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: P632561

Luminaire Tested: GWS-SA2C-830-U-T3R-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:	P632561
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
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-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6446 lumens
Efficiency:	N/A
Efficacy:	102.0 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G1

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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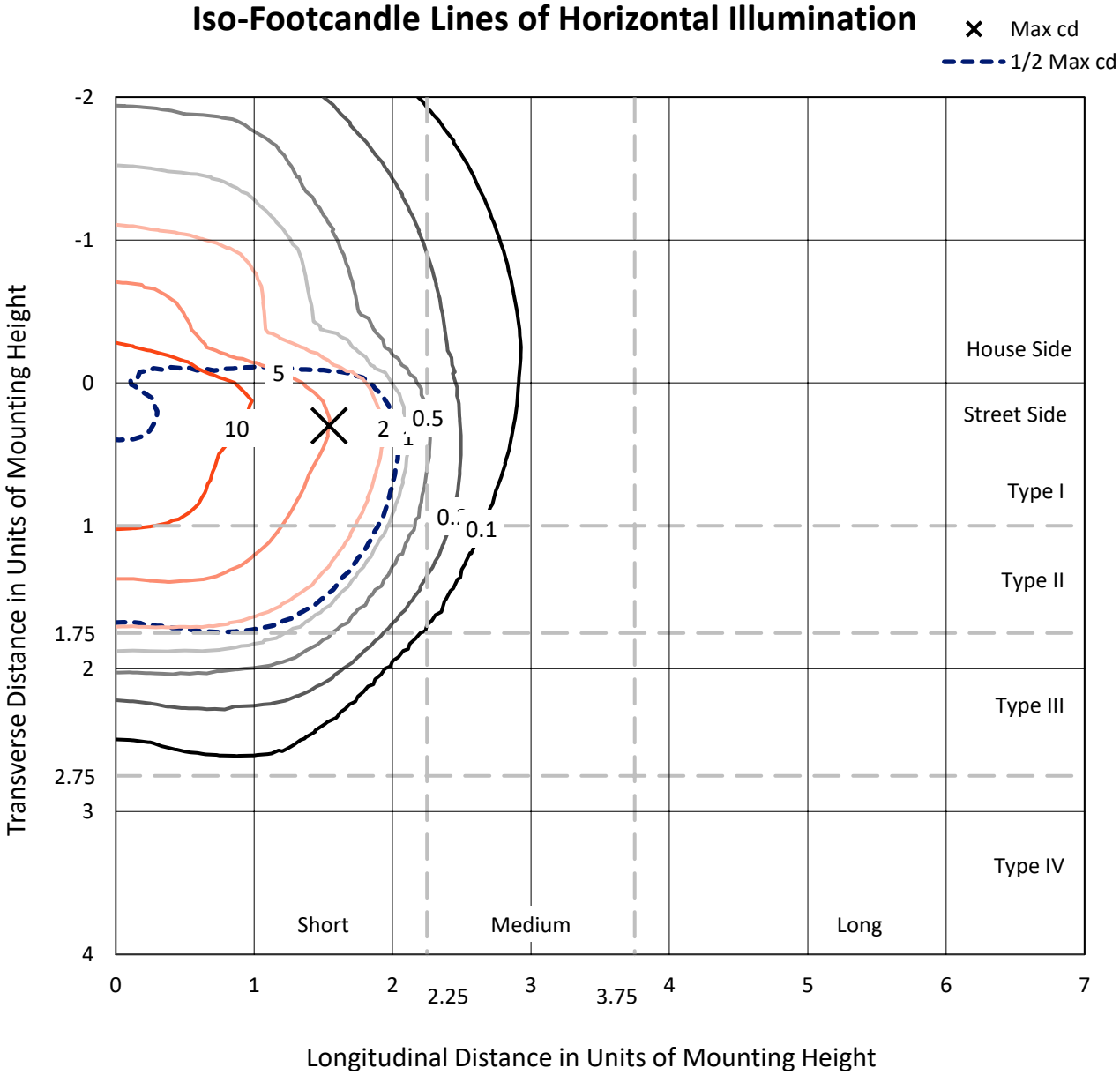
Scaled Data Report

REPORT NUMBER: P632561
CATALOG NUMBER: GWS-SA2C-830-U-T3R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 16.1 fc
Type II - Short - N/A

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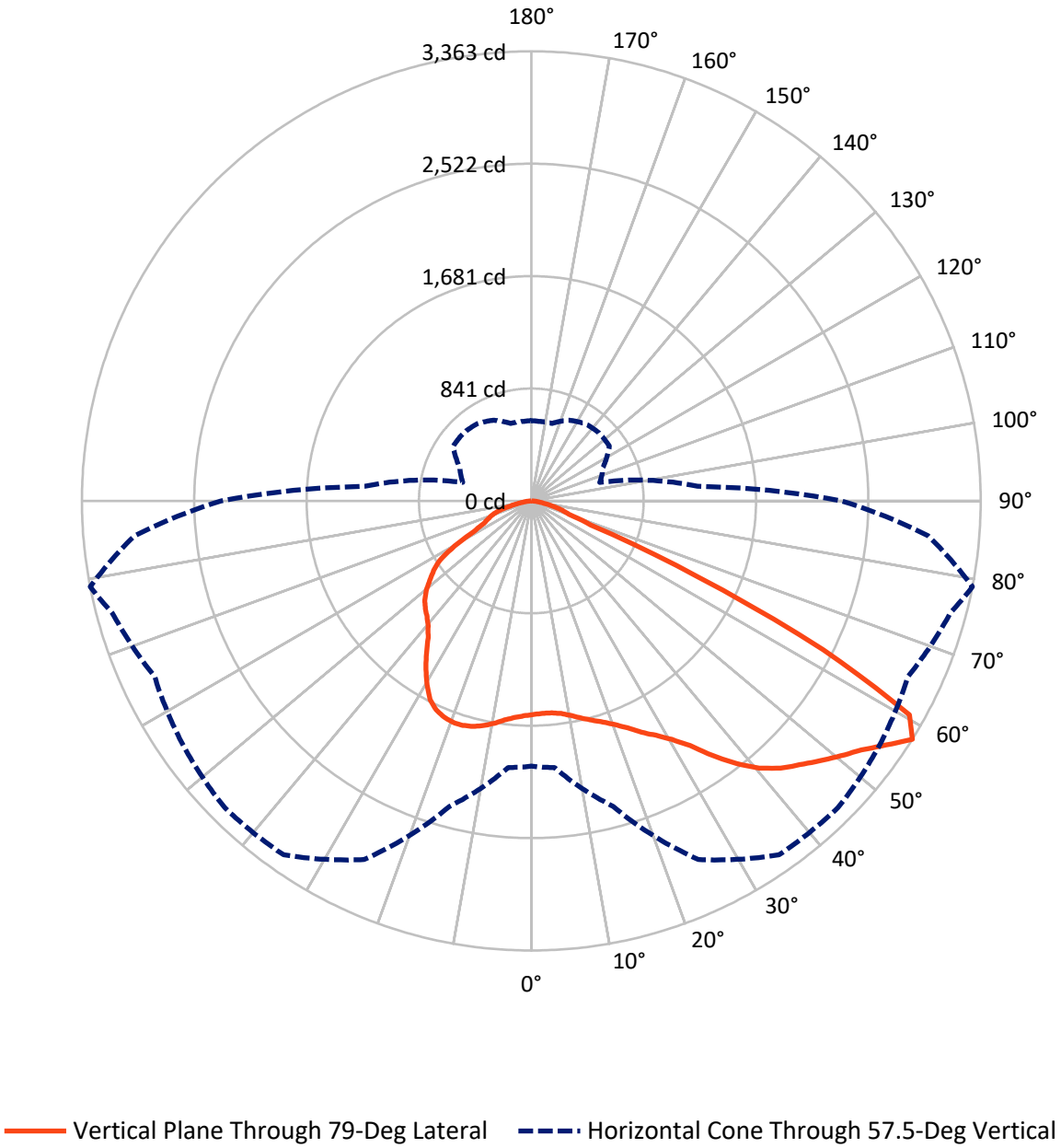
Luminous Intensity Polar Plot



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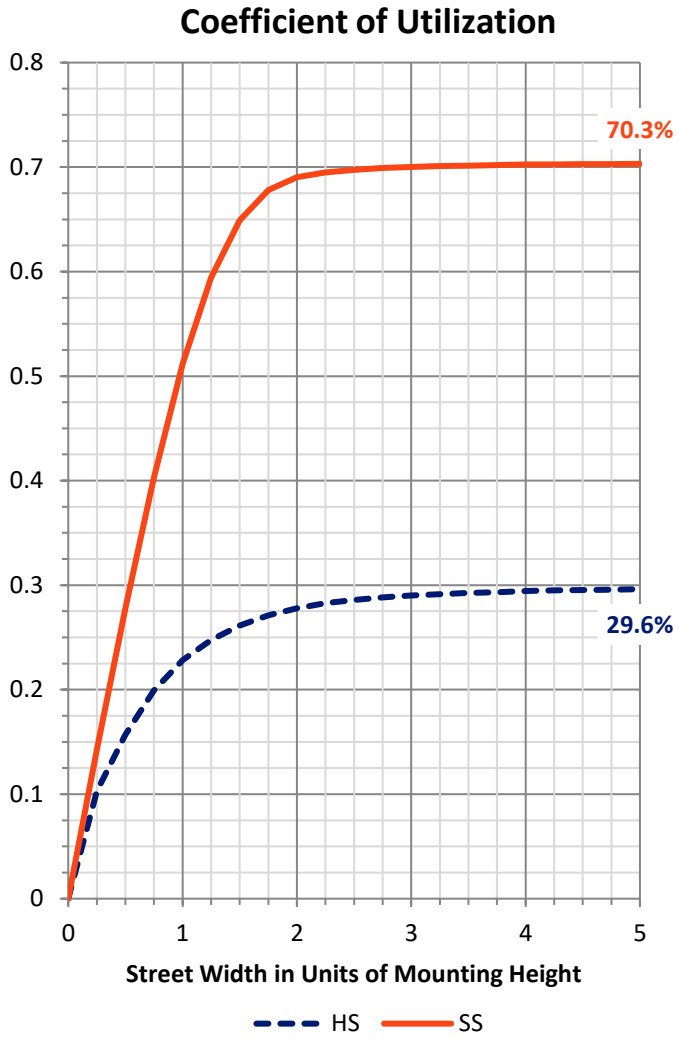
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1916.1	0.0	1916.1
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	4529.9	0.0	4529.9
	% Fixture	70.3	0.0	70.3
Total	Lumens	6446.0	0.0	6446.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.9	2.3
10°-20°	411.1	6.4
20°-30°	696.9	10.8
30°-40°	1066.7	16.5
40°-50°	1422.3	22.1
50°-60°	1642.6	25.5
60°-70°	853.6	13.2
70°-80°	181.4	2.8
80°-90°	23.5	0.4
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°	6446.0	100.0
0°-180°	6446.0	100.0



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REPORT NUMBER: P632561
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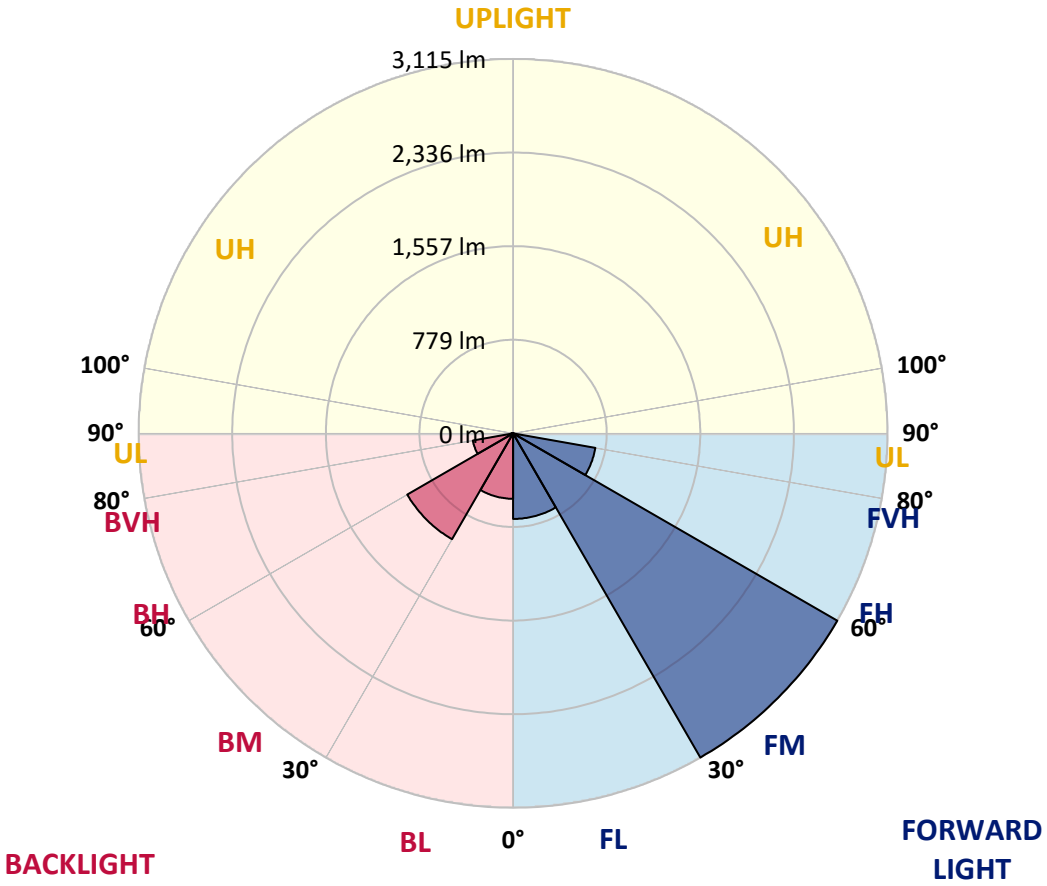
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	711.8	11.0			
FM	(30°-60°)	3114.9	48.3			
FH	(60°-80°)	695.0	10.8			G1/1800
FVH	(80°-90°)	8.2	0.1			G0/10
BL	(0°-30°)	544.2	8.4	B2/1000		
BM	(30°-60°)	1016.7	15.8	B2/2500		
BH	(60°-80°)	340.0	5.3	B1/500		G1/500
BVH	(80°-90°)	15.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
Type II Short



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REPORT NUMBER: P632561
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1597.5	1597.5	1597.5	1597.5	1597.5	1597.5	1597.5	1597.5	1597.5	*1597.5*	1597.5
2.5°	1524.7	1521.6	1522.6	1526.8	1542.7	1554.3	1566.4	1577.4	1588.0	*1591.1*	1593.8
5°	1470.5	1464.7	1466.2	1473.1	1491.5	1511.0	1532.6	1559.0	1584.3	*1592.7*	1603.8
7.5°	1432.0	1430.9	1433.6	1444.1	1463.6	1482.0	1510.0	1547.4	1591.1	*1605.4*	1624.9
10°	1380.9	1378.7	1389.3	1410.9	1443.0	1472.6	1505.8	1550.0	1611.2	*1632.3*	1662.3
12.5°	1340.3	1339.2	1350.3	1380.3	1421.4	1468.3	1514.2	1563.7	1638.1	*1667.0*	1703.9
15°	1364.0	1359.2	1359.8	1380.9	1417.7	1473.1	1535.3	1588.5	1664.9	*1701.8*	1749.3
17.5°	1433.0	1424.6	1418.3	1422.0	1443.0	1500.5	1567.4	1621.7	1696.0	*1739.2*	1797.2
20°	1528.4	1523.7	1506.3	1494.7	1499.4	1550.0	1618.0	1668.6	1736.6	*1785.1*	1847.3
22.5°	1656.5	1644.9	1621.2	1602.7	1588.5	1628.0	1690.8	1734.5	1793.0	*1843.6*	1908.4
25°	1815.1	1798.3	1760.9	1731.9	1701.3	1741.9	1797.7	1830.9	1870.5	*1917.4*	1979.0
27.5°	1976.9	1962.7	1921.1	1882.1	1844.1	1869.4	1935.8	1954.8	1950.6	*1984.8*	2037.5
30°	2149.3	2131.4	2091.8	2049.7	2000.7	2017.0	2076.6	2086.0	2041.2	*2069.7*	2105.5
32.5°	2331.1	2313.7	2279.5	2230.4	2175.1	2181.4	2197.8	2206.7	2164.0	*2180.4*	2207.8
35°	2516.1	2499.8	2465.0	2416.5	2375.9	2337.4	2296.3	2332.2	2307.4	*2339.0*	2336.9
37.5°	2685.3	2668.9	2647.3	2609.9	2540.3	2464.5	2369.6	2413.9	2452.3	*2492.4*	2485.5
40°	2799.7	2788.6	2793.9	2788.1	2698.5	2548.3	2405.4	2453.9	2558.8	*2627.3*	2623.6
42.5°	2898.2	2887.1	2917.7	2939.8	2834.4	2625.7	2422.8	2469.2	2626.8	*2733.8*	2728.5
45°	2942.0	2938.8	2989.4	3059.5	2958.8	2707.9	2467.6	2500.8	2678.4	*2815.5*	2795.4
47.5°	2889.8	2900.8	3000.5	3119.0	3062.1	2805.5	2559.3	2567.8	2745.9	*2904.0*	2847.6
50°	2786.0	2810.2	2944.6	3120.6	3137.5	2915.6	2686.3	2665.3	2836.5	*2998.3*	2875.0
52.5°	2634.7	2660.0	2879.2	3108.5	3180.7	3043.1	2855.5	2825.5	2950.9	*3092.7*	2879.8
55°	2287.4	2321.6	2729.6	3081.1	3222.9	3159.1	3046.3	2985.2	3098.5	*3222.3*	2926.7
57.5°	*1984.3*	*2002.2*	*2364.8*	*2959.3*	*3231.3*	*3244.5*	*3182.3*	*3109.6*	*3245.0*	*3362.5*	*2979.4*
60°	1456.2	1460.4	1786.7	2448.6	2972.5	3194.9	3171.2	3063.2	3175.4	*3250.3*	2738.0
62.5°	822.7	823.2	1083.6	1634.4	2220.4	2604.1	2618.9	2523.5	2429.1	*2451.3*	1905.8
65°	308.8	337.8	494.9	803.2	1280.2	1537.4	1598.5	1620.7	1463.6	*1366.1*	1021.9
67.5°	206.6	213.5	288.8	413.2	569.7	657.7	735.8	737.9	539.7	*481.2*	402.7
70°	157.6	164.4	227.2	295.7	288.8	266.7	288.3	280.4	289.9	*297.8*	306.2
72.5°	117.5	124.4	176.0	208.7	173.4	170.8	193.4	215.0	235.1	*243.5*	256.7
75°	78.0	83.3	118.6	111.7	95.9	113.3	141.2	162.9	174.5	*184.5*	194.5
77.5°	49.5	53.2	63.2	51.1	53.2	66.4	82.2	101.7	112.8	*122.8*	128.1
80°	22.7	22.1	21.6	24.2	30.0	39.0	49.5	61.1	69.6	*73.8*	76.9
82.5°	9.0	10.0	11.1	13.2	16.3	21.1	27.9	35.8	42.7	*43.7*	46.4
85°	3.7	4.2	4.7	5.8	7.4	9.5	11.6	16.3	20.6	*22.1*	23.7
87.5°	0.0	0.0	0.0	0.0	0.5	1.1	1.6	2.6	4.7	*5.3*	5.8
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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Scaled Data Report

REPORT NUMBER: P632561
CATALOG NUMBER: GWS-SA2C-830-U-T3R-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1597.5	1597.5	1597.5	1597.5	1597.5	1597.5	1597.5	1597.5	1597.5	1597.5	1597.5
2.5°	1608.0	1601.2	1612.8	1620.7	1628.0	1620.1	1617.5	1610.6	1609.6	1609.6	1613.3
5°	1622.8	1618.0	1630.1	1634.9	1634.4	1617.0	1606.4	1592.7	1585.9	1585.9	1586.9
7.5°	1649.1	1646.5	1653.3	1646.0	1629.1	1593.8	1559.0	1530.0	1510.5	1500.5	1503.7
10°	1692.9	1689.7	1683.9	1656.5	1608.0	1534.7	1463.6	1410.9	1379.3	1361.4	1362.4
12.5°	1735.6	1730.3	1709.7	1649.1	1549.5	1433.0	1339.7	1280.7	1245.9	1224.8	1220.1
15°	1782.5	1768.8	1724.5	1611.2	1454.1	1308.6	1211.1	1147.4	1110.0	1097.3	1096.8
17.5°	1827.3	1803.0	1722.9	1543.7	1339.7	1178.5	1080.4	1040.9	1034.6	1040.4	1042.0
20°	1872.6	1833.6	1705.5	1450.4	1203.8	1048.8	998.2	1014.6	1038.3	1054.1	1057.8
22.5°	1919.5	1858.9	1666.0	1330.3	1060.4	961.3	982.4	1018.2	1047.8	1068.8	1071.0
25°	1972.2	1882.6	1607.0	1183.2	945.5	937.1	978.7	1016.7	1048.3	1072.5	1076.7
27.5°	2002.2	1883.1	1524.2	1032.0	892.8	927.6	969.8	1005.6	1037.2	1063.6	1068.3
30°	2031.8	1868.9	1393.0	909.1	877.5	916.5	954.5	987.7	1017.7	1043.5	1049.3
32.5°	2073.4	1855.7	1241.7	838.5	868.6	906.0	937.1	966.6	989.8	1001.4	1004.5
35°	2125.0	1838.9	1081.0	808.0	862.8	897.6	925.0	940.8	910.7	904.4	911.3
37.5°	2197.2	1823.0	920.7	794.8	859.1	894.4	918.6	878.1	841.2	826.4	831.7
40°	2275.2	1814.1	812.2	784.2	860.7	897.6	892.3	832.2	779.0	747.9	746.8
42.5°	2341.7	1800.4	742.6	777.4	864.9	909.7	856.4	791.6	712.6	694.1	694.6
45°	2386.5	1765.6	705.7	770.0	868.6	912.3	839.6	735.8	679.4	667.8	667.2
47.5°	2404.9	1702.3	682.0	758.4	868.0	890.7	805.3	712.6	656.2	653.0	655.1
50°	2392.8	1598.5	657.7	735.8	855.4	868.0	765.8	692.0	640.4	657.7	670.4
52.5°	2348.0	1464.1	628.8	704.7	832.7	842.2	745.8	679.4	628.8	652.0	662.0
55°	2336.4	1355.0	591.9	664.1	799.0	796.4	724.7	673.0	620.9	611.9	613.5
57.5°	*2321.1*	*1248.6*	*530.7*	*591.3*	*713.6*	*717.8*	*704.7*	*665.7*	*600.3*	*597.7*	*600.3*
60°	2016.5	957.1	473.3	510.2	586.1	608.7	682.0	652.0	567.1	556.0	555.5
62.5°	1317.1	579.7	421.1	444.8	477.5	503.9	621.9	612.4	530.7	523.9	528.6
65°	708.3	413.2	383.2	397.4	415.3	435.3	515.4	545.5	479.6	455.4	455.9
67.5°	362.1	351.5	354.7	364.7	378.4	388.4	415.8	442.2	409.0	388.4	387.9
70°	309.9	318.3	323.1	328.9	337.8	336.3	338.9	343.6	341.0	331.0	330.5
72.5°	264.0	277.2	278.3	279.3	282.5	275.1	270.4	262.5	263.0	264.6	265.1
75°	200.8	213.5	216.6	215.0	218.2	208.7	202.4	194.5	185.0	183.4	184.5
77.5°	130.7	140.7	145.5	144.4	146.0	138.6	135.5	127.0	115.9	111.7	111.7
80°	79.1	84.9	88.5	89.6	91.2	85.9	80.6	73.3	68.5	63.8	63.8
82.5°	48.0	51.7	54.3	54.3	55.9	50.1	45.9	40.6	38.5	34.3	34.3
85°	24.2	26.9	27.9	27.4	26.4	21.6	20.0	17.4	16.3	14.2	14.2
87.5°	5.8	7.4	7.4	5.3	5.3	2.6	1.6	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

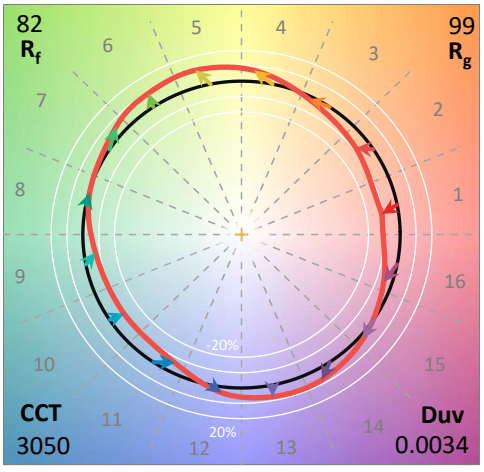
Test Information

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

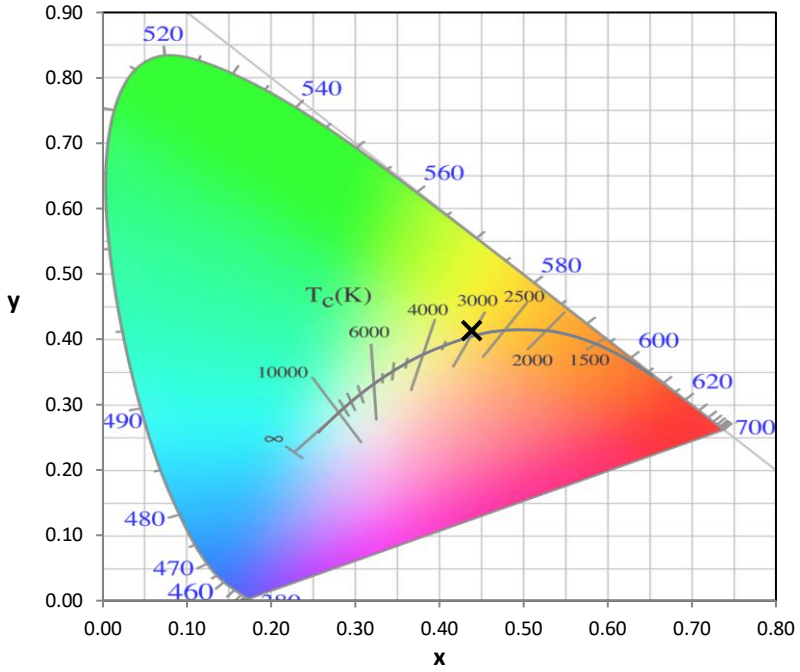
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

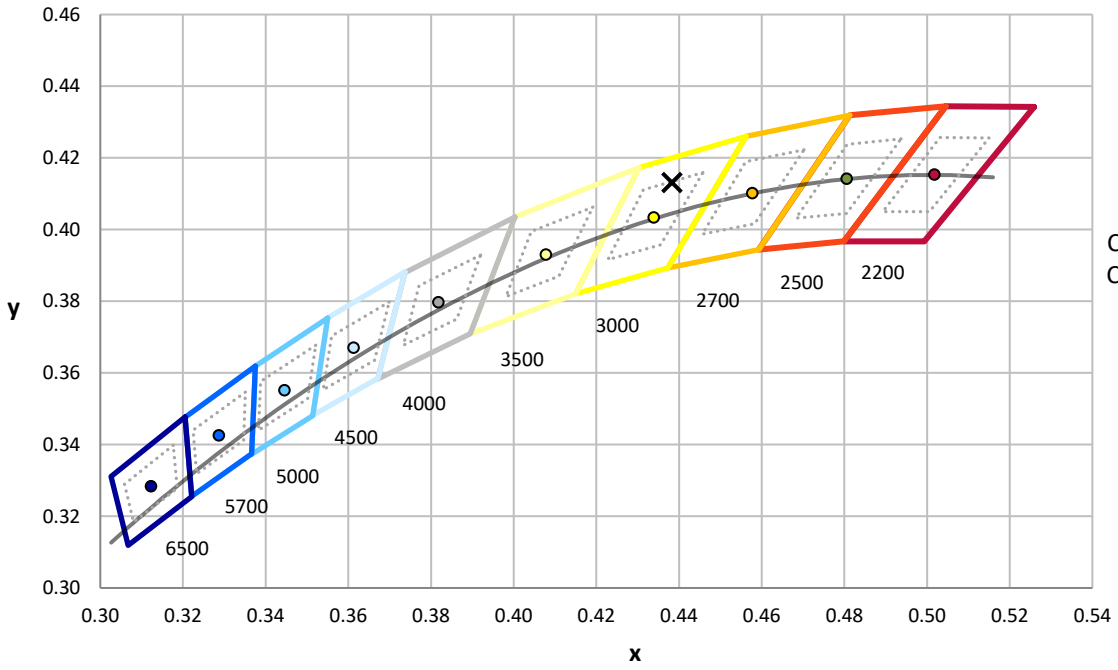
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

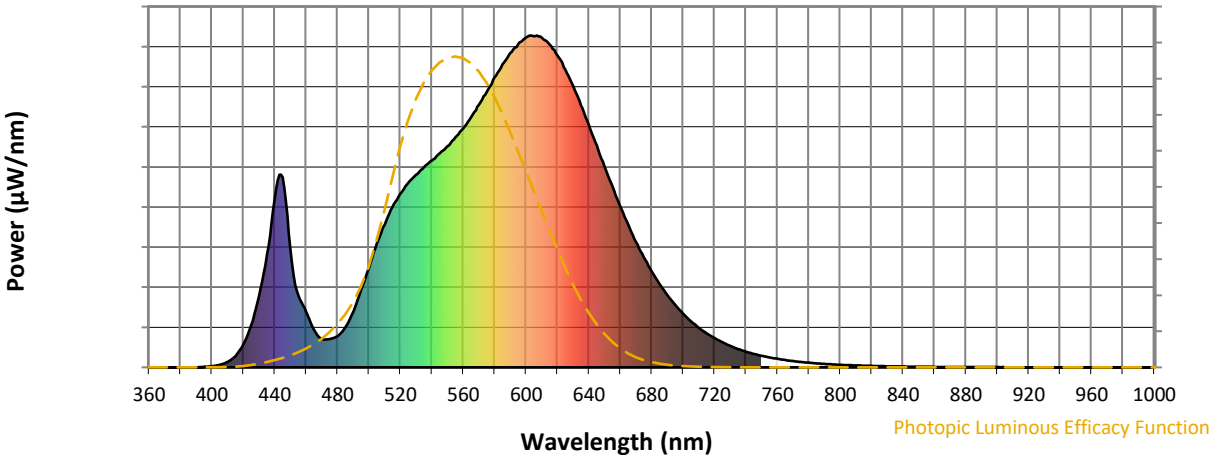


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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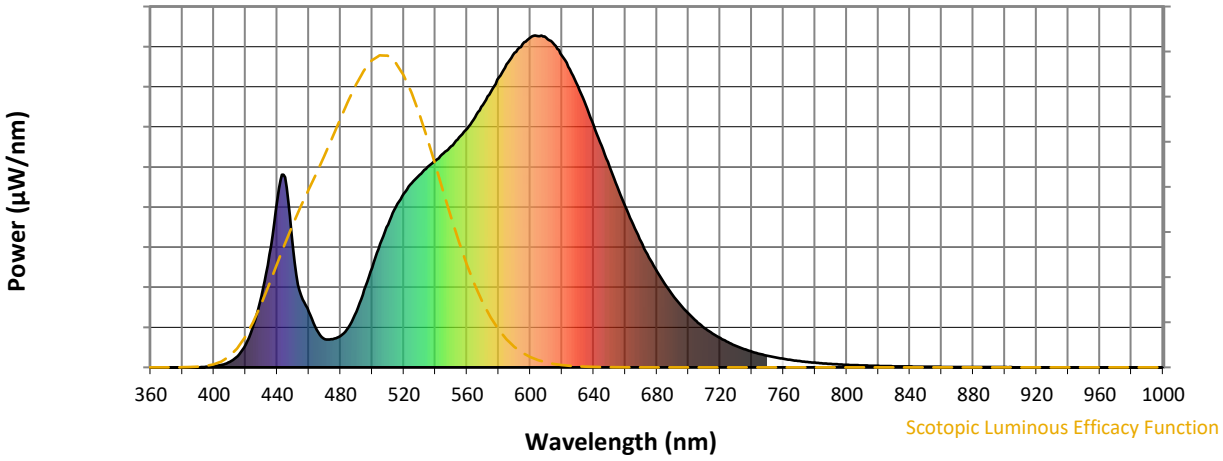
Scotopic Flux vs. Wavelength



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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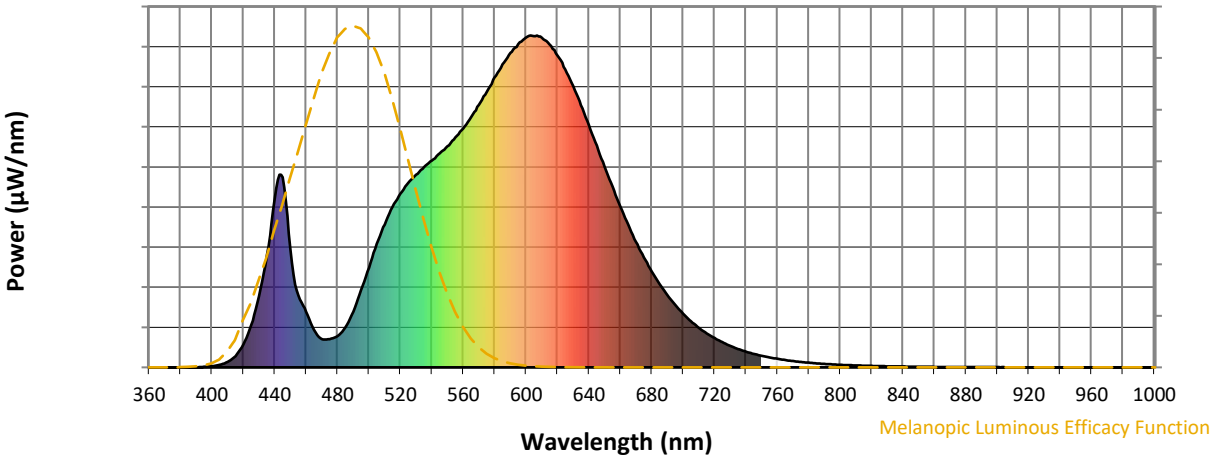
Melanopic Flux vs. Wavelength



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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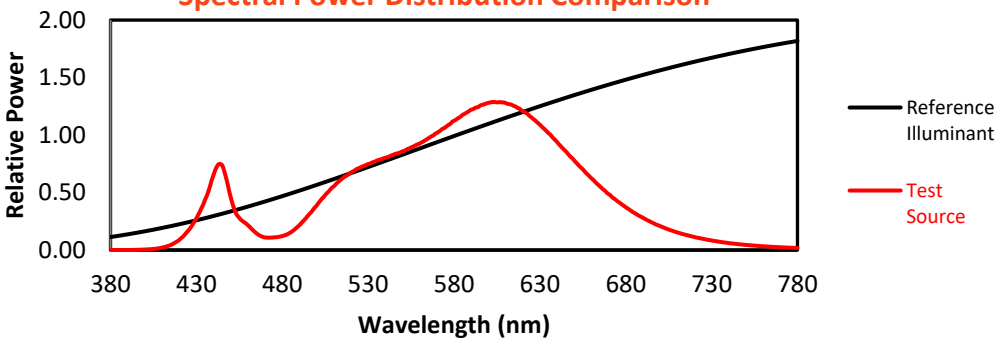
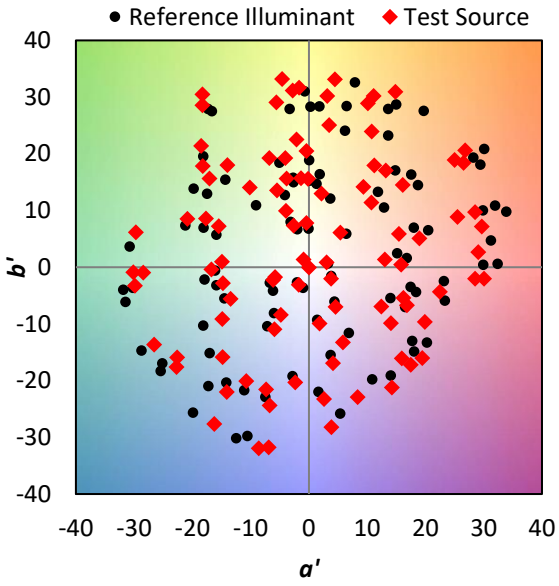
Summary

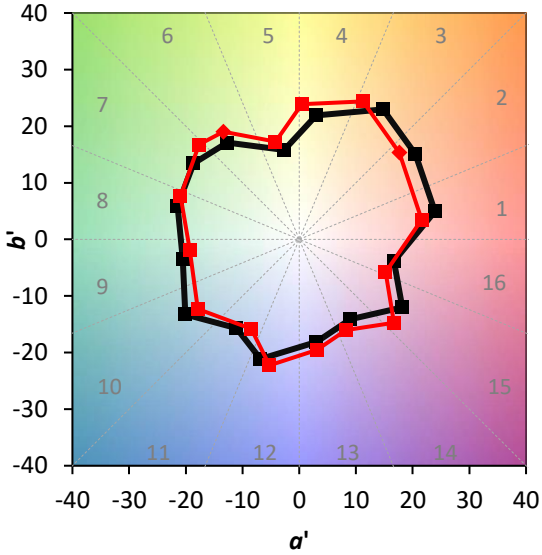
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

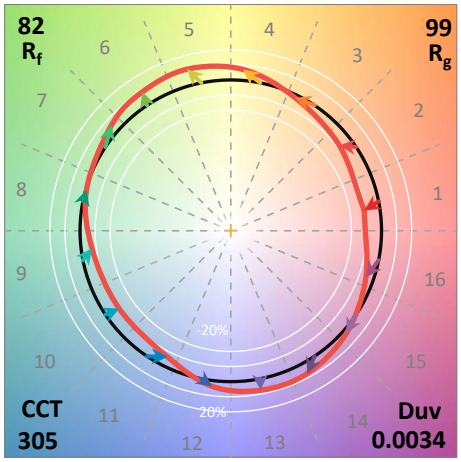
Spectral Power Distribution Comparison

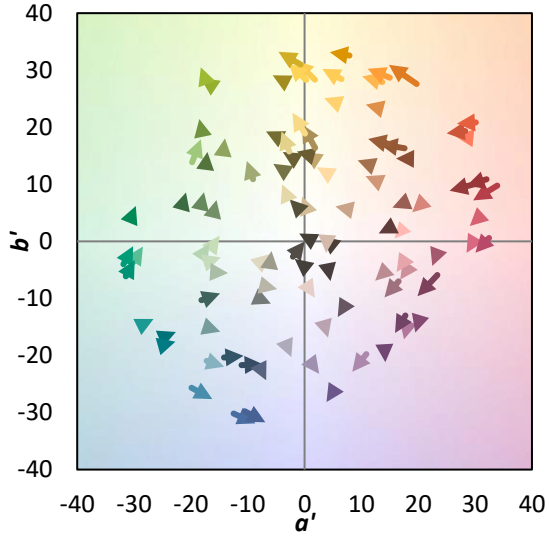


Color Vector Graphics









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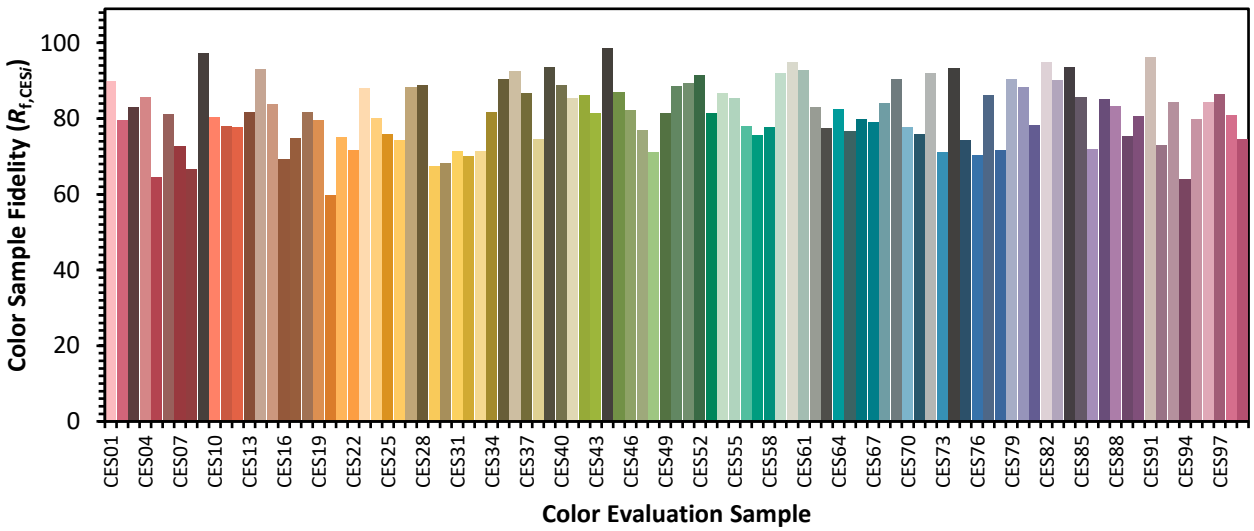
Individual Sample Fidelity Index ($R_{f,i}$)

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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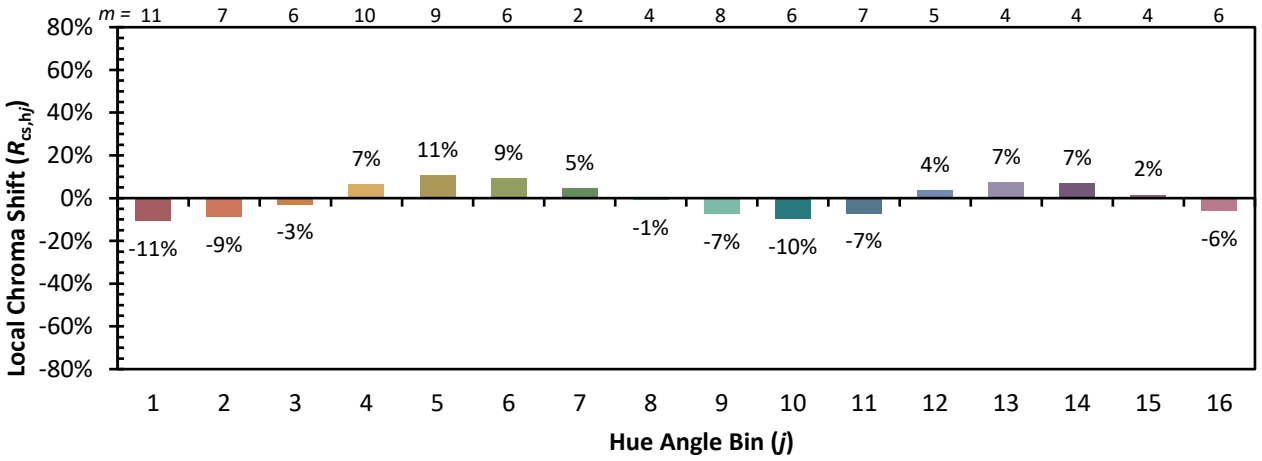
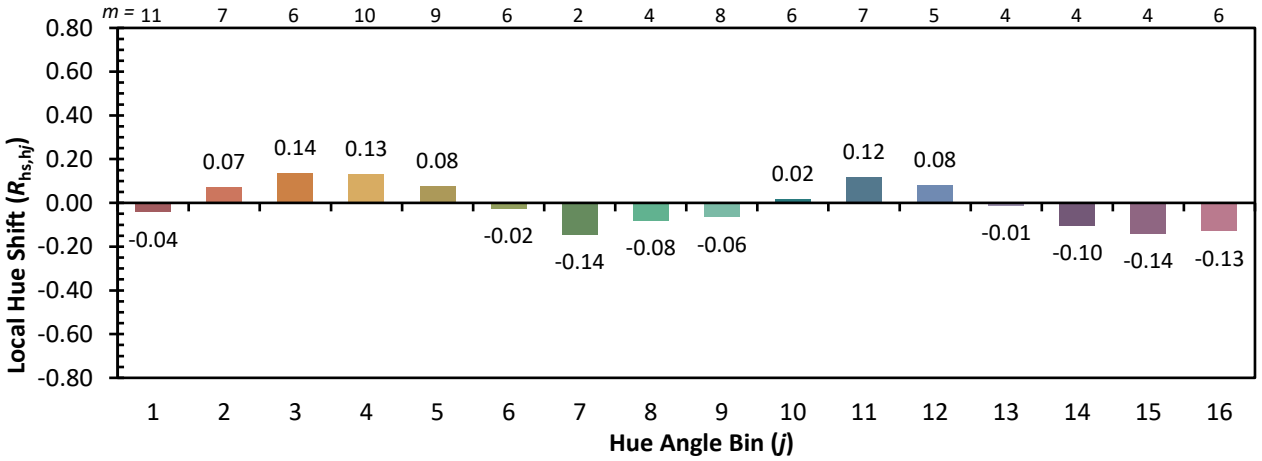
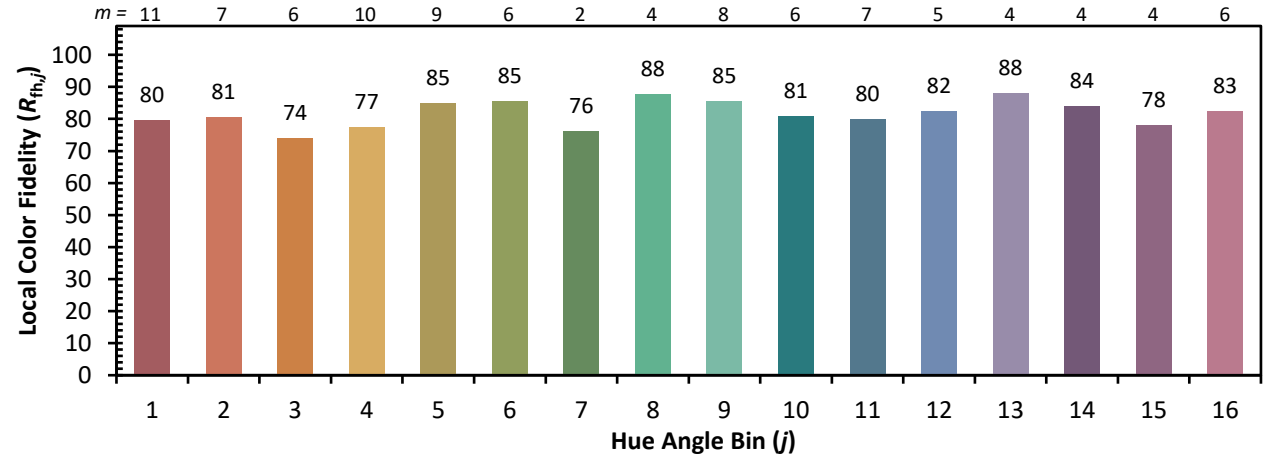
Color Rendition by Hue-Angle Bin







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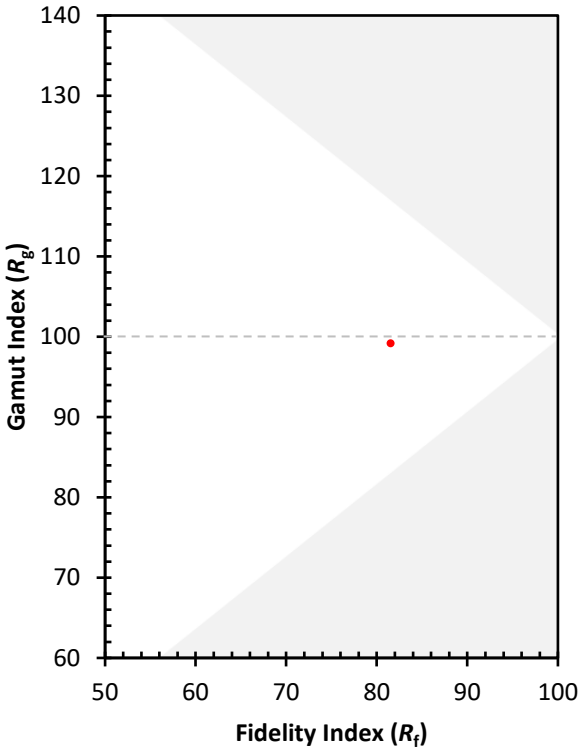
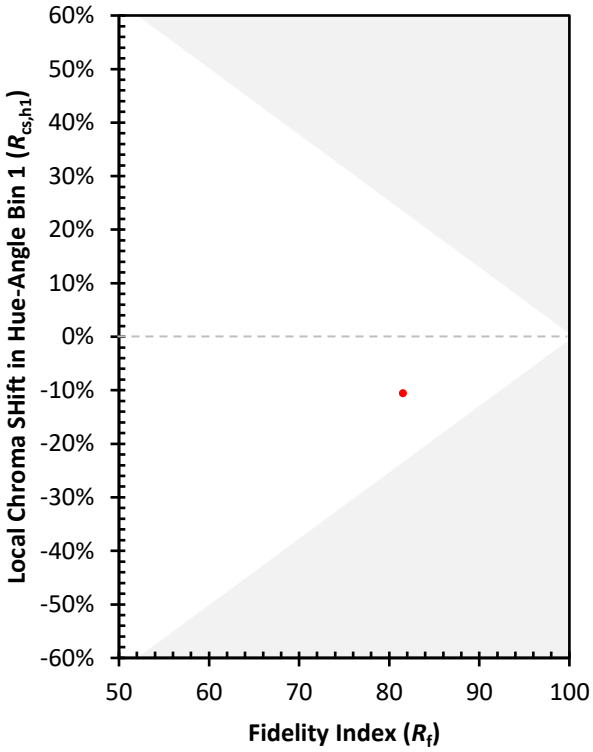
Measure Comparisons





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