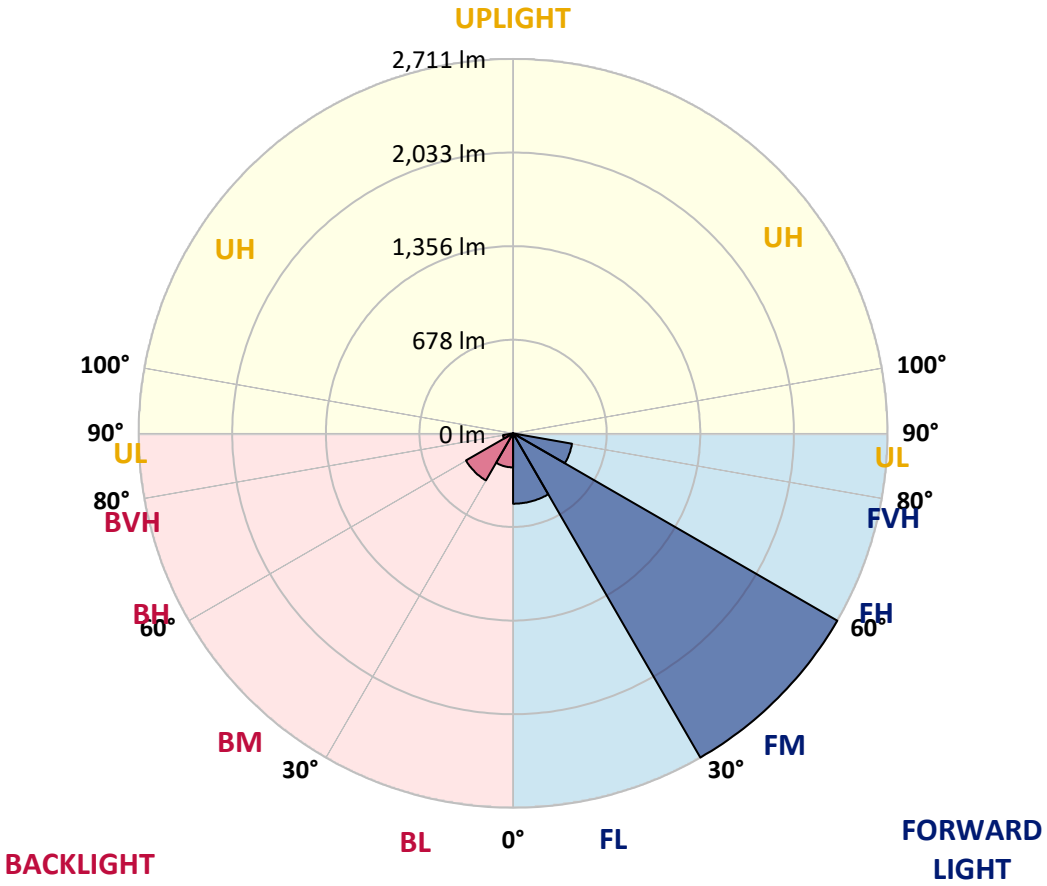
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	509.7	11.7			
FM	(30°-60°)	2711.0	62.1			
FH	(60°-80°)	433.2	9.9			G0/660
FVH	(80°-90°)	0.0	0.0			G0/10
BL	(0°-30°)	246.2	5.6	B1/500		
BM	(30°-60°)	393.1	9.0	B1/1000		
BH	(60°-80°)	74.1	1.7	B0/110		G0/110
BVH	(80°-90°)	0.0	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-G0
Type II Short



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Scaled Data Report

REPORT NUMBER: P632548
CATALOG NUMBER: GWS-SA2C-830-U-T2-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	728.4	728.4	728.4	728.4	728.4	728.4	728.4	728.4	*728.4*	728.4	728.4
2.5°	813.8	822.2	819.6	814.3	811.2	800.1	793.2	773.2	*759.0*	757.4	744.2
5°	916.6	915.0	912.9	906.6	901.3	883.9	863.3	829.6	*799.6*	795.9	767.9
7.5°	973.0	974.0	975.1	974.0	970.3	957.2	934.5	895.0	*849.1*	845.9	801.7
10°	996.2	998.3	1003.5	1013.5	1022.5	1021.5	1008.3	967.7	*911.3*	906.0	846.5
12.5°	1007.2	1009.9	1018.3	1037.3	1061.5	1080.5	1082.6	1046.2	*984.0*	975.6	899.7
15°	1022.5	1025.1	1035.7	1060.5	1095.8	1133.2	1157.4	1134.2	*1064.7*	1055.7	958.2
17.5°	1029.4	1033.0	1048.3	1081.0	1126.9	1184.3	1239.1	1237.0	*1160.1*	1153.2	1026.2
20°	1042.5	1045.2	1058.9	1094.2	1149.5	1232.3	1324.5	1357.7	*1276.6*	1266.5	1108.4
22.5°	1084.2	1085.2	1091.6	1113.7	1165.3	1267.1	1411.5	1498.4	*1414.1*	1400.9	1200.7
25°	1152.2	1151.6	1154.3	1158.0	1195.9	1302.4	1495.3	1657.1	*1571.7*	1557.5	1305.0
27.5°	1238.6	1238.6	1244.9	1234.4	1249.7	1346.1	1578.0	1839.5	*1755.1*	1735.1	1419.4
30°	1340.3	1339.8	1354.6	1337.7	1342.4	1415.2	1667.1	2038.2	*1976.5*	1951.7	1551.2
32.5°	1478.4	1475.3	1492.1	1468.9	1453.1	1519.5	1775.7	2245.8	*2241.6*	2203.7	1716.7
35°	1652.9	1647.6	1652.9	1630.2	1601.8	1665.5	1918.0	2453.0	*2535.7*	2495.7	1913.8
37.5°	1826.3	1843.1	1848.9	1809.9	1786.8	1850.5	2089.3	2638.5	*2816.6*	2775.0	2118.8
40°	2030.8	2025.5	2045.5	2001.8	1987.0	2057.7	2256.9	2776.6	*3039.1*	2999.5	2301.2
42.5°	2181.5	2191.0	2215.8	2191.5	2179.9	2246.4	2397.6	2857.2	*3193.5*	3154.5	2431.4
45°	2362.3	2369.2	2378.6	2358.6	2346.5	2411.9	2499.3	2892.5	*3311.0*	3268.9	2518.8
47.5°	2557.8	2563.1	2563.1	2522.0	2483.0	2509.9	2567.3	2912.6	*3419.1*	3378.5	2583.7
50°	2698.0	2700.7	2723.9	2694.9	2610.0	2568.4	2598.4	2932.1	*3490.8*	3452.8	2604.8
52.5°	2573.7	2570.5	2646.9	2707.0	2729.7	2646.9	2652.2	2960.5	*3525.5*	3492.9	2621.6
55°	2167.3	2162.0	2269.5	2415.5	2615.3	2721.2	2717.0	2977.4	*3564.0*	3544.0	2682.8
57.5°	*1571.2*	*1562.2*	*1711.9*	*1874.2*	*2136.2*	*2423.4*	*2592.1*	*2967.9*	*3580.9*	*3579.3*	*2753.9*
60°	944.5	937.1	1078.4	1249.1	1451.5	1740.4	2020.2	2658.5	*3355.3*	3358.5	2568.9
62.5°	581.4	588.2	715.8	802.7	878.1	965.1	1126.9	1788.3	*2485.6*	2506.2	1805.2
65°	391.1	396.4	514.4	624.0	624.0	510.2	438.0	854.9	*1326.1*	1291.3	853.8
67.5°	262.5	268.3	361.6	489.6	508.1	355.8	177.6	255.1	*369.5*	358.4	211.4
70°	154.4	160.8	240.9	335.7	370.0	247.7	118.6	108.0	*104.9*	101.7	82.2
72.5°	69.0	71.7	122.8	170.8	156.0	104.4	83.8	86.4	*81.7*	80.1	66.9
75°	21.1	22.1	31.6	36.9	37.4	37.4	50.6	68.0	*64.3*	64.8	51.7
77.5°	5.3	5.3	8.4	7.9	4.2	3.7	9.5	15.3	*15.8*	14.2	10.5
80°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	*0.5*	0.5	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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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REPORT NUMBER: P632548
CATALOG NUMBER: GWS-SA2C-830-U-T2-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	728.4	728.4	728.4	728.4	728.4	728.4	728.4	728.4	728.4	728.4	728.4
2.5°	738.4	724.7	715.8	703.1	694.1	684.7	676.2	669.4	665.7	664.6	665.2
5°	755.3	733.7	712.6	688.3	671.5	655.7	643.0	633.0	628.3	626.7	626.7
7.5°	781.1	751.1	713.6	675.7	647.2	622.5	607.7	596.6	592.4	591.4	588.2
10°	814.8	773.7	712.1	653.0	613.0	587.2	576.6	573.4	575.0	575.6	575.0
12.5°	855.4	797.5	702.1	619.8	576.6	560.8	561.9	570.3	579.8	584.5	585.6
15°	898.6	819.1	679.4	580.3	545.5	545.0	560.3	579.8	598.2	606.1	608.2
17.5°	947.1	836.5	644.6	538.1	518.6	533.9	561.3	591.4	616.1	629.3	632.0
20°	1000.4	850.7	600.3	498.6	494.9	522.3	560.3	597.2	627.7	642.5	645.1
22.5°	1055.7	860.7	549.2	462.2	473.3	509.1	550.3	586.1	615.1	632.0	634.1
25°	1119.0	861.8	497.0	431.7	453.3	491.2	526.0	555.5	579.8	594.5	596.1
27.5°	1174.3	849.1	450.6	406.9	434.8	469.1	492.3	508.6	525.5	533.9	534.4
30°	1238.1	827.0	406.9	386.9	415.9	441.7	453.3	457.0	458.5	460.1	458.0
32.5°	1314.0	800.1	374.2	367.4	394.2	411.6	414.8	407.4	398.5	385.8	382.6
35°	1407.3	775.8	347.3	348.4	370.5	381.1	378.4	362.6	345.2	329.9	327.3
37.5°	1508.5	755.3	326.8	329.9	344.7	352.1	344.2	326.8	318.9	305.7	306.2
40°	1598.1	738.4	308.3	311.5	318.3	325.2	312.5	301.0	315.7	314.7	315.7
42.5°	1661.8	724.2	292.5	290.9	295.7	300.4	290.9	285.1	309.9	303.1	306.8
45°	1699.3	711.0	279.3	269.9	277.2	285.7	279.3	272.0	280.4	248.8	246.1
47.5°	1724.6	703.6	267.7	249.3	262.5	277.2	264.1	246.1	234.0	206.6	204.5
50°	1727.2	699.9	254.0	228.2	245.1	260.9	245.6	220.8	203.4	191.3	189.7
52.5°	1740.9	707.3	235.1	201.3	219.8	245.1	234.5	209.8	186.1	175.5	173.4
55°	1802.0	738.4	203.4	164.4	191.3	233.0	225.6	187.1	164.4	158.1	156.5
57.5°	*1865.3*	*744.7*	*160.2*	*130.2*	*166.6*	*215.6*	*206.1*	*172.4*	*150.2*	*142.8*	*141.3*
60°	1705.6	613.5	120.2	107.5	147.1	199.2	190.8	163.4	137.6	128.6	127.0
62.5°	1120.5	331.5	95.4	91.2	123.9	168.7	173.9	147.6	122.8	113.3	112.8
65°	516.5	153.9	73.3	72.2	97.0	134.4	149.7	129.1	103.8	95.4	95.4
67.5°	140.7	76.4	57.5	53.2	65.9	90.1	109.1	96.5	73.8	63.8	63.2
70°	70.1	61.7	51.7	45.9	47.4	55.9	64.3	53.8	37.4	30.6	30.0
72.5°	57.5	50.6	43.7	39.0	35.8	34.3	33.2	26.9	17.4	13.2	12.6
75°	42.7	36.4	31.1	25.3	21.6	20.0	17.9	13.2	7.4	4.2	3.7
77.5°	9.5	9.0	8.4	6.3	5.8	4.7	3.7	2.6	1.1	0.0	0.0
80°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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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Peachtree City, GA 30269

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

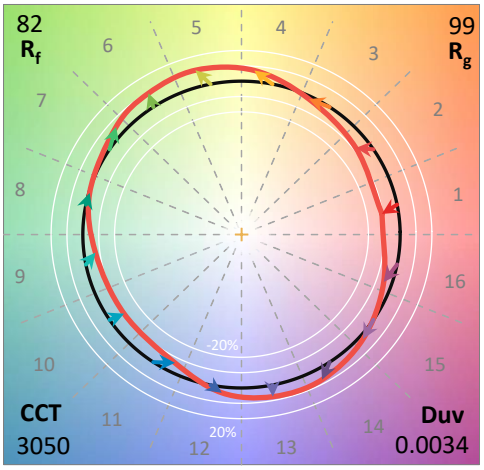
Test Information

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

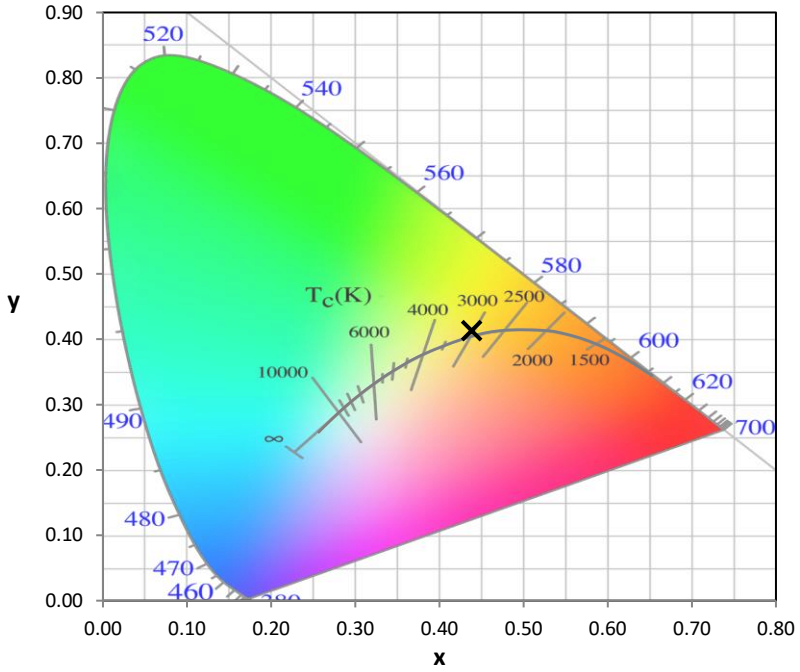
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

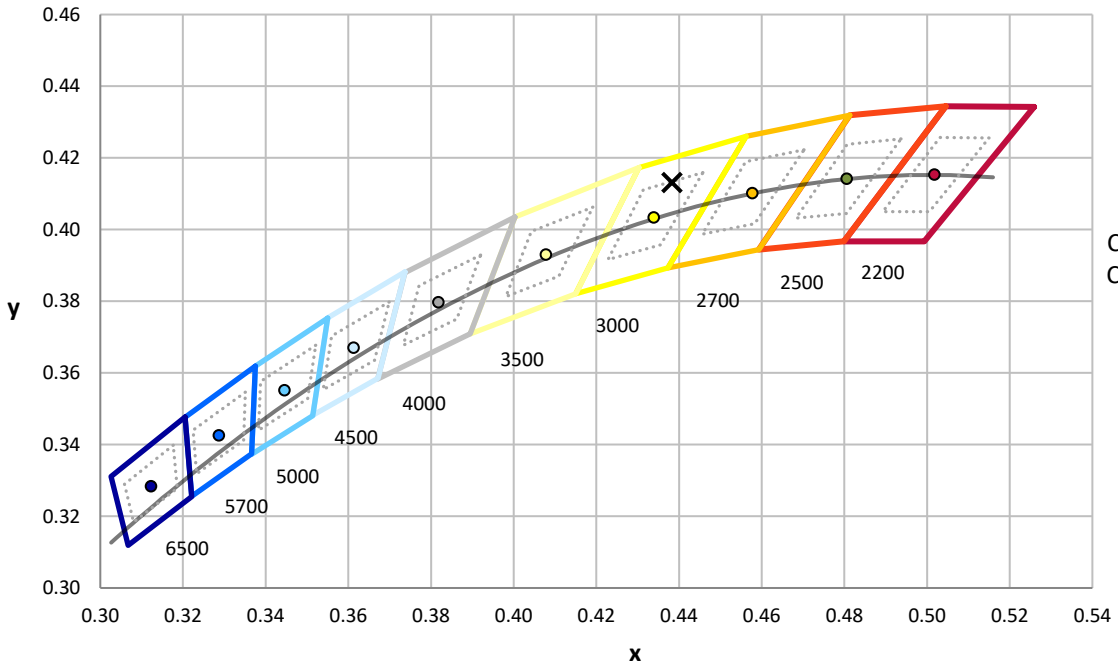
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

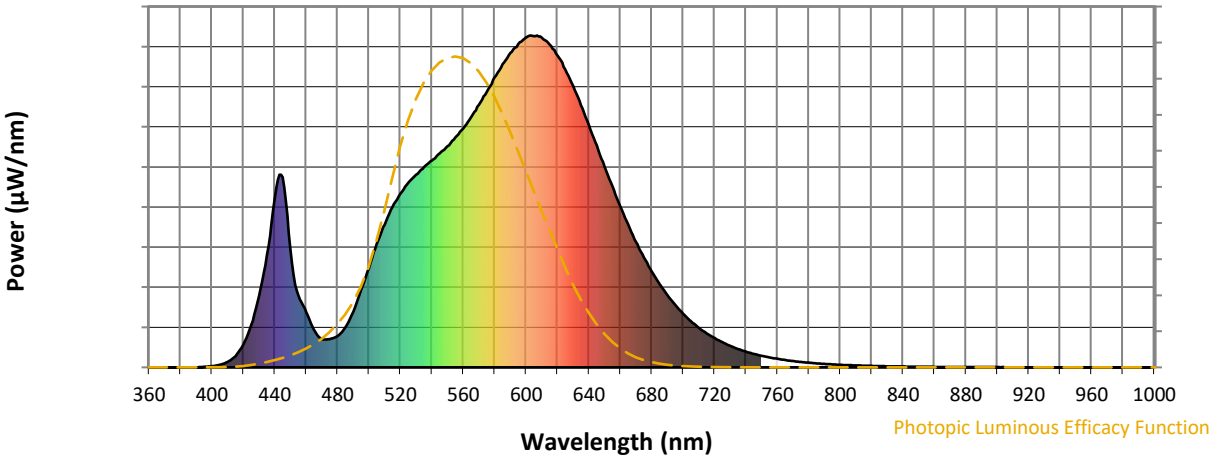


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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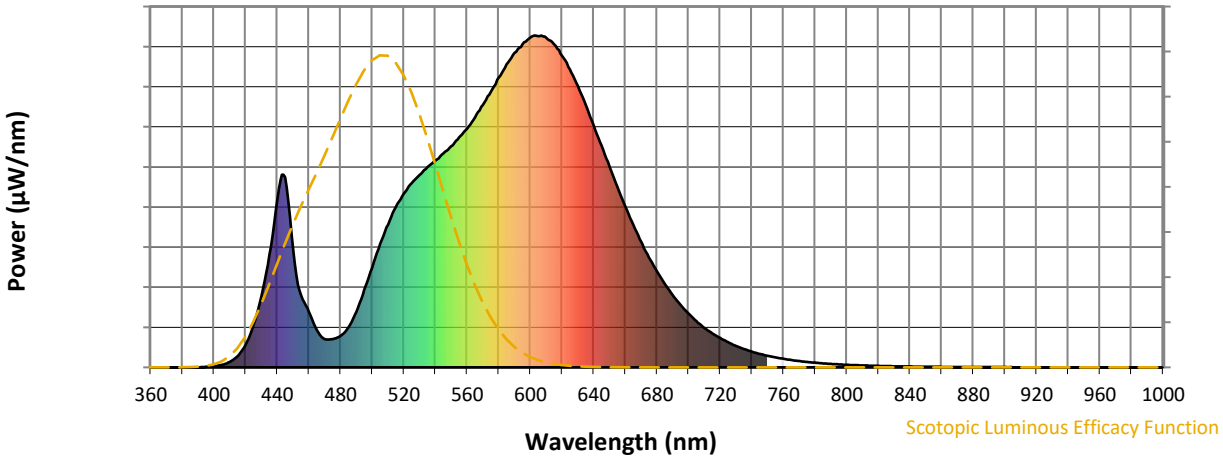
Scotopic Flux vs. Wavelength



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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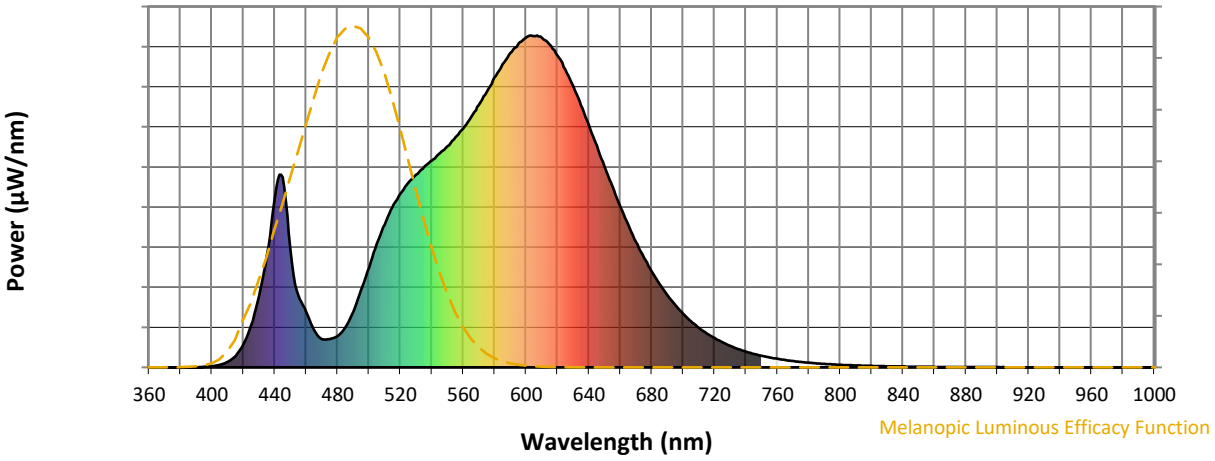
Melanopic Flux vs. Wavelength



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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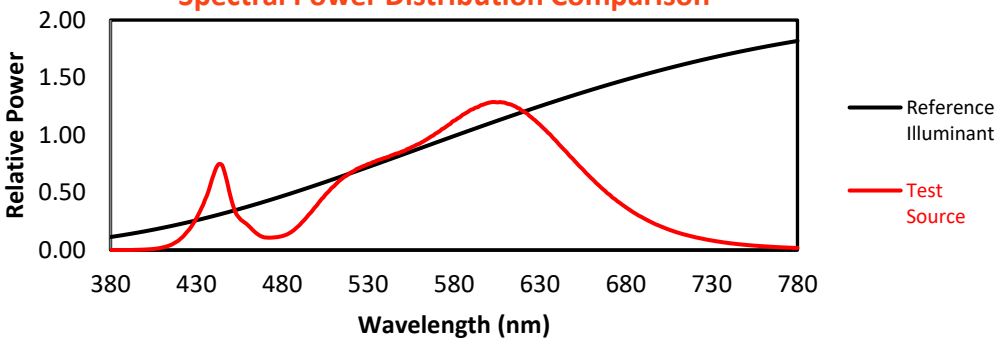
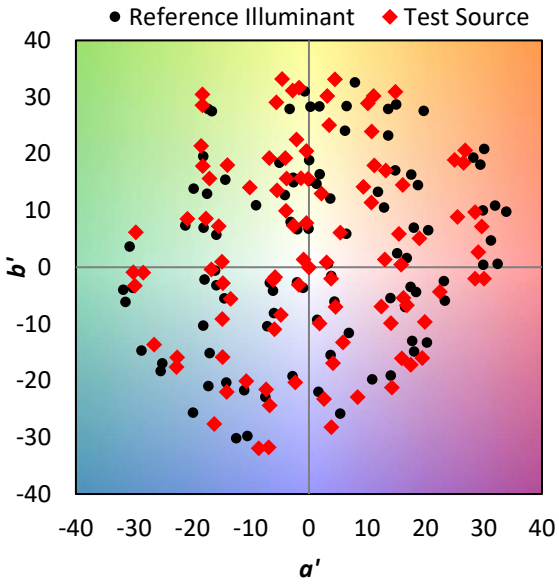
Summary

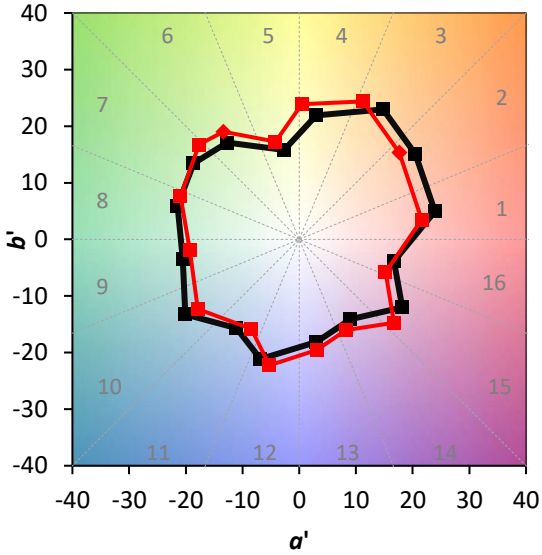
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

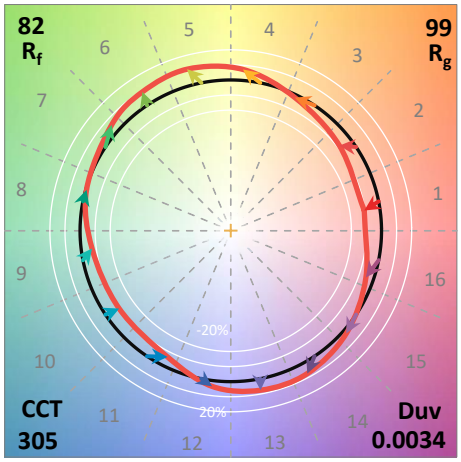
Spectral Power Distribution Comparison

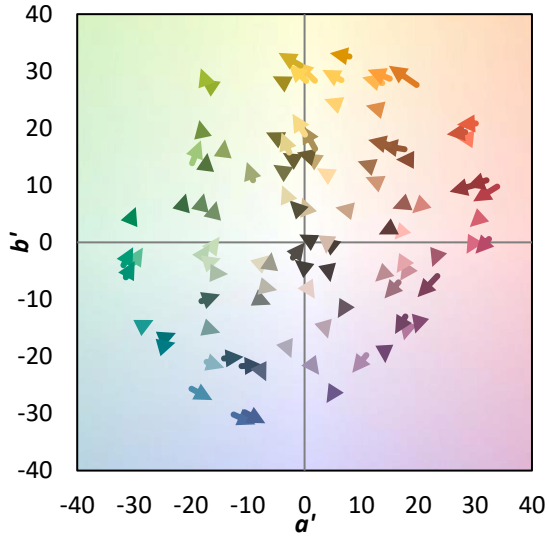


Color Vector Graphics









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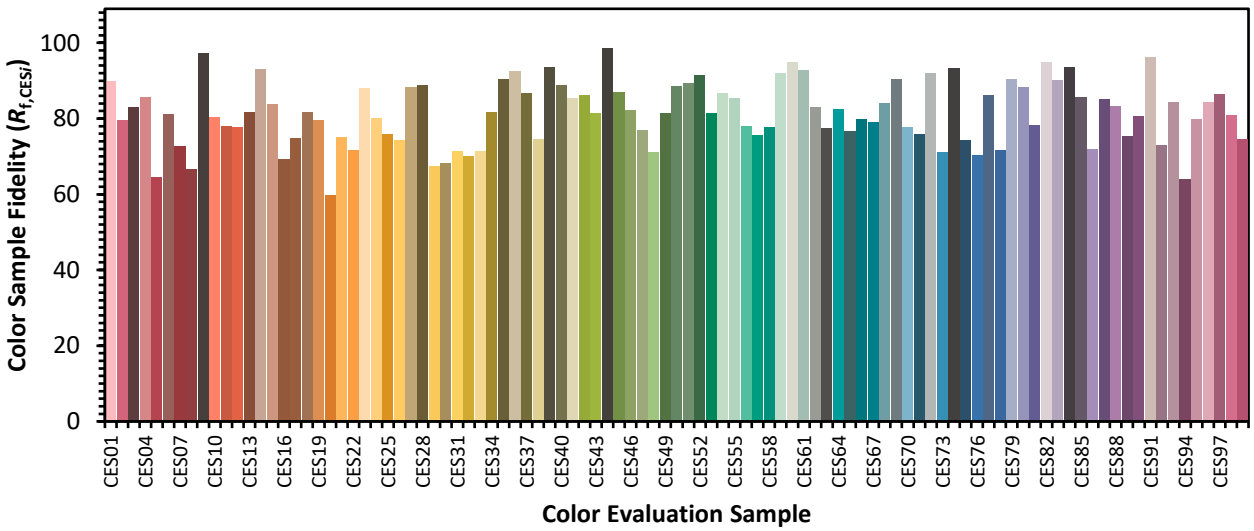
Individual Sample Fidelity Index ($R_{f,i}$)

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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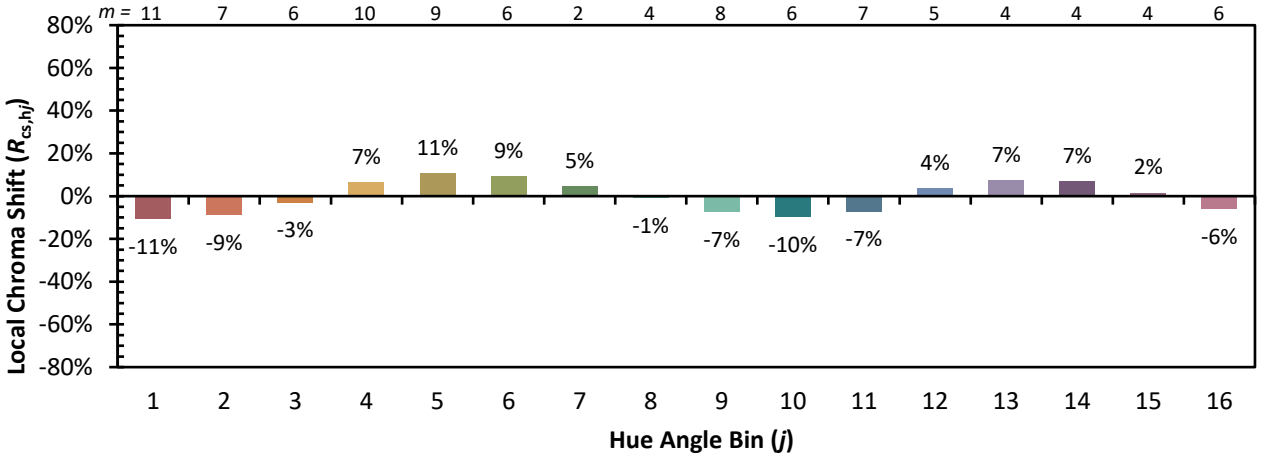
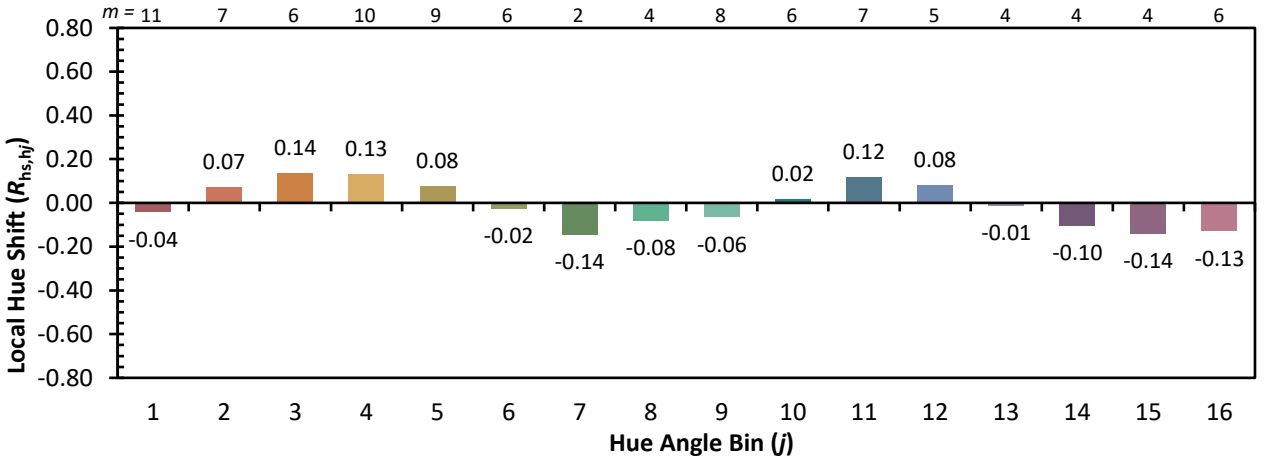
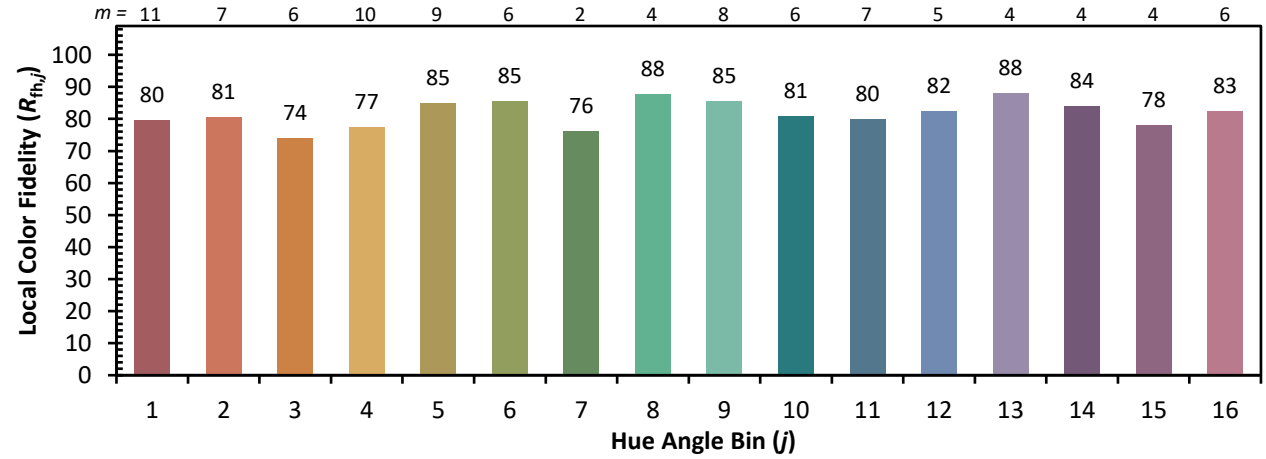
Color Rendition by Hue-Angle Bin







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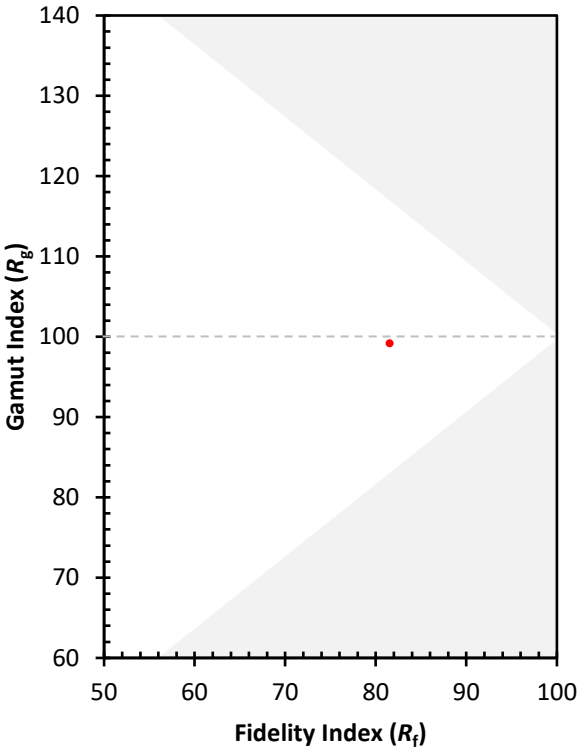
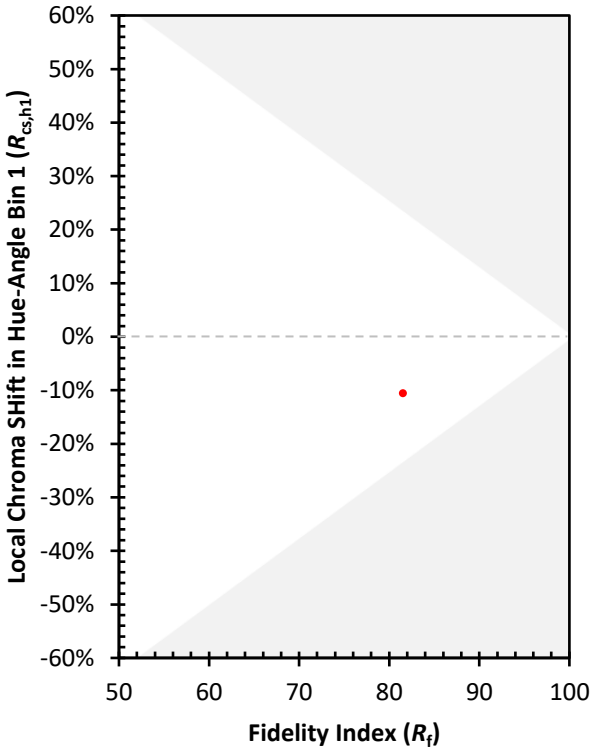
Measure Comparisons





(END OF REPORT)