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: P634528

Luminaire Tested: GWS-SA3B-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:	P634528
	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-SA3B-830-U-T2-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4908.1 lumens
Efficiency:	N/A
Efficacy:	71.9 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G0

Input Watts (W):	68.3
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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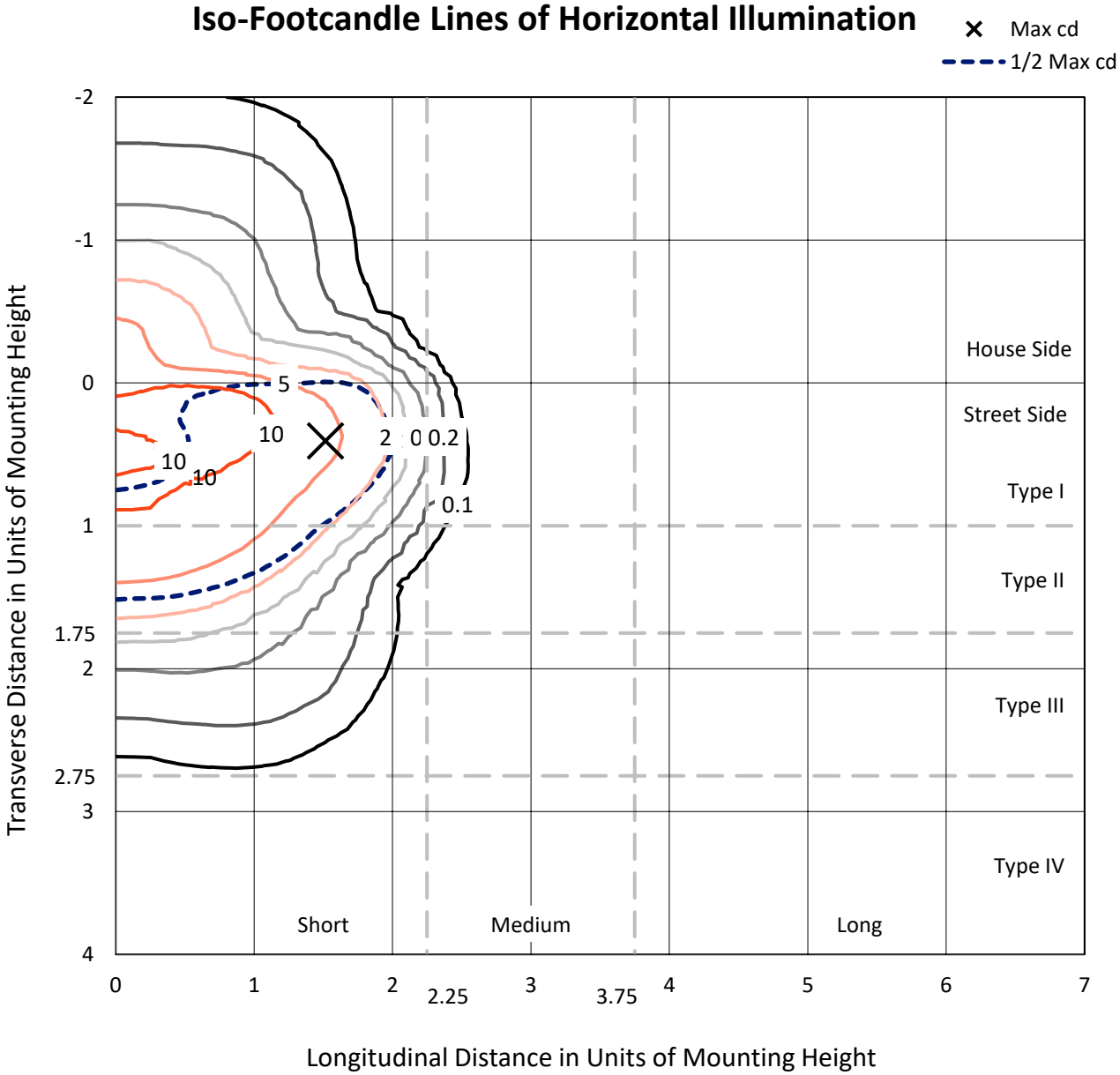
REPORT NUMBER: P634528
CATALOG NUMBER: GWS-SA3B-830-U-T2-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 15.3 fc
Type II - Short - N/A

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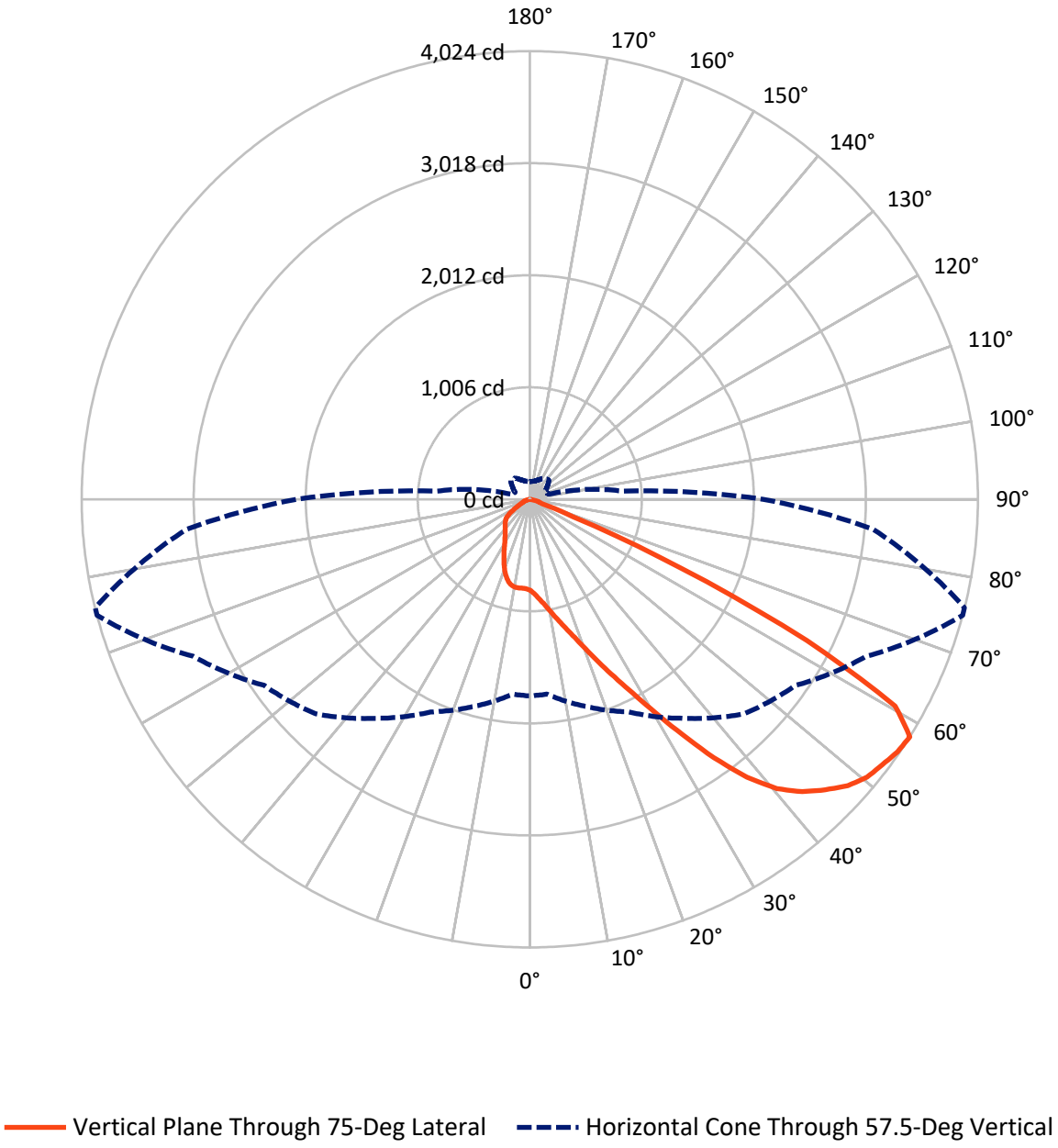
Luminous Intensity Polar Plot



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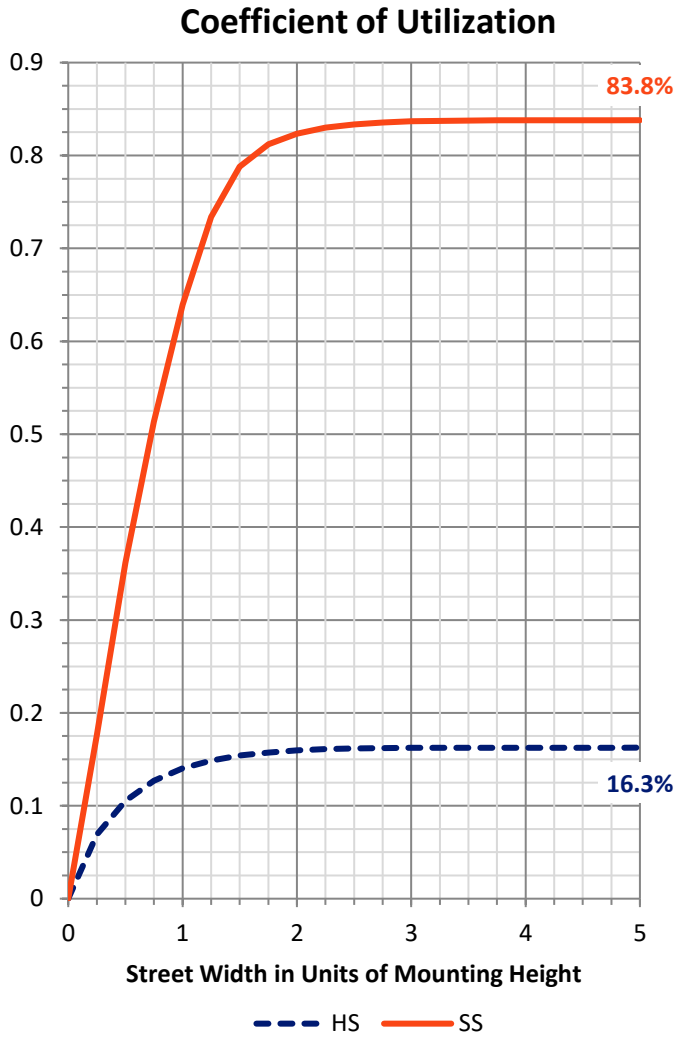
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	801.7	0.0	801.7
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	4106.4	0.0	4106.4
	% Fixture	83.7	0.0	83.7
Total	Lumens	4908.1	0.0	4908.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.3	1.7
10°-20°	270.6	5.5
20°-30°	495.5	10.1
30°-40°	822.1	16.8
40°-50°	1255.6	25.6
50°-60°	1410.8	28.7
60°-70°	520.4	10.6
70°-80°	49.7	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°	4908.1	100.0
0°-180°	4908.1	100.0



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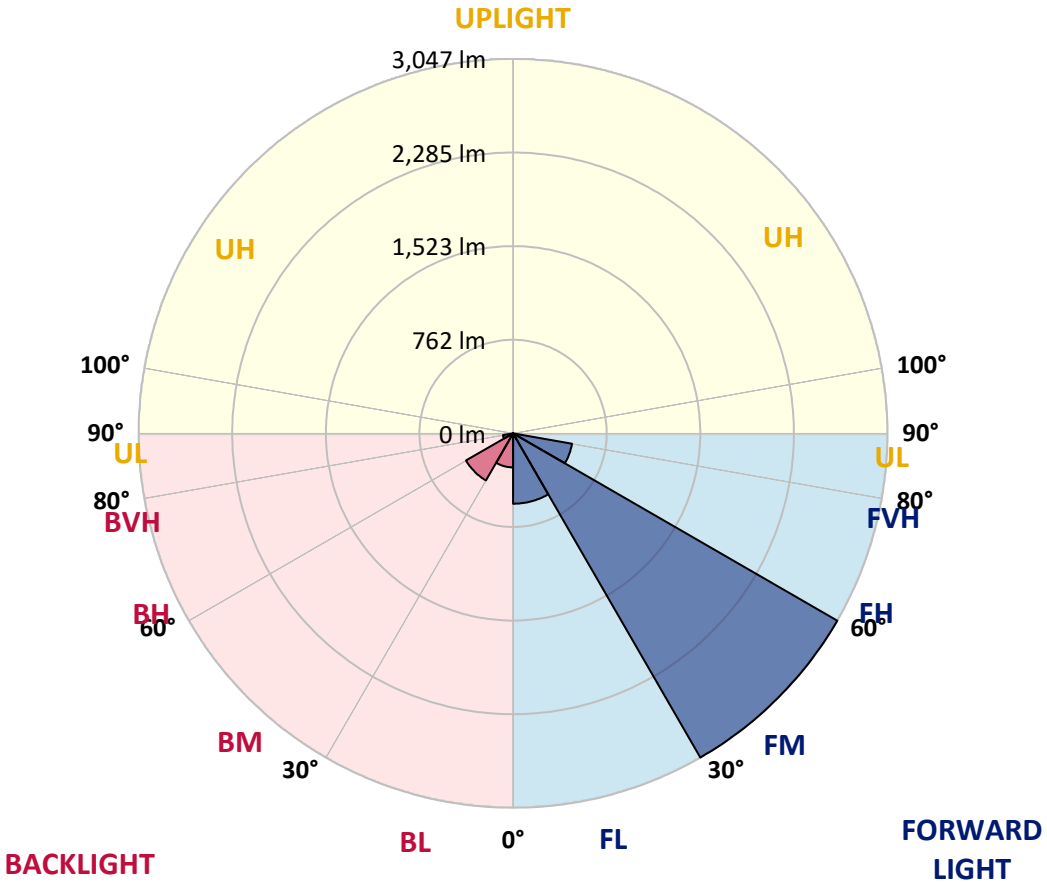
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	572.8	11.7			
FM	(30°-60°)	3046.7	62.1			
FH	(60°-80°)	486.9	9.9			G0/660
FVH	(80°-90°)	0.0	0.0			G0/10
BL	(0°-30°)	276.6	5.6	B1/500		
BM	(30°-60°)	441.8	9.0	B1/1000		
BH	(60°-80°)	83.3	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: P634528
CATALOG NUMBER: GWS-SA3B-830-U-T2-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	818.6	818.6	818.6	818.6	818.6	818.6	818.6	818.6	*818.6*	818.6	818.6
2.5°	914.6	924.0	921.1	915.2	911.6	899.2	891.5	869.0	*853.0*	851.2	836.4
5°	1030.1	1028.3	1025.9	1018.8	1012.9	993.3	970.2	932.3	*898.6*	894.4	863.0
7.5°	1093.4	1094.6	1095.8	1094.6	1090.5	1075.7	1050.2	1005.8	*954.2*	950.7	900.9
10°	1119.5	1121.9	1127.8	1139.1	1149.1	1147.9	1133.1	1087.5	*1024.1*	1018.2	951.3
12.5°	1131.9	1134.9	1144.4	1165.7	1193.0	1214.3	1216.6	1175.8	*1105.9*	1096.4	1011.1
15°	1149.1	1152.1	1163.9	1191.8	1231.5	1273.5	1300.8	1274.7	*1196.5*	1186.4	1076.9
17.5°	1156.8	1161.0	1178.1	1214.9	1266.4	1331.0	1392.6	1390.2	*1303.7*	1296.0	1153.3
20°	1171.6	1174.6	1190.0	1229.7	1291.9	1384.9	1488.5	1525.8	*1434.6*	1423.4	1245.7
22.5°	1218.4	1219.6	1226.7	1251.6	1309.6	1424.0	1586.3	1684.0	*1589.2*	1574.4	1349.3
25°	1294.8	1294.2	1297.2	1301.4	1344.0	1463.7	1680.4	1862.3	*1766.3*	1750.3	1466.6
27.5°	1392.0	1392.0	1399.1	1387.2	1404.4	1512.8	1773.4	2067.2	*1972.5*	1950.0	1595.1
30°	1506.3	1505.7	1522.3	1503.3	1508.7	1590.4	1873.5	2290.5	*2221.2*	2193.4	1743.2
32.5°	1661.5	1657.9	1676.9	1650.8	1633.1	1707.7	1995.6	2523.9	*2519.2*	2476.5	1929.2
35°	1857.6	1851.6	1857.6	1832.1	1800.1	1871.8	2155.5	2756.7	*2849.7*	2804.7	2150.8
37.5°	2052.4	2071.4	2077.9	2034.1	2008.0	2079.7	2348.0	2965.2	*3165.4*	3118.6	2381.2
40°	2282.3	2276.3	2298.8	2249.7	2233.1	2312.5	2536.4	3120.4	*3415.4*	3371.0	2586.1
42.5°	2451.7	2462.3	2490.2	2462.9	2449.9	2524.5	2694.5	3211.0	*3588.9*	3545.1	2732.4
45°	2654.8	2662.5	2673.2	2650.7	2637.1	2710.5	2808.8	3250.7	*3721.0*	3673.6	2830.8
47.5°	2874.6	2880.5	2880.5	2834.3	2790.5	2820.7	2885.2	3273.2	*3842.5*	3796.8	2903.6
50°	3032.1	3035.1	3061.2	3028.6	2933.2	2886.4	2920.2	3295.1	*3923.0*	3880.4	2927.3
52.5°	2892.4	2888.8	2974.7	3042.2	3067.7	2974.7	2980.6	3327.1	*3962.1*	3925.4	2946.3
55°	2435.7	2429.7	2550.6	2714.7	2939.2	3058.2	3053.5	3346.1	*4005.3*	3982.8	3015.0
57.5°	*1765.7*	*1755.7*	*1923.9*	*2106.3*	*2400.7*	*2723.5*	*2913.1*	*3335.4*	*4024.3*	*4022.5*	*3094.9*
60°	1061.5	1053.2	1211.9	1403.8	1631.3	1955.9	2270.4	2987.7	*3770.8*	3774.3	2887.0
62.5°	653.3	661.0	804.4	902.1	986.8	1084.6	1266.4	2009.8	*2793.4*	2816.5	2028.7
65°	439.5	445.4	578.1	701.3	701.3	573.4	492.2	960.8	*1490.3*	1451.2	959.6
67.5°	295.0	301.5	406.3	550.3	571.0	399.8	199.6	286.7	*415.2*	402.8	237.5
70°	173.6	180.7	270.7	377.3	415.8	278.4	133.3	121.4	*117.9*	114.3	92.4
72.5°	77.6	80.6	138.0	191.9	175.3	117.3	94.2	97.1	*91.8*	90.0	75.2
75°	23.7	24.9	35.5	41.5	42.1	42.1	56.9	76.4	*72.3*	72.9	58.0
77.5°	5.9	5.9	9.5	8.9	4.7	4.1	10.7	17.2	*17.8*	16.0	11.8
80°	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	*0.6*	0.6	0.6
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: P634528
CATALOG NUMBER: GWS-SA3B-830-U-T2-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	818.6	818.6	818.6	818.6	818.6	818.6	818.6	818.6	818.6	818.6	818.6
2.5°	829.9	814.5	804.4	790.2	780.1	769.4	760.0	752.3	748.1	746.9	747.5
5°	848.8	824.5	800.8	773.6	754.6	736.9	722.6	711.4	706.1	704.3	704.3
7.5°	877.8	844.1	802.0	759.4	727.4	699.5	683.0	670.5	665.8	664.6	661.0
10°	915.7	869.5	800.2	733.9	688.9	659.9	648.0	644.5	646.2	646.8	646.2
12.5°	961.4	896.2	789.0	696.6	648.0	630.2	631.4	640.9	651.6	656.9	658.1
15°	1009.9	920.5	763.5	652.2	613.1	612.5	629.6	651.6	672.3	681.2	683.6
17.5°	1064.4	940.0	724.4	604.8	582.9	600.0	630.8	664.6	692.4	707.2	710.2
20°	1124.2	956.0	674.7	560.3	556.2	587.0	629.6	671.1	705.5	722.1	725.0
22.5°	1186.4	967.3	617.2	519.5	531.9	572.2	618.4	658.7	691.3	710.2	712.6
25°	1257.5	968.5	558.6	485.1	509.4	552.1	591.1	624.3	651.6	668.2	669.9
27.5°	1319.7	954.2	506.4	457.3	488.7	527.2	553.2	571.6	590.6	600.0	600.6
30°	1391.4	929.4	457.3	434.8	467.3	496.4	509.4	513.6	515.3	517.1	514.7
32.5°	1476.7	899.2	420.6	412.9	443.1	462.6	466.2	457.9	447.8	433.6	430.0
35°	1581.5	871.9	390.3	391.5	416.4	428.3	425.3	407.5	388.0	370.8	367.8
37.5°	1695.3	848.8	367.2	370.8	387.4	395.7	386.8	367.2	358.4	343.6	344.1
40°	1796.0	829.9	346.5	350.1	357.8	365.5	351.3	338.2	354.8	353.6	354.8
42.5°	1867.6	813.9	328.7	327.0	332.3	337.6	327.0	320.5	348.3	340.6	344.7
45°	1909.7	799.1	313.9	303.3	311.6	321.0	313.9	305.6	315.1	279.6	276.6
47.5°	1938.1	790.8	300.9	280.2	295.0	311.6	296.8	276.6	263.0	232.2	229.8
50°	1941.1	786.6	285.5	256.5	275.4	293.2	276.0	248.2	228.6	215.0	213.2
52.5°	1956.5	794.9	264.2	226.3	247.0	275.4	263.6	235.7	209.1	197.2	194.9
55°	2025.2	829.9	228.6	184.8	215.0	261.8	253.5	210.3	184.8	177.7	175.9
57.5°	*2096.3*	*837.0*	*180.1*	*146.3*	*187.2*	*242.3*	*231.6*	*193.7*	*168.8*	*160.5*	*158.7*
60°	1916.8	689.5	135.1	120.8	165.3	223.9	214.4	183.6	154.6	144.5	142.8
62.5°	1259.3	372.6	107.2	102.5	139.2	189.5	195.5	165.9	138.0	127.4	126.8
65°	580.5	173.0	82.3	81.1	109.0	151.0	168.2	145.1	116.7	107.2	107.2
67.5°	158.2	85.9	64.6	59.8	74.0	101.3	122.6	108.4	82.9	71.7	71.1
70°	78.8	69.3	58.0	51.5	53.3	62.8	72.3	60.4	42.1	34.4	33.8
72.5°	64.6	56.9	49.2	43.8	40.3	38.5	37.3	30.2	19.5	14.8	14.2
75°	48.0	40.9	34.9	28.4	24.3	22.5	20.1	14.8	8.3	4.7	4.1
77.5°	10.7	10.1	9.5	7.1	6.5	5.3	4.1	3.0	1.2	0.0	0.0
80°	0.6	0.6	0.6	0.6	0.6	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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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

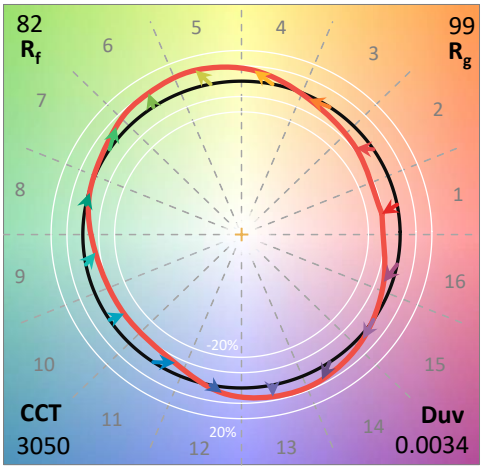
Test Information

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

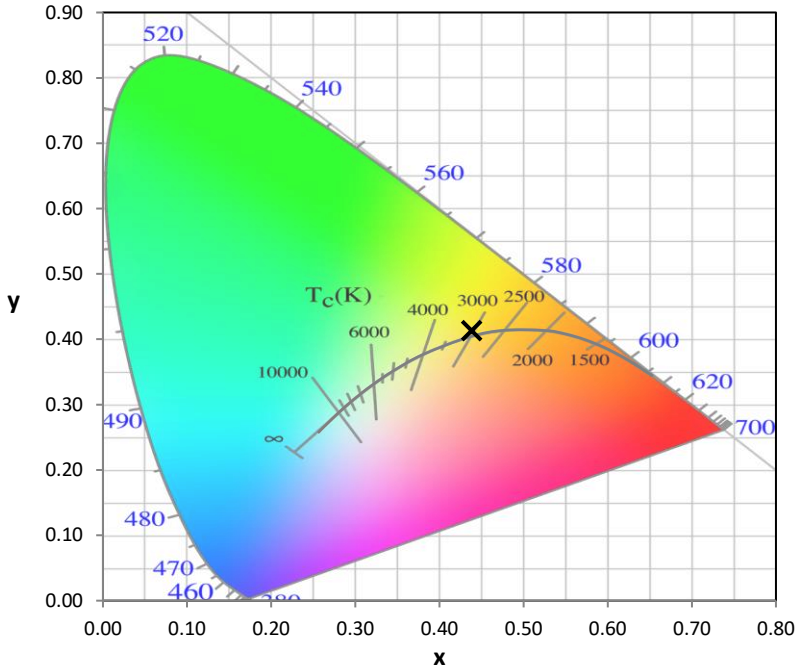
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

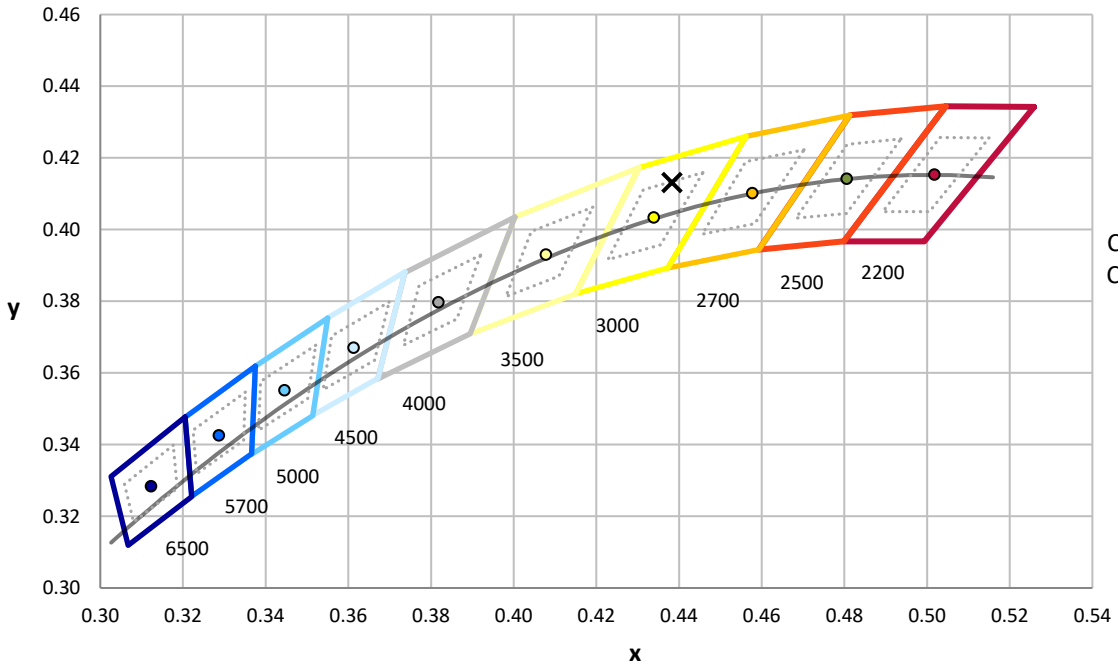
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

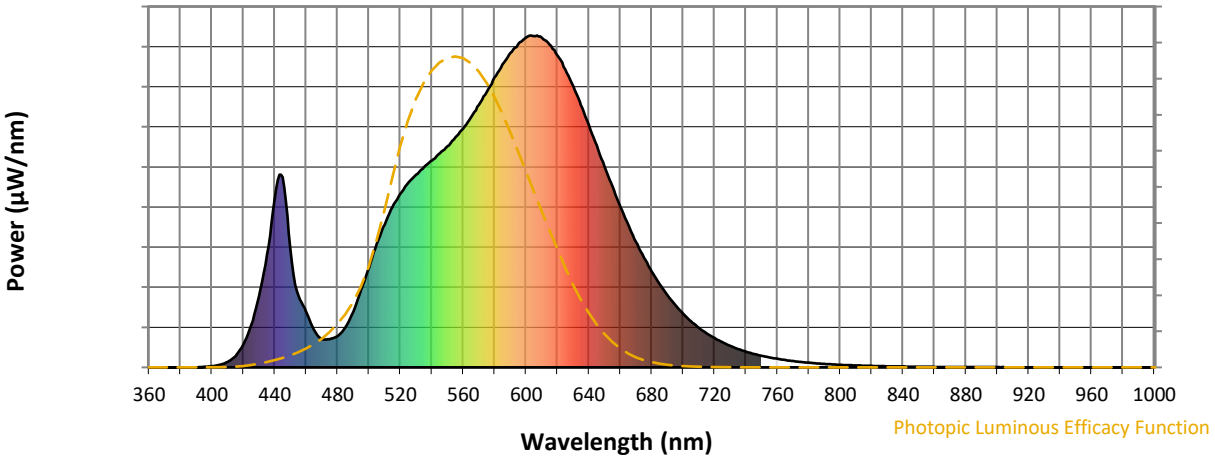


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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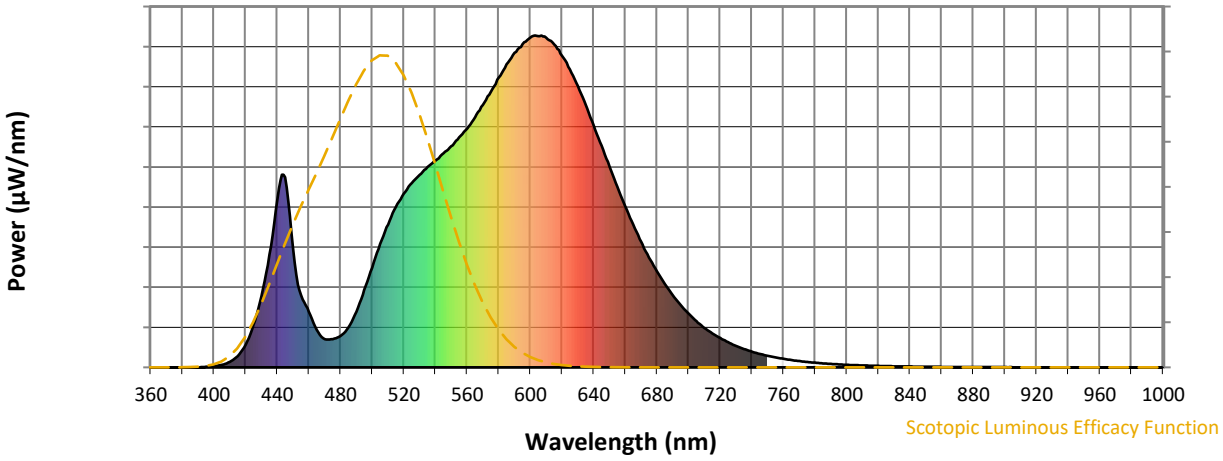
Scotopic Flux vs. Wavelength



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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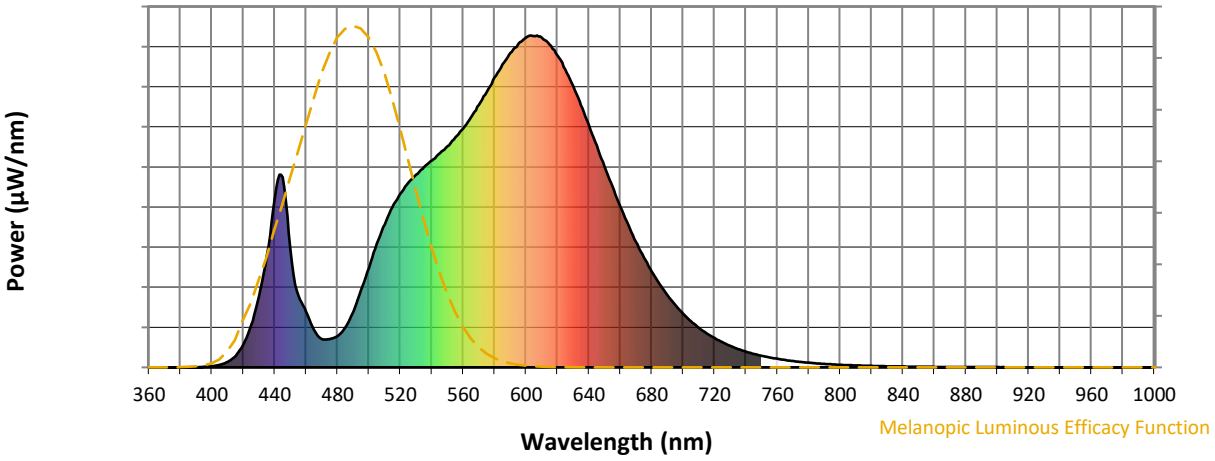
Melanopic Flux vs. Wavelength



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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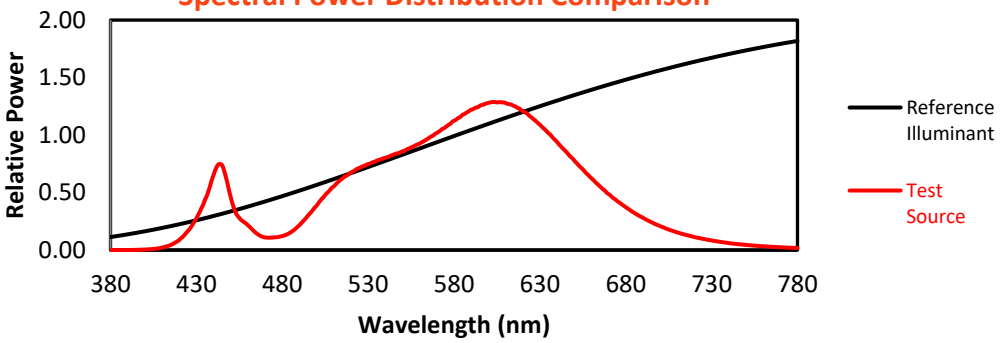
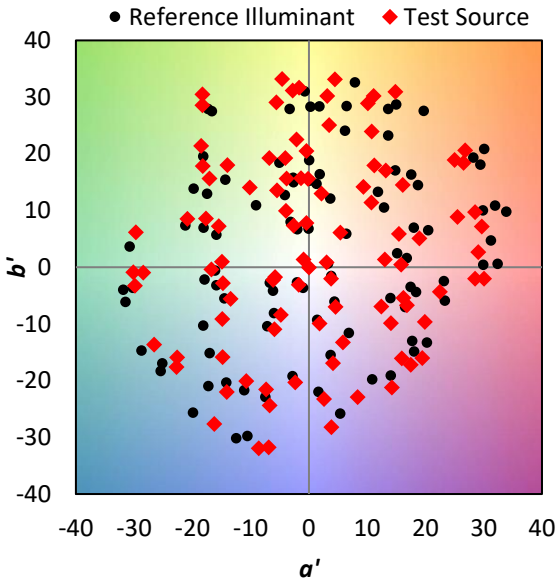
Summary

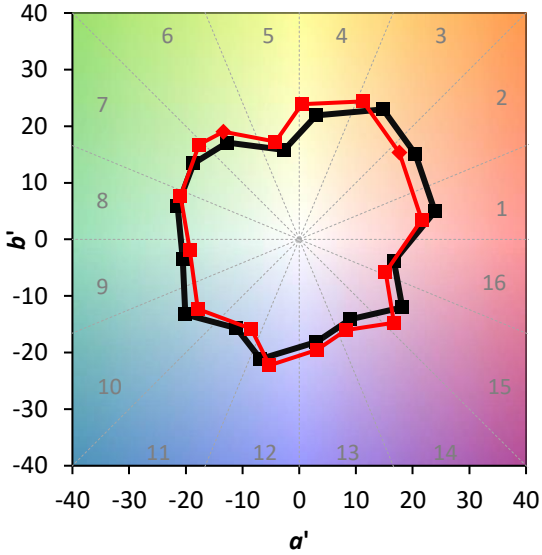
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

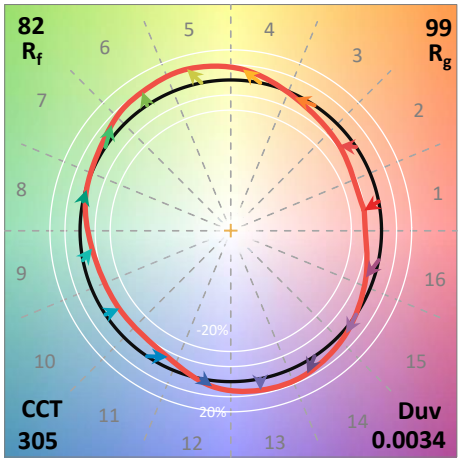
Spectral Power Distribution Comparison

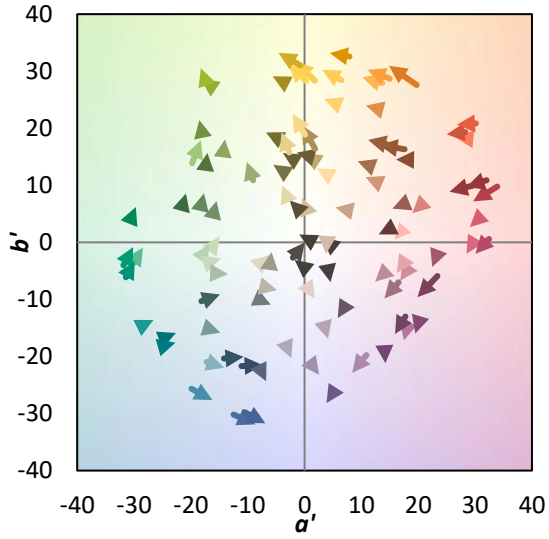


Color Vector Graphics









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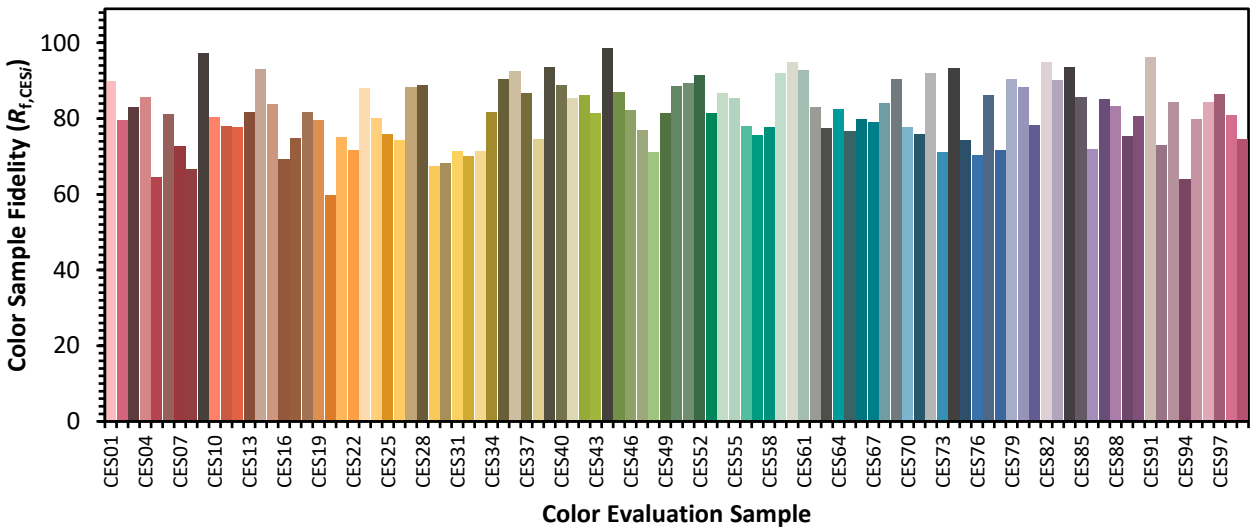
Individual Sample Fidelity Index ($R_{f,i}$)

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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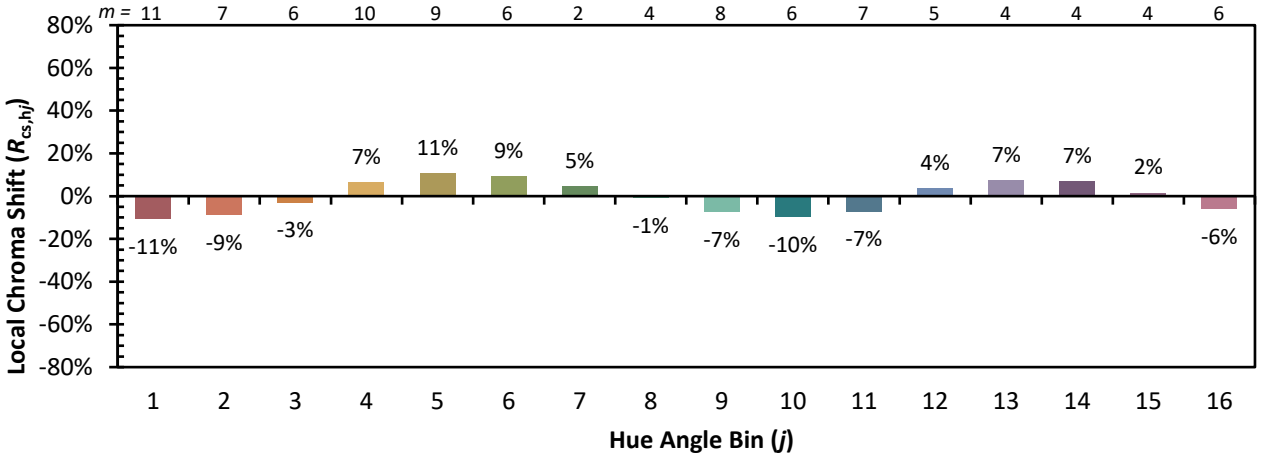
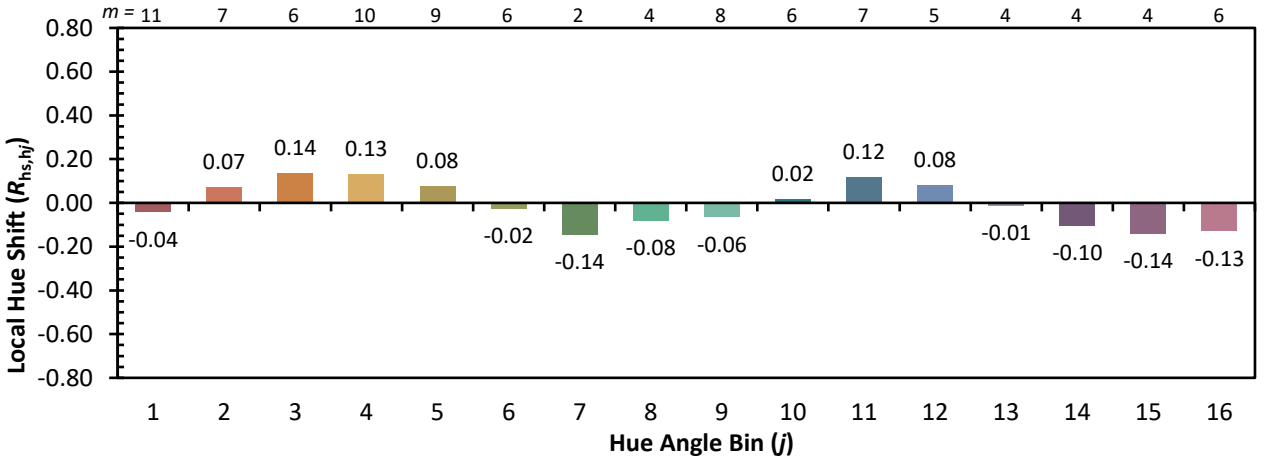
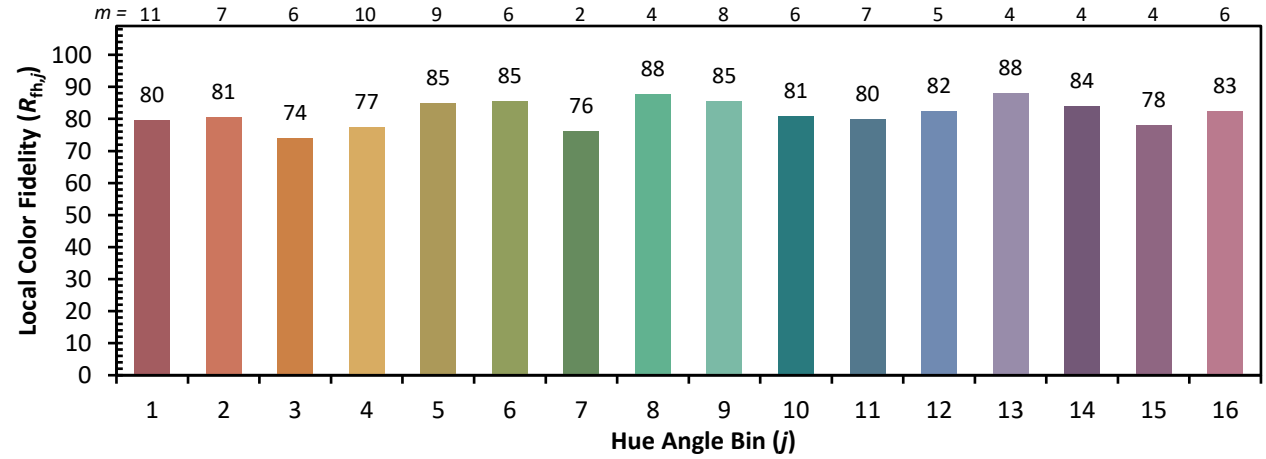
Color Rendition by Hue-Angle Bin







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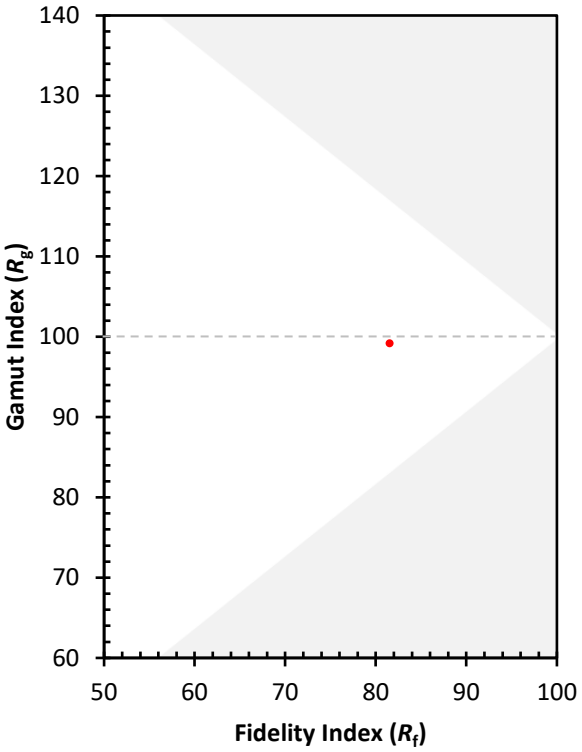
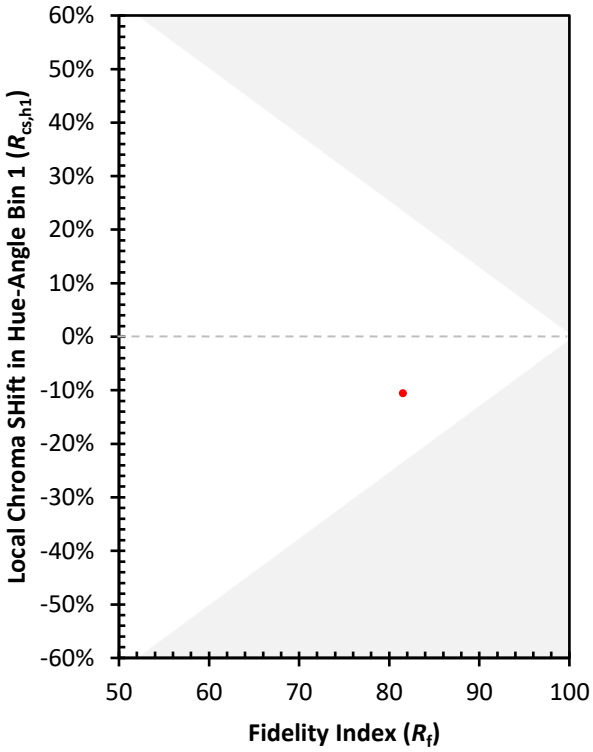
Measure Comparisons





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