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: P636016

Luminaire Tested: GWS-SA3E-830-U-T2-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:	P636016
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA3E-830-U-T2-W
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	17332.7 lumens
Efficiency:	N/A
Efficacy:	108.9 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B2 - U0 - G3

Input Watts (W):	159.2
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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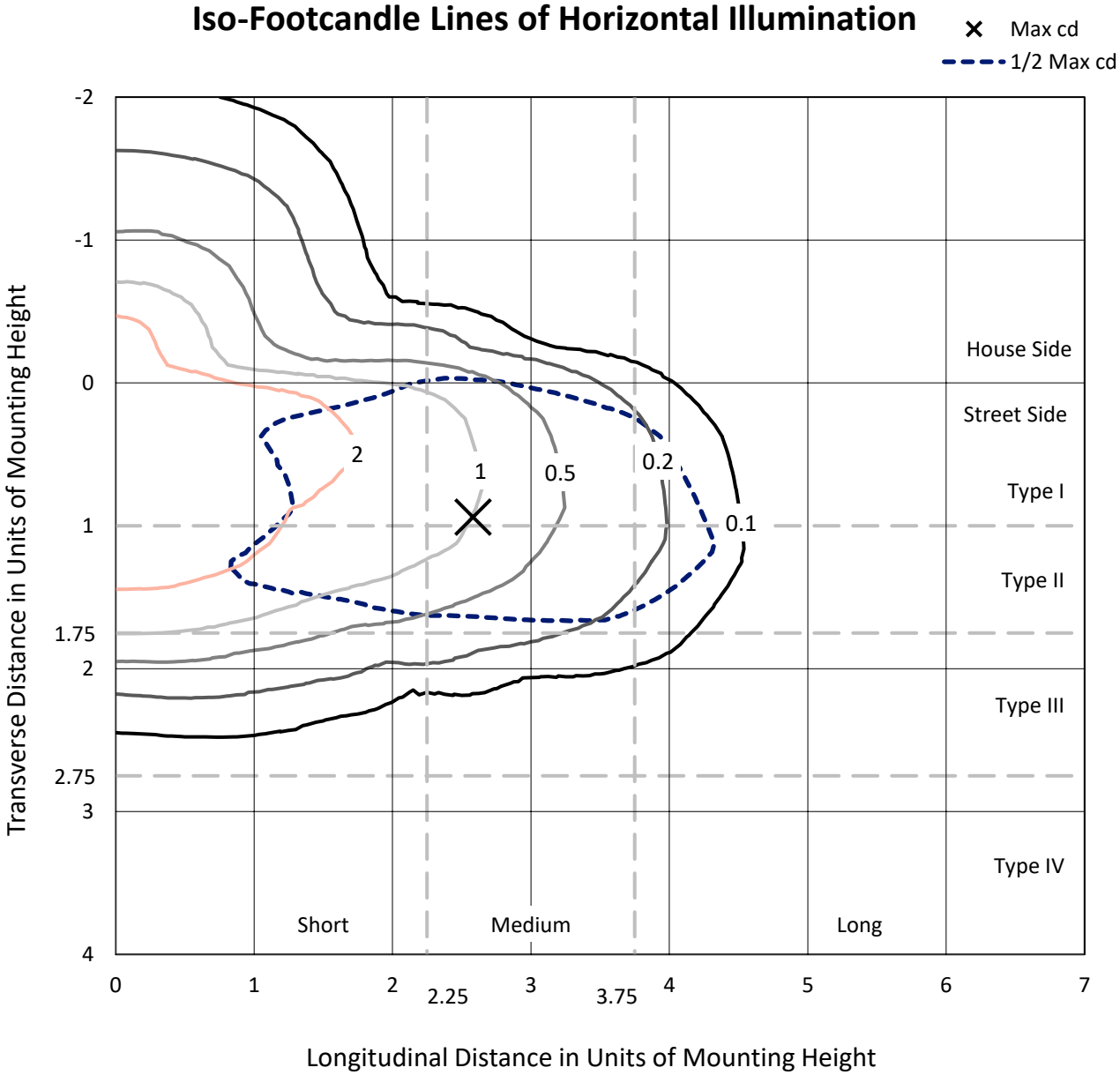
Scaled Data Report

REPORT NUMBER: P636016
CATALOG NUMBER: GWS-SA3E-830-U-T2-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
Type II - Medium - N/A

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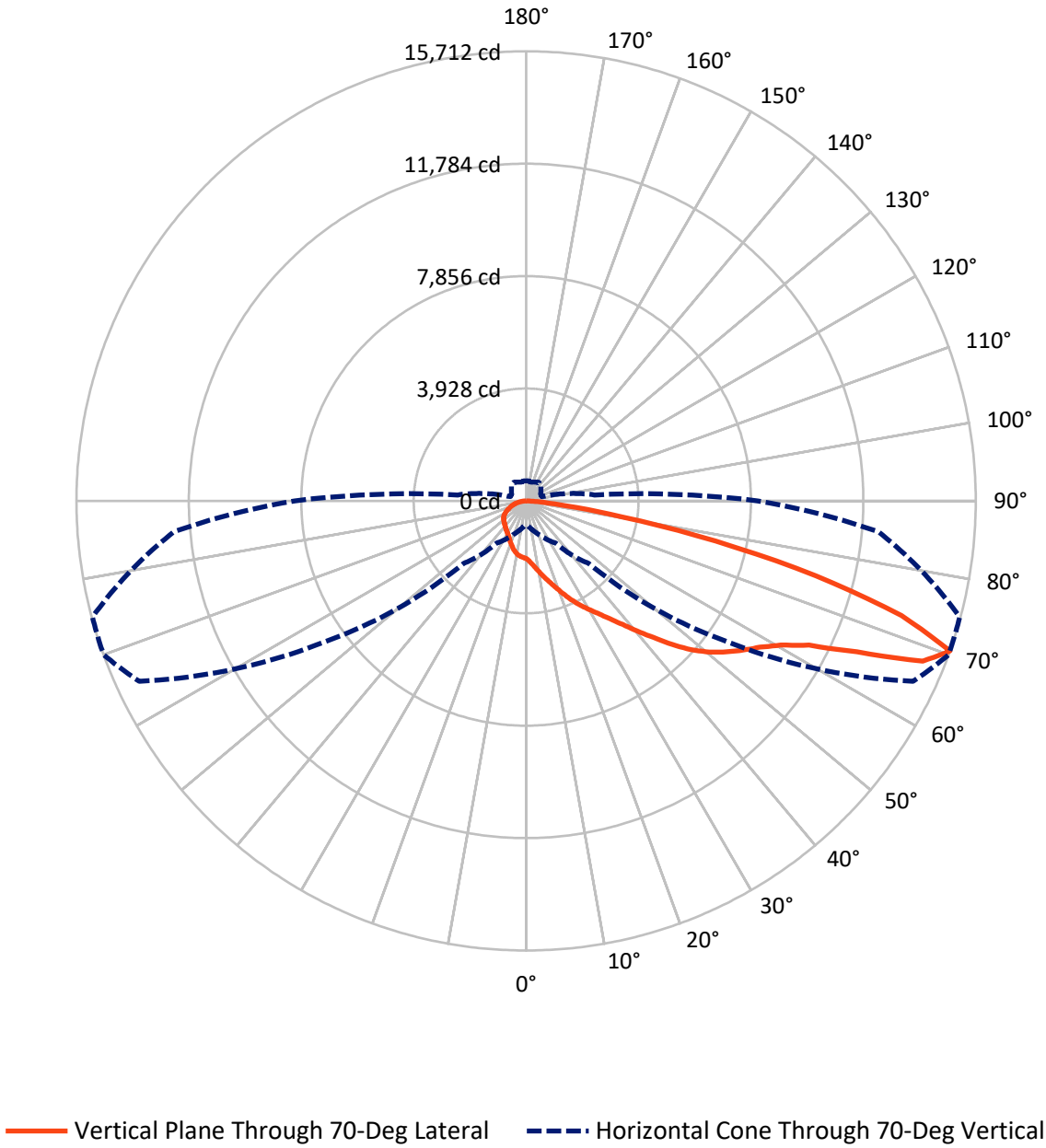
Luminous Intensity Polar Plot



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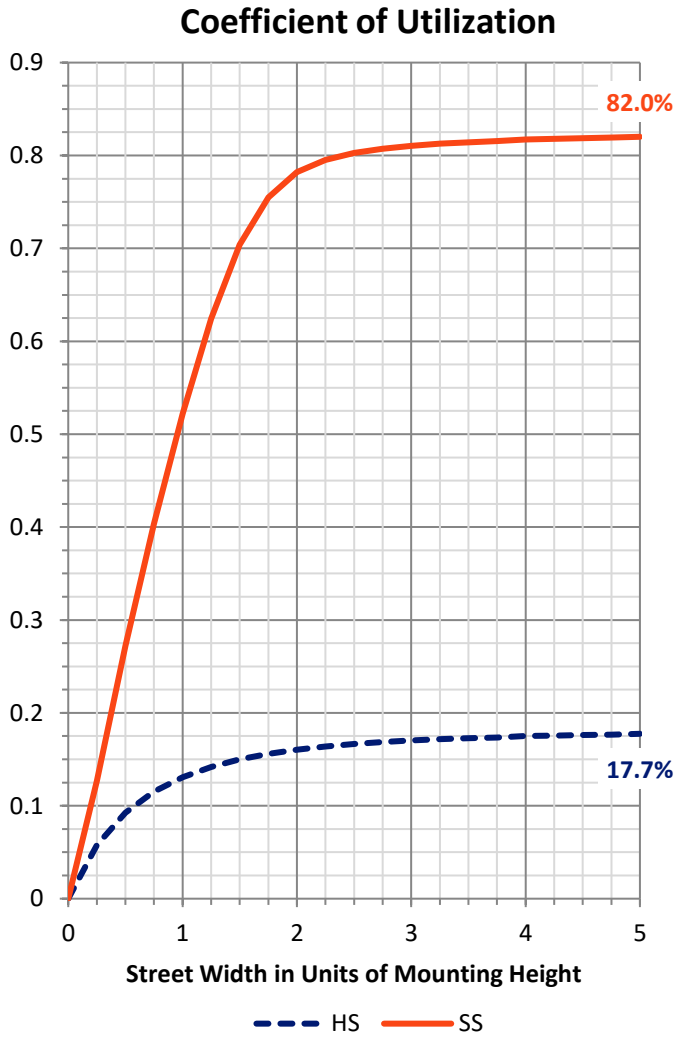
CATALOG NUMBER: GWS-SA3E-830-U-T2-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3106.1	0.0	3106.1
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	14226.6	0.0	14226.6
	% Fixture	82.1	0.0	82.1
Total	Lumens	17332.7	0.0	17332.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.4	1.2
10°-20°	668.3	3.9
20°-30°	1184.0	6.8
30°-40°	1781.9	10.3
40°-50°	2695.8	15.6
50°-60°	3861.8	22.3
60°-70°	4268.8	24.6
70°-80°	2409.0	13.9
80°-90°	257.7	1.5
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°	17332.7	100.0
0°-180°	17332.7	100.0



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REPORT NUMBER: P636016
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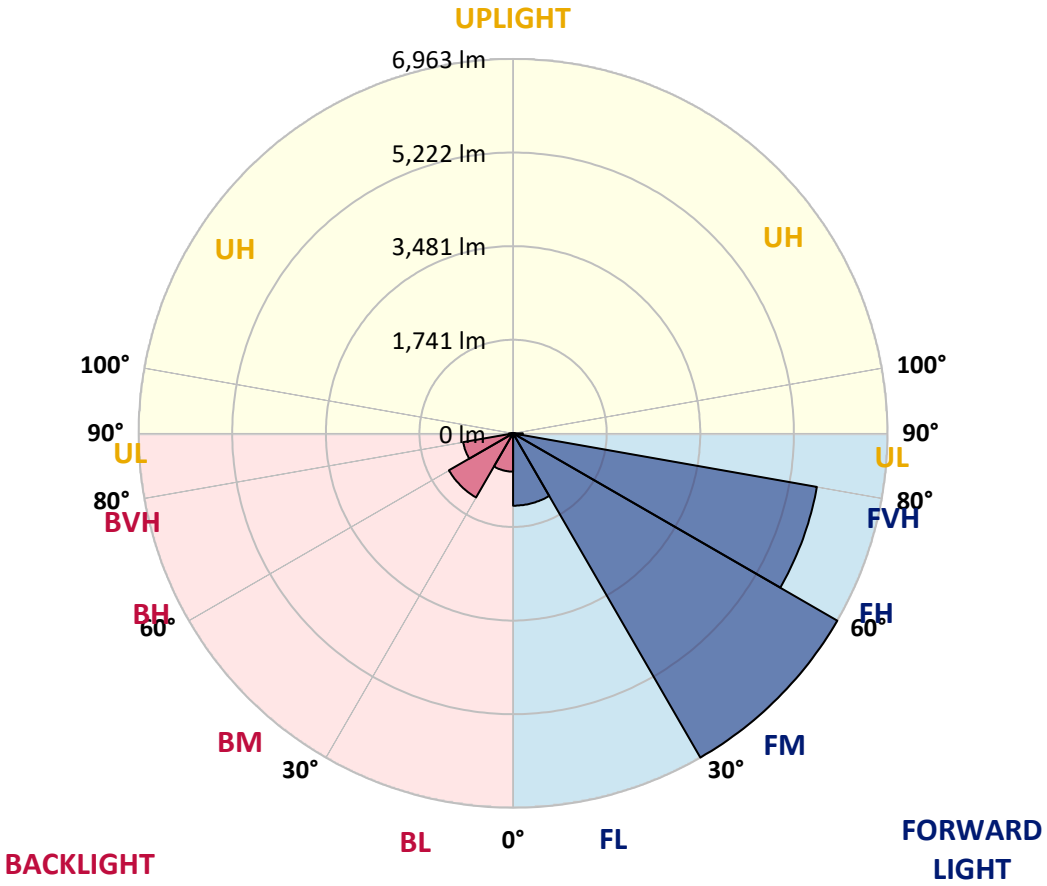
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1345.5	7.8			
FM	(30°-60°)	6962.5	40.2			
FH	(60°-80°)	5736.4	33.1			G3/7500
FVH	(80°-90°)	182.2	1.1			G2/225
BL	(0°-30°)	712.2	4.1	B2/1000		
BM	(30°-60°)	1376.9	7.9	B2/2500		
BH	(60°-80°)	941.4	5.4	B2/1000		G2/1000
BVH	(80°-90°)	75.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2021.4	2021.4	2021.4	2021.4	2021.4	2021.4	2021.4	2021.4	*2021.4*	2021.4	2021.4
2.5°	2239.3	2235.5	2238.0	2235.5	2221.7	2187.9	2160.4	2125.3	*2101.5*	2087.7	2055.2
5°	2502.3	2498.5	2489.7	2477.2	2452.2	2405.8	2337.0	2260.6	*2214.2*	2179.2	2110.3
7.5°	2691.4	2691.4	2690.1	2675.1	2657.6	2608.7	2527.3	2427.1	*2359.5*	2299.4	2186.7
10°	2787.8	2794.1	2802.8	2824.1	2820.4	2794.1	2717.7	2610.0	*2524.8*	2454.7	2286.9
12.5°	2840.4	2844.2	2859.2	2903.0	2948.1	2954.4	2909.3	2796.6	*2703.9*	2610.0	2398.3
15°	2908.0	2909.3	2929.3	2981.9	3048.3	3114.7	3103.4	2990.7	*2895.5*	2791.6	2522.3
17.5°	2960.6	2969.4	3005.7	3067.1	3149.8	3241.2	3296.3	3226.1	*3108.4*	2989.4	2657.6
20°	2979.4	2985.7	3033.3	3127.2	3239.9	3368.9	3491.7	3472.9	*3353.9*	3213.6	2810.4
22.5°	3047.1	3047.1	3082.1	3161.0	3293.8	3481.6	3680.8	3729.6	*3624.4*	3460.3	2974.4
25°	3196.1	3191.1	3207.4	3239.9	3340.1	3571.8	3867.4	4013.9	*3896.2*	3712.1	3138.5
27.5°	3400.2	3397.7	3396.5	3401.5	3435.3	3650.7	4025.2	4279.4	*4161.7*	3953.8	3285.0
30°	3621.9	3614.4	3630.7	3615.6	3608.1	3744.6	4159.2	4517.4	*4425.9*	4193.0	3406.5
32.5°	3923.7	3910.0	3906.2	3857.4	3827.3	3891.2	4266.9	4787.9	*4715.2*	4451.0	3543.0
35°	4322.0	4309.5	4245.6	4167.9	4079.0	4109.1	4400.9	5052.1	*5057.1*	4774.1	3722.1
37.5°	4724.0	4726.5	4676.4	4493.6	4402.1	4384.6	4605.0	5374.0	*5481.7*	5159.8	3953.8
40°	5058.4	5073.4	5073.4	4880.6	4744.0	4727.8	4891.8	5756.0	*5970.1*	5633.2	4246.8
42.5°	5312.6	5326.4	5370.2	5231.2	5087.2	5143.6	5240.0	6139.2	*6523.7*	6218.1	4617.5
45°	5591.9	5603.2	5627.0	5546.8	5462.9	5613.2	5634.5	6597.6	*7157.4*	6874.3	5048.4
47.5°	5962.6	5952.6	5955.1	5896.2	5831.1	6074.1	6069.1	6983.3	*7769.8*	7593.2	5515.5
50°	6423.5	6442.3	6424.7	6308.3	6231.9	6453.5	6482.4	7410.4	*8308.3*	8304.6	5986.4
52.5°	6866.8	6874.3	6967.0	6972.0	6815.5	6769.1	6844.3	7841.2	*8762.9*	8955.8	6438.5
55°	6889.4	6918.2	7196.2	7396.6	7649.6	7277.6	7210.0	8252.0	*9202.5*	9593.3	6908.2
57.5°	6409.7	6456.1	6928.2	7360.3	8064.1	8150.5	7836.2	8783.0	*9642.1*	10220.7	7451.7
60°	5385.3	5481.7	6122.9	6784.2	7877.5	8778.0	9117.4	9504.4	*10219.5*	10861.9	8111.7
62.5°	3439.1	3476.6	4375.8	5482.9	7037.2	8716.6	10512.5	10775.5	*11098.6*	11697.3	9128.6
65°	1722.0	1842.3	2369.5	3272.5	5074.7	7680.9	11217.6	13103.7	*12708.0*	13127.5	10776.8
67.5°	1168.5	1207.3	1474.1	1966.2	2975.7	5441.6	10780.5	15065.0	*14948.5*	15017.4	12533.9
70°	*861.6*	*886.7*	*1097.1*	*1392.7*	*1799.7*	*3089.6*	*8582.6*	*14917.2*	*15712.4*	*15687.4*	*12349.8*
72.5°	628.7	641.2	800.3	1063.3	1333.8	1598.0	5241.2	12050.5	*13716.1*	14438.8	10800.6
75°	457.1	472.1	556.1	795.3	1037.0	996.9	2587.4	8704.1	*10459.9*	11850.1	8799.3
77.5°	340.6	359.4	398.3	498.4	726.4	713.9	1118.4	5652.0	*6765.4*	7739.7	5345.2
80°	245.5	249.2	271.8	319.4	460.9	418.3	532.3	2946.9	*3378.9*	3702.1	2095.2
82.5°	149.0	152.8	181.6	196.6	285.5	263.0	276.8	954.3	*1367.6*	1451.5	782.7
85°	43.8	46.3	82.7	90.2	119.0	112.7	111.5	388.2	*463.4*	592.4	308.1
87.5°	0.0	0.0	0.0	0.0	1.3	7.5	13.8	68.9	*103.9*	144.0	75.1
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: P636016
CATALOG NUMBER: GWS-SA3E-830-U-T2-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2021.4	2021.4	2021.4	2021.4	2021.4	2021.4	2021.4	2021.4	2021.4	2021.4	2021.4
2.5°	2042.6	2013.8	1998.8	1972.5	1953.7	1934.9	1916.2	1898.6	1891.1	1879.8	1882.3
5°	2079.0	2033.9	1988.8	1937.4	1893.6	1857.3	1824.7	1795.9	1783.4	1772.1	1777.1
7.5°	2134.1	2066.4	1980.0	1886.1	1817.2	1767.1	1733.3	1713.3	1707.0	1698.2	1698.2
10°	2204.2	2102.8	1951.2	1817.2	1734.6	1694.5	1679.5	1678.2	1684.5	1685.7	1683.2
12.5°	2281.8	2137.8	1908.6	1735.8	1665.7	1653.2	1664.4	1685.7	1707.0	1718.3	1715.8
15°	2362.0	2160.4	1836.0	1658.2	1615.6	1631.9	1668.2	1710.8	1752.1	1773.4	1772.1
17.5°	2437.1	2165.4	1742.1	1583.0	1571.7	1613.1	1675.7	1742.1	1798.4	1828.5	1829.7
20°	2521.1	2156.6	1645.6	1515.4	1527.9	1595.5	1678.2	1758.4	1824.7	1854.8	1862.3
22.5°	2597.4	2126.6	1551.7	1451.5	1490.3	1574.2	1658.2	1733.3	1792.2	1821.0	1831.0
25°	2666.3	2068.9	1449.0	1397.7	1461.5	1544.2	1608.1	1660.7	1702.0	1719.5	1733.3
27.5°	2703.9	1982.5	1371.4	1355.1	1434.0	1501.6	1536.7	1553.0	1566.7	1561.7	1571.7
30°	2711.4	1874.8	1303.7	1321.3	1392.7	1442.7	1450.3	1434.0	1410.2	1371.4	1380.1
32.5°	2703.9	1750.8	1247.4	1284.9	1346.3	1376.4	1366.4	1323.8	1266.2	1206.0	1209.8
35°	2706.4	1625.6	1201.0	1244.9	1292.5	1308.7	1283.7	1224.8	1163.5	1108.4	1105.9
37.5°	2734.0	1520.4	1162.2	1206.0	1239.9	1242.4	1214.8	1153.4	1122.1	1080.8	1075.8
40°	2810.4	1442.7	1127.1	1167.2	1188.5	1187.3	1156.0	1112.1	1133.4	1119.6	1115.9
42.5°	2935.6	1395.2	1098.3	1125.9	1140.9	1143.4	1118.4	1090.8	1137.2	1119.6	1113.4
45°	3137.2	1392.7	1078.3	1084.6	1108.4	1125.9	1108.4	1077.1	1094.6	1009.4	993.1
47.5°	3376.4	1435.2	1063.3	1048.2	1089.6	1120.9	1093.3	1043.2	1006.9	929.3	918.0
50°	3664.5	1521.6	1049.5	1009.4	1062.0	1102.1	1074.5	1005.7	950.6	909.2	903.0
52.5°	4006.4	1635.6	1032.0	965.6	1020.7	1092.1	1074.5	1001.9	929.3	891.7	885.4
55°	4364.6	1767.1	1011.9	913.0	974.4	1094.6	1083.3	975.6	913.0	893.0	887.9
57.5°	4809.2	1924.9	975.6	851.6	933.0	1072.0	1048.2	960.6	901.7	885.4	880.4
60°	5386.5	2159.1	906.7	789.0	885.4	1032.0	1016.9	935.5	871.7	857.9	854.1
62.5°	6300.8	2556.1	822.8	728.9	829.1	948.1	970.6	887.9	834.1	832.8	831.6
65°	7791.1	3033.3	723.9	675.0	770.2	879.2	909.2	839.1	795.3	809.0	807.8
67.5°	8835.6	3074.6	642.5	618.7	701.3	804.0	847.9	789.0	741.4	767.7	766.5
70°	*8092.9*	*2398.3*	*572.3*	*559.8*	*627.4*	*722.6*	*781.5*	*726.4*	*678.8*	*703.8*	*698.8*
72.5°	6825.5	1838.5	506.0	498.4	552.3	637.5	696.3	663.8	613.7	613.7	602.4
75°	5485.5	1516.6	435.8	432.1	468.4	551.1	617.4	562.3	516.0	513.5	506.0
77.5°	3146.0	994.4	365.7	363.2	374.5	460.9	479.7	468.4	433.3	417.0	412.0
80°	1253.6	517.2	288.0	271.8	283.0	338.1	378.2	359.4	329.4	309.3	298.1
82.5°	485.9	259.2	202.9	177.8	194.1	244.2	274.3	268.0	248.0	202.9	190.4
85°	197.9	126.5	121.5	102.7	112.7	131.5	157.8	136.5	112.7	80.2	76.4
87.5°	52.6	46.3	45.1	27.6	21.3	6.3	1.3	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

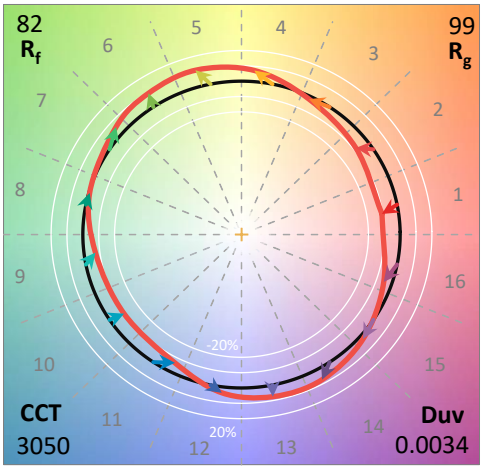
Test Information

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

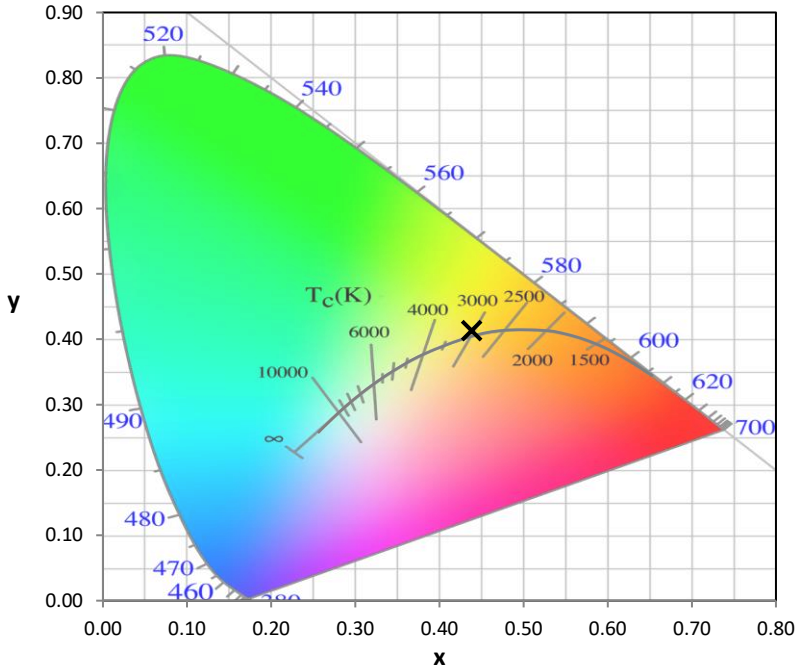
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

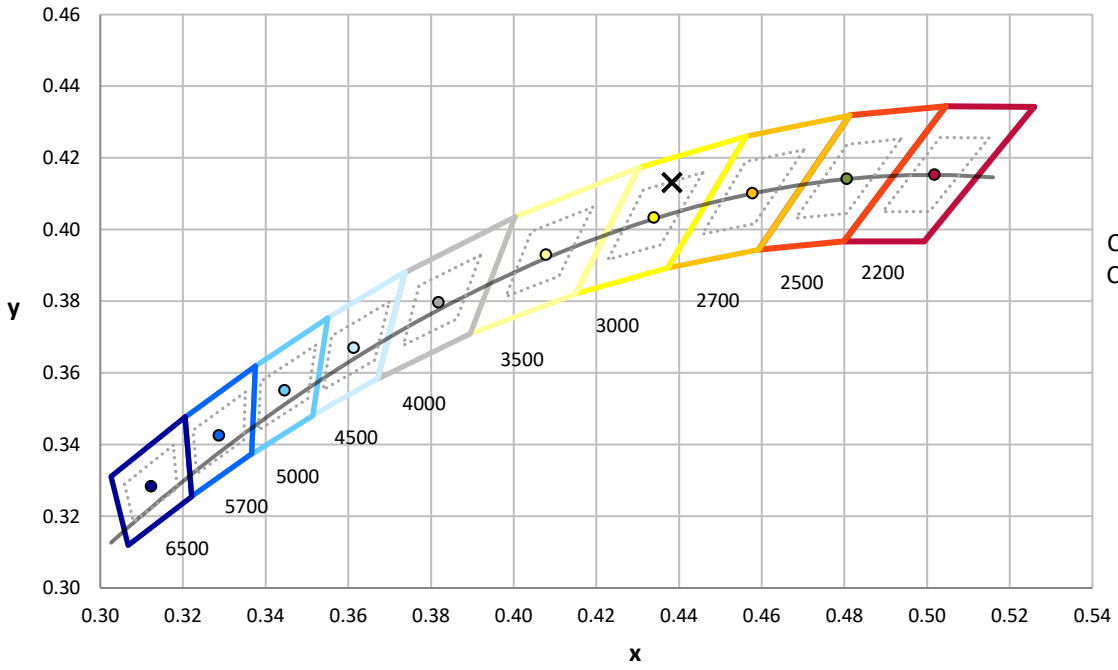
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

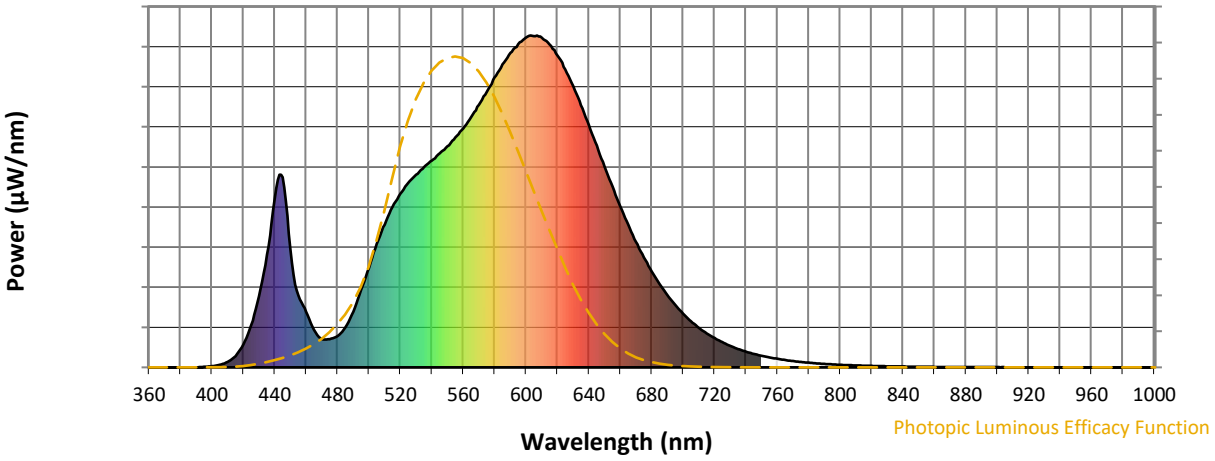


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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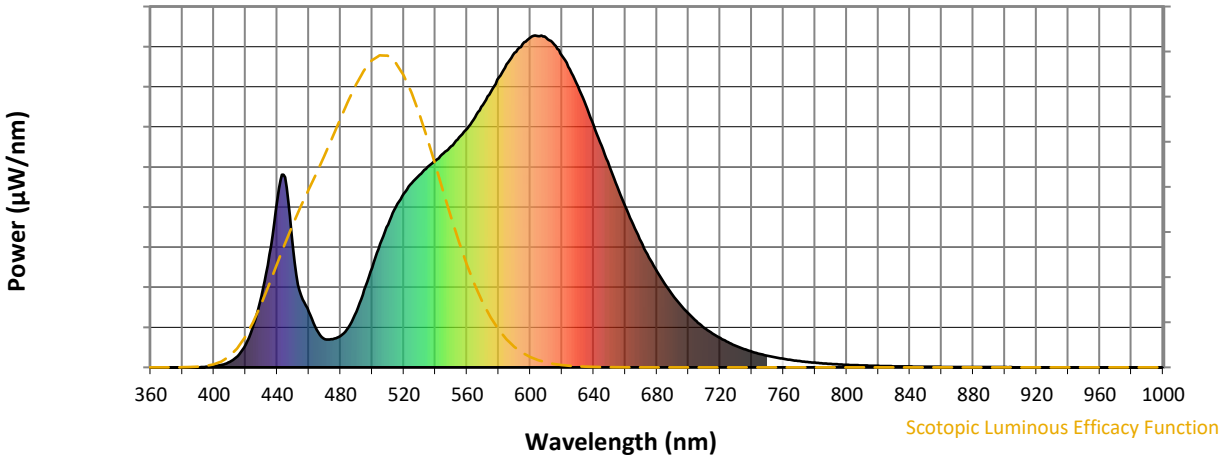
Scotopic Flux vs. Wavelength



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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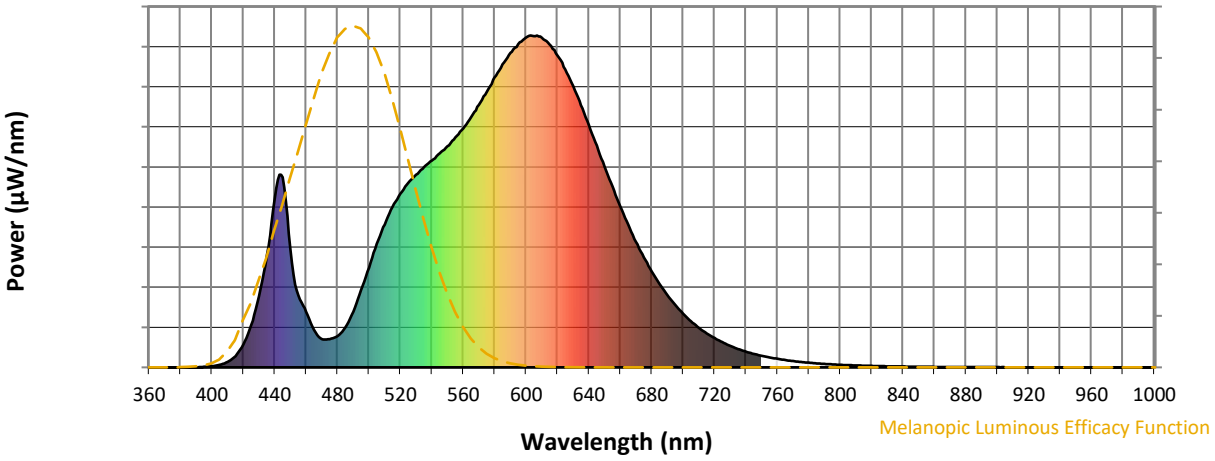
Melanopic Flux vs. Wavelength



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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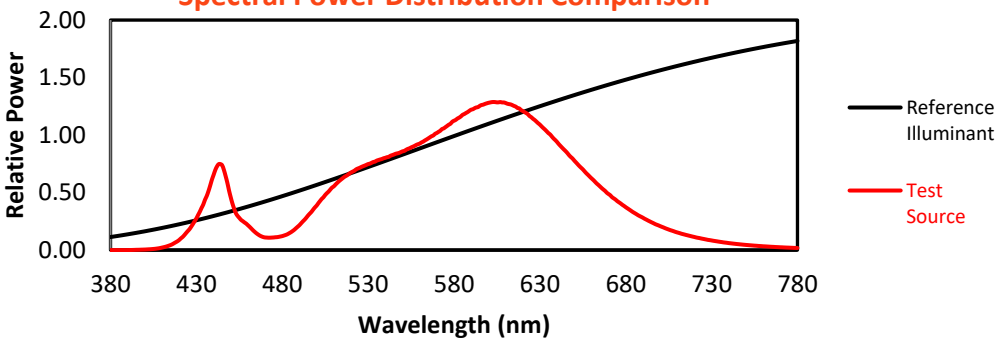
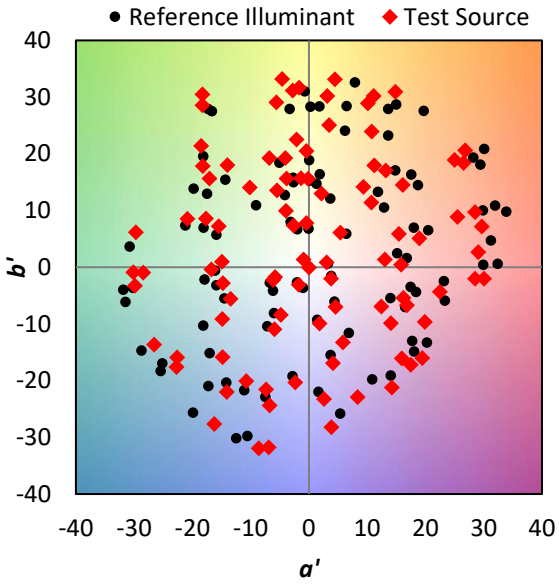
Summary

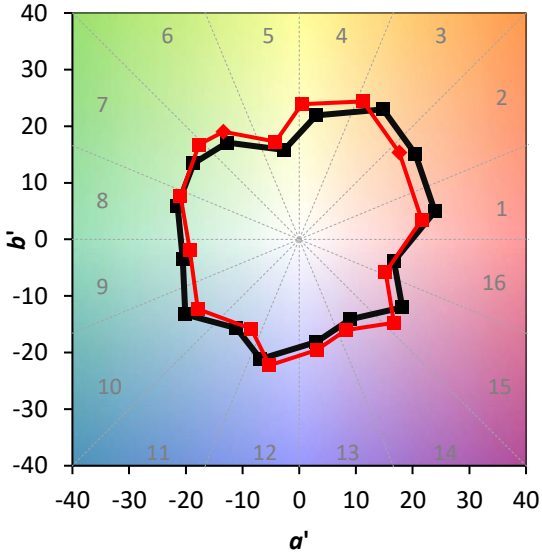
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

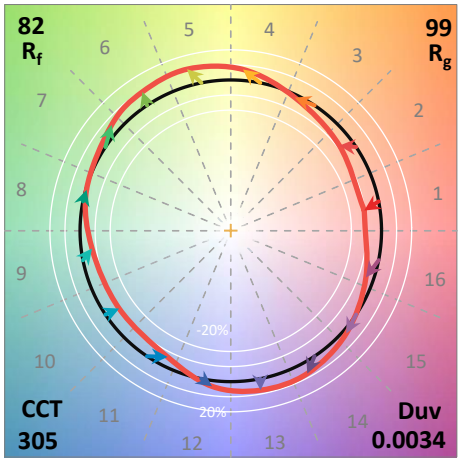
Spectral Power Distribution Comparison

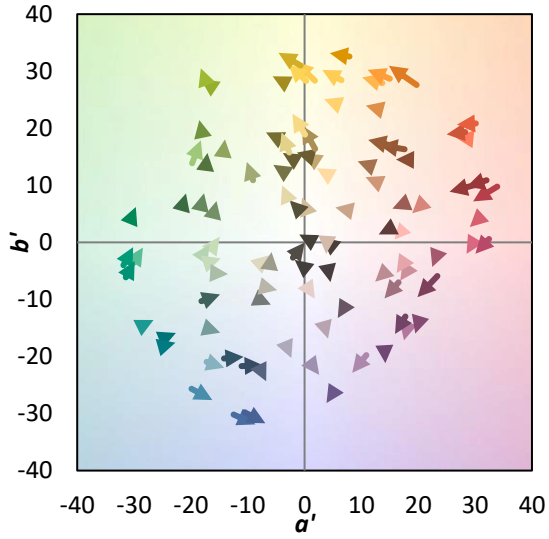


Color Vector Graphics









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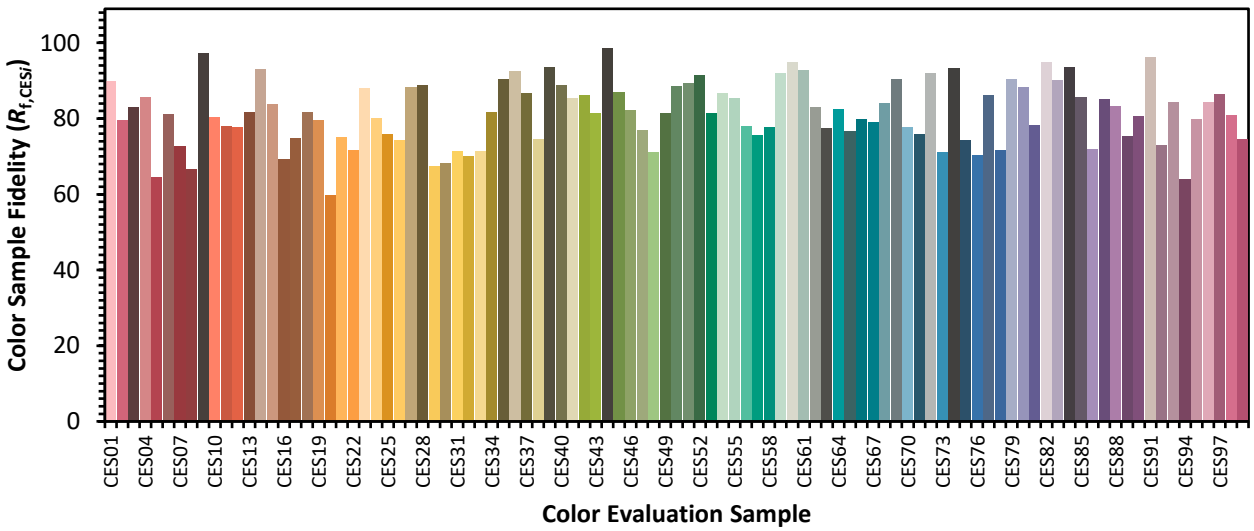
Individual Sample Fidelity Index ($R_{f,i}$)

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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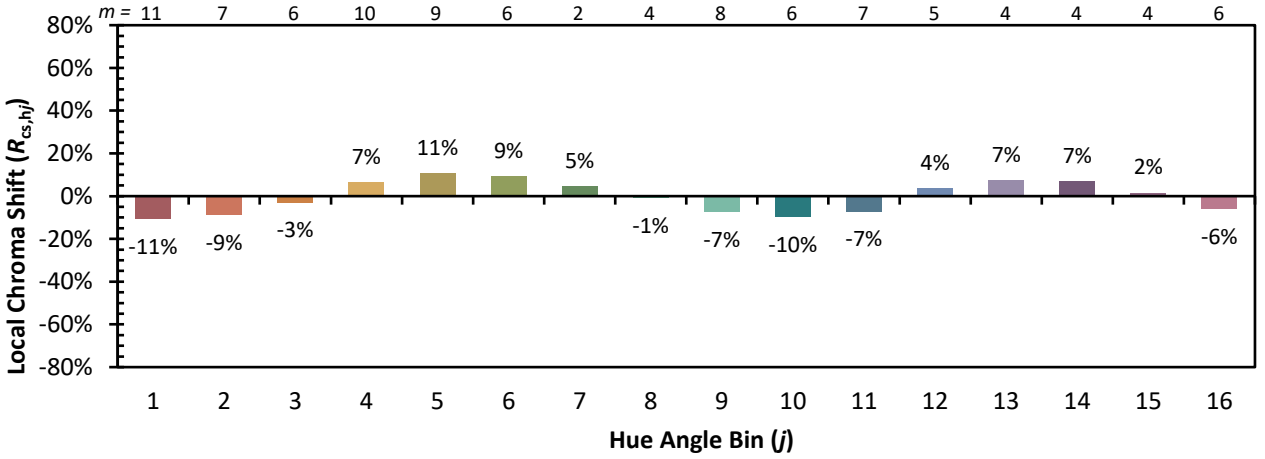
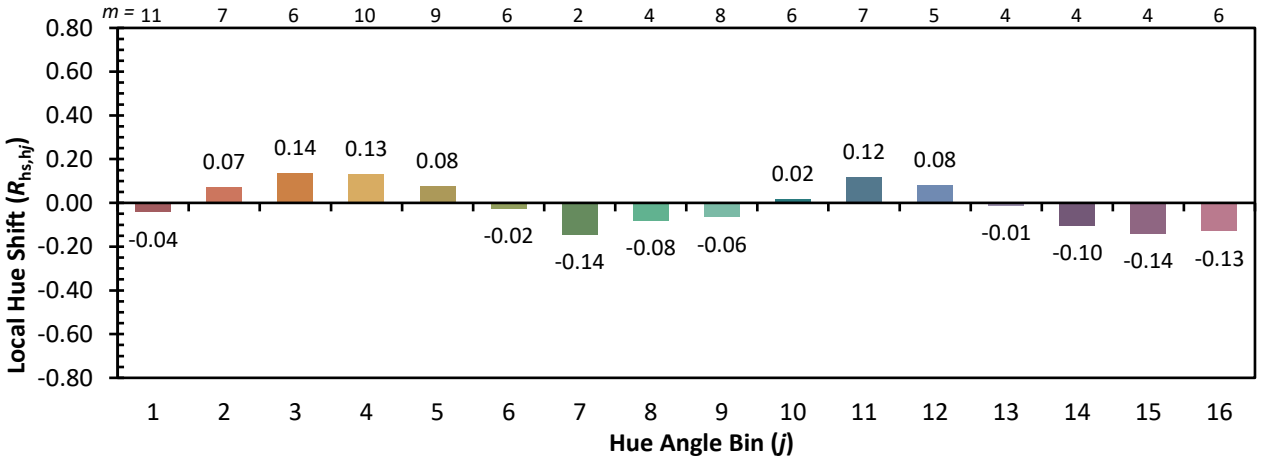
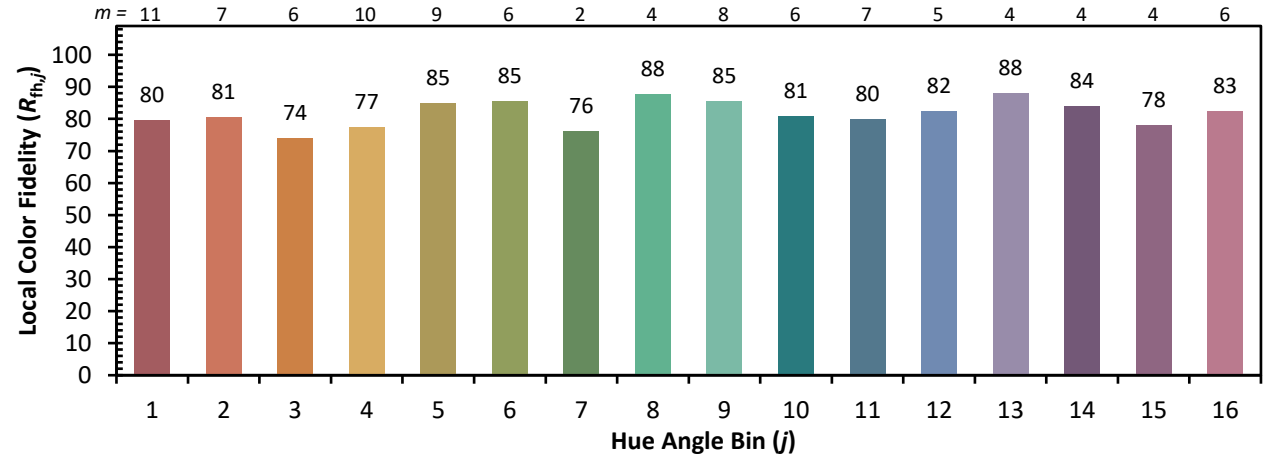
Color Rendition by Hue-Angle Bin







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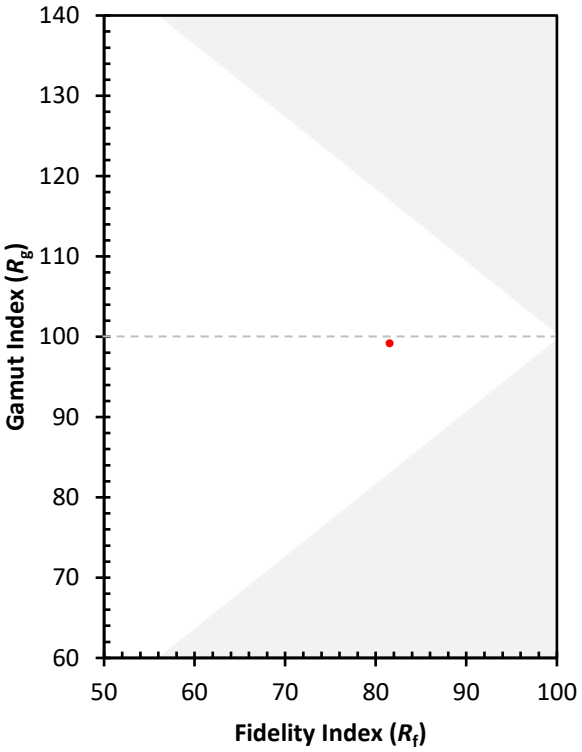
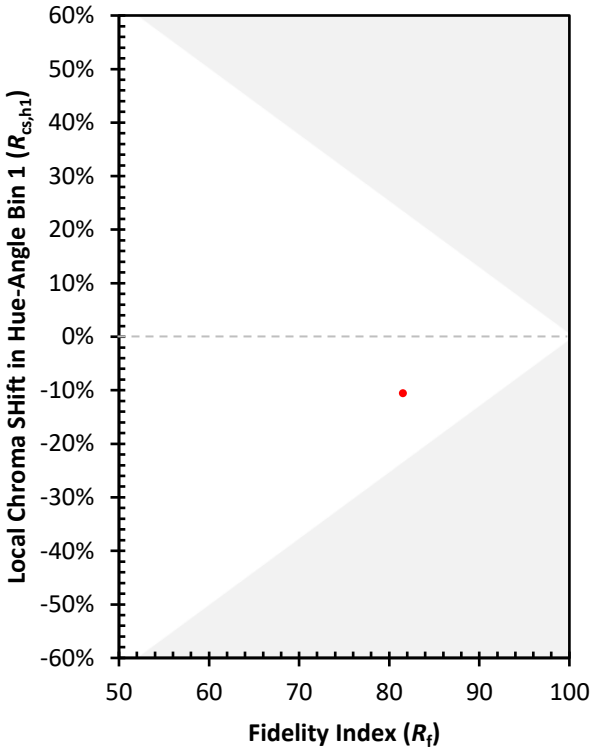
Measure Comparisons





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