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: P630078

Luminaire Tested: GWS-SA1C-830-U-T2R-W-GRSWH

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:	P630078
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1C-830-U-T2R-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3360.5 lumens
Efficiency:	N/A
Efficacy:	98.5 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G1

Input Watts (W):	34.1
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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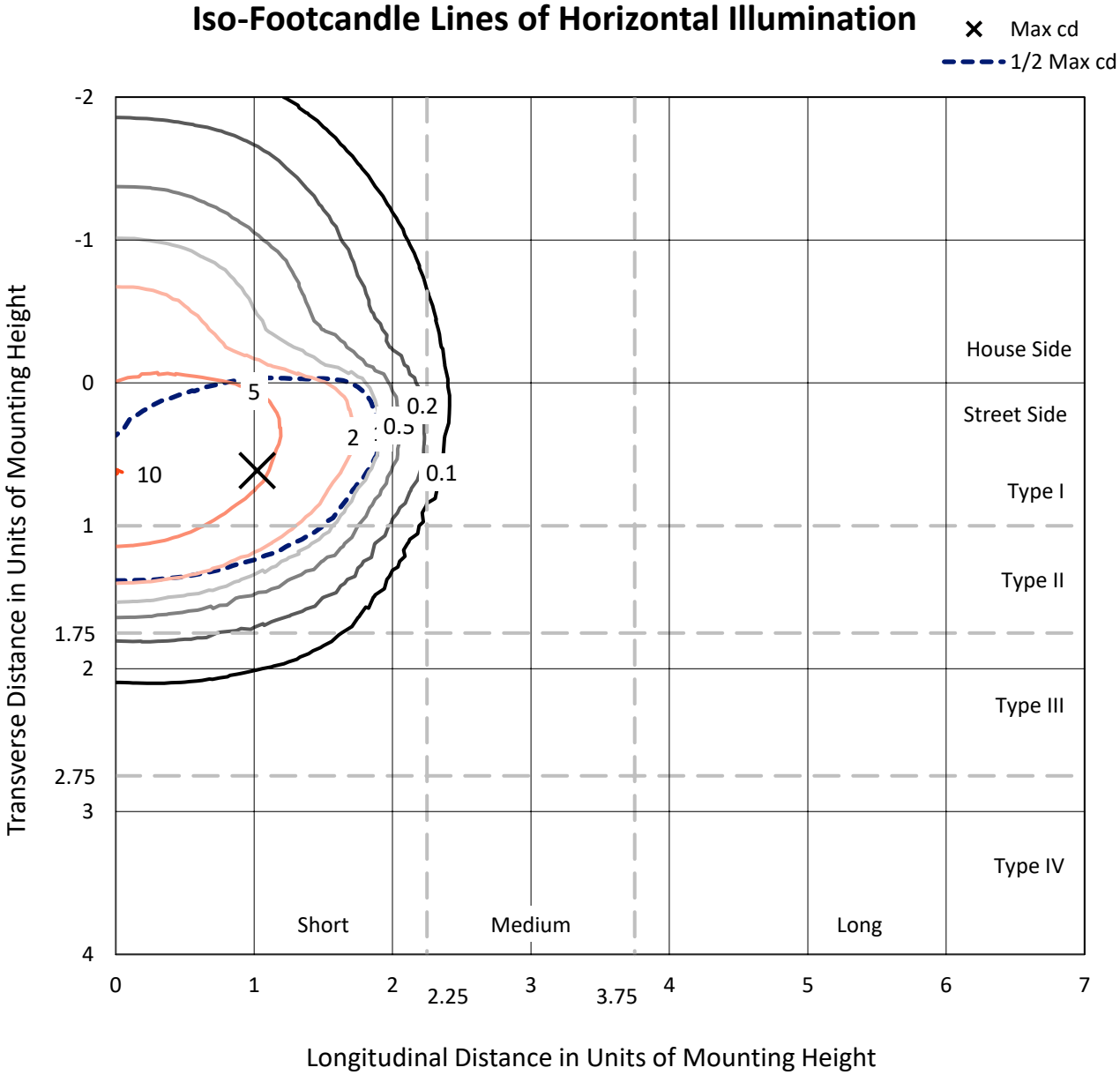
Scaled Data Report

REPORT NUMBER: P630078
CATALOG NUMBER: GWS-SA1C-830-U-T2R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 10.1 fc
Type II - Short - N/A

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REPORT NUMBER: P630078
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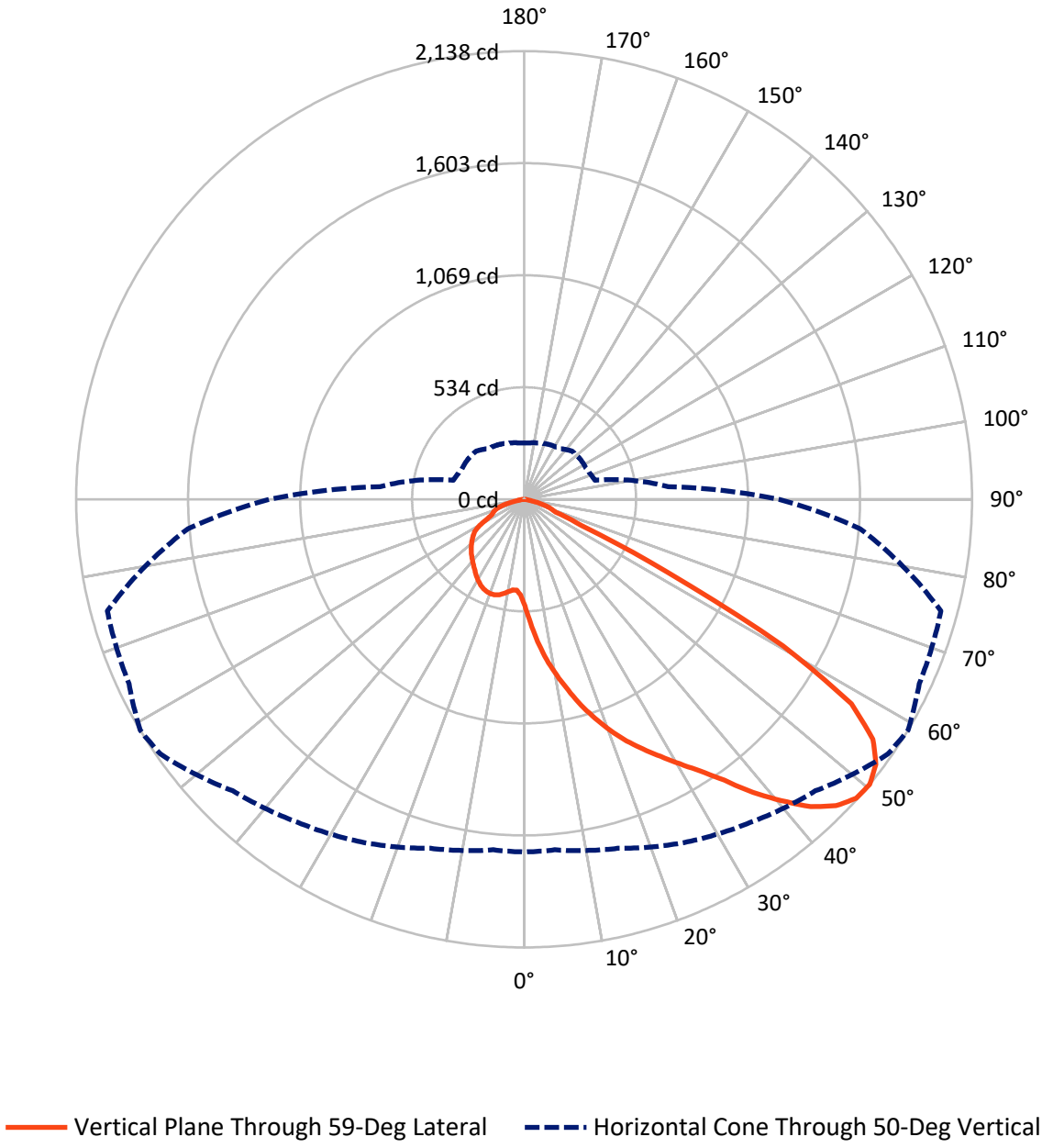
Luminous Intensity Polar Plot



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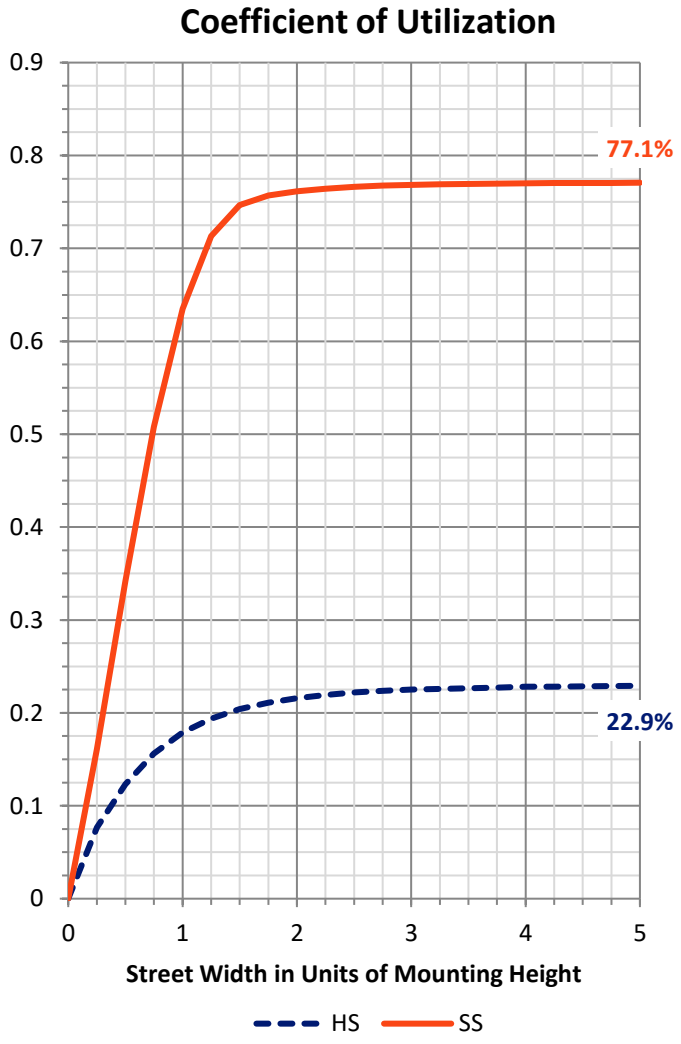
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	773.0	0.0	773.0
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	2587.5	0.0	2587.5
	% Fixture	77.0	0.0	77.0
Total	Lumens	3360.5	0.0	3360.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.1	1.7
10°-20°	207.3	6.2
20°-30°	392.6	11.7
30°-40°	651.1	19.4
40°-50°	889.4	26.5
50°-60°	807.4	24.0
60°-70°	268.9	8.0
70°-80°	78.4	2.3
80°-90°	8.2	0.2
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°	3360.5	100.0
0°-180°	3360.5	100.0



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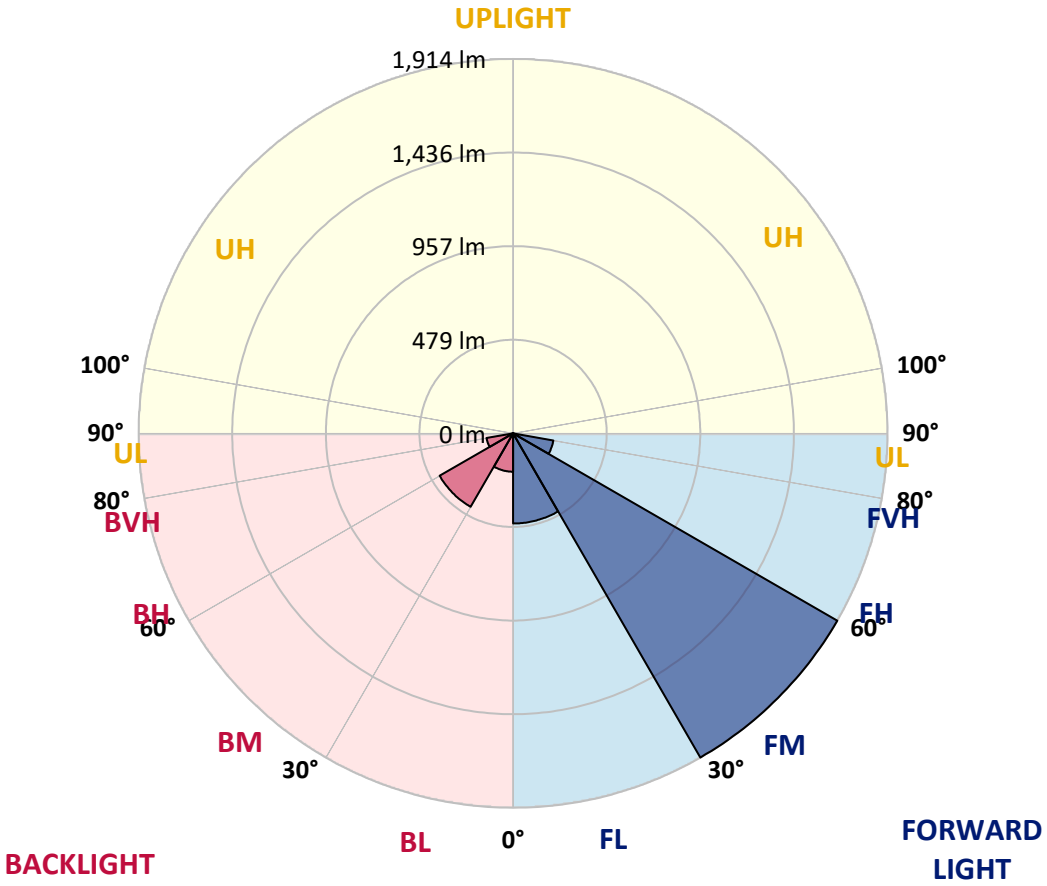
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	460.8	13.7			
FM	(30°-60°)	1914.2	57.0			
FH	(60°-80°)	209.3	6.2			G0/660
FVH	(80°-90°)	3.2	0.1			G0/10
BL	(0°-30°)	196.3	5.8	B1/500		
BM	(30°-60°)	433.7	12.9	B1/1000		
BH	(60°-80°)	138.0	4.1	B1/500		G1/500
BVH	(80°-90°)	5.0	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
Type II Short



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REPORT NUMBER: P630078
CATALOG NUMBER: GWS-SA1C-830-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	509.1	509.1	509.1	509.1	509.1	509.1	509.1	*509.1*	509.1	509.1	509.1
2.5°	659.7	664.6	657.0	657.5	638.3	629.6	604.9	*590.4*	580.9	554.0	529.7
5°	792.7	787.0	781.0	777.4	760.7	737.2	706.5	*682.1*	659.7	607.1	556.5
7.5°	874.3	871.3	867.2	865.0	848.6	823.9	793.3	*772.5*	739.9	668.7	589.1
10°	943.6	940.0	937.5	939.2	925.8	909.9	876.5	*852.7*	816.0	733.9	628.5
12.5°	997.2	999.1	999.9	1008.7	1003.0	993.4	958.9	*933.7*	892.9	802.6	674.7
15°	1039.6	1039.1	1048.7	1065.4	1074.7	1068.6	1041.0	*1019.9*	970.1	870.2	724.6
17.5°	1049.5	1050.0	1065.1	1094.4	1124.8	1139.5	1123.9	*1098.8*	1049.5	937.0	776.3
20°	1057.4	1058.5	1074.1	1107.5	1151.9	1193.2	1195.7	*1177.6*	1135.2	1009.2	828.9
22.5°	1107.5	1110.0	1114.1	1135.2	1175.1	1227.4	1256.2	*1252.3*	1216.7	1085.1	885.5
25°	1239.2	1231.8	1211.8	1205.8	1221.1	1263.5	1312.5	*1319.9*	1302.4	1168.6	946.6
27.5°	1401.8	1393.8	1364.3	1333.1	1299.9	1314.7	1367.0	*1389.2*	1389.5	1260.5	1007.9
30°	1549.3	1543.0	1518.9	1474.3	1417.1	1395.8	1434.4	*1464.2*	1482.0	1366.7	1077.7
32.5°	1675.5	1669.8	1637.2	1600.8	1544.9	1502.0	1515.9	*1544.7*	1586.3	1504.2	1164.5
35°	1781.7	1776.0	1744.8	1708.1	1656.3	1630.6	1625.7	*1645.4*	1699.3	1647.6	1264.1
37.5°	1867.9	1862.2	1829.6	1795.1	1755.7	1757.4	1764.7	*1774.3*	1805.3	1801.1	1370.6
40°	1923.8	1917.8	1894.5	1869.9	1844.9	1864.7	1901.3	*1889.8*	1906.3	1925.1	1468.6
42.5°	1948.7	1941.0	1927.6	1922.1	1914.5	1945.1	2015.8	*2004.3*	1984.5	2007.8	1541.4
45°	1923.8	1917.2	1916.9	1933.6	1951.4	1990.8	2094.9	*2085.6*	2035.7	2047.8	1584.9
47.5°	1847.4	1841.7	1857.3	1901.1	1944.9	2002.3	2130.2	*2131.8*	2072.1	2064.5	1613.1
50°	*1682.4*	*1678.5*	*1723.7*	*1806.6*	*1882.2*	*1966.5*	*2119.0*	*2137.8*	*2080.9*	*2059.3*	*1609.5*
52.5°	1346.8	1364.5	1462.8	1601.3	1748.0	1903.5	2077.3	*2102.0*	2038.7	2025.1	1590.4
55°	921.9	930.1	1028.4	1230.7	1463.4	1767.2	1981.8	*2019.9*	1988.9	2019.3	1610.4
57.5°	477.4	484.0	561.4	741.0	992.5	1396.6	1716.6	*1841.4*	1888.5	2048.3	1672.5
60°	196.0	201.5	233.5	320.3	500.7	813.3	1235.3	*1420.4*	1531.0	1870.7	1485.3
62.5°	142.3	145.1	160.4	191.1	262.2	398.6	699.1	*767.3*	845.0	1172.4	943.0
65°	119.9	122.9	135.2	153.8	191.3	244.4	298.6	*300.3*	330.9	477.7	349.6
67.5°	100.5	103.2	114.1	130.0	154.7	173.5	160.4	*160.7*	160.1	173.3	167.5
70°	78.3	80.5	91.4	108.4	121.3	111.4	125.4	*138.8*	133.0	138.2	146.2
72.5°	57.2	59.7	69.3	82.1	78.8	79.4	101.6	*115.2*	112.0	117.7	125.1
75°	41.3	43.0	47.9	41.1	43.2	52.3	71.4	*78.8*	82.1	87.0	93.6
77.5°	13.4	13.4	15.1	18.9	23.5	29.0	36.4	*39.4*	44.3	49.8	54.5
80°	6.8	7.1	8.5	10.4	13.1	16.7	21.4	*22.7*	25.2	28.2	30.1
82.5°	3.3	3.6	4.1	5.2	6.8	8.8	11.8	*13.1*	14.8	16.7	18.1
85°	0.8	0.8	1.1	1.6	2.2	3.3	4.4	*5.2*	6.6	7.9	8.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.3	0.8	*1.1*	1.4	1.6	2.2
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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REPORT NUMBER: P630078
CATALOG NUMBER: GWS-SA1C-830-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	509.1	509.1	509.1	509.1	509.1	509.1	509.1	509.1	509.1	509.1	509.1
2.5°	518.7	503.4	483.7	467.0	451.7	439.9	429.8	424.8	420.2	416.9	418.0
5°	533.0	506.7	470.0	444.5	428.9	421.0	415.5	412.8	412.2	410.0	409.2
7.5°	553.8	516.3	467.3	441.5	431.1	427.0	424.0	422.4	423.2	421.0	420.2
10°	579.5	532.1	474.1	451.4	442.3	439.3	436.1	433.9	432.8	429.5	428.9
12.5°	611.5	551.8	486.4	464.0	454.9	449.7	445.4	441.5	439.1	435.0	433.9
15°	646.0	573.7	500.9	476.3	465.6	458.0	450.8	445.1	440.7	435.2	434.4
17.5°	683.5	596.7	513.0	484.8	471.1	461.0	450.6	442.1	436.1	428.9	428.1
20°	722.6	620.0	522.0	488.9	471.4	457.7	443.7	432.5	424.8	417.7	417.2
22.5°	763.2	641.4	527.5	487.8	467.0	450.0	433.3	420.7	411.7	403.2	402.7
25°	803.9	661.9	528.8	483.4	458.2	438.5	421.8	407.0	396.9	387.3	386.2
27.5°	845.3	679.1	525.6	474.6	446.5	425.1	408.4	393.9	383.5	373.9	372.3
30°	889.4	693.9	518.4	463.2	432.8	410.9	394.4	383.5	373.6	364.1	362.4
32.5°	936.4	706.8	508.3	449.2	416.9	396.6	384.6	374.7	364.9	356.4	354.8
35°	992.5	715.3	493.3	431.1	402.1	386.2	378.0	366.5	354.5	345.2	344.4
37.5°	1050.6	721.8	475.2	413.9	389.2	380.2	373.4	357.8	342.7	331.5	330.1
40°	1106.7	727.3	452.8	397.7	377.5	375.8	366.5	347.1	321.1	308.5	307.4
42.5°	1159.0	728.9	429.2	380.5	366.8	366.0	355.6	325.5	305.5	297.5	296.5
45°	1194.8	727.6	404.8	364.3	356.1	351.7	340.8	309.9	297.5	290.4	289.1
47.5°	1221.4	720.5	377.5	347.4	344.1	338.1	314.5	300.0	288.5	281.4	280.0
50°	*1216.7*	*690.9*	*349.8*	*330.9*	*329.6*	*324.4*	*295.4*	*287.7*	*277.6*	*269.9*	*268.8*
52.5°	1192.6	634.8	321.6	312.9	315.6	305.5	281.7	272.9	264.2	255.4	253.5
55°	1198.7	594.3	300.3	295.4	300.3	277.3	266.3	257.0	248.8	240.3	238.7
57.5°	1224.9	554.3	277.6	276.5	281.7	255.7	246.6	234.9	223.1	216.2	216.2
60°	1028.7	404.0	237.6	240.3	252.1	238.1	230.2	218.2	205.3	199.3	199.3
62.5°	608.2	253.5	197.1	194.1	201.5	210.2	214.6	204.8	189.4	181.5	181.8
65°	268.0	184.5	173.8	171.4	169.2	175.2	187.2	188.1	171.9	162.6	162.9
67.5°	165.1	167.0	162.6	160.7	158.8	157.7	156.6	157.1	152.7	144.3	144.0
70°	148.9	154.1	151.1	149.5	147.0	145.1	138.5	127.8	120.4	118.3	120.7
72.5°	128.1	135.2	133.6	132.8	129.7	125.1	116.3	105.9	97.2	91.7	92.8
75°	96.6	102.4	103.2	103.5	100.2	95.8	86.8	78.0	70.3	64.6	66.0
77.5°	55.6	58.9	59.7	60.5	58.0	56.4	50.4	44.1	40.0	33.9	35.6
80°	30.9	32.3	32.3	32.6	31.2	29.3	25.2	21.6	19.7	17.0	17.2
82.5°	18.6	19.2	19.4	19.7	18.9	17.0	14.0	11.5	10.4	9.0	8.8
85°	9.0	9.6	9.6	9.9	8.5	7.4	5.7	4.4	3.8	2.7	3.0
87.5°	2.2	2.5	2.5	2.2	1.9	1.4	0.8	0.3	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

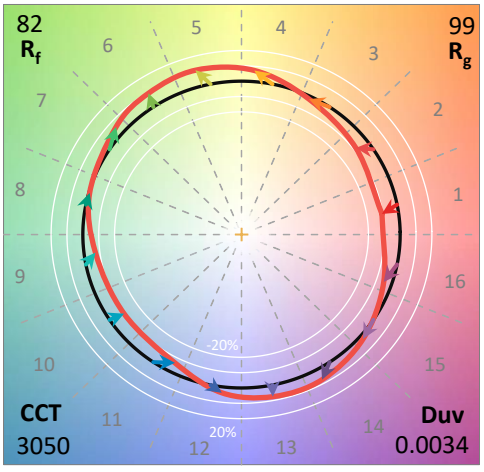
Test Information

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

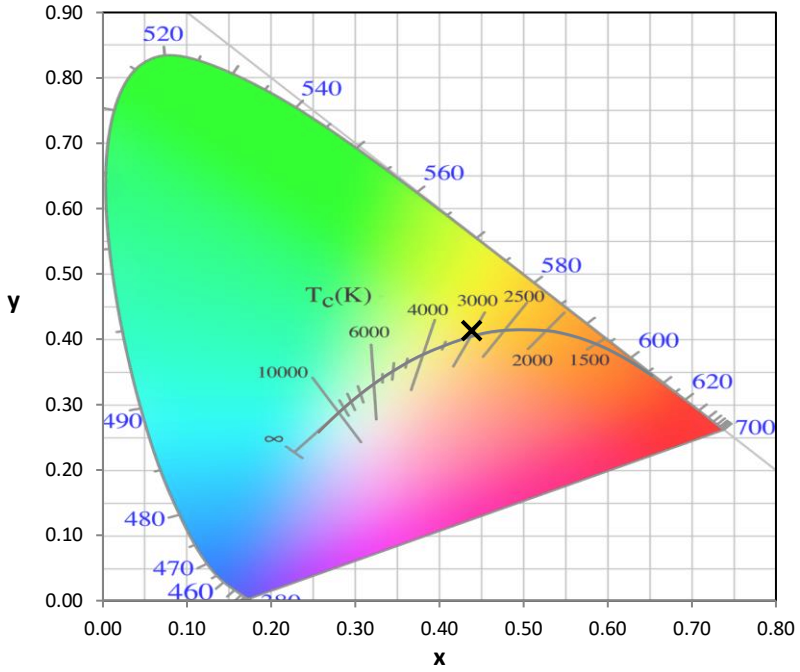
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

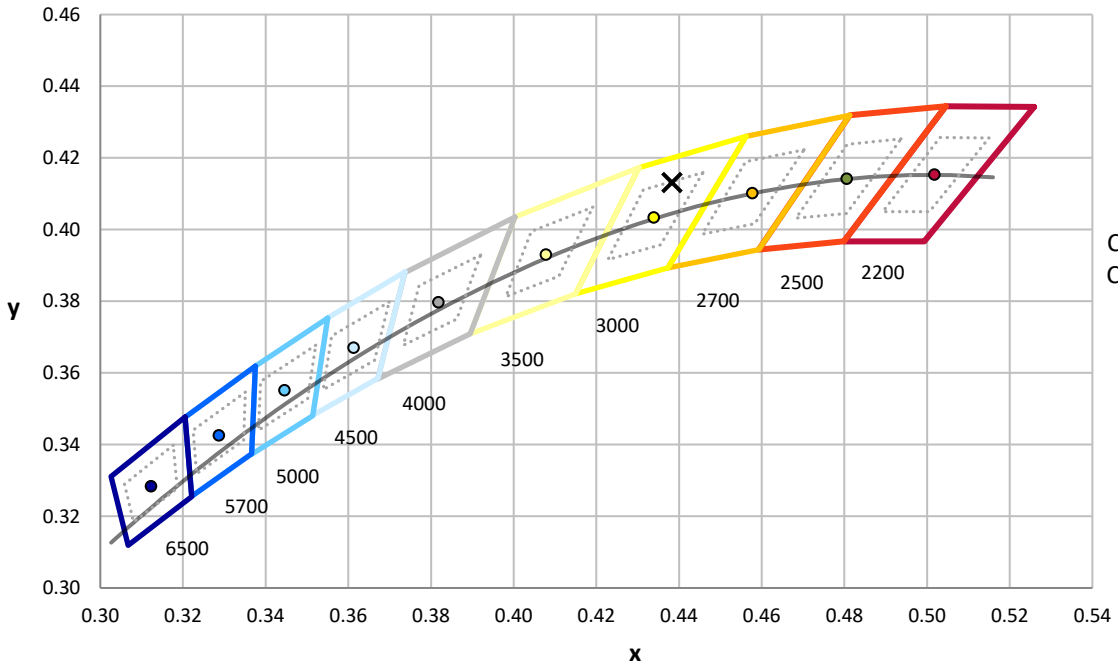
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

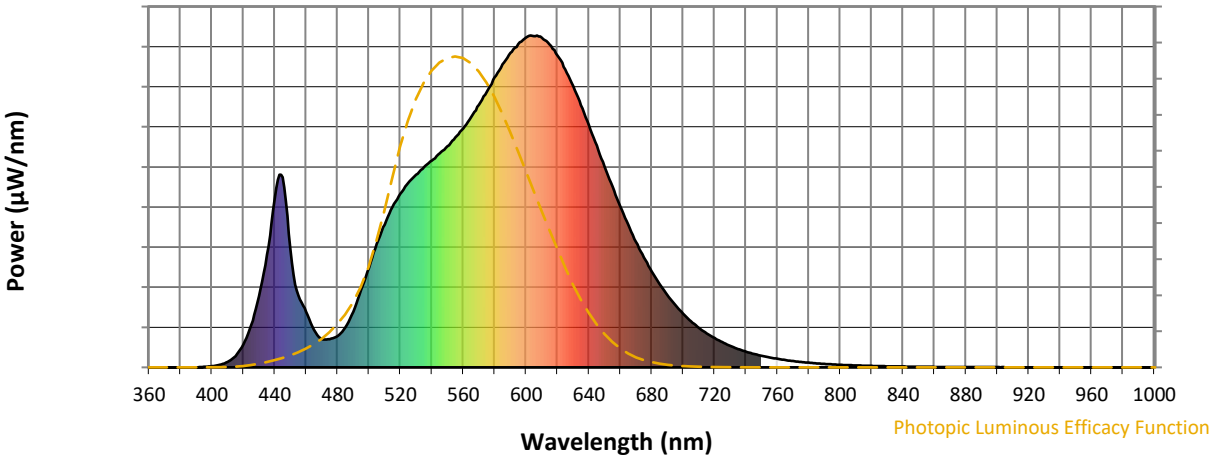


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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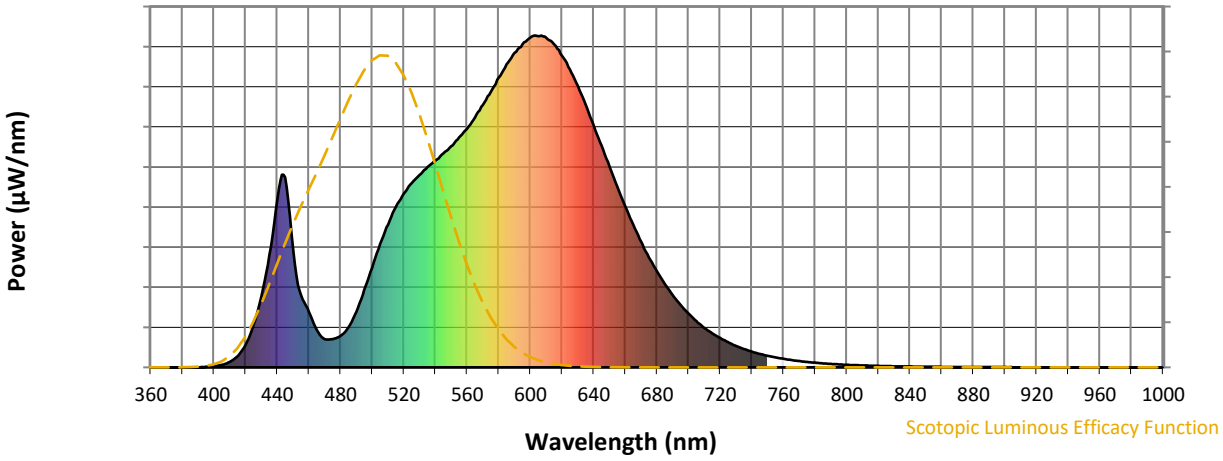
Scotopic Flux vs. Wavelength



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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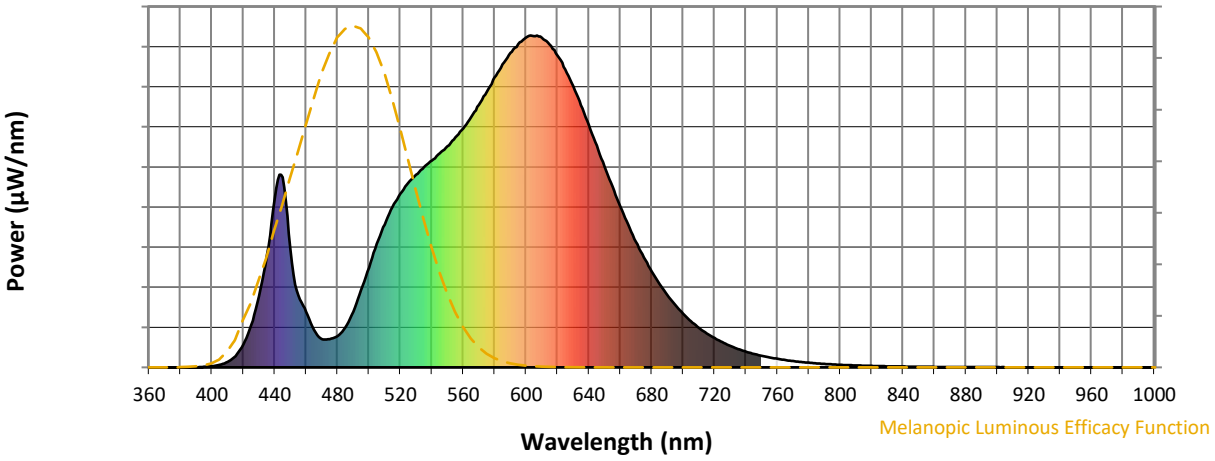
Melanopic Flux vs. Wavelength



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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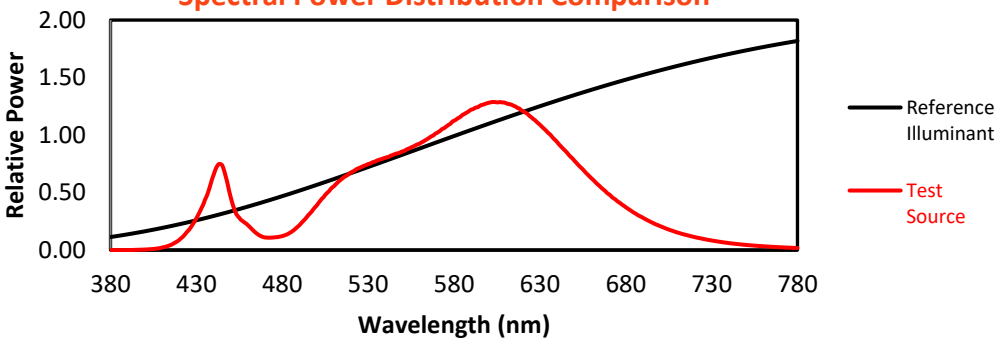
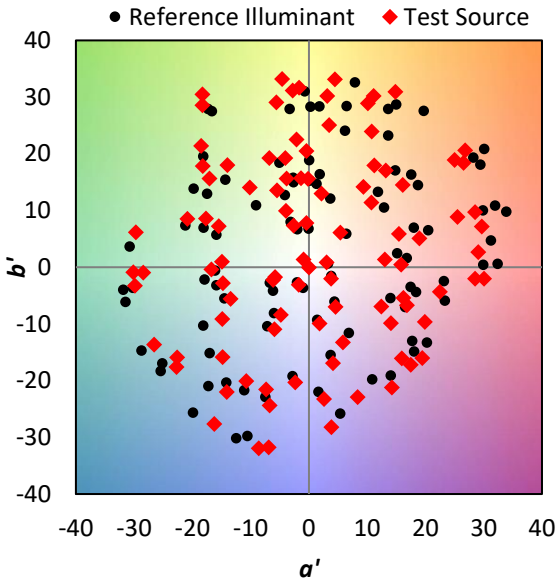
Summary

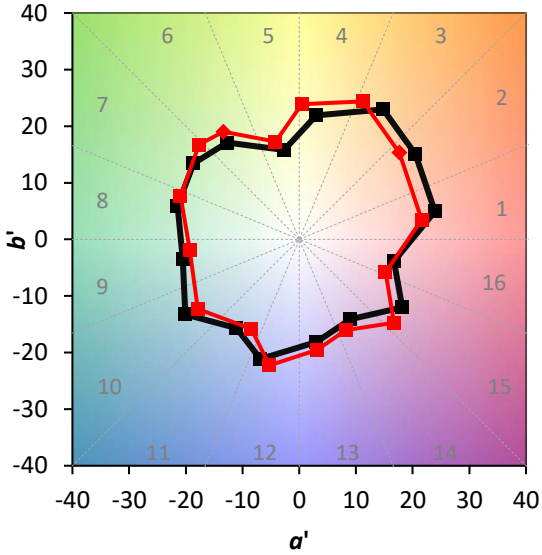
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

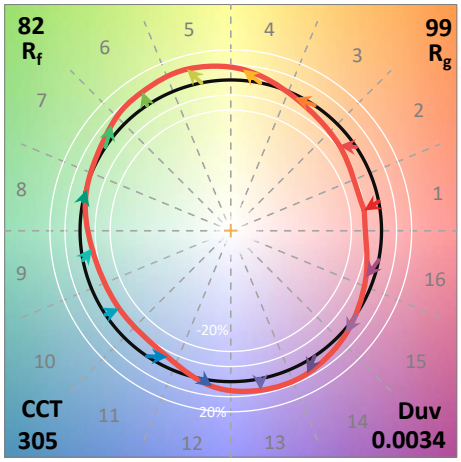
Spectral Power Distribution Comparison

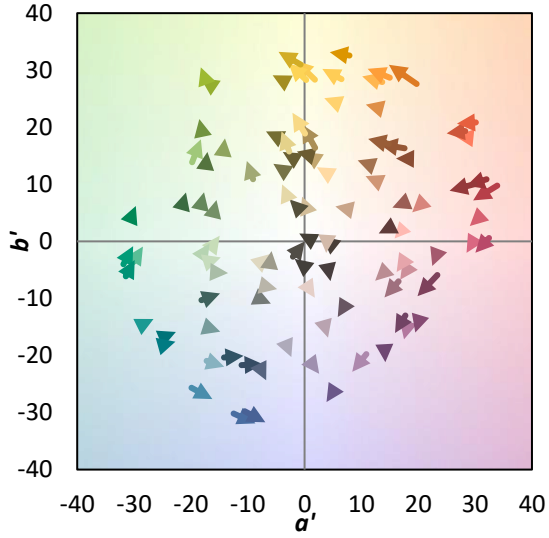


Color Vector Graphics









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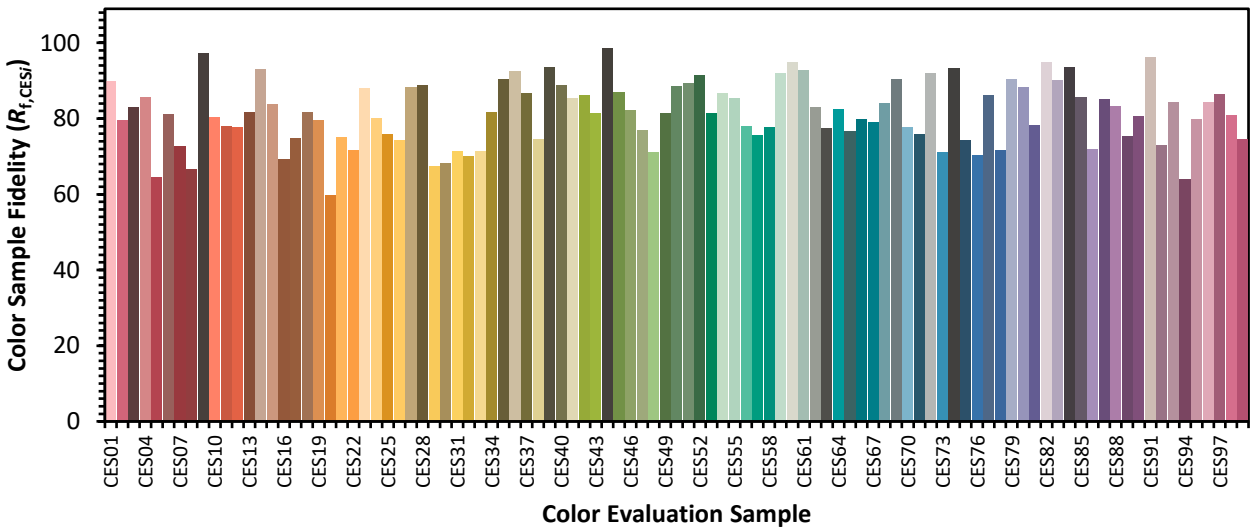
Individual Sample Fidelity Index ($R_{f,i}$)

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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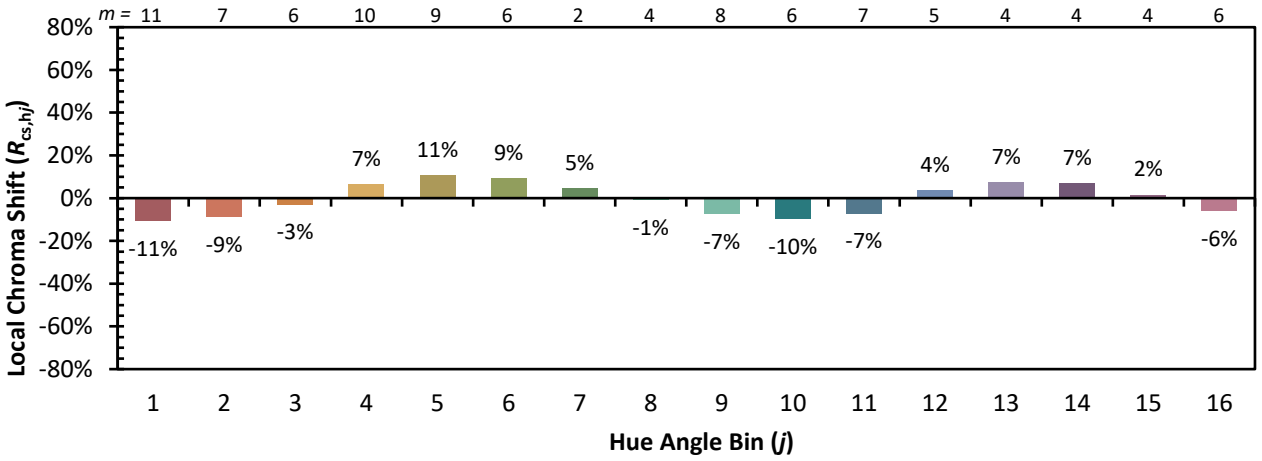
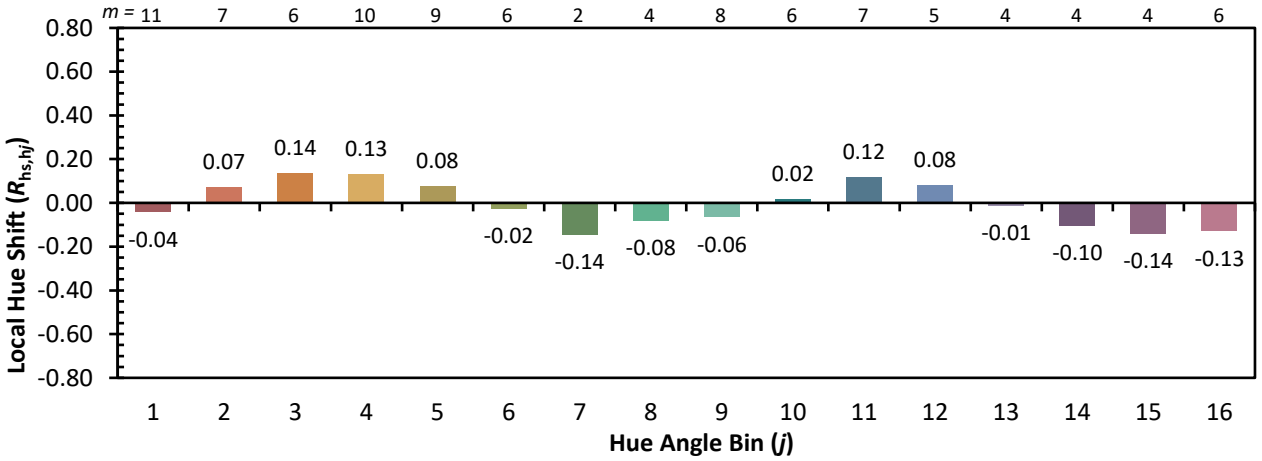
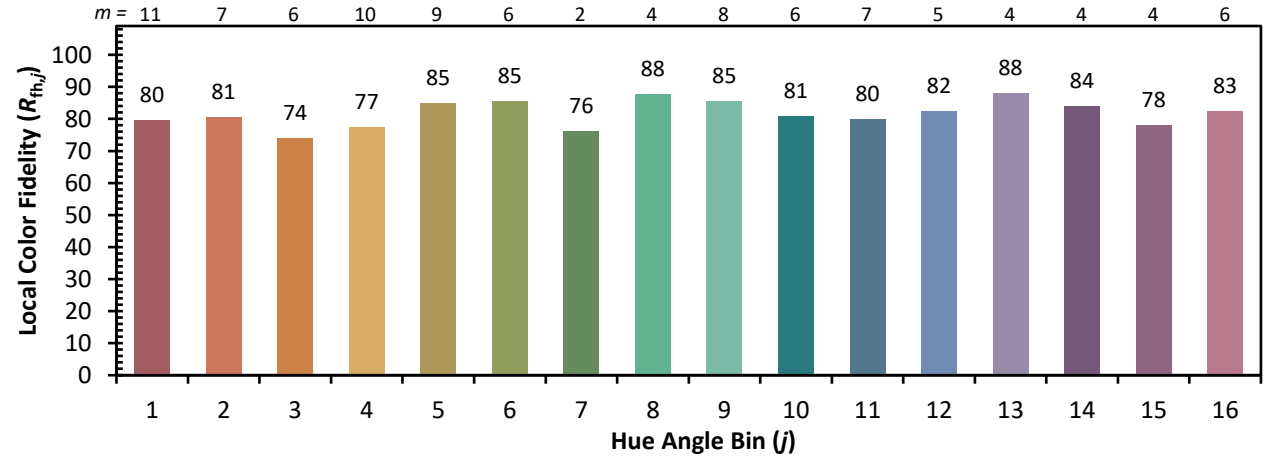
Color Rendition by Hue-Angle Bin







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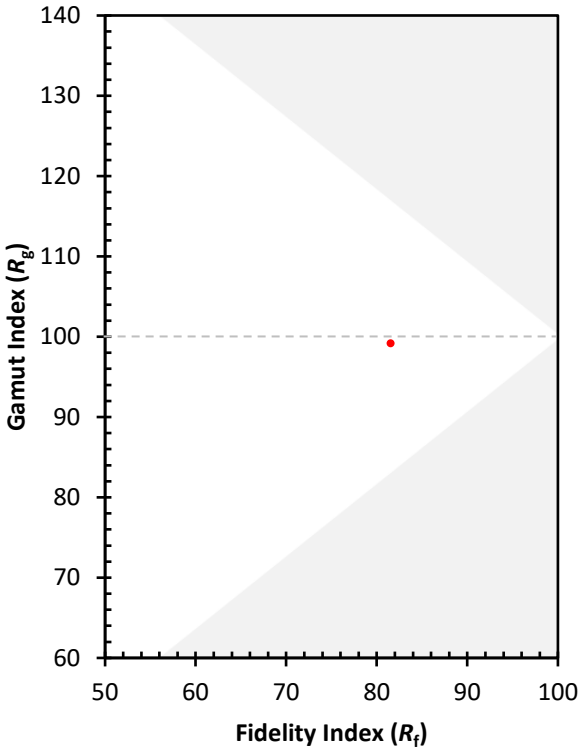
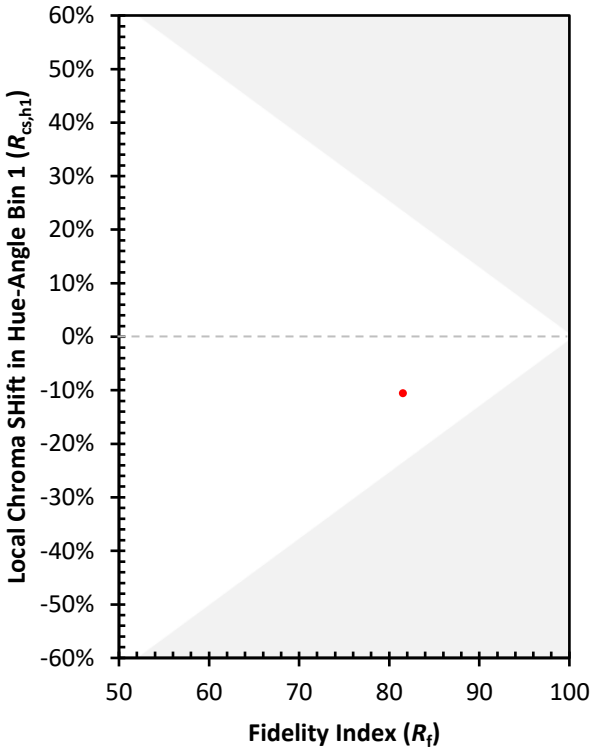
Measure Comparisons





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