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: P632560

Luminaire Tested: GWS-SA2C-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:	P632560
	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-SA2C-830-U-T3R-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4611.3 lumens
Efficiency:	N/A
Efficacy:	73.0 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G0

Input Watts (W):	63.2
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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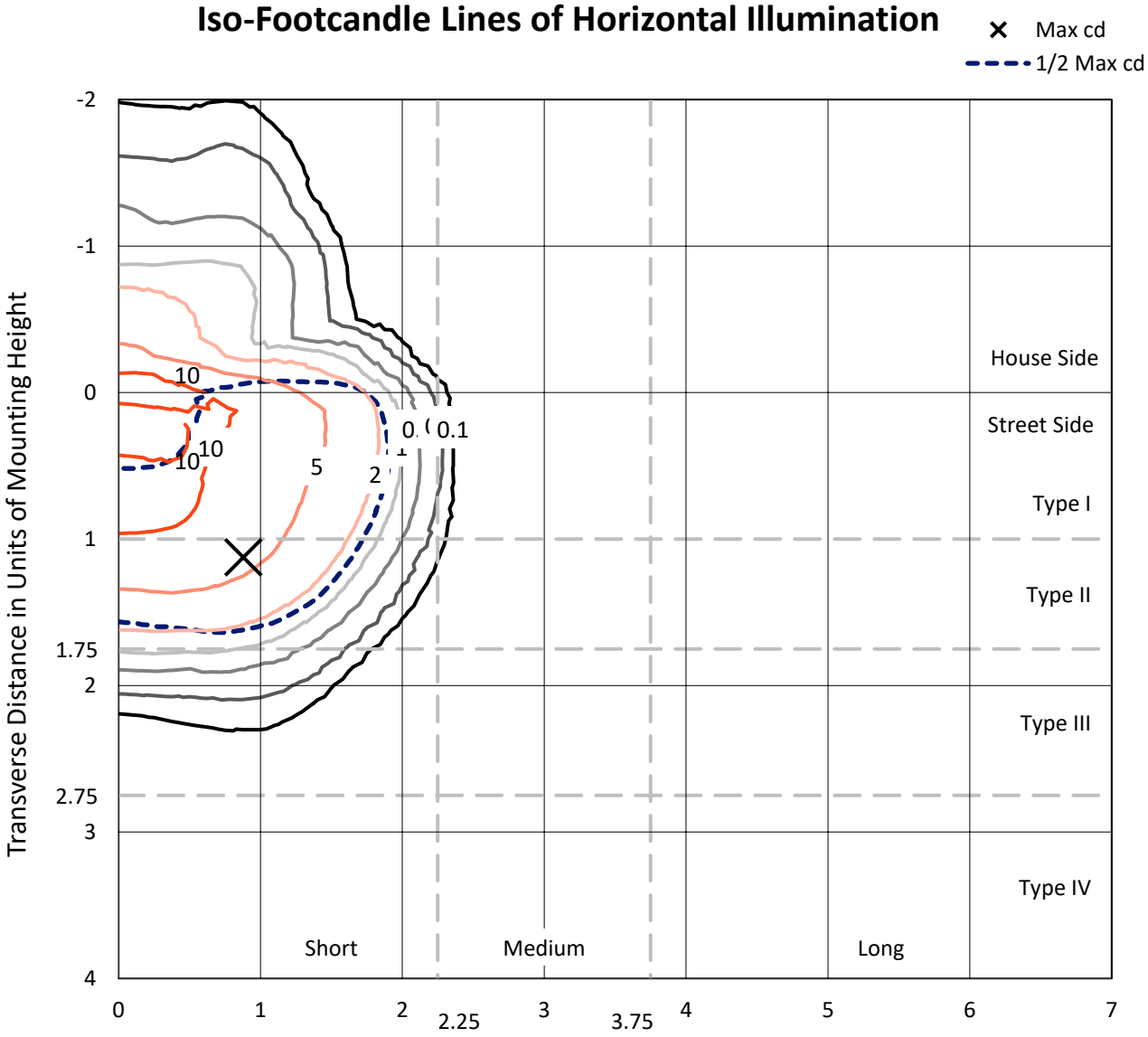
Scaled Data Report

REPORT NUMBER: P632560
CATALOG NUMBER: GWS-SA2C-830-U-T3R-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 11.6 fc
Type II - Short - N/A

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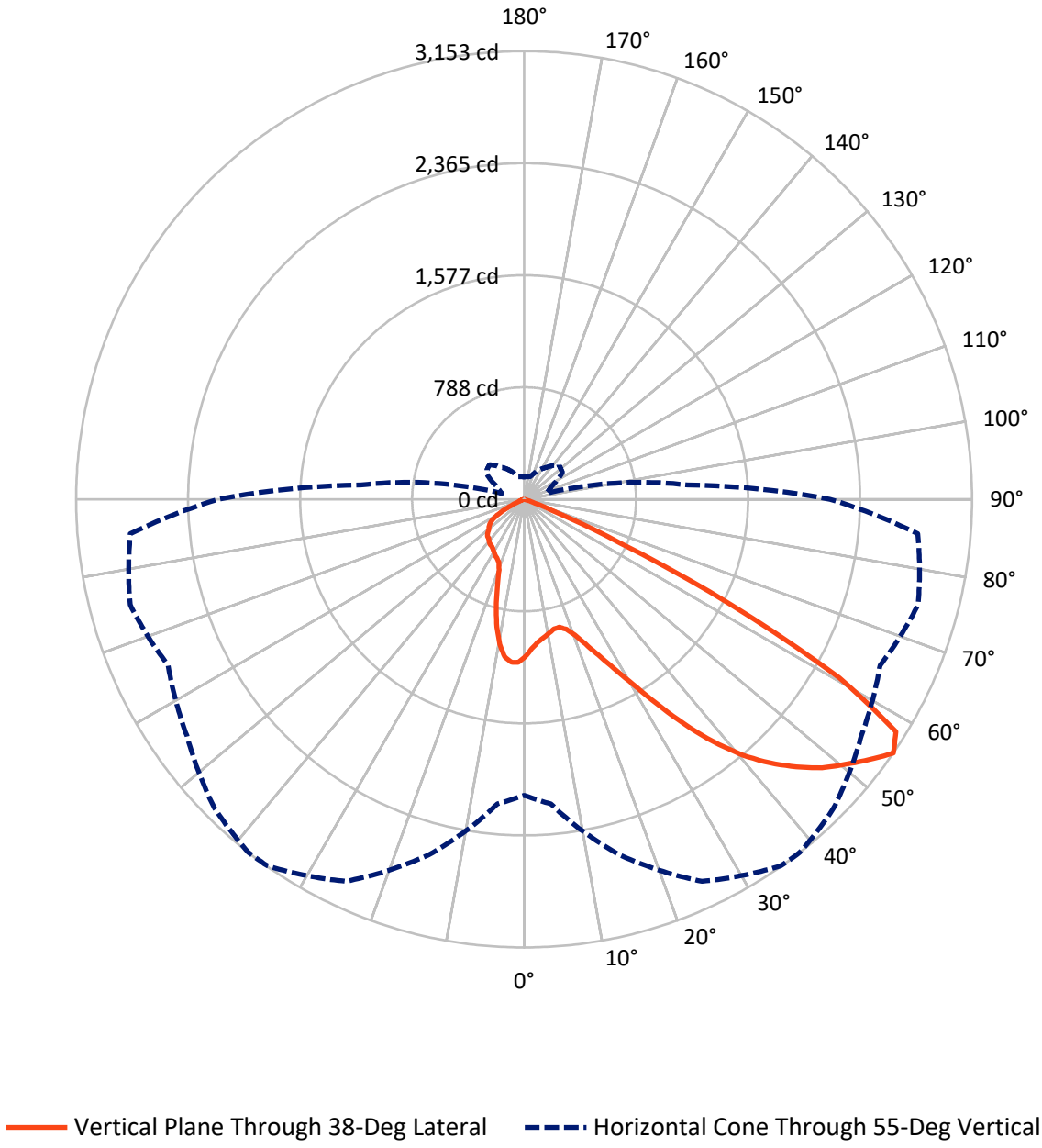
Luminous Intensity Polar Plot



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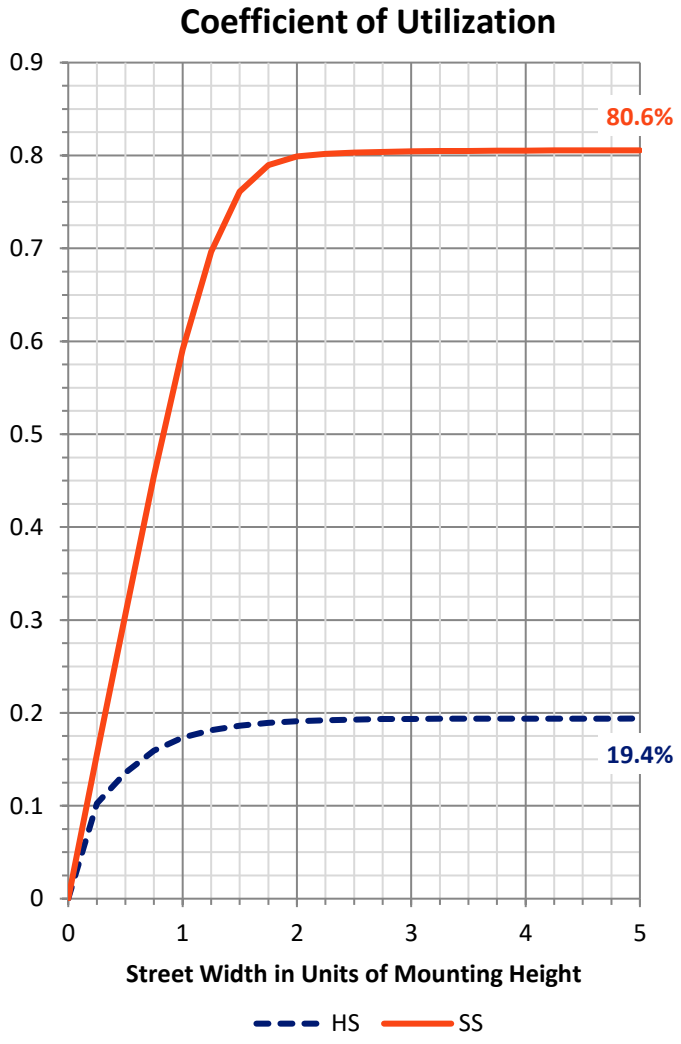
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	898.4	0.0	898.4
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	3712.9	0.0	3712.9
	% Fixture	80.5	0.0	80.5
Total	Lumens	4611.3	0.0	4611.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.2	2.2
10°-20°	275.3	6.0
20°-30°	472.4	10.2
30°-40°	783.5	17.0
40°-50°	1151.7	25.0
50°-60°	1345.8	29.2
60°-70°	456.2	9.9
70°-80°	23.3	0.5
80°-90°	0.9	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°	4611.3	100.0
0°-180°	4611.3	100.0



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REPORT NUMBER: P632560
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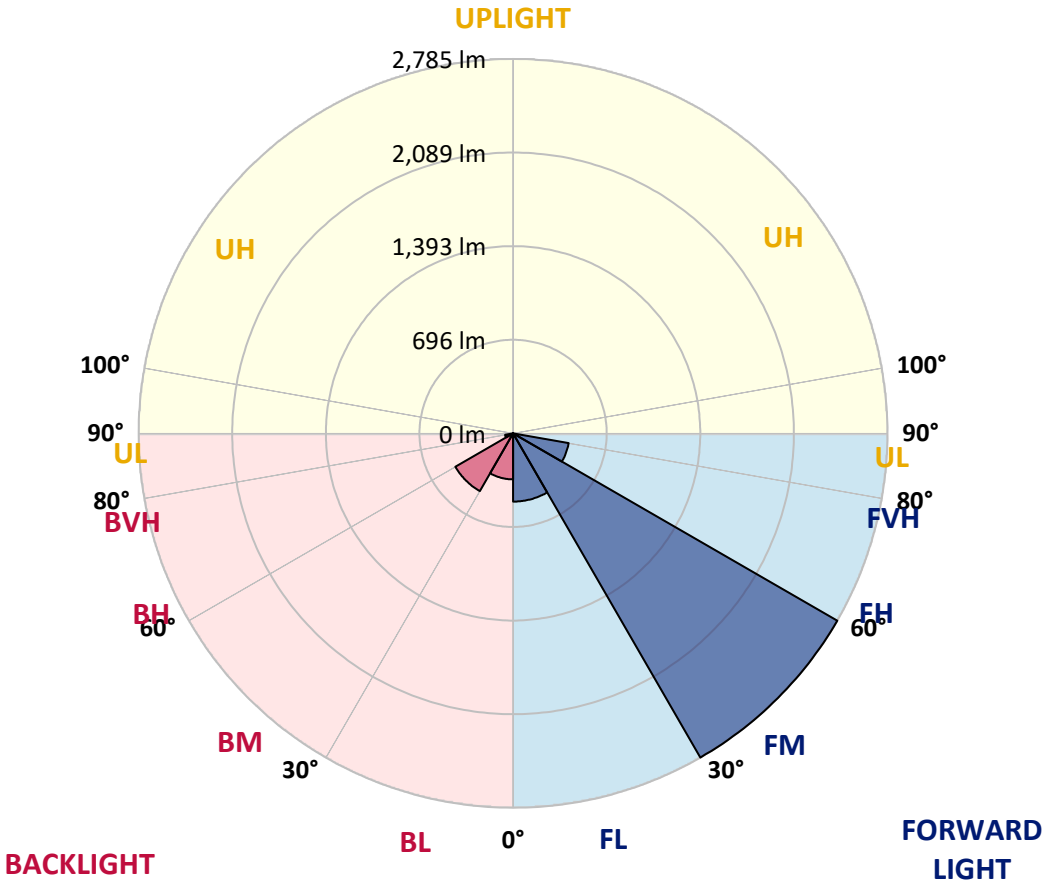
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	507.6	11.0			
FM	(30°-60°)	2785.1	60.4			
FH	(60°-80°)	419.7	9.1			G0/660
FVH	(80°-90°)	0.5	0.0			G0/10
BL	(0°-30°)	342.3	7.4	B1/500		
BM	(30°-60°)	495.9	10.8	B1/1000		
BH	(60°-80°)	59.8	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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Scaled Data Report

REPORT NUMBER: P632560
CATALOG NUMBER: GWS-SA2C-830-U-T3R-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1105.8	1105.8	1105.8	1105.8	1105.8	*1105.8*	1105.8	1105.8	1105.8	1105.8	1105.8
2.5°	1029.9	1027.8	1032.0	1040.5	1048.4	*1051.0*	1058.9	1070.0	1076.8	1093.2	1106.4
5°	983.5	982.5	986.7	994.1	1004.6	*1008.3*	1020.4	1038.9	1057.3	1085.8	1113.7
7.5°	941.4	940.8	947.2	963.5	978.8	*983.5*	998.3	1021.0	1045.7	1089.5	1130.6
10°	886.0	886.6	898.7	921.9	949.8	*959.3*	983.0	1015.7	1047.8	1104.2	1161.2
12.5°	868.1	869.2	875.5	893.4	924.0	*936.1*	969.3	1018.9	1060.0	1125.3	1200.7
15°	911.9	911.9	906.6	908.7	922.4	*933.5*	968.3	1029.4	1080.5	1150.6	1239.7
17.5°	996.7	993.6	980.4	962.5	957.7	*961.4*	989.3	1052.1	1109.5	1180.1	1284.0
20°	1111.6	1112.7	1086.8	1049.4	1019.4	*1018.9*	1035.7	1092.1	1151.2	1215.5	1331.9
22.5°	1250.8	1246.6	1212.3	1161.2	1109.0	*1104.8*	1111.6	1153.3	1211.2	1271.3	1391.0
25°	1412.1	1410.0	1361.5	1292.9	1223.9	*1213.9*	1213.9	1255.0	1297.2	1350.9	1461.6
27.5°	1580.7	1580.7	1533.8	1454.8	1363.0	*1345.1*	1342.5	1391.0	1418.9	1429.5	1521.2
30°	1754.1	1752.0	1705.6	1624.5	1526.4	*1508.0*	1500.6	1536.5	1556.5	1524.9	1595.5
32.5°	1930.2	1933.9	1887.0	1811.6	1724.1	*1712.0*	1689.3	1689.3	1705.6	1661.4	1712.5
35°	2119.4	2118.4	2081.5	2030.3	1955.5	*1941.8*	1904.4	1845.9	1870.6	1851.1	1874.3
37.5°	2286.5	2294.4	2276.5	2238.5	2177.9	*2164.2*	2102.5	1996.6	2015.6	2046.1	2066.7
40°	2456.2	2462.5	2480.5	2468.3	2391.9	*2366.6*	2257.0	2083.0	2104.1	2209.0	2268.0
42.5°	2622.8	2625.9	2662.3	2682.3	2580.1	*2535.8*	2374.0	2135.7	2157.9	2336.6	2439.9
45°	2728.7	2735.6	2795.7	2856.8	2746.1	*2685.5*	2475.7	2203.2	2212.7	2425.1	2566.9
47.5°	2724.5	2740.3	2853.1	2964.3	2889.0	*2823.6*	2598.0	2311.3	2295.5	2508.4	2650.7
50°	2639.6	2658.6	2820.4	2997.0	2991.7	*2931.1*	2734.0	2467.8	2418.3	2582.2	2661.3
52.5°	2463.6	2518.4	2763.0	3001.2	3074.5	*3043.9*	2902.1	2678.6	2584.3	2688.1	2678.1
55°	*2083.0*	*2150.5*	*2588.5*	*2965.4*	*3149.3*	*3153.0*	*3078.7*	*2898.4*	*2764.6*	*2870.5*	*2782.0*
57.5°	1581.3	1635.0	1992.4	2639.6	3025.5	*3086.1*	3147.2	3014.4	2875.8	2994.9	2806.2
60°	953.0	1015.2	1247.6	1937.0	2443.6	*2546.9*	2786.7	2760.9	2593.8	2644.9	2301.3
62.5°	386.4	419.0	576.1	1067.3	1538.0	*1634.5*	1864.3	1903.3	1862.2	1810.0	1395.7
65°	141.3	154.4	230.9	441.2	707.3	*742.7*	863.9	932.9	989.9	842.8	519.2
67.5°	87.5	95.9	150.2	226.6	257.2	*239.3*	243.5	290.4	277.2	171.3	92.8
70°	64.8	71.7	117.5	157.1	103.8	*80.1*	54.3	58.0	52.2	45.9	45.3
72.5°	44.8	51.1	88.0	92.8	40.1	*28.5*	20.0	27.9	31.6	31.1	32.2
75°	29.5	34.3	55.3	36.4	10.0	*7.9*	6.9	14.8	19.0	19.0	19.5
77.5°	17.4	20.0	19.5	7.4	2.1	*2.1*	1.6	2.6	4.2	4.7	5.8
80°	2.1	1.6	1.1	1.1	1.1	*1.1*	1.1	1.1	1.6	1.6	1.6
82.5°	0.5	0.5	0.5	1.1	1.1	*1.1*	1.1	1.1	1.1	1.6	1.6
85°	0.0	0.0	0.5	0.5	1.1	*1.1*	1.1	1.1	1.1	1.6	1.6
87.5°	0.0	0.0	0.5	0.5	1.1	*1.1*	1.1	1.1	1.1	1.6	1.6
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: P632560
CATALOG NUMBER: GWS-SA2C-830-U-T3R-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1105.8	1105.8	1105.8	1105.8	1105.8	1105.8	1105.8	1105.8	1105.8	1105.8	1105.8
2.5°	1116.4	1112.7	1128.0	1139.0	1148.0	1152.2	1146.4	1145.9	1145.9	1134.3	1131.1
5°	1129.5	1131.1	1152.7	1162.2	1163.8	1158.5	1145.4	1136.4	1131.1	1119.0	1112.2
7.5°	1154.8	1160.1	1180.7	1179.1	1164.9	1140.6	1105.8	1078.9	1061.5	1042.6	1031.0
10°	1191.2	1201.2	1213.9	1191.7	1146.4	1084.7	1013.1	961.9	931.4	909.7	896.6
12.5°	1235.5	1245.5	1241.3	1189.1	1094.8	984.6	892.4	818.6	783.2	763.7	750.0
15°	1280.3	1286.6	1259.2	1157.5	1003.6	855.5	752.7	679.4	636.2	620.4	608.8
17.5°	1326.1	1324.6	1262.4	1095.3	881.8	710.0	608.8	558.7	546.6	544.0	542.9
20°	1374.1	1359.9	1249.7	1006.2	735.3	566.1	508.6	511.8	533.9	544.5	546.6
22.5°	1428.9	1393.1	1218.1	885.5	585.6	471.7	477.5	508.6	538.7	552.9	555.0
25°	1487.4	1423.7	1165.4	730.5	461.7	433.8	468.1	503.9	536.0	553.4	555.5
27.5°	1525.9	1431.0	1078.9	574.5	396.4	419.0	455.4	489.7	522.9	541.8	544.5
30°	1567.6	1427.9	961.4	442.8	374.2	406.4	438.0	469.1	499.7	520.8	522.9
32.5°	1628.7	1425.8	818.0	359.5	365.3	396.4	419.6	445.4	466.5	478.6	477.0
35°	1708.8	1423.1	651.0	324.2	360.0	388.5	406.9	419.0	395.8	388.5	390.0
37.5°	1811.6	1429.5	510.2	309.4	358.4	386.4	402.2	367.4	331.5	317.8	315.7
40°	1925.4	1445.8	389.0	303.6	363.7	391.6	384.2	326.8	282.5	255.6	249.8
42.5°	2039.8	1463.7	307.8	301.5	372.6	406.4	354.7	297.3	230.9	215.6	213.5
45°	2124.7	1460.6	266.2	297.8	380.6	414.8	346.8	255.1	206.1	199.2	199.8
47.5°	2167.4	1425.8	243.5	289.4	383.7	406.4	327.3	237.7	189.2	196.6	202.9
50°	2144.7	1335.6	222.4	273.0	376.9	395.3	296.2	224.5	180.8	211.4	225.6
52.5°	2117.3	1224.9	199.2	247.7	360.5	380.0	284.1	220.8	175.5	204.0	214.5
55°	*2153.7*	*1154.8*	*161.3*	*208.7*	*328.4*	*344.2*	*274.6*	*220.3*	*163.4*	*158.7*	*157.1*
57.5°	2102.5	1015.2	115.4	150.2	251.9	272.5	267.8	216.6	144.9	144.4	146.5
60°	1625.0	619.3	79.1	95.4	154.4	173.9	243.0	207.1	124.9	114.9	115.4
62.5°	923.5	263.5	54.3	59.0	79.1	93.8	185.5	188.2	115.4	109.6	115.4
65°	321.5	94.3	42.2	39.5	43.7	50.1	106.5	145.5	104.9	94.9	95.9
67.5°	66.4	46.9	37.4	32.7	32.7	32.7	54.3	90.7	86.4	75.4	76.4
70°	42.2	40.1	32.7	27.9	26.9	24.8	31.1	50.1	59.6	54.8	55.3
72.5°	31.1	30.6	25.8	22.7	20.0	17.9	19.5	24.8	30.6	31.6	32.2
75°	19.0	19.5	16.9	14.2	12.7	11.1	11.6	11.6	11.6	10.5	11.6
77.5°	5.8	6.3	5.3	4.2	3.7	3.7	3.7	3.2	2.6	1.6	1.6
80°	1.6	1.6	1.6	1.6	1.6	1.1	1.1	0.5	0.5	0.0	0.0
82.5°	1.6	1.6	1.6	1.6	1.1	1.1	0.5	0.5	0.0	0.0	0.0
85°	1.6	1.6	1.6	1.6	1.1	1.1	0.5	0.5	0.0	0.0	0.0
87.5°	1.6	1.6	1.6	1.6	1.1	1.1	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

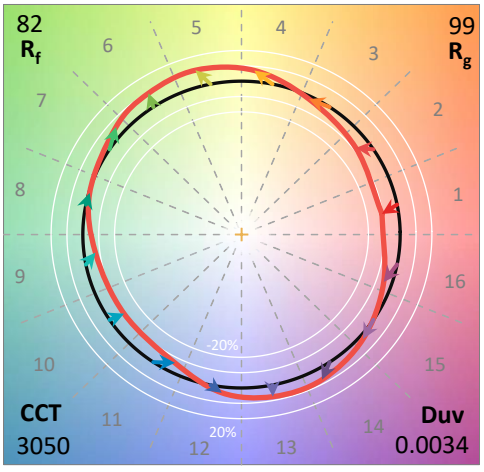
Test Information

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

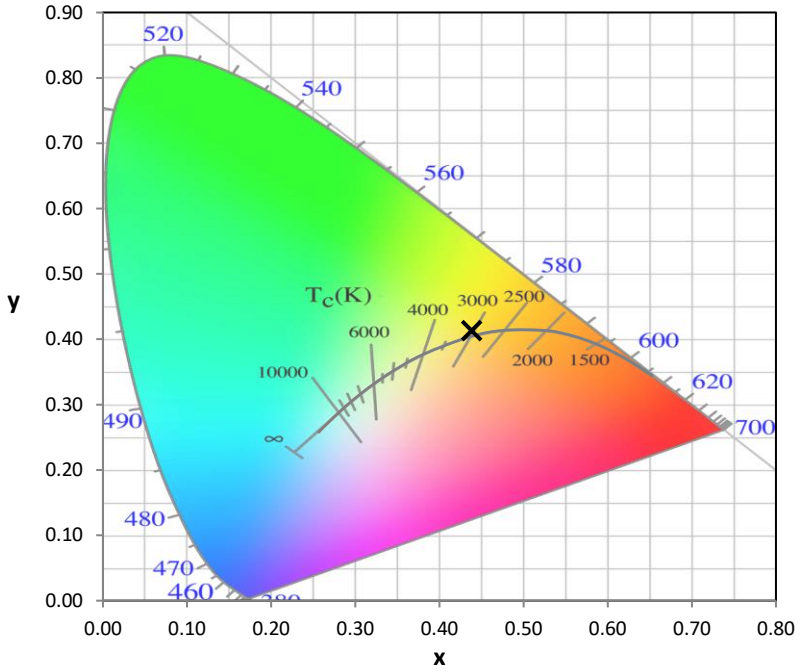
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

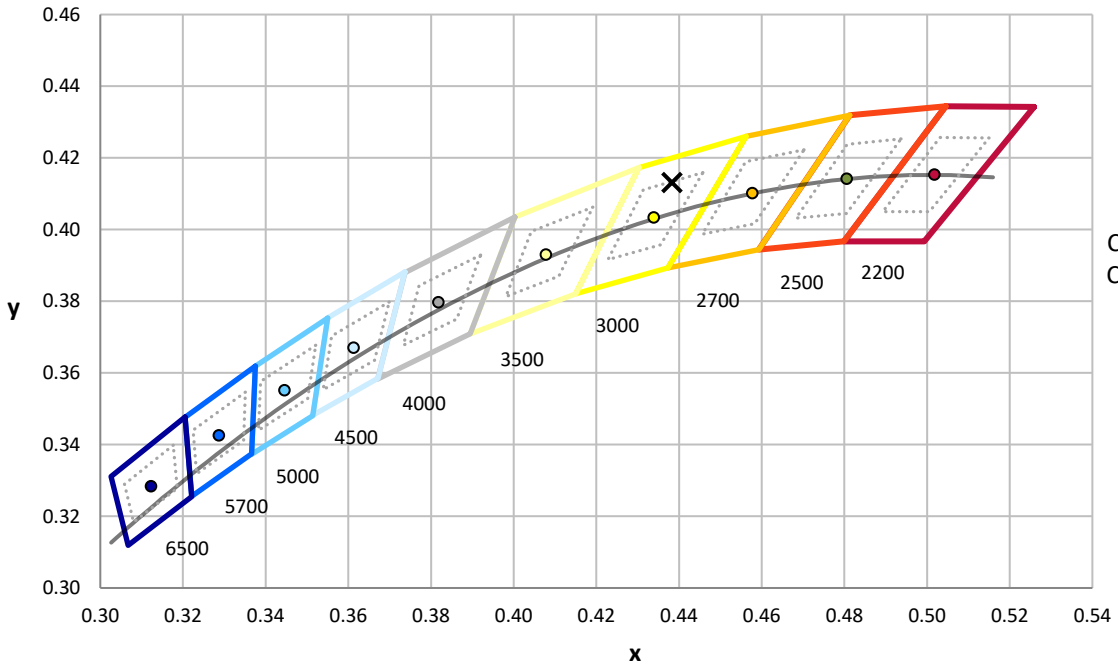
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

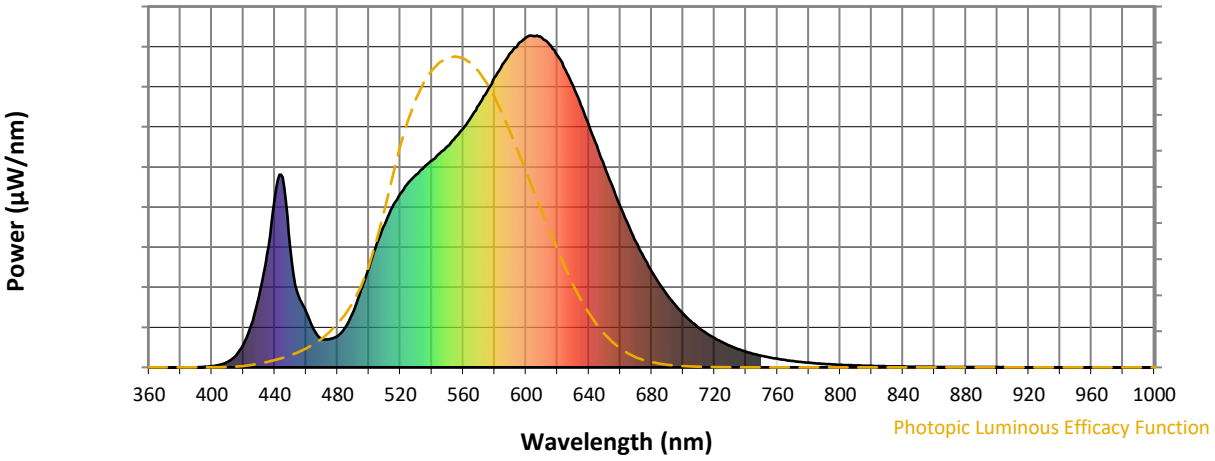


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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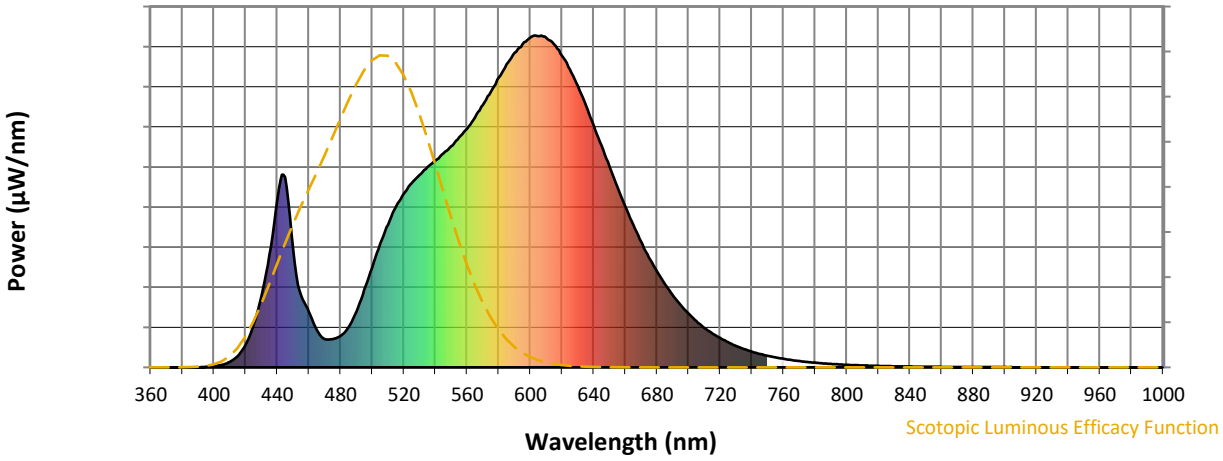
Scotopic Flux vs. Wavelength



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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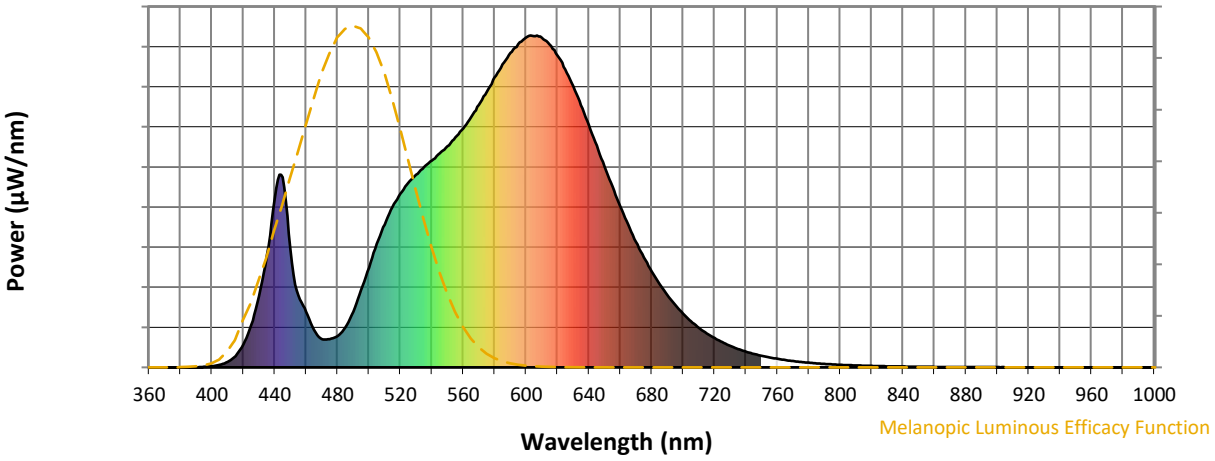
Melanopic Flux vs. Wavelength



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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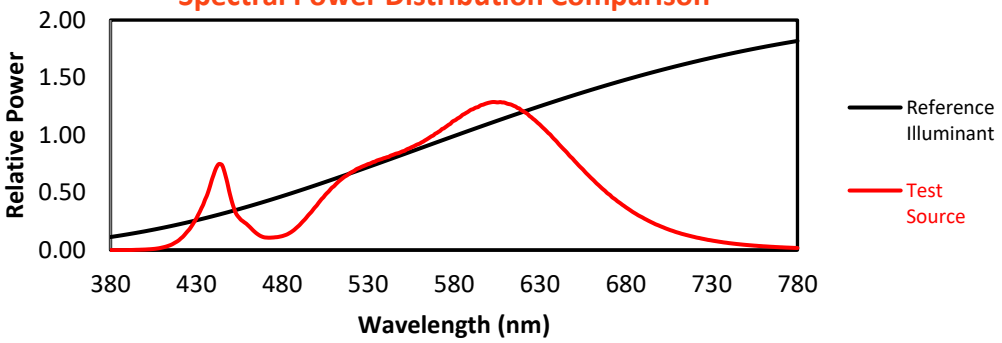
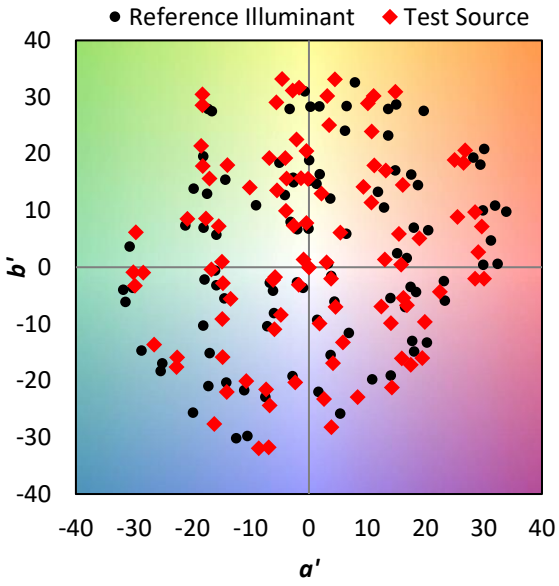
Summary

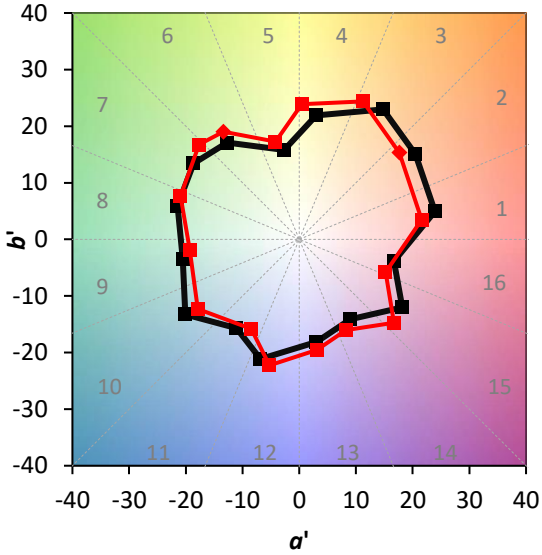
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

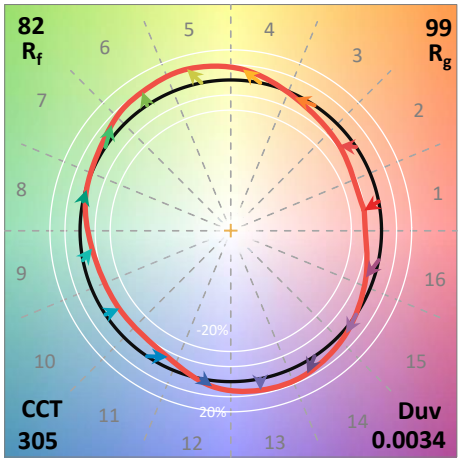
Spectral Power Distribution Comparison

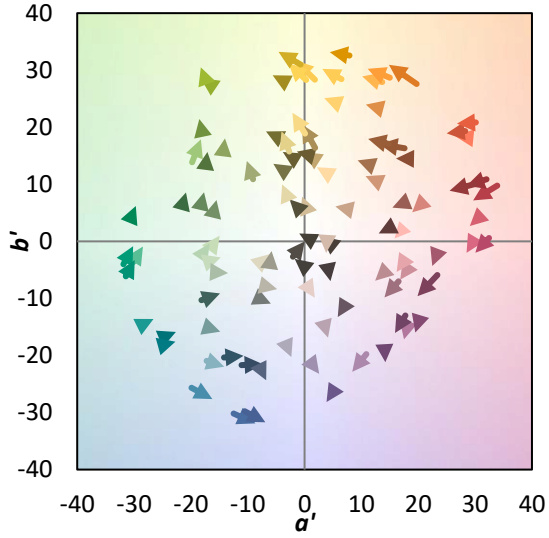


Color Vector Graphics









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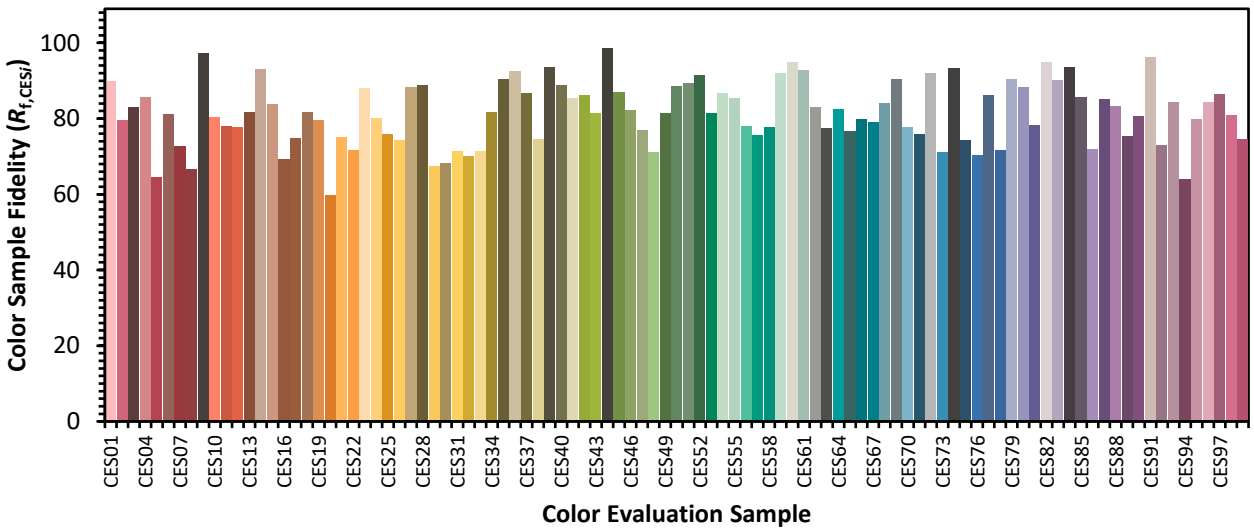
Individual Sample Fidelity Index ($R_{f,i}$)

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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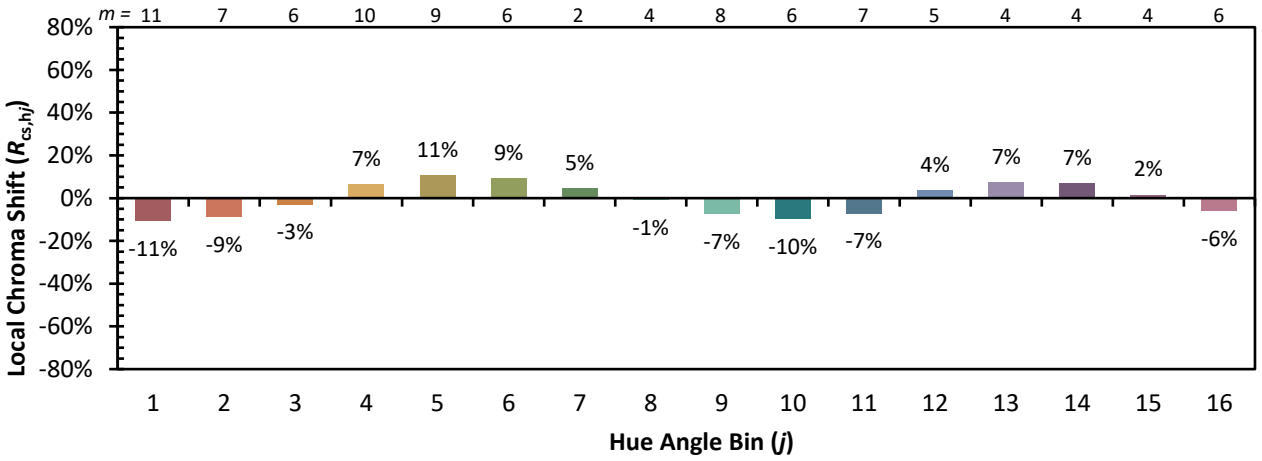
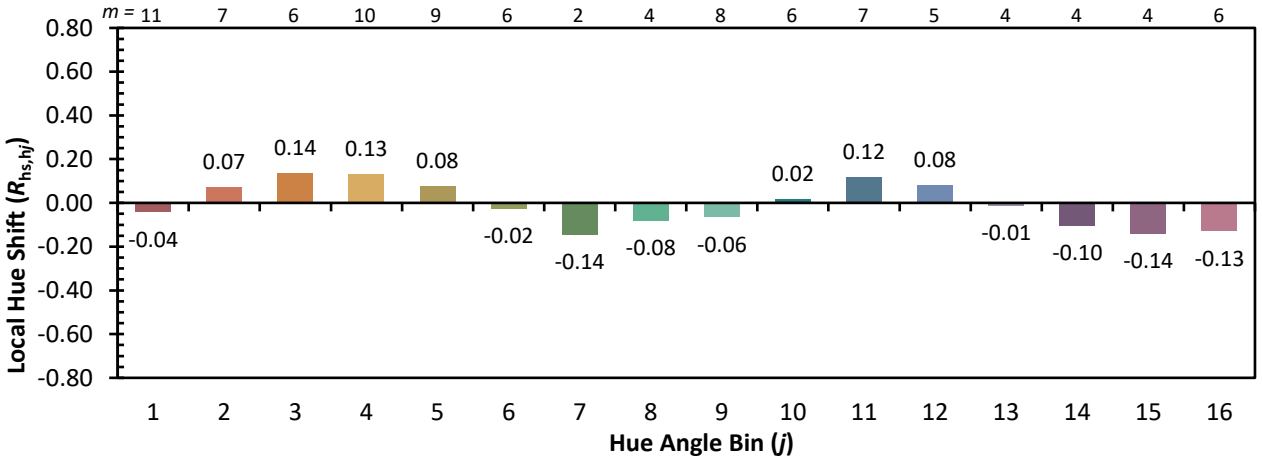
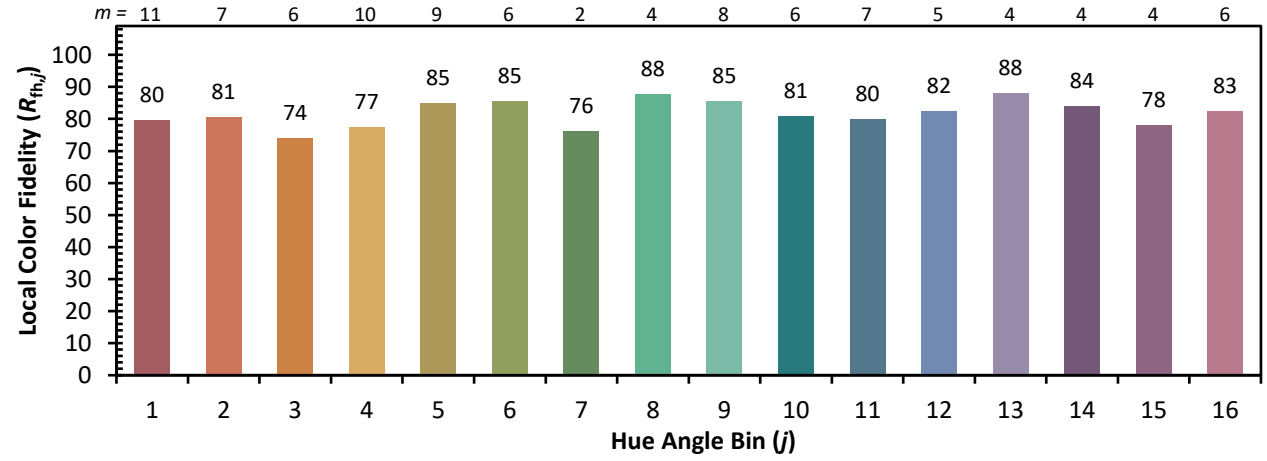
Color Rendition by Hue-Angle Bin







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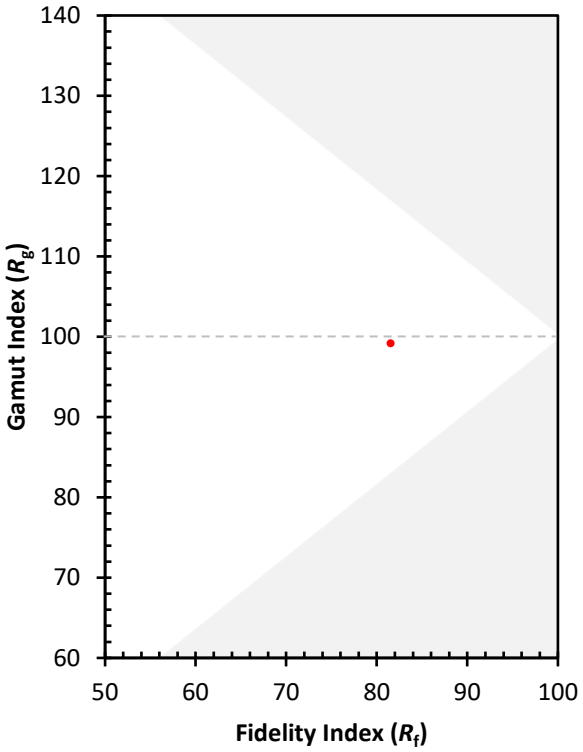
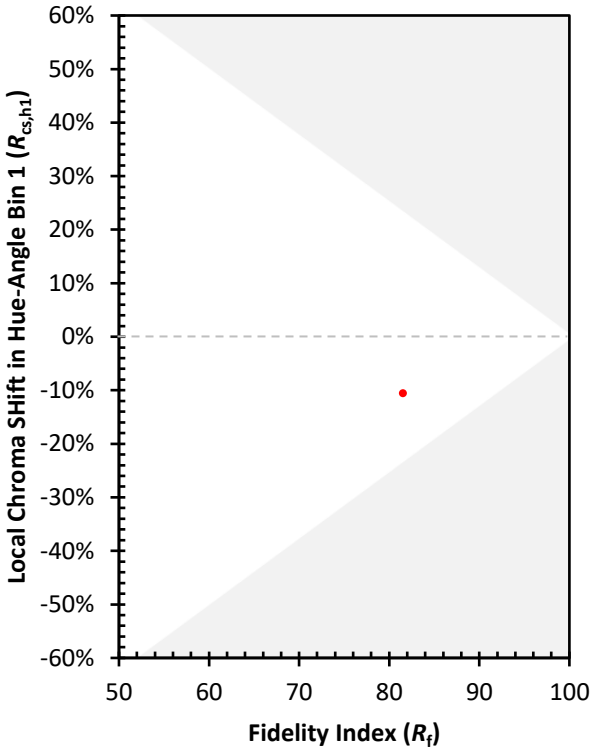
Measure Comparisons





(END OF REPORT)