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: P632068

Luminaire Tested: GWS-SA2B-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:	P632068
	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-SA2B-830-U-T3R-W
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5573.2 lumens
Efficiency:	N/A
Efficacy:	120.1 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B1 - U0 - G2

Input Watts (W):	46.4
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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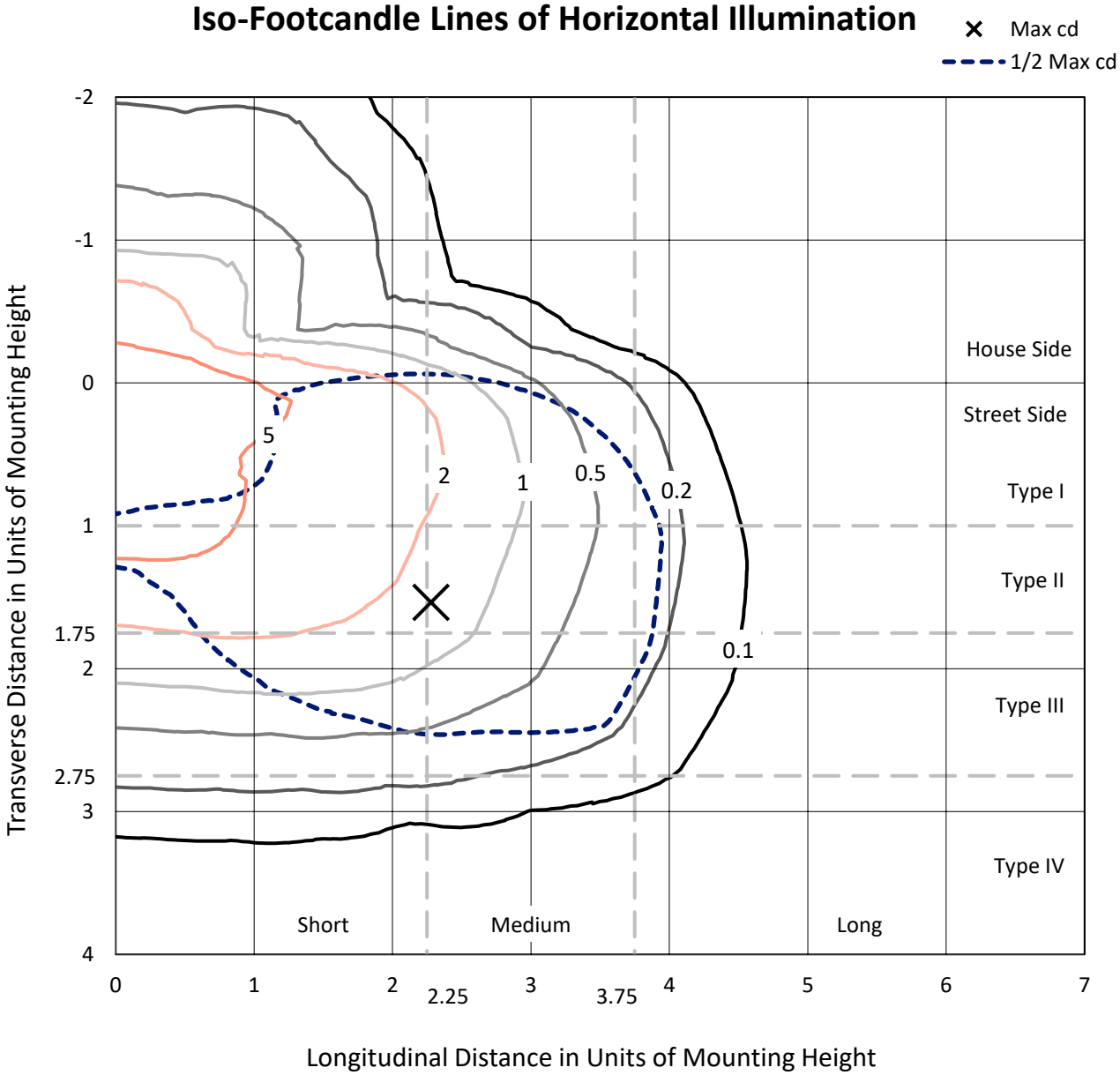
REPORT NUMBER: P632068
CATALOG NUMBER: GWS-SA2B-830-U-T3R-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 9.3 fc
Type III - Medium - N/A

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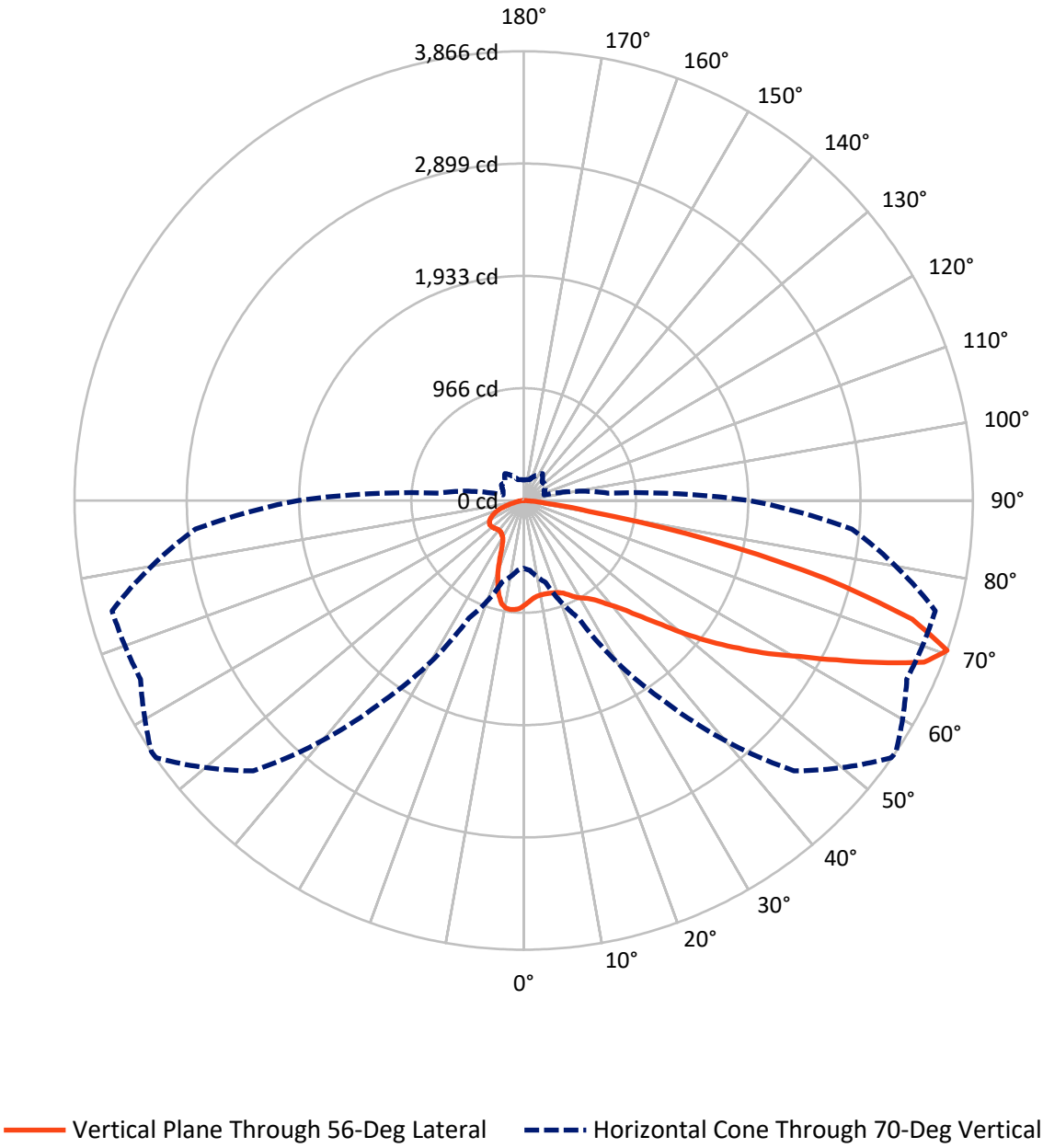
Luminous Intensity Polar Plot



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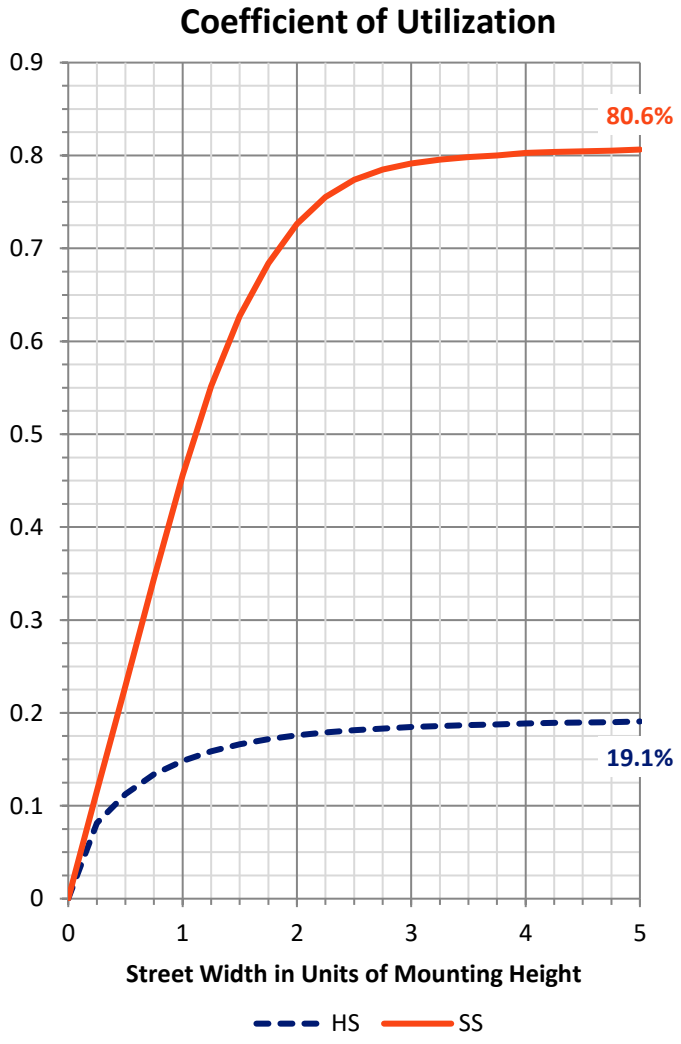
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1071.5	0.0	1071.5
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	4501.8	0.0	4501.8
	% Fixture	80.8	0.0	80.8
Total	Lumens	5573.2	0.0	5573.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	1.5
10°-20°	225.6	4.0
20°-30°	372.9	6.7
30°-40°	557.6	10.0
40°-50°	829.7	14.9
50°-60°	1179.6	21.2
60°-70°	1461.0	26.2
70°-80°	806.7	14.5
80°-90°	56.8	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°	5573.2	100.0
0°-180°	5573.2	100.0



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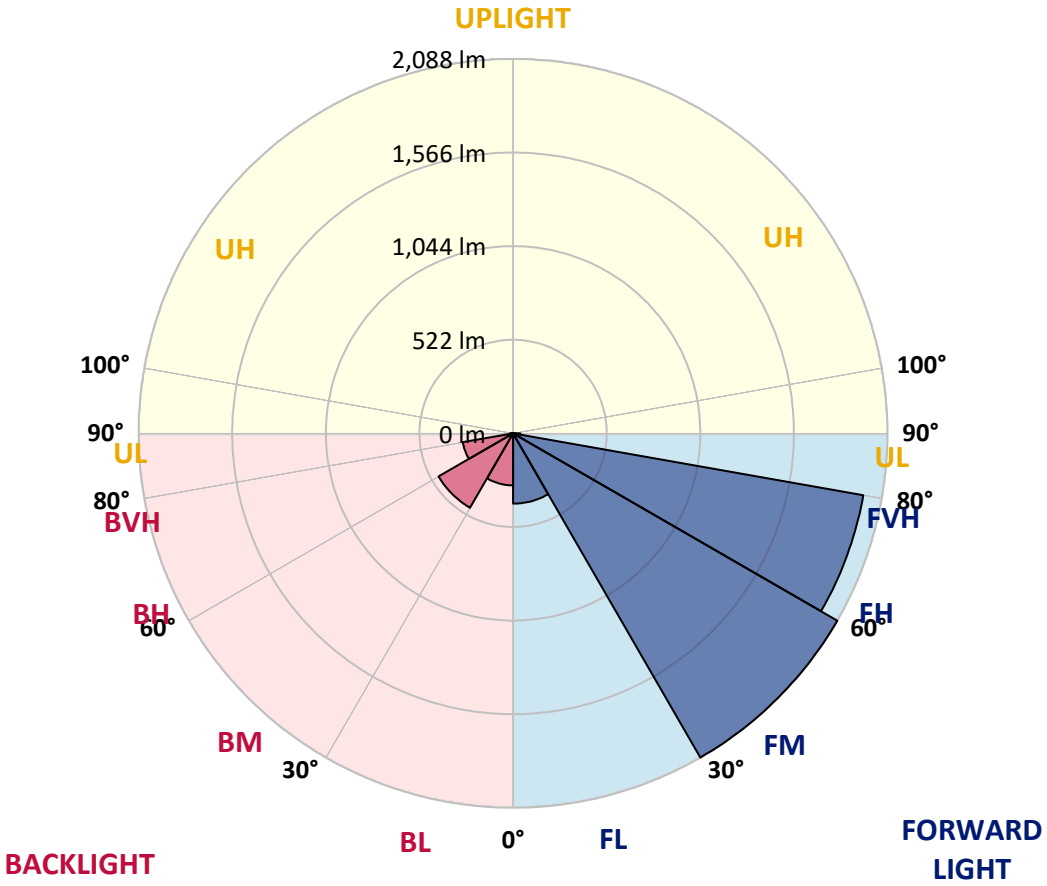
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	391.7	7.0			
FM	(30°-60°)	2087.6	37.5			
FH	(60°-80°)	1983.0	35.6			G2/5000
FVH	(80°-90°)	39.5	0.7			G1/100
BL	(0°-30°)	290.0	5.2	B1/500		
BM	(30°-60°)	479.3	8.6	B1/1000		
BH	(60°-80°)	284.8	5.1	B1/500		G1/500
BVH	(80°-90°)	17.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type III Medium



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Scaled Data Report

REPORT NUMBER: P632068
CATALOG NUMBER: GWS-SA2B-830-U-T3R-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	899.6	899.6	899.6	899.6	899.6	899.6	899.6	*899.6*	899.6	899.6	899.6
2.5°	841.8	837.1	842.6	845.4	852.4	862.7	871.7	*872.1*	876.8	888.2	899.2
5°	803.7	801.3	802.9	811.2	818.6	831.6	845.4	*846.5*	859.9	882.3	904.3
7.5°	774.2	771.1	777.0	787.6	797.0	811.6	829.6	*831.2*	850.1	883.9	917.7
10°	731.8	729.4	740.4	754.6	775.0	799.0	823.0	*824.9*	849.7	894.1	941.3
12.5°	713.3	713.3	718.0	731.4	753.8	785.6	821.8	*824.9*	856.0	909.8	971.5
15°	742.0	744.0	740.0	739.3	748.3	778.6	823.4	*828.1*	867.8	925.9	1001.4
17.5°	799.8	801.7	791.5	775.4	766.4	785.2	829.3	*834.4*	880.3	943.6	1033.6
20°	880.7	883.1	860.7	835.9	804.9	804.5	840.6	*845.4*	896.5	962.9	1067.8
22.5°	975.5	977.0	948.7	909.4	861.9	840.3	860.3	*865.0*	917.3	989.6	1104.8
25°	1085.1	1089.8	1055.6	998.6	934.2	889.4	892.9	*898.4*	954.6	1025.4	1148.4
27.5°	1202.2	1208.1	1168.8	1105.9	1017.1	943.6	935.0	*939.7*	994.3	1047.4	1171.6
30°	1322.1	1326.4	1287.1	1215.2	1106.3	1004.9	970.3	*973.1*	1011.6	1058.0	1195.1
32.5°	1455.3	1451.8	1414.1	1331.1	1209.3	1078.4	1003.4	*1002.6*	1030.9	1079.2	1228.9
35°	1580.3	1585.4	1545.3	1453.7	1322.5	1169.2	1052.9	*1049.7*	1071.7	1113.8	1276.5
37.5°	1731.6	1730.0	1682.1	1583.0	1436.1	1256.1	1122.4	*1116.9*	1124.8	1167.6	1342.9
40°	1839.7	1850.7	1819.6	1727.3	1568.9	1363.0	1203.8	*1191.6*	1193.6	1234.1	1431.7
42.5°	1928.1	1938.3	1941.5	1882.5	1721.0	1495.0	1305.2	*1293.0*	1294.2	1351.6	1541.0
45°	1996.1	2009.9	2054.3	2037.0	1892.3	1647.5	1442.3	*1429.8*	1430.6	1494.2	1673.0
47.5°	2024.0	2038.9	2128.9	2170.2	2074.3	1829.9	1612.9	*1594.4*	1597.2	1667.5	1824.0
50°	2015.0	2035.0	2156.8	2272.8	2226.8	2015.4	1816.9	*1803.9*	1793.3	1895.5	1987.8
52.5°	1937.1	1959.2	2154.1	2338.0	2351.4	2190.6	2027.5	*2020.1*	2017.7	2137.6	2171.0
55°	1708.0	1745.0	2059.4	2355.3	2448.8	2355.7	2255.9	*2243.3*	2255.5	2397.0	2356.1
57.5°	1581.1	1608.6	1873.9	2336.1	2528.6	2512.9	2483.8	*2485.0*	2498.8	2678.8	2580.5
60°	1508.8	1541.0	1770.9	2283.4	2605.3	2703.9	2722.4	*2722.4*	2747.1	2982.6	2808.5
62.5°	1412.9	1445.5	1674.6	2182.0	2676.0	2928.7	3022.2	*3021.1*	3030.9	3308.4	3031.3
65°	1218.3	1248.6	1481.3	2022.0	2710.6	3176.3	3363.0	*3359.5*	3339.8	3598.4	3178.7
67.5°	884.7	913.4	1134.6	1717.8	2586.0	3376.0	3713.9	*3715.5*	3598.0	3781.2	3186.5
70°	*583.2*	*602.9*	*729.4*	*1115.8*	*2103.0*	*3289.9*	*3860.9*	*3865.6*	*3637.7*	*3667.2*	*2836.0*
72.5°	363.9	377.7	455.5	665.4	1242.7	2604.1	3483.6	*3496.6*	3272.6	3222.7	2330.2
75°	241.7	251.1	303.0	387.9	575.0	1409.3	2648.1	*2689.8*	2622.9	2526.3	1623.5
77.5°	145.4	153.3	193.0	246.4	254.7	550.6	1545.7	*1653.4*	1662.8	1318.9	679.9
80°	66.4	75.5	106.5	140.7	135.6	191.8	545.1	*570.3*	672.8	418.9	214.6
82.5°	39.3	43.2	70.7	70.0	57.8	93.1	196.1	*201.2*	171.0	153.3	91.6
85°	15.7	18.5	29.9	26.3	21.2	30.3	73.9	*77.4*	74.3	66.8	33.8
87.5°	0.0	0.0	0.0	0.0	0.4	0.8	6.7	*7.1*	10.2	18.5	10.2
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-SA2B-830-U-T3R-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	899.6	899.6	899.6	899.6	899.6	899.6	899.6	899.6	899.6	899.6	899.6
2.5°	906.3	903.9	915.7	924.8	928.7	932.6	929.1	927.9	927.9	920.0	916.1
5°	916.1	917.3	933.4	940.9	940.9	937.7	928.3	921.6	919.3	909.0	906.3
7.5°	934.6	939.7	954.6	954.2	943.2	925.9	902.4	884.3	867.8	860.7	856.4
10°	964.8	971.5	981.7	965.2	934.6	889.0	839.1	799.8	776.2	757.3	757.3
12.5°	999.4	1005.7	1003.7	965.6	902.4	817.1	745.1	700.0	666.9	649.6	649.6
15°	1034.0	1039.1	1017.9	947.5	835.1	721.6	643.0	588.7	560.0	543.9	543.9
17.5°	1069.0	1068.6	1023.8	905.9	747.5	615.8	538.8	496.8	486.9	484.2	483.8
20°	1102.8	1093.7	1016.3	836.3	645.7	509.3	460.6	463.4	477.9	484.2	485.0
22.5°	1140.9	1118.5	994.3	747.5	530.2	435.5	438.6	461.4	482.6	492.0	493.2
25°	1179.8	1139.7	957.4	643.4	433.5	408.3	432.7	458.2	482.2	494.4	495.6
27.5°	1195.5	1139.7	894.5	522.7	382.0	396.9	423.7	448.4	473.6	487.7	490.5
30°	1208.5	1129.9	806.5	413.8	360.8	385.9	409.1	431.9	456.7	474.0	477.1
32.5°	1226.6	1121.3	700.0	347.8	351.0	375.3	391.4	410.7	433.1	444.5	443.3
35°	1247.8	1107.9	571.4	316.4	342.7	366.3	377.7	389.1	378.9	378.5	379.6
37.5°	1278.1	1096.1	459.4	302.2	337.2	360.0	369.4	345.1	330.9	325.0	322.7
40°	1321.7	1091.4	362.4	294.0	336.4	359.6	352.9	315.2	295.9	275.5	275.1
42.5°	1376.7	1087.9	299.5	290.0	339.2	368.6	330.1	295.5	255.8	246.8	246.0
45°	1447.5	1082.3	268.0	289.3	345.8	375.7	327.8	268.4	241.3	237.4	237.4
47.5°	1532.7	1073.7	253.9	289.3	353.3	372.6	320.7	262.5	234.6	239.0	241.7
50°	1630.6	1062.7	246.4	288.5	360.8	372.6	305.8	261.4	233.1	255.5	264.5
52.5°	1735.1	1050.1	241.3	285.3	365.9	373.0	306.5	265.3	234.6	259.4	266.9
55°	1850.7	1048.2	234.2	278.6	367.5	362.7	308.5	273.9	237.0	235.0	235.4
57.5°	1996.5	1071.7	229.1	268.8	361.2	341.9	312.4	280.2	234.2	234.6	237.4
60°	2149.0	1116.1	233.4	259.4	348.2	322.3	315.2	277.1	220.9	214.6	215.4
62.5°	2278.7	1149.9	237.0	255.1	329.3	305.0	312.4	270.0	213.4	211.8	215.4
65°	2332.9	1122.0	228.3	246.0	301.8	283.8	306.5	261.0	207.1	201.2	201.6
67.5°	2272.8	991.2	211.4	226.0	270.8	256.6	297.1	249.2	198.5	191.4	189.8
70°	*1941.5*	*728.2*	*182.4*	*194.1*	*233.1*	*224.8*	*282.6*	*233.8*	*184.7*	*179.6*	*176.1*
72.5°	1564.6	515.6	151.3	154.5	182.7	189.4	257.4	214.6	169.0	154.5	149.3
75°	1089.0	323.8	126.2	123.0	132.1	144.6	200.8	178.0	145.8	130.5	125.8
77.5°	468.5	166.2	98.6	97.1	88.0	100.2	154.1	148.6	122.2	104.5	101.8
80°	156.8	96.3	71.1	68.4	58.6	70.3	108.5	118.7	95.9	77.4	72.7
82.5°	78.6	55.8	45.2	40.9	39.3	44.4	64.1	73.9	66.4	53.4	45.2
85°	38.5	31.8	24.8	24.4	20.4	19.3	26.7	31.4	29.9	22.0	20.8
87.5°	14.1	12.6	7.9	6.3	3.9	2.8	1.6	1.6	1.2	1.2	1.2
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

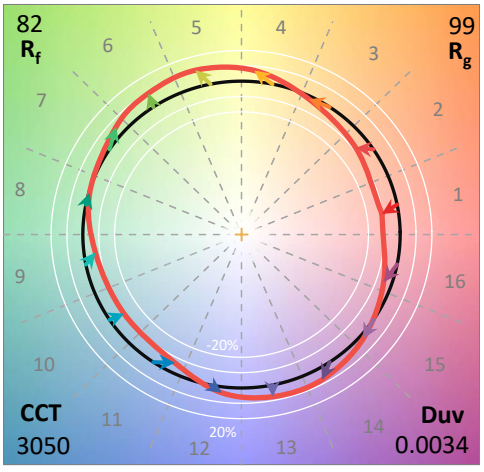
Test Information

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

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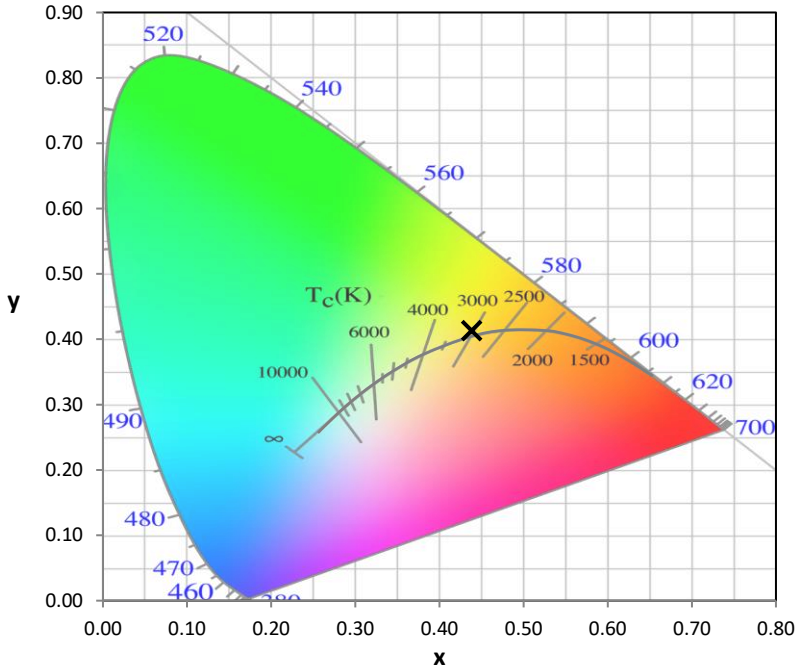
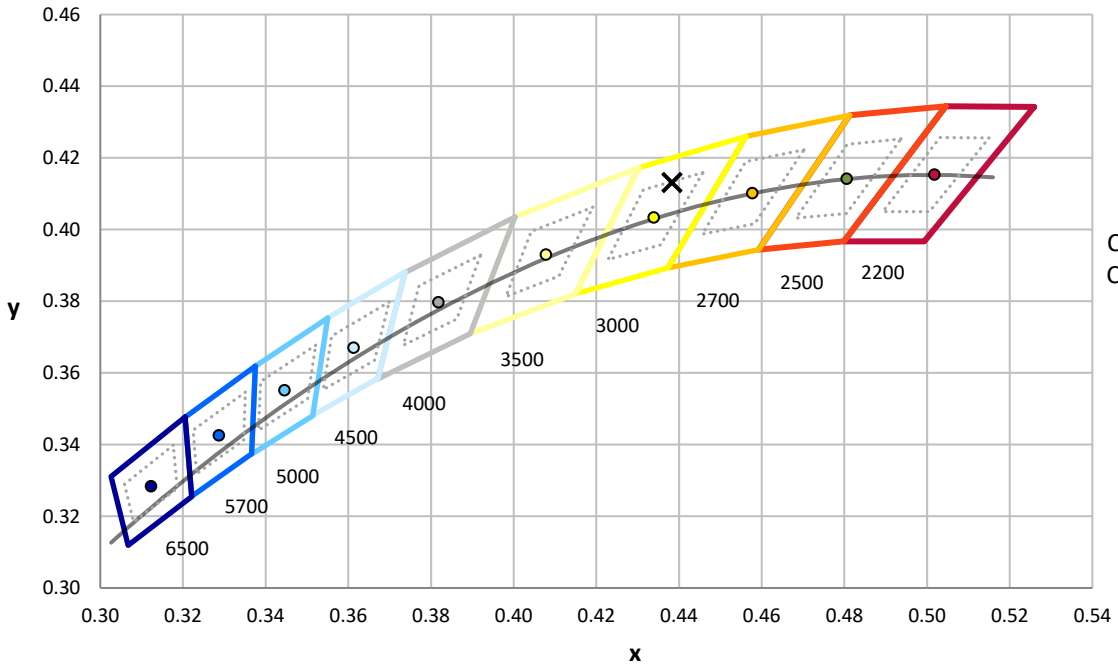
CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles

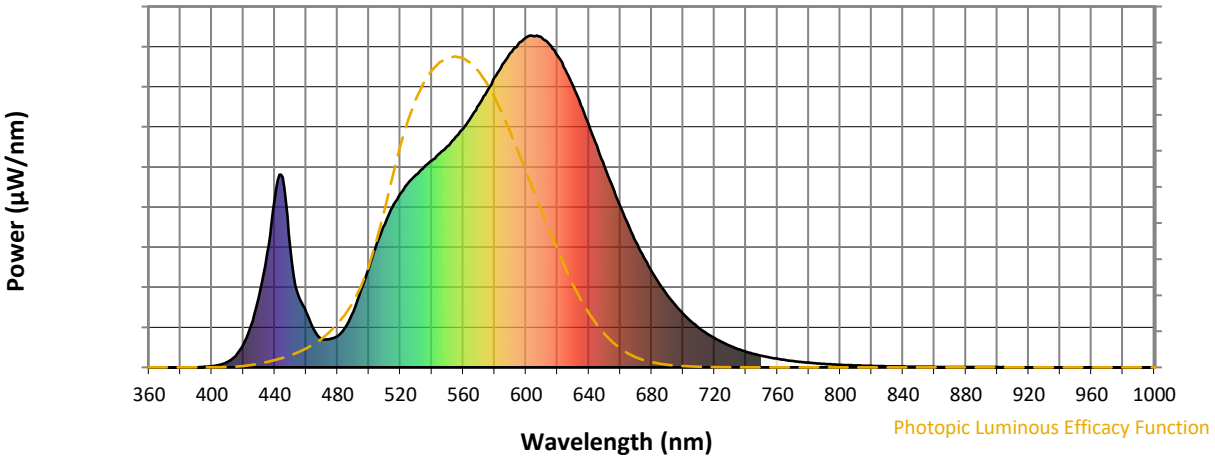


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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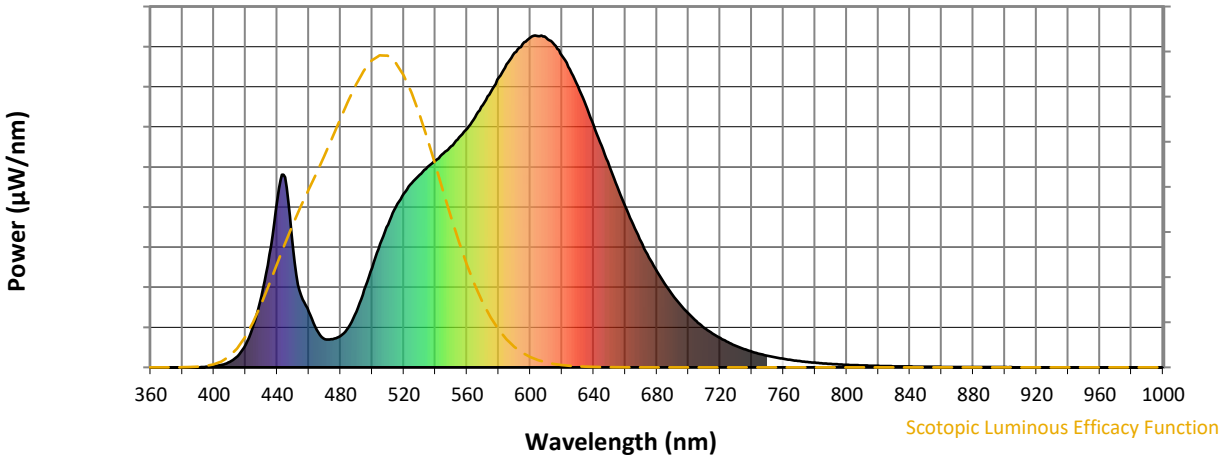
Scotopic Flux vs. Wavelength



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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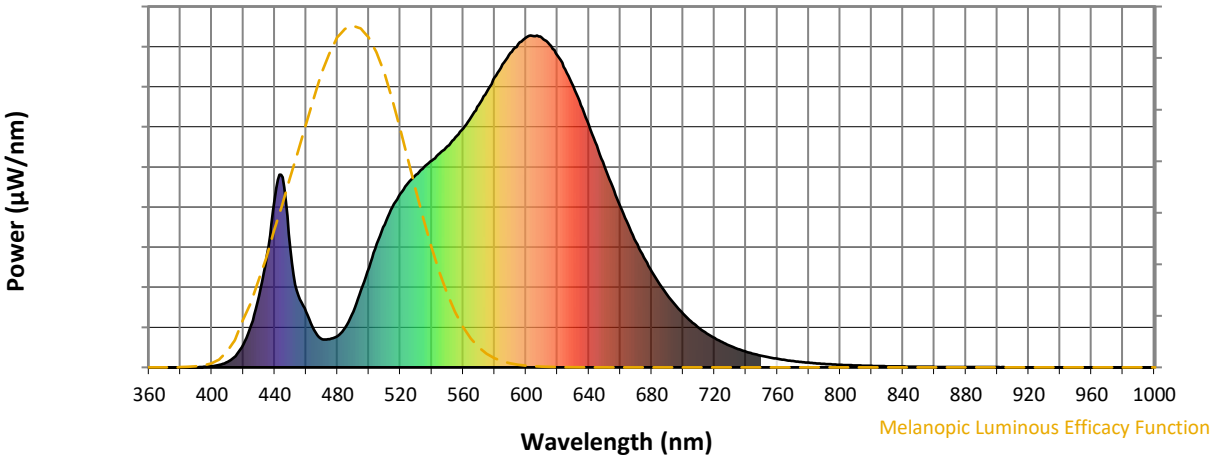
Melanopic Flux vs. Wavelength



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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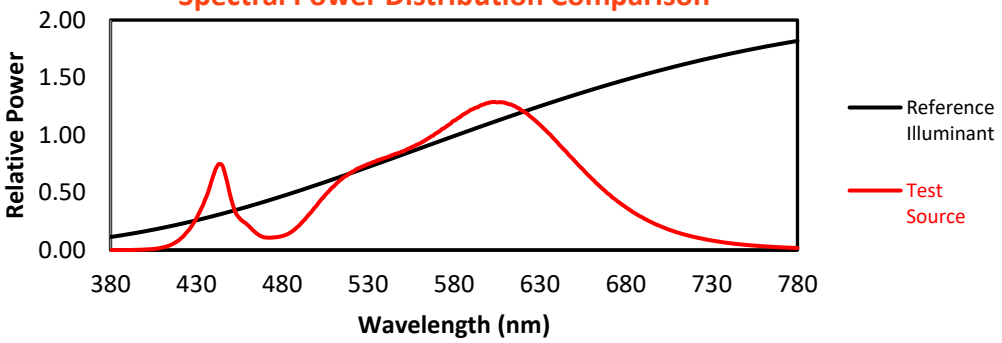
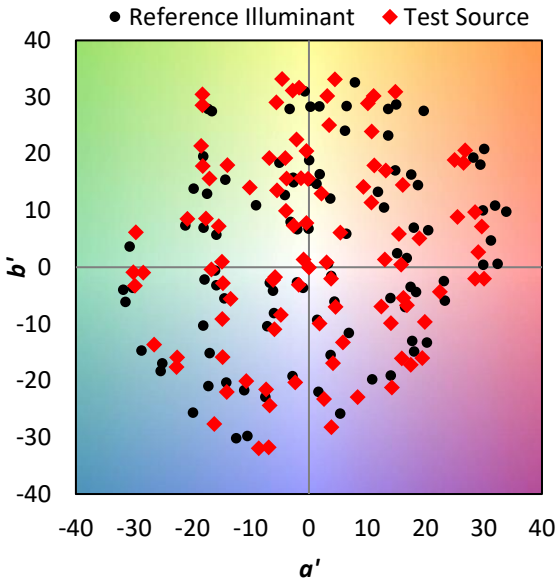
Summary

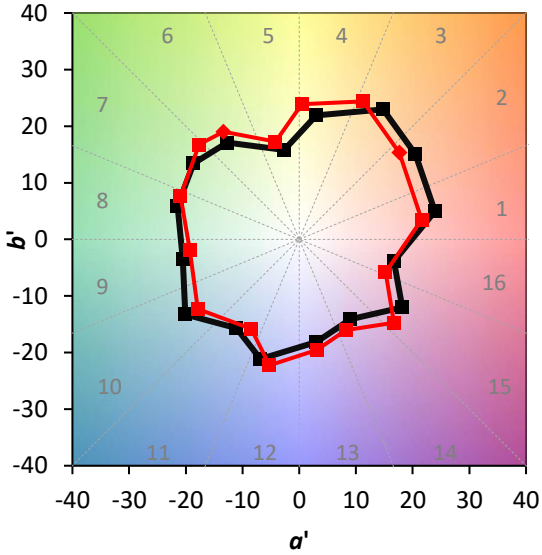
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

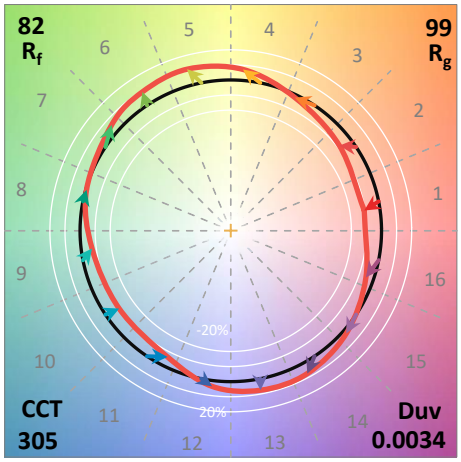
Spectral Power Distribution Comparison

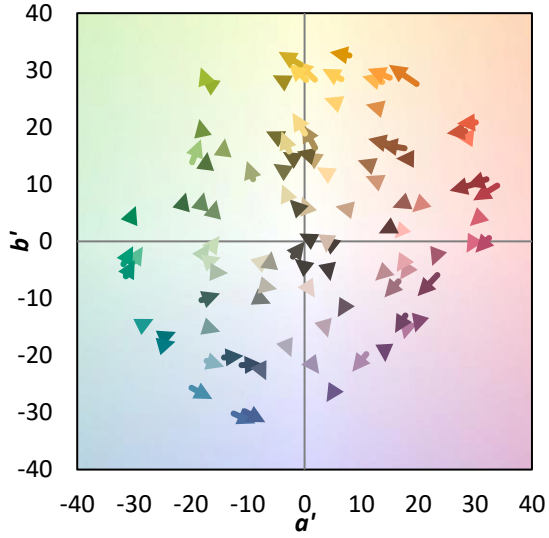


Color Vector Graphics









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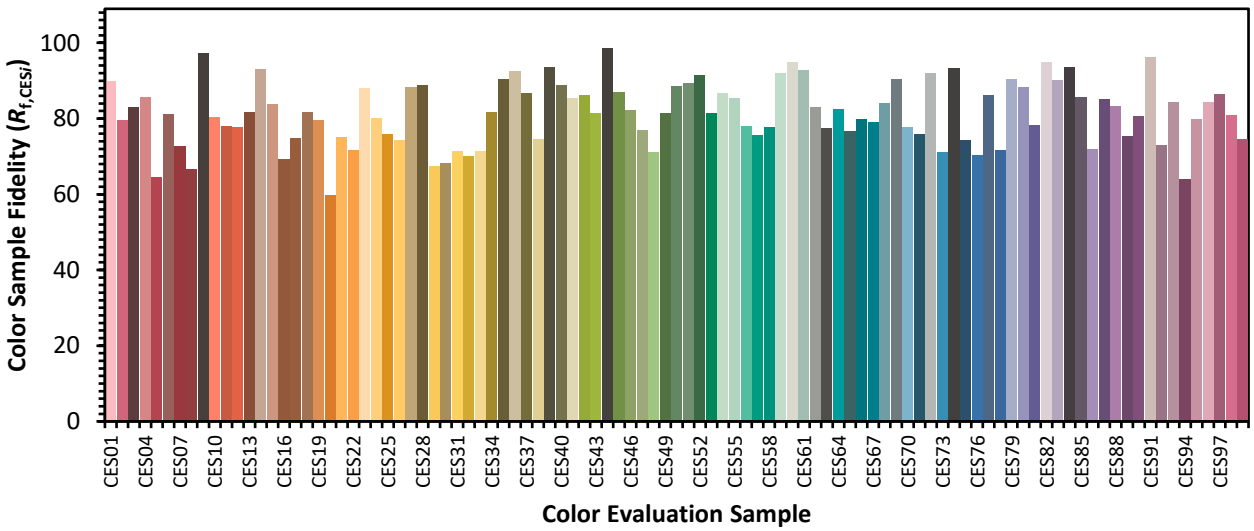
Individual Sample Fidelity Index ($R_{f,i}$)

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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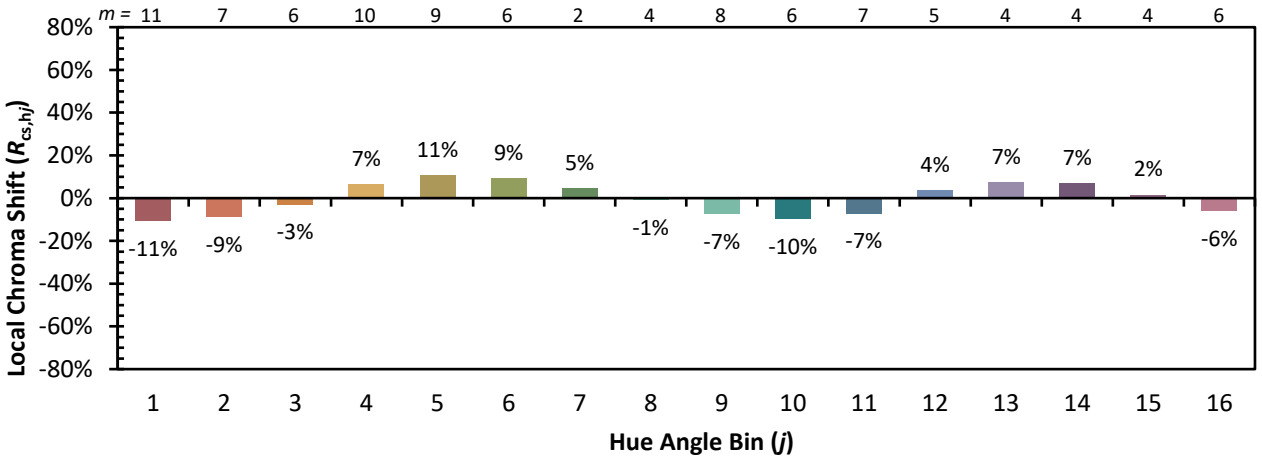
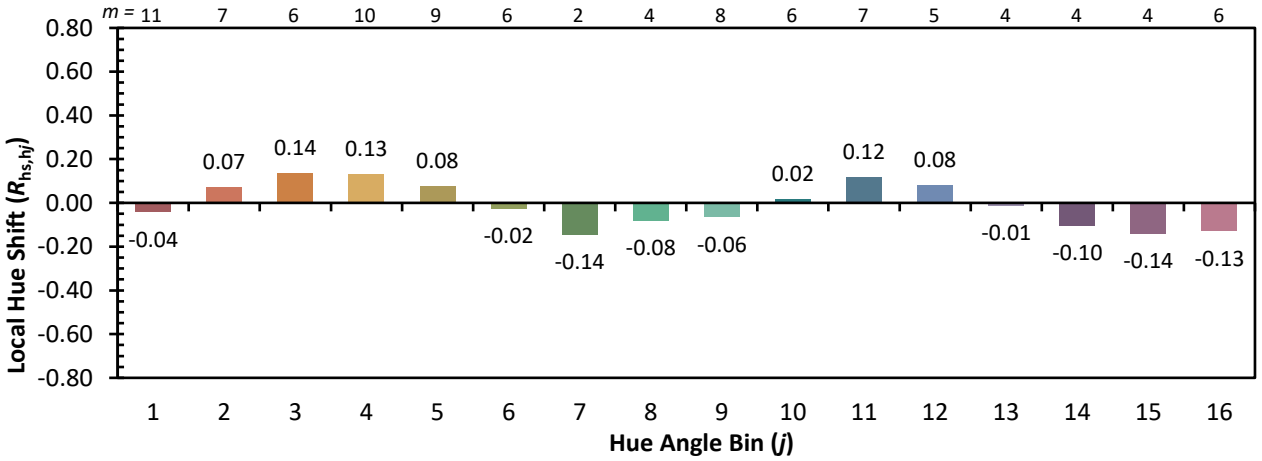
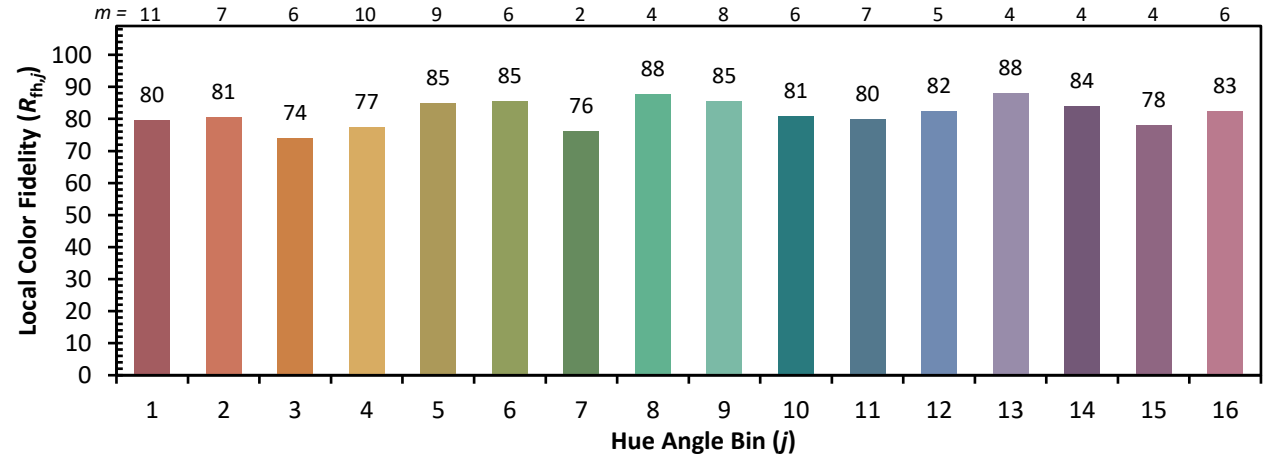
Color Rendition by Hue-Angle Bin







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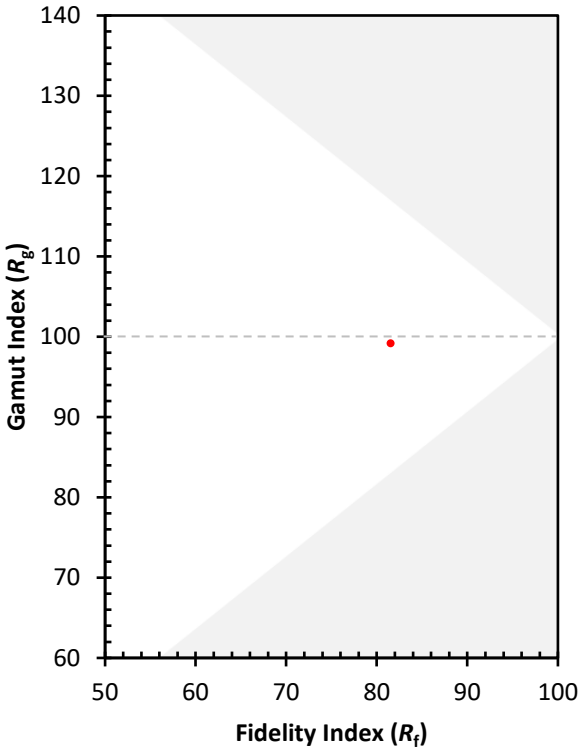
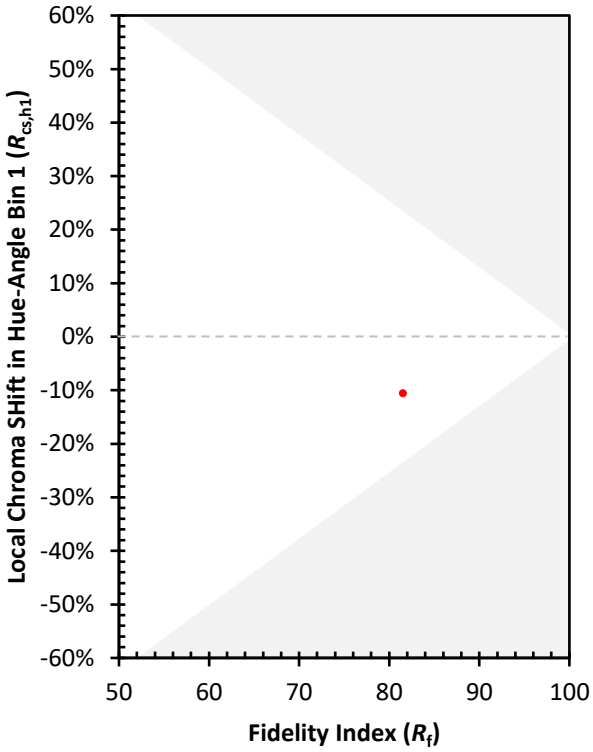
Measure Comparisons





(END OF REPORT)