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: P631570

Luminaire Tested: GWS-SA1F-830-U-T3R-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:	P631570
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1F-830-U-T3R-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4197.6 lumens
Efficiency:	N/A
Efficacy:	62.5 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G0

Input Watts (W):	67.2
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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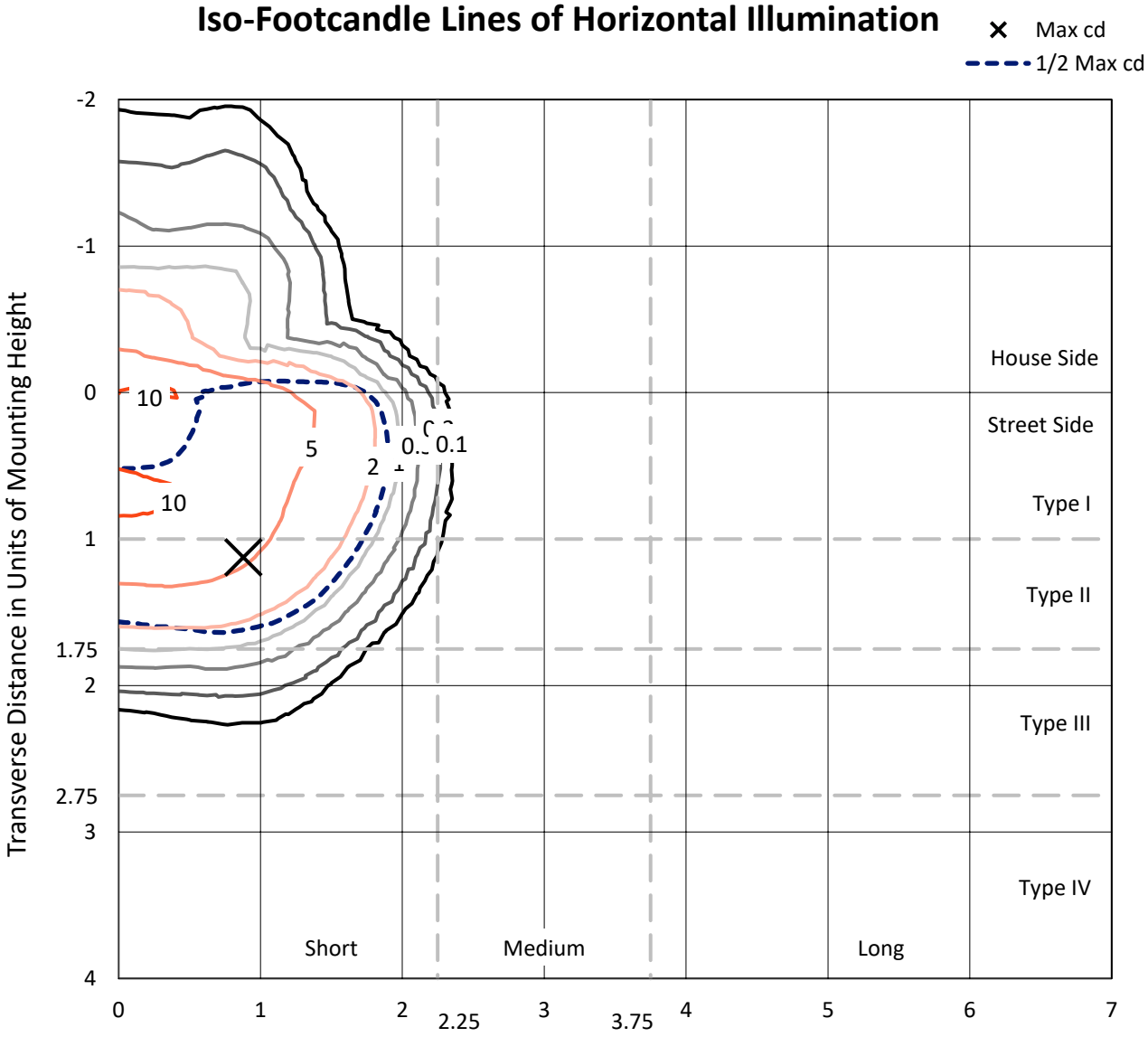
REPORT NUMBER: P631570
CATALOG NUMBER: GWS-SA1F-830-U-T3R-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 10.5 fc
Type II - Short - N/A

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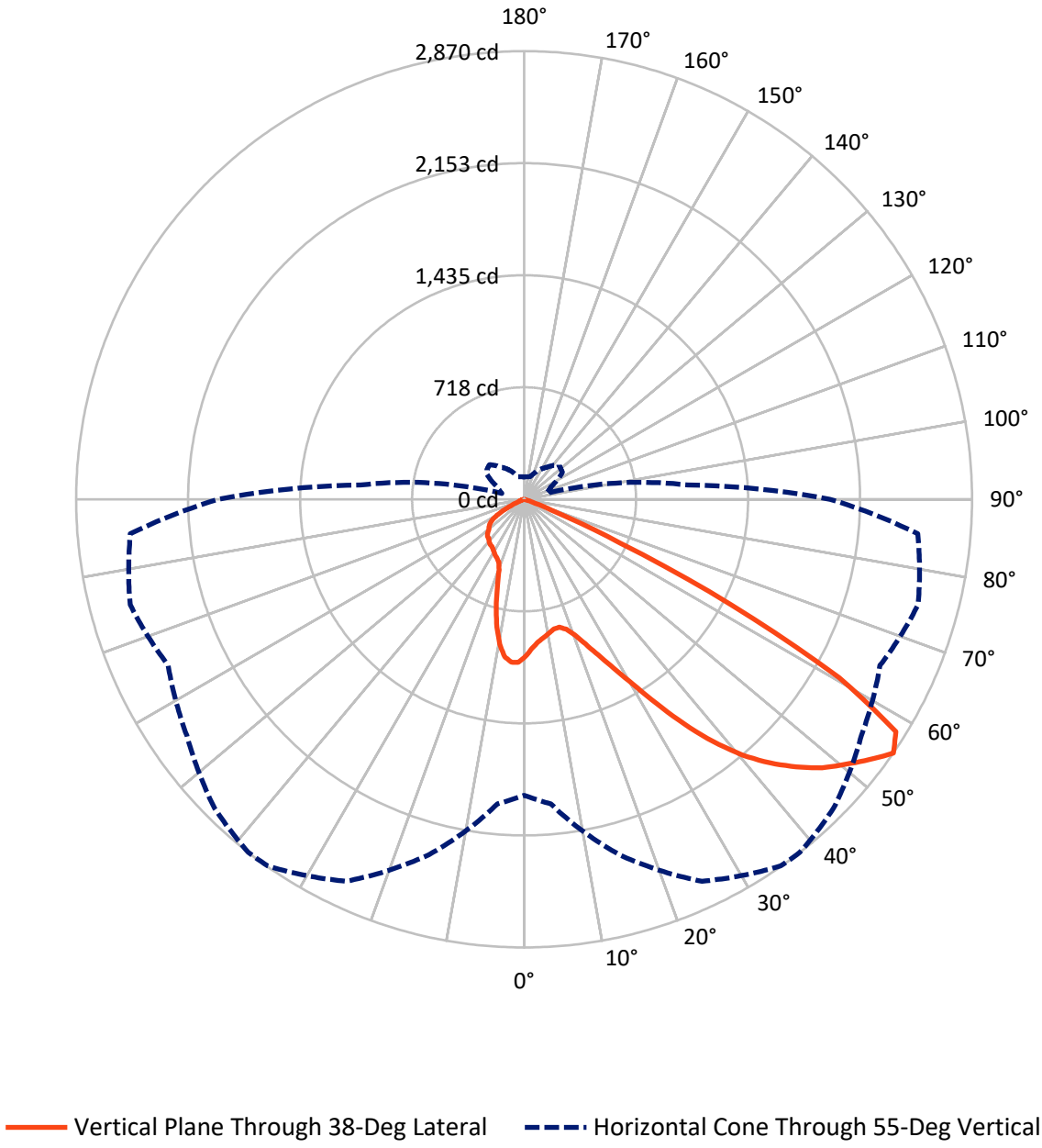
Luminous Intensity Polar Plot



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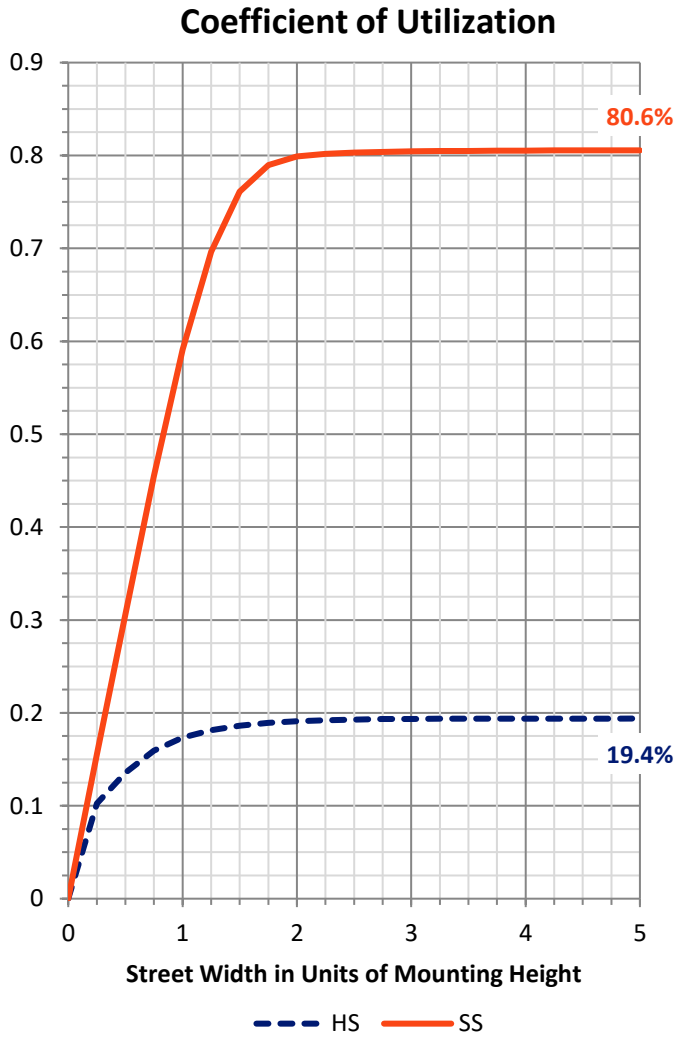
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	817.8	0.0	817.8
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	3379.8	0.0	3379.8
	% Fixture	80.5	0.0	80.5
Total	Lumens	4197.6	0.0	4197.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.1	2.2
10°-20°	250.6	6.0
20°-30°	430.0	10.2
30°-40°	713.2	17.0
40°-50°	1048.4	25.0
50°-60°	1225.1	29.2
60°-70°	415.3	9.9
70°-80°	21.2	0.5
80°-90°	0.8	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°	4197.6	100.0
0°-180°	4197.6	100.0



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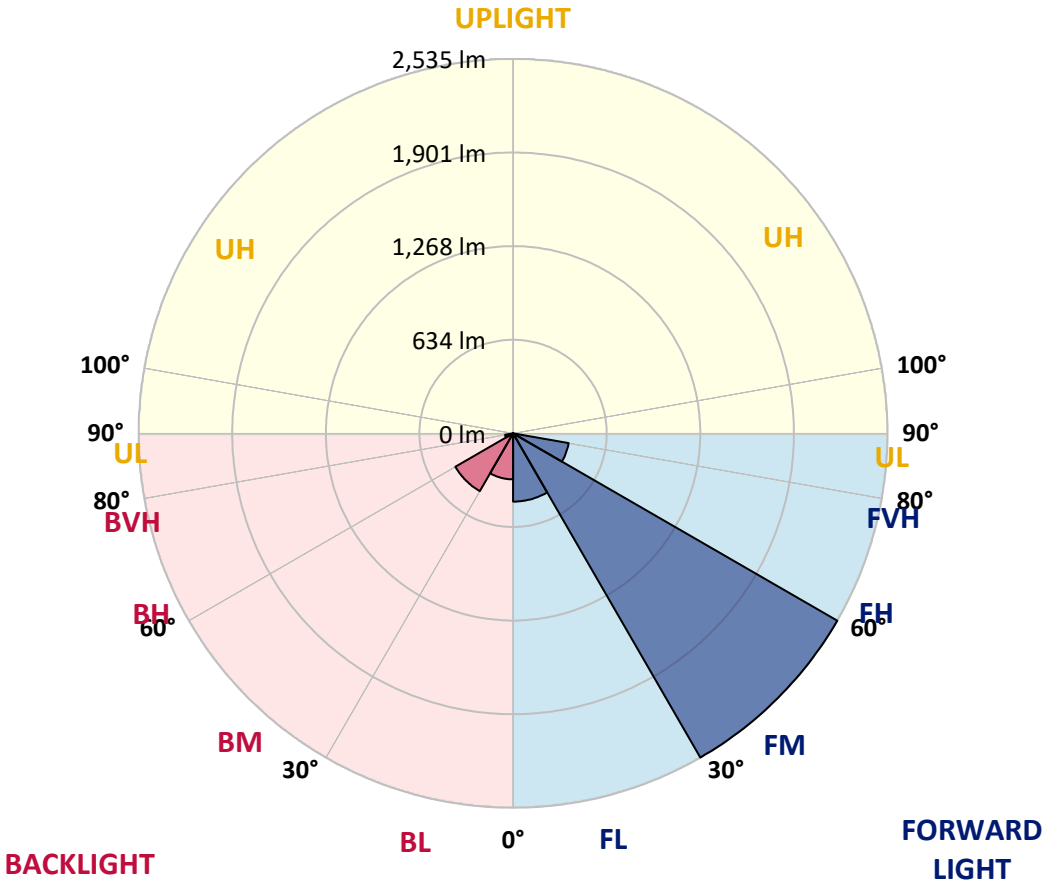
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	462.1	11.0			
FM	(30°-60°)	2535.2	60.4			
FH	(60°-80°)	382.0	9.1			G0/660
FVH	(80°-90°)	0.5	0.0			G0/10
BL	(0°-30°)	311.6	7.4	B1/500		
BM	(30°-60°)	451.4	10.8	B1/1000		
BH	(60°-80°)	54.4	1.3	B0/110		G0/110
BVH	(80°-90°)	0.4	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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REPORT NUMBER: P631570
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1006.6	1006.6	1006.6	1006.6	1006.6	*1006.6*	1006.6	1006.6	1006.6	1006.6	1006.6
2.5°	937.5	935.6	939.4	947.1	954.3	*956.7*	963.9	974.0	980.2	995.1	1007.1
5°	895.3	894.3	898.2	904.9	914.5	*917.9*	928.9	945.7	962.5	988.4	1013.8
7.5°	856.9	856.4	862.2	877.1	891.0	*895.3*	908.7	929.4	951.9	991.7	1029.2
10°	806.5	807.0	818.1	839.2	864.6	*873.2*	894.8	924.6	953.8	1005.2	1057.0
12.5°	790.2	791.2	796.9	813.3	841.1	*852.1*	882.3	927.4	964.9	1024.4	1093.0
15°	830.1	830.1	825.3	827.2	839.6	*849.7*	881.4	937.0	983.6	1047.4	1128.5
17.5°	907.3	904.4	892.4	876.1	871.8	*875.2*	900.6	957.7	1010.0	1074.3	1168.8
20°	1011.9	1012.9	989.3	955.3	927.9	*927.4*	942.8	994.1	1047.9	1106.4	1212.5
22.5°	1138.6	1134.7	1103.5	1057.0	1009.5	*1005.7*	1011.9	1049.8	1102.6	1157.3	1266.2
25°	1285.4	1283.5	1239.3	1176.9	1114.1	*1105.0*	1105.0	1142.4	1180.8	1229.7	1330.5
27.5°	1438.9	1438.9	1396.2	1324.2	1240.8	*1224.4*	1222.0	1266.2	1291.6	1301.2	1384.7
30°	1596.8	1594.8	1552.6	1478.7	1389.5	*1372.7*	1366.0	1398.6	1416.8	1388.1	1452.3
32.5°	1757.0	1760.4	1717.7	1649.1	1569.4	*1558.4*	1537.8	1537.8	1552.6	1512.3	1558.9
35°	1929.3	1928.3	1894.7	1848.2	1780.1	*1767.6*	1733.5	1680.3	1702.8	1685.1	1706.2
37.5°	2081.4	2088.6	2072.2	2037.7	1982.5	*1970.1*	1913.9	1817.5	1834.7	1862.6	1881.3
40°	2235.9	2241.6	2257.9	2246.9	2177.3	*2154.3*	2054.5	1896.2	1915.4	2010.8	2064.6
42.5°	2387.5	2390.4	2423.5	2441.7	2348.6	*2308.3*	2161.0	1944.1	1964.3	2126.9	2221.0
45°	2483.9	2490.2	2544.8	2600.5	2499.7	*2444.6*	2253.6	2005.6	2014.2	2207.6	2336.6
47.5°	2480.1	2494.5	2597.1	2698.4	2629.8	*2570.3*	2364.9	2103.9	2089.5	2283.4	2412.9
50°	2402.8	2420.1	2567.4	2728.1	2723.3	*2668.2*	2488.7	2246.4	2201.3	2350.5	2422.5
52.5°	2242.6	2292.5	2515.1	2732.0	2798.7	*2770.8*	2641.8	2438.3	2352.5	2447.0	2437.9
55°	*1896.2*	*1957.6*	*2356.3*	*2699.3*	*2866.8*	*2870.2*	*2802.5*	*2638.4*	*2516.5*	*2613.0*	*2532.4*
57.5°	1439.4	1488.3	1813.6	2402.8	2754.0	*2809.2*	2864.9	2744.0	2617.8	2726.2	2554.4
60°	867.5	924.1	1135.7	1763.3	2224.3	*2318.4*	2536.7	2513.2	2361.1	2407.6	2094.8
62.5°	351.7	381.4	524.4	971.6	1400.1	*1487.9*	1697.0	1732.6	1695.1	1647.6	1270.5
65°	128.6	140.6	210.2	401.6	643.9	*676.0*	786.4	849.2	901.1	767.2	472.6
67.5°	79.6	87.3	136.7	206.3	234.1	*217.8*	221.7	264.4	252.4	155.9	84.4
70°	59.0	65.3	107.0	143.0	94.5	*72.9*	49.4	52.8	47.5	41.7	41.3
72.5°	40.8	46.5	80.1	84.4	36.5	*25.9*	18.2	25.4	28.8	28.3	29.3
75°	26.9	31.2	50.4	33.1	9.1	*7.2*	6.2	13.4	17.3	17.3	17.8
77.5°	15.8	18.2	17.8	6.7	1.9	*1.9*	1.4	2.4	3.8	4.3	5.3
80°	1.9	1.4	1.0	1.0	1.0	*1.0*	1.0	1.0	1.4	1.4	1.4
82.5°	0.5	0.5	0.5	1.0	1.0	*1.0*	1.0	1.0	1.0	1.4	1.4
85°	0.0	0.0	0.5	0.5	1.0	*1.0*	1.0	1.0	1.0	1.4	1.4
87.5°	0.0	0.0	0.5	0.5	1.0	*1.0*	1.0	1.0	1.0	1.4	1.4
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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REPORT NUMBER: P631570
CATALOG NUMBER: GWS-SA1F-830-U-T3R-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6
2.5°	1016.2	1012.9	1026.8	1036.8	1045.0	1048.8	1043.6	1043.1	1043.1	1032.5	1029.6
5°	1028.2	1029.6	1049.3	1058.0	1059.4	1054.6	1042.6	1034.4	1029.6	1018.6	1012.4
7.5°	1051.2	1056.0	1074.7	1073.3	1060.4	1038.3	1006.6	982.1	966.3	949.0	938.5
10°	1084.3	1093.5	1105.0	1084.8	1043.6	987.4	922.2	875.6	847.8	828.1	816.1
12.5°	1124.6	1133.8	1129.9	1082.4	996.5	896.3	812.3	745.1	713.0	695.2	682.8
15°	1165.4	1171.2	1146.2	1053.6	913.5	778.7	685.2	618.5	579.1	564.7	554.2
17.5°	1207.2	1205.7	1149.1	997.0	802.7	646.3	554.2	508.6	497.6	495.2	494.2
20°	1250.8	1237.9	1137.6	915.9	669.3	515.3	463.0	465.9	486.0	495.6	497.6
22.5°	1300.7	1268.1	1108.8	806.1	533.1	429.4	434.7	463.0	490.4	503.3	505.2
25°	1354.0	1295.9	1060.8	665.0	420.3	394.9	426.1	458.7	488.0	503.8	505.7
27.5°	1389.0	1302.7	982.1	523.0	360.8	381.4	414.5	445.7	476.0	493.2	495.6
30°	1426.9	1299.8	875.2	403.0	340.7	369.9	398.7	427.0	454.8	474.0	476.0
32.5°	1482.6	1297.9	744.6	327.2	332.5	360.8	381.9	405.4	424.6	435.7	434.2
35°	1555.5	1295.5	592.6	295.1	327.7	353.6	370.4	381.4	360.3	353.6	355.1
37.5°	1649.1	1301.2	464.4	281.6	326.3	351.7	366.1	334.4	301.8	289.3	287.4
40°	1752.7	1316.1	354.1	276.4	331.1	356.5	349.8	297.5	257.2	232.7	227.4
42.5°	1856.8	1332.4	280.2	274.4	339.2	369.9	322.9	270.6	210.2	196.2	194.3
45°	1934.1	1329.5	242.3	271.1	346.4	377.6	315.7	232.2	187.6	181.4	181.8
47.5°	1972.9	1297.9	221.7	263.4	349.3	369.9	298.0	216.4	172.2	179.0	184.7
50°	1952.3	1215.8	202.5	248.5	343.1	359.8	269.6	204.4	164.6	192.4	205.4
52.5°	1927.3	1115.1	181.4	225.5	328.2	345.9	258.6	201.0	159.8	185.7	195.3
55°	*1960.5*	*1051.2*	*146.8*	*190.0*	*298.9*	*313.3*	*250.0*	*200.6*	*148.7*	*144.4*	*143.0*
57.5°	1913.9	924.1	105.1	136.7	229.3	248.1	243.7	197.2	131.9	131.5	133.4
60°	1479.2	563.8	72.0	86.8	140.6	158.3	221.2	188.6	113.7	104.6	105.1
62.5°	840.6	239.9	49.4	53.7	72.0	85.4	168.9	171.3	105.1	99.8	105.1
65°	292.7	85.9	38.4	36.0	39.8	45.6	96.9	132.4	95.5	86.4	87.3
67.5°	60.5	42.7	34.1	29.7	29.7	29.7	49.4	82.5	78.7	68.6	69.6
70°	38.4	36.5	29.7	25.4	24.5	22.6	28.3	45.6	54.2	49.9	50.4
72.5°	28.3	27.8	23.5	20.6	18.2	16.3	17.8	22.6	27.8	28.8	29.3
75°	17.3	17.8	15.4	13.0	11.5	10.1	10.6	10.6	10.6	9.6	10.6
77.5°	5.3	5.8	4.8	3.8	3.4	3.4	3.4	2.9	2.4	1.4	1.4
80°	1.4	1.4	1.4	1.4	1.4	1.0	1.0	0.5	0.5	0.0	0.0
82.5°	1.4	1.4	1.4	1.4	1.0	1.0	0.5	0.5	0.0	0.0	0.0
85°	1.4	1.4	1.4	1.4	1.0	1.0	0.5	0.5	0.0	0.0	0.0
87.5°	1.4	1.4	1.4	1.4	1.0	1.0	0.5	0.5	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

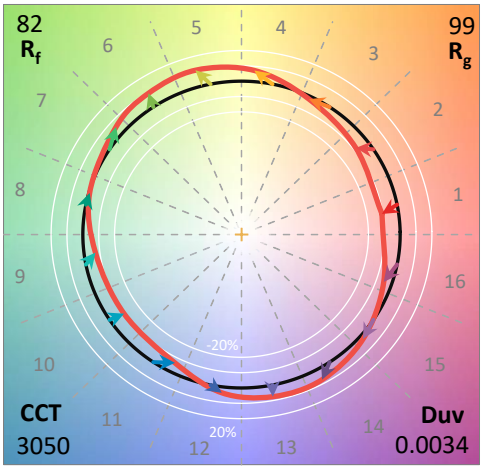
Test Information

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

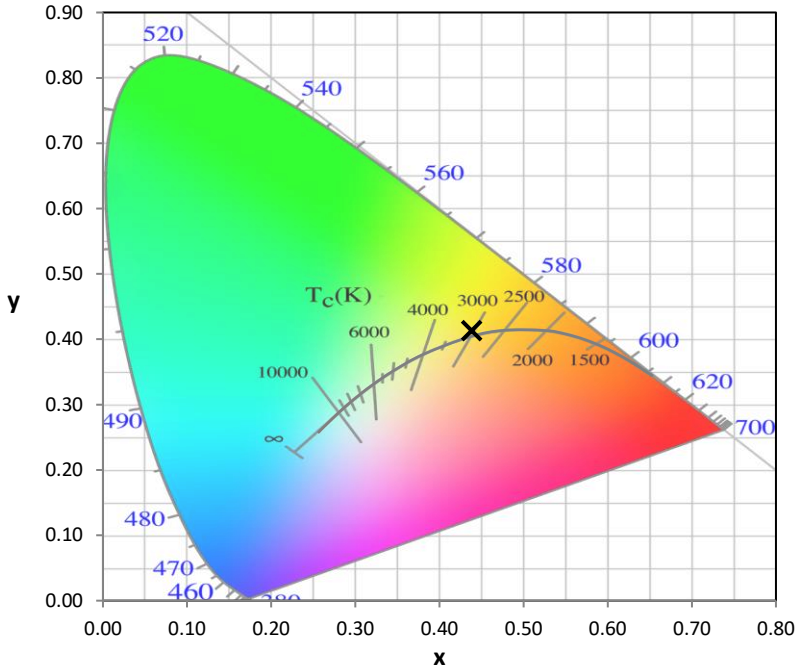
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

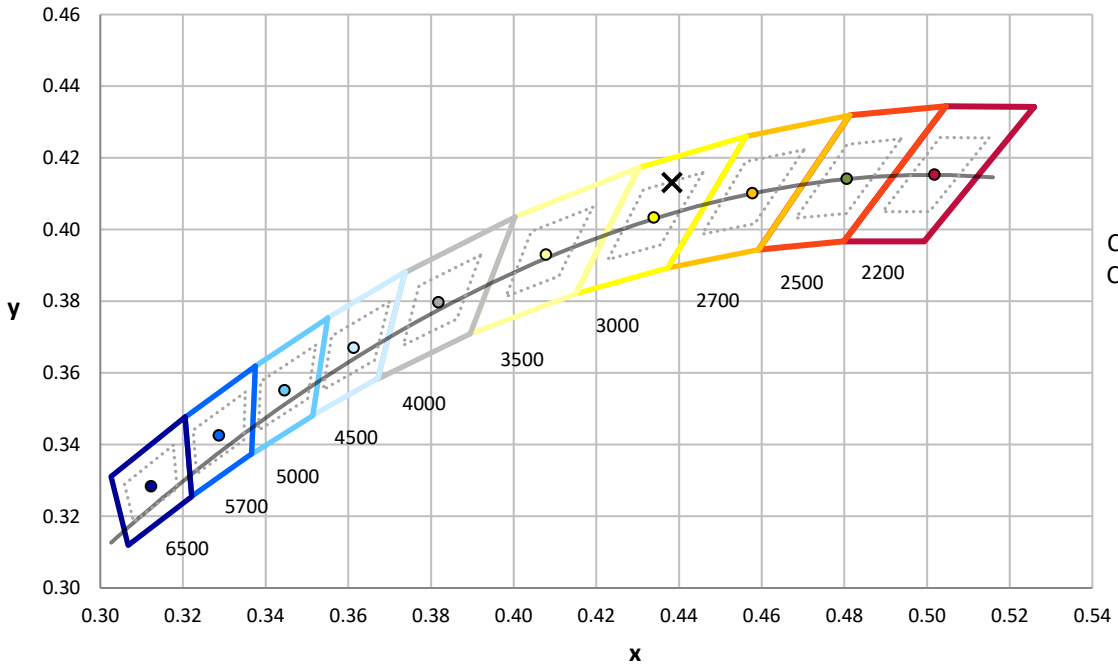
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

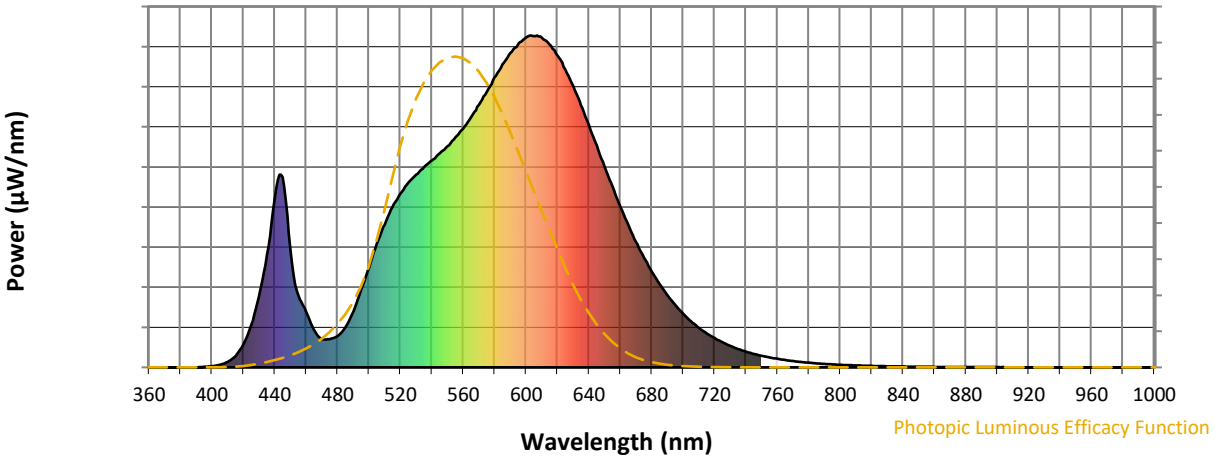


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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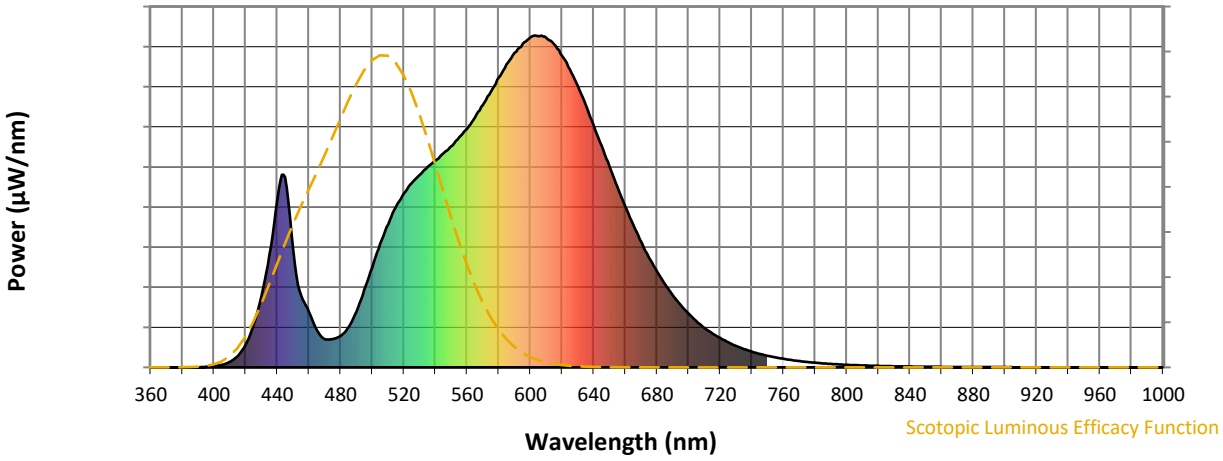
Scotopic Flux vs. Wavelength



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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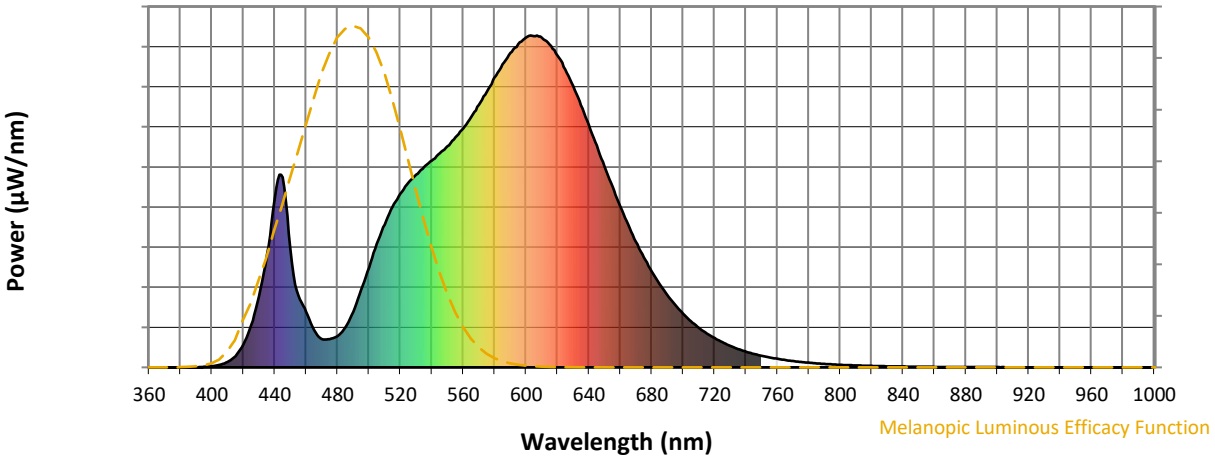
Melanopic Flux vs. Wavelength



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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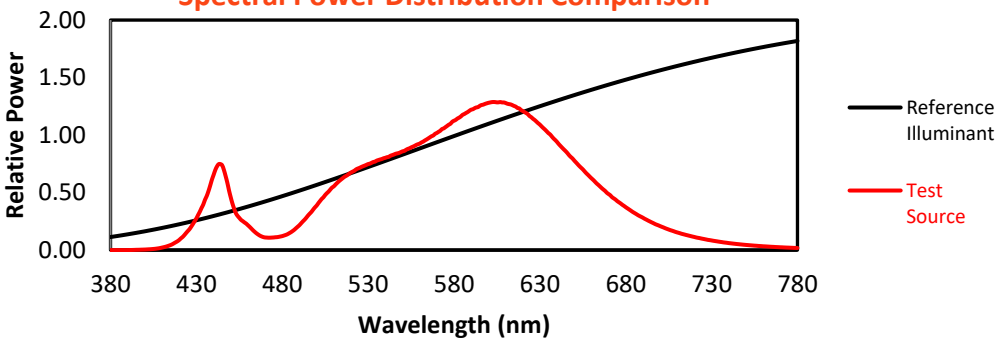
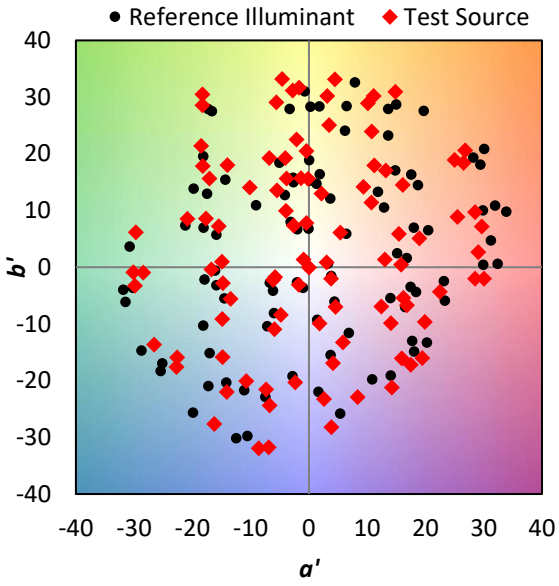
Summary

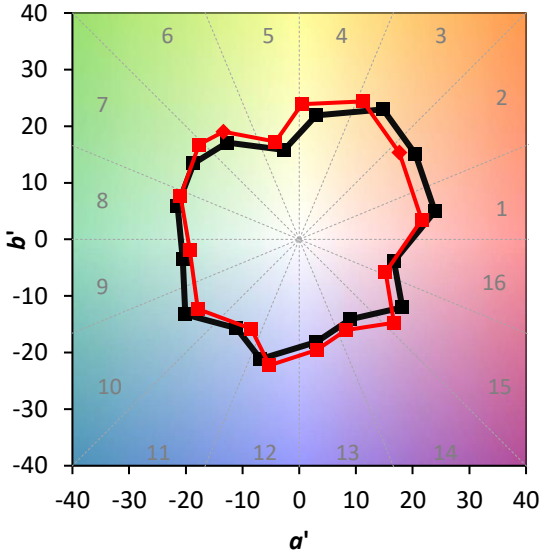
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

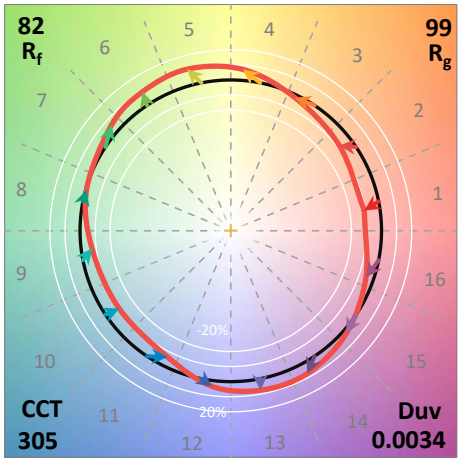
Spectral Power Distribution Comparison

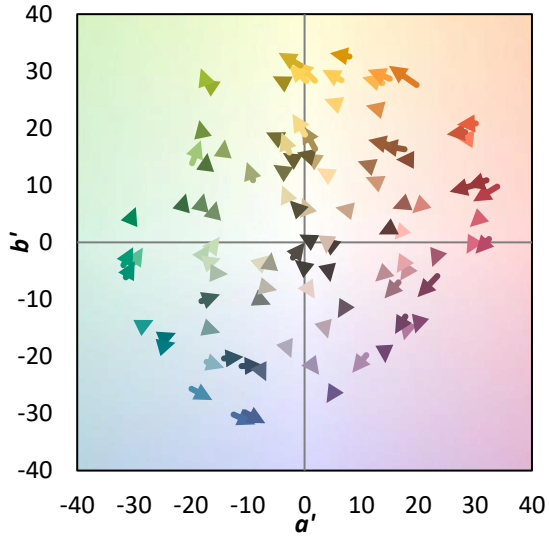


Color Vector Graphics









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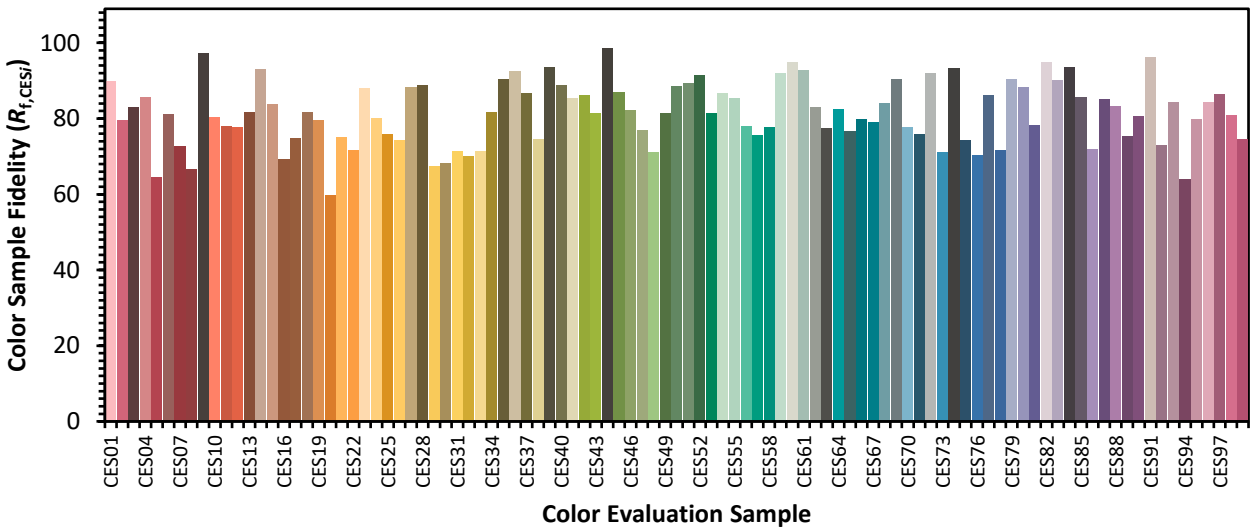
Individual Sample Fidelity Index ($R_{f,i}$)

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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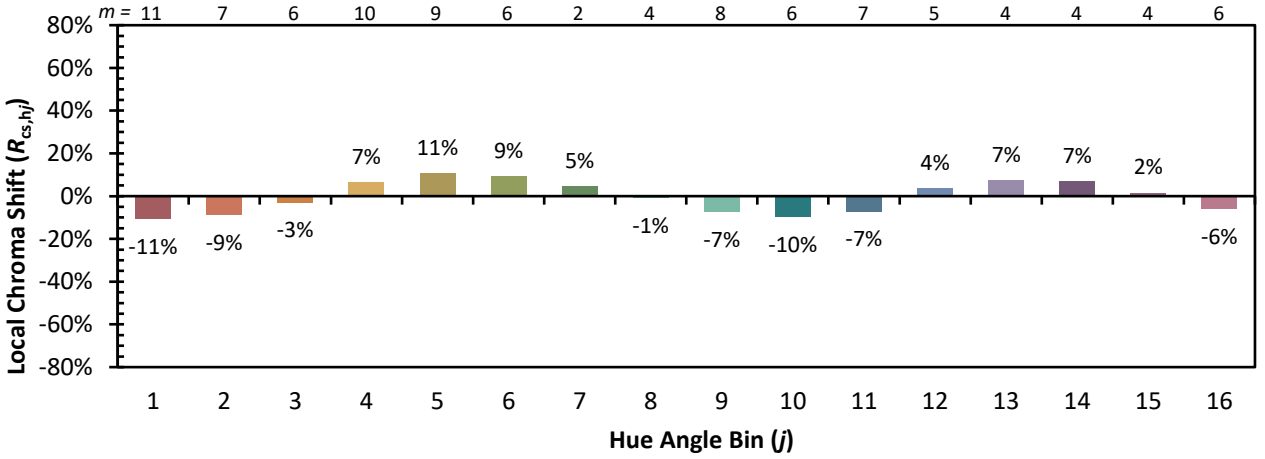
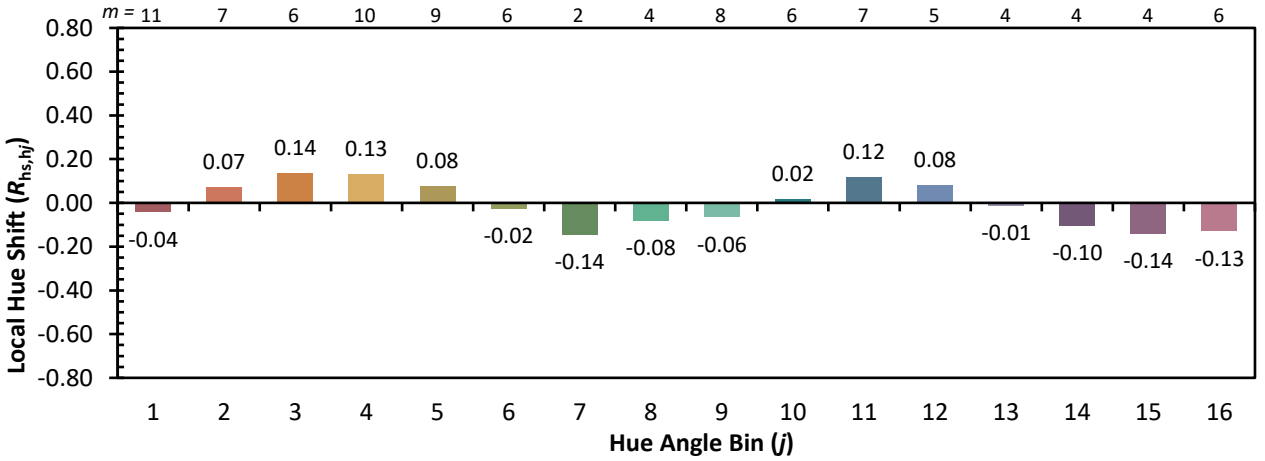
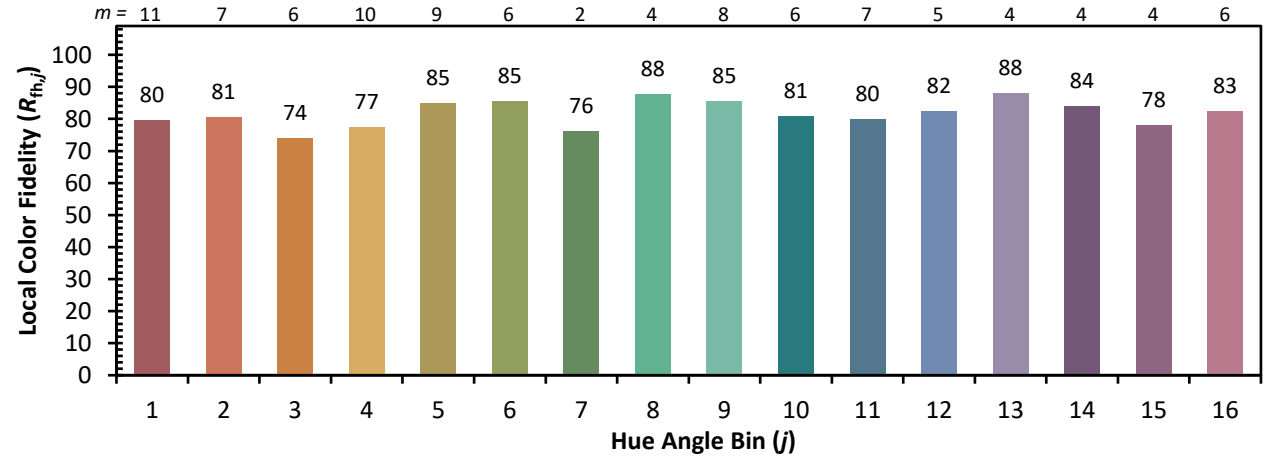
Color Rendition by Hue-Angle Bin







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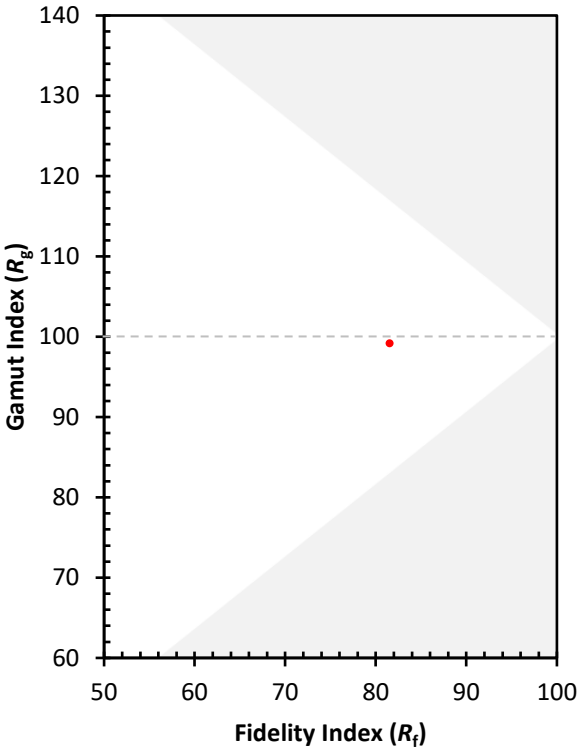
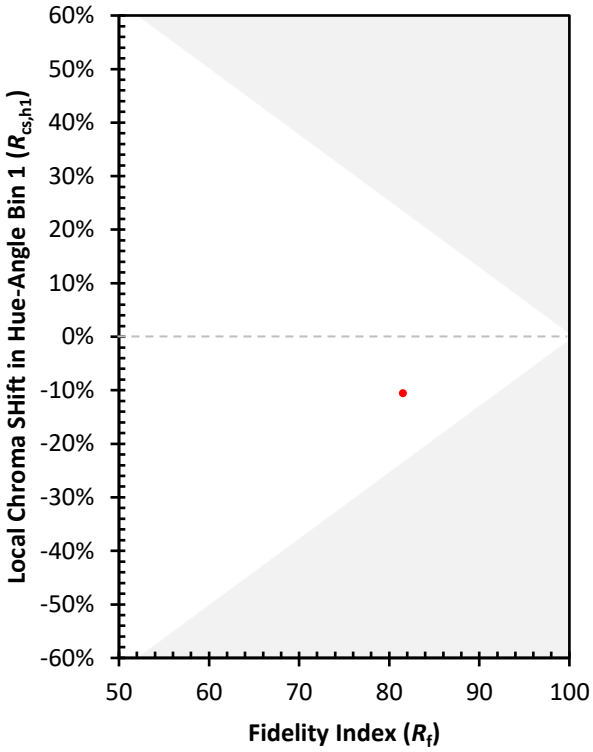
Measure Comparisons





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