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: P634047

Luminaire Tested: GWS-SA2F-830-U-T3R-W-HSS

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:	P634047
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2F-830-U-T3R-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	10088.3 lumens
Efficiency:	N/A
Efficacy:	81.0 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B1 - U0 - G2

Input Watts (W):	124.5
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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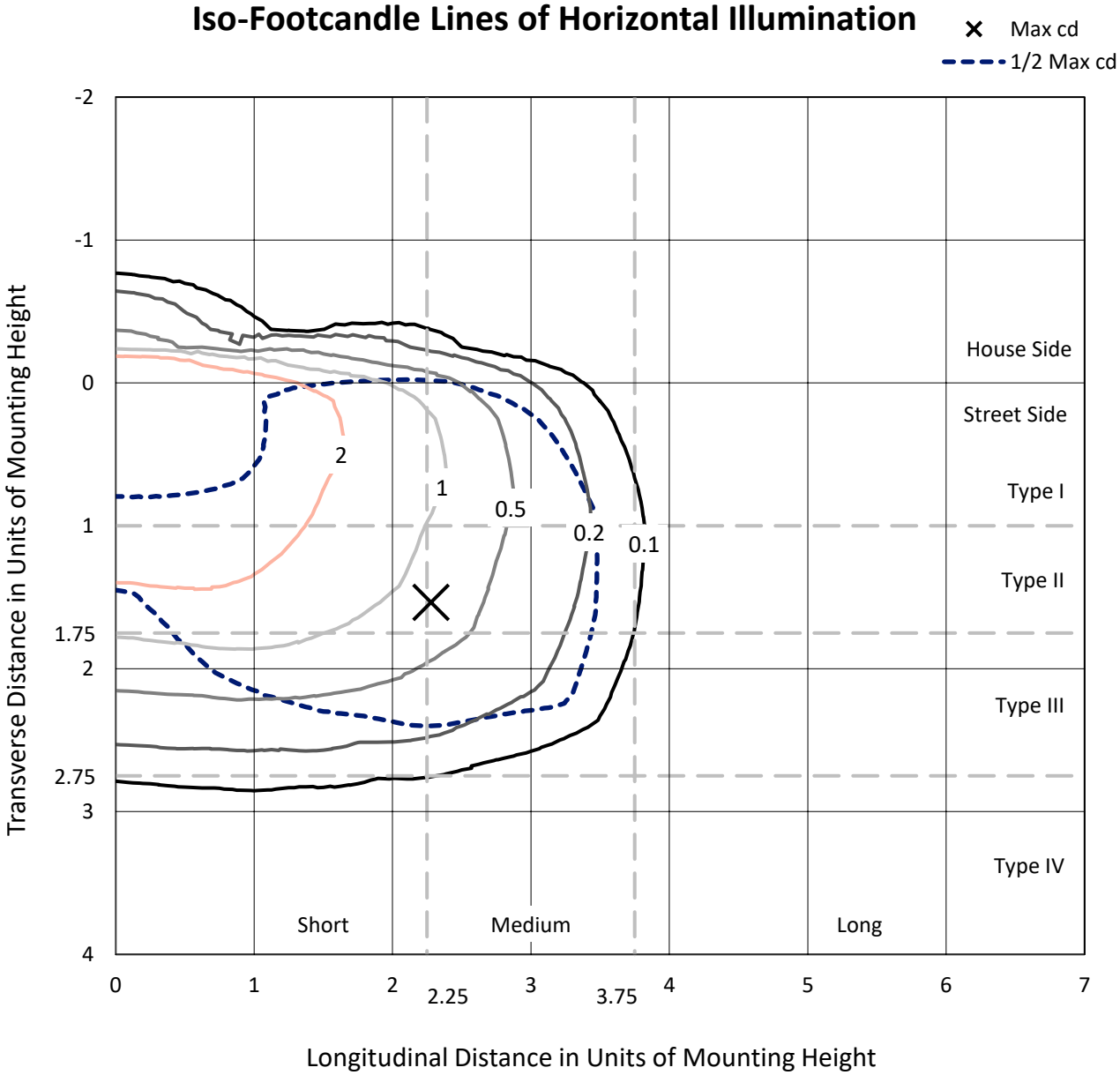
REPORT NUMBER: P634047
CATALOG NUMBER: GWS-SA2F-830-U-T3R-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 4.8 fc
Type III - Medium - N/A

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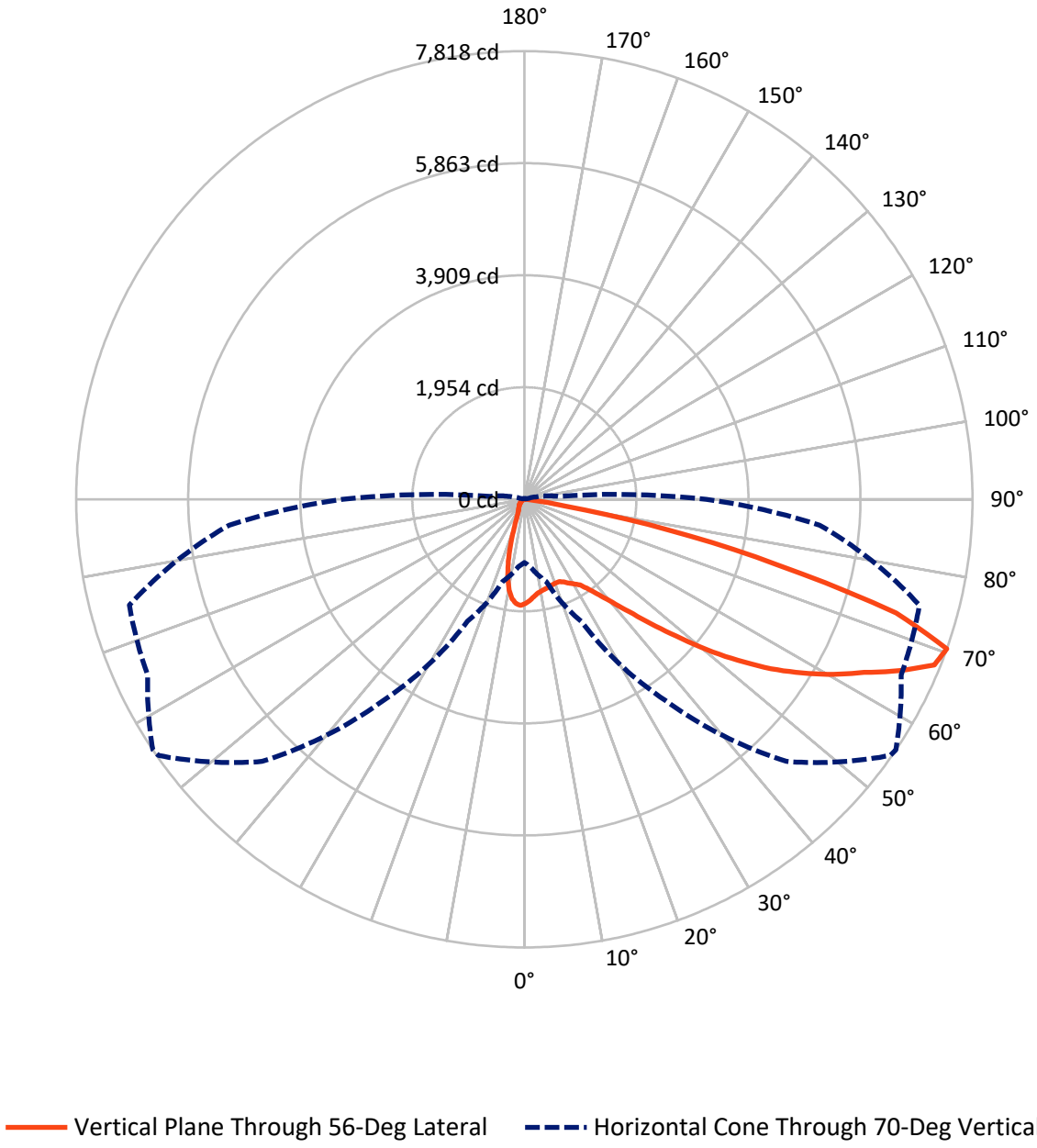
Luminous Intensity Polar Plot



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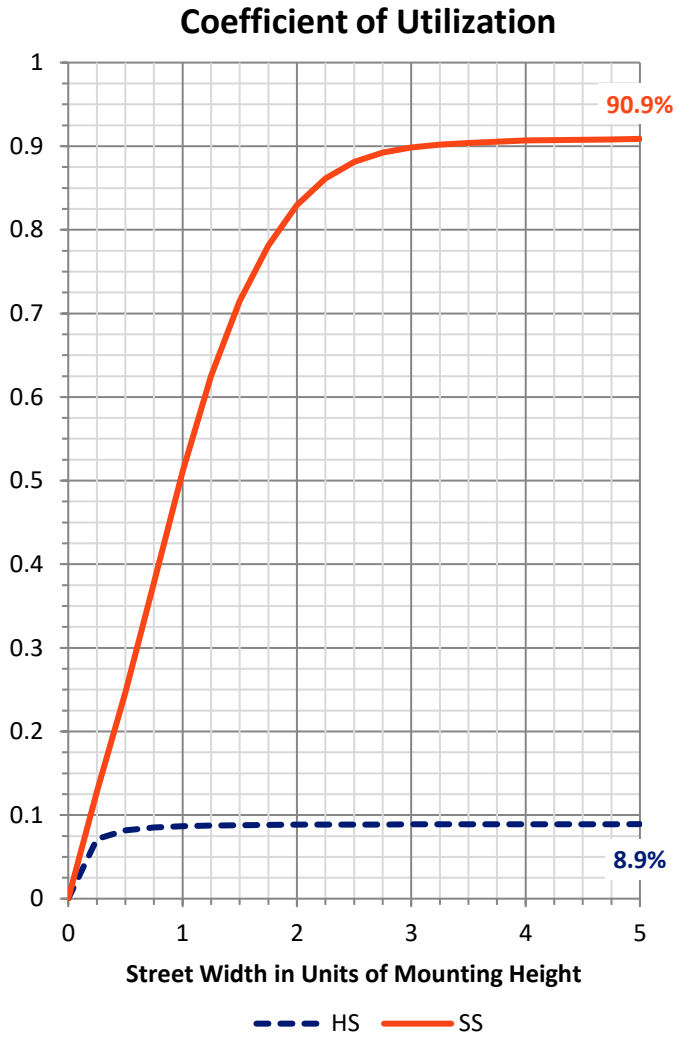
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	906.1	0.0	906.1
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	9182.2	0.0	9182.2
	% Fixture	91.0	0.0	91.0
Total	Lumens	10088.3	0.0	10088.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.2	1.5
10°-20°	351.3	3.5
20°-30°	556.4	5.5
30°-40°	959.5	9.5
40°-50°	1620.3	16.1
50°-60°	2380.7	23.6
60°-70°	2822.5	28.0
70°-80°	1203.6	11.9
80°-90°	37.8	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°	10088.3	100.0
0°-180°	10088.3	100.0



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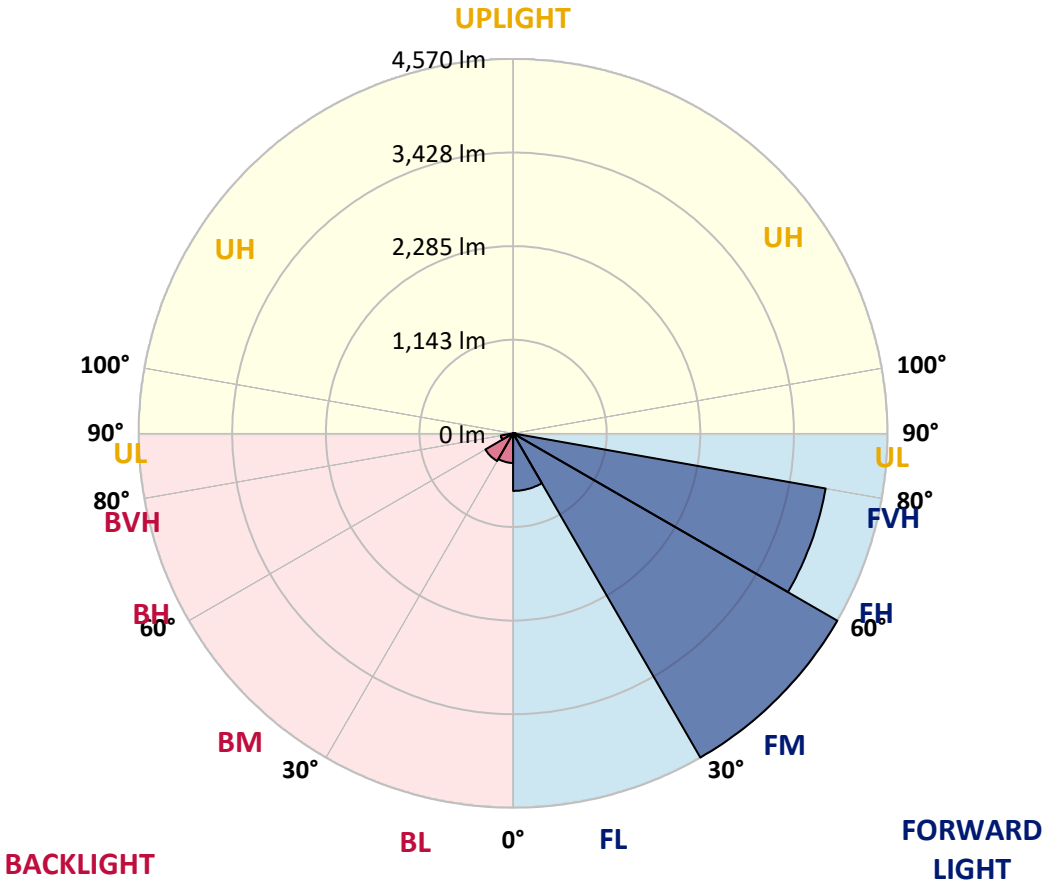
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	703.0	7.0			
FM	(30°-60°)	4570.3	45.3			
FH	(60°-80°)	3875.0	38.4			G2/5000
FVH	(80°-90°)	34.0	0.3			G1/100
BL	(0°-30°)	360.9	3.6	B1/500		
BM	(30°-60°)	390.3	3.9	B1/1000		
BH	(60°-80°)	151.1	1.5	B1/500		G1/500
BVH	(80°-90°)	3.8	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-G2
Type III Medium



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REPORT NUMBER: P634047
CATALOG NUMBER: GWS-SA2F-830-U-T3R-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0
2.5°	1693.4	1690.6	1692.5	1706.3	1732.2	1744.2	1764.5	1768.2	1784.8	1806.1	1814.4
5°	1583.4	1574.2	1578.8	1598.2	1627.8	1661.0	1698.9	1709.1	1750.7	1797.8	1832.9
7.5°	1482.7	1472.6	1483.7	1514.2	1555.7	1591.8	1648.1	1654.6	1721.1	1804.2	1868.0
10°	1324.8	1327.5	1349.7	1403.3	1467.0	1541.9	1617.6	1626.9	1709.1	1825.5	1924.3
12.5°	1203.8	1197.3	1221.3	1282.3	1371.9	1480.9	1594.5	1606.5	1710.0	1857.8	1996.4
15°	1147.4	1145.5	1155.7	1200.1	1286.9	1415.3	1573.3	1589.0	1722.0	1887.4	2064.8
17.5°	1149.2	1146.5	1145.5	1171.4	1236.1	1366.3	1550.2	1570.5	1732.2	1919.7	2136.8
20°	1229.6	1216.7	1193.6	1181.6	1220.4	1334.9	1534.5	1557.6	1747.0	1953.9	2213.5
22.5°	1397.8	1402.4	1340.5	1275.8	1257.3	1338.6	1532.6	1559.4	1779.3	2007.5	2307.7
25°	1734.0	1726.6	1612.1	1467.0	1366.3	1381.1	1565.0	1597.3	1843.0	2084.2	2396.4
27.5°	2155.3	2161.8	2004.7	1773.8	1563.1	1468.9	1624.1	1656.4	1916.9	2132.2	2455.5
30°	2614.4	2608.0	2439.8	2183.9	1842.1	1614.9	1683.2	1711.9	1953.9	2158.1	2516.5
32.5°	3048.6	3033.9	2867.6	2599.7	2197.8	1844.9	1764.5	1781.1	2002.9	2214.4	2598.7
35°	3419.1	3418.2	3273.1	2987.7	2563.6	2133.1	1904.0	1917.9	2094.3	2304.0	2719.8
37.5°	3801.6	3788.6	3626.0	3365.5	2939.6	2449.1	2117.4	2111.9	2238.4	2436.1	2868.5
40°	4115.7	4107.3	3982.6	3732.3	3330.4	2798.3	2376.1	2359.5	2409.3	2619.1	3075.4
42.5°	4348.5	4349.4	4310.6	4158.2	3744.3	3202.0	2701.3	2675.4	2674.5	2895.3	3348.9
45°	4524.9	4536.9	4595.1	4572.0	4233.0	3672.2	3117.9	3091.1	3045.9	3253.7	3662.1
47.5°	4607.1	4622.8	4798.4	4890.8	4660.7	4138.8	3614.0	3557.7	3469.0	3730.4	4012.2
50°	4598.8	4626.5	4871.4	5152.2	5048.7	4611.8	4154.5	4127.7	3982.6	4234.8	4358.6
52.5°	4410.4	4469.5	4876.0	5311.1	5347.1	5047.8	4713.4	4663.5	4593.3	4761.4	4683.8
55°	3898.6	3970.6	4681.0	5361.9	5579.9	5428.4	5260.3	5219.6	5103.2	5258.4	4967.4
57.5°	3620.5	3682.4	4270.9	5337.0	5777.6	5780.4	5747.1	5713.9	5617.8	5749.9	5300.0
60°	3453.3	3515.2	4051.9	5245.5	5956.9	6151.8	6204.4	6200.7	6062.2	6308.8	5689.9
62.5°	3208.5	3293.5	3823.7	5008.1	6084.3	6517.6	6676.5	6651.6	6497.3	6890.9	6076.0
65°	2714.2	2788.1	3356.3	4616.4	6009.5	6820.6	7188.3	7201.3	7023.0	7438.7	6380.9
67.5°	1903.1	1957.6	2522.1	3794.2	5501.4	6920.4	7712.1	7711.2	7407.3	7719.5	6246.0
70°	1103.1	1177.9	1490.1	2345.6	4280.1	6466.8	7790.7	7817.5	7251.1	7132.9	5168.8
72.5°	426.8	488.7	844.4	1246.2	2232.0	4953.6	6701.5	6780.0	6068.6	5502.3	3597.4
75°	127.5	142.3	397.2	663.3	896.1	2392.7	4536.9	4559.1	4162.8	3432.0	1844.0
77.5°	95.2	105.3	173.7	335.4	314.1	725.2	2347.5	2563.6	2209.8	1225.9	508.1
80°	64.7	76.7	123.8	163.5	116.4	193.1	659.6	724.3	674.4	275.3	127.5
82.5°	28.6	37.0	87.8	82.2	42.5	55.4	203.2	216.2	139.5	83.1	44.3
85°	2.8	3.7	33.3	36.0	15.7	12.9	42.5	42.5	30.5	28.6	18.5
87.5°	0.0	0.0	0.9	1.8	1.8	2.8	3.7	4.6	5.5	7.4	9.2
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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Scaled Data Report

REPORT NUMBER: P634047
CATALOG NUMBER: GWS-SA2F-830-U-T3R-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0
2.5°	1835.7	1824.6	1838.4	1849.5	1852.3	1832.0	1819.9	1802.4	1798.7	1799.6	1795.0
5°	1860.6	1855.1	1865.2	1853.2	1821.8	1762.7	1711.9	1655.5	1625.0	1607.5	1605.6
7.5°	1906.8	1904.0	1892.9	1838.4	1740.5	1609.3	1482.7	1359.0	1282.3	1254.6	1249.9
10°	1975.1	1969.6	1924.3	1795.0	1586.2	1334.0	1121.5	944.2	836.1	804.7	765.9
12.5°	2053.7	2042.6	1943.7	1701.7	1353.4	1004.2	739.1	540.4	447.1	419.4	419.4
15°	2129.4	2105.4	1932.7	1547.4	1067.0	653.1	413.0	312.3	283.6	276.2	276.2
17.5°	2207.0	2160.8	1889.2	1336.8	737.2	386.2	275.3	255.9	252.2	253.1	254.1
20°	2280.0	2208.0	1812.6	1083.7	470.2	269.8	246.7	242.0	240.2	242.0	241.1
22.5°	2359.5	2251.4	1696.2	807.4	305.8	243.0	234.7	231.0	229.1	231.9	231.9
25°	2438.0	2282.8	1541.9	543.2	243.0	226.3	221.7	218.0	216.2	217.1	217.1
27.5°	2478.6	2270.8	1339.6	346.4	218.0	209.7	205.1	200.5	197.7	196.8	197.7
30°	2506.4	2233.8	1092.0	246.7	197.7	187.5	182.9	179.2	171.8	167.2	169.1
32.5°	2549.8	2196.9	823.1	206.9	181.1	165.4	158.0	148.7	138.6	134.0	134.0
35°	2601.5	2146.1	577.4	186.6	163.5	146.9	133.0	117.3	105.3	101.6	101.6
37.5°	2669.9	2098.0	384.3	172.8	148.7	131.2	111.8	93.3	80.4	78.5	77.6
40°	2772.4	2057.4	270.7	162.6	135.8	114.6	91.5	72.1	62.8	60.0	60.0
42.5°	2905.4	2015.8	214.3	152.4	124.7	98.8	73.0	57.3	49.9	48.0	47.1
45°	3069.9	1966.8	186.6	143.2	113.6	82.2	58.2	48.0	42.5	40.6	40.6
47.5°	3248.2	1900.3	173.7	131.2	100.7	66.5	49.0	41.6	38.8	37.9	37.0
50°	3423.7	1810.7	162.6	120.1	85.9	54.5	42.5	37.9	36.0	35.1	35.1
52.5°	3577.1	1706.3	148.7	107.2	70.2	47.1	37.9	35.1	33.3	31.4	30.5
55°	3708.3	1592.7	131.2	92.4	57.3	41.6	35.1	32.3	30.5	28.6	27.7
57.5°	3877.3	1528.0	105.3	74.8	47.1	37.0	32.3	29.6	27.7	24.9	24.9
60°	4064.9	1480.9	78.5	59.1	40.6	34.2	29.6	26.8	24.9	22.2	22.2
62.5°	4215.4	1410.7	61.9	48.0	35.1	30.5	26.8	24.0	22.2	19.4	19.4
65°	4272.7	1265.6	50.8	37.9	28.6	26.8	24.0	22.2	19.4	16.6	16.6
67.5°	4014.0	975.6	42.5	30.5	24.0	23.1	21.2	20.3	16.6	14.8	13.9
70°	*3178.9*	*594.9*	*35.1*	*24.9*	*20.3*	*19.4*	*19.4*	*17.6*	*14.8*	*13.9*	*12.9*
72.5°	2178.4	306.7	28.6	20.3	17.6	17.6	16.6	15.7	13.9	12.9	12.9
75°	1131.7	102.5	22.2	15.7	13.9	14.8	14.8	13.9	12.9	12.9	12.0
77.5°	324.3	46.2	16.6	12.0	11.1	11.1	12.0	12.0	12.0	11.1	11.1
80°	84.1	26.8	12.0	9.2	9.2	9.2	9.2	10.2	11.1	10.2	10.2
82.5°	34.2	14.8	8.3	7.4	7.4	7.4	7.4	8.3	9.2	9.2	9.2
85°	21.2	7.4	6.5	6.5	6.5	5.5	5.5	6.5	6.5	7.4	7.4
87.5°	12.9	5.5	5.5	5.5	5.5	4.6	4.6	4.6	4.6	4.6	4.6
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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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

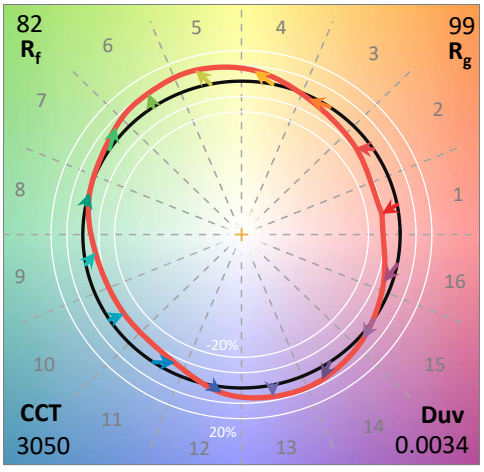
Test Information

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

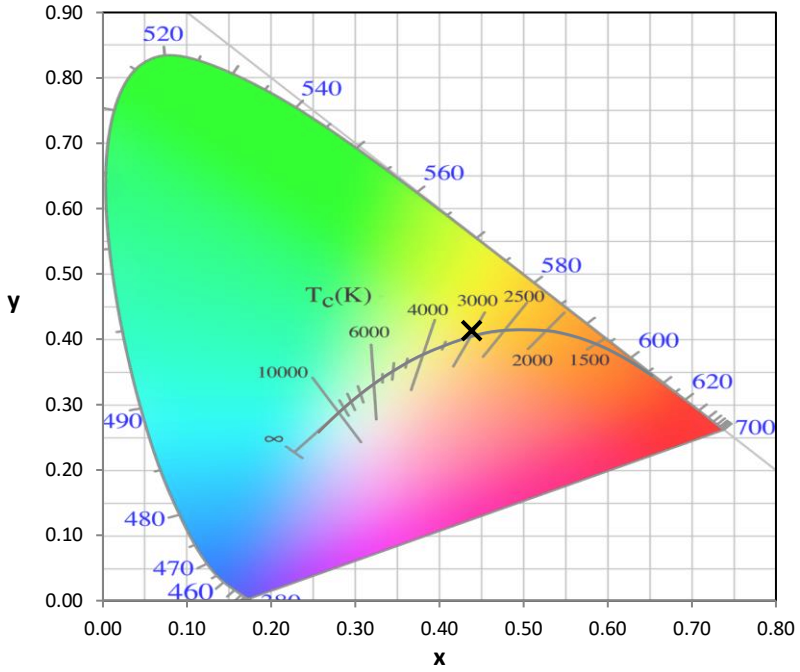
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

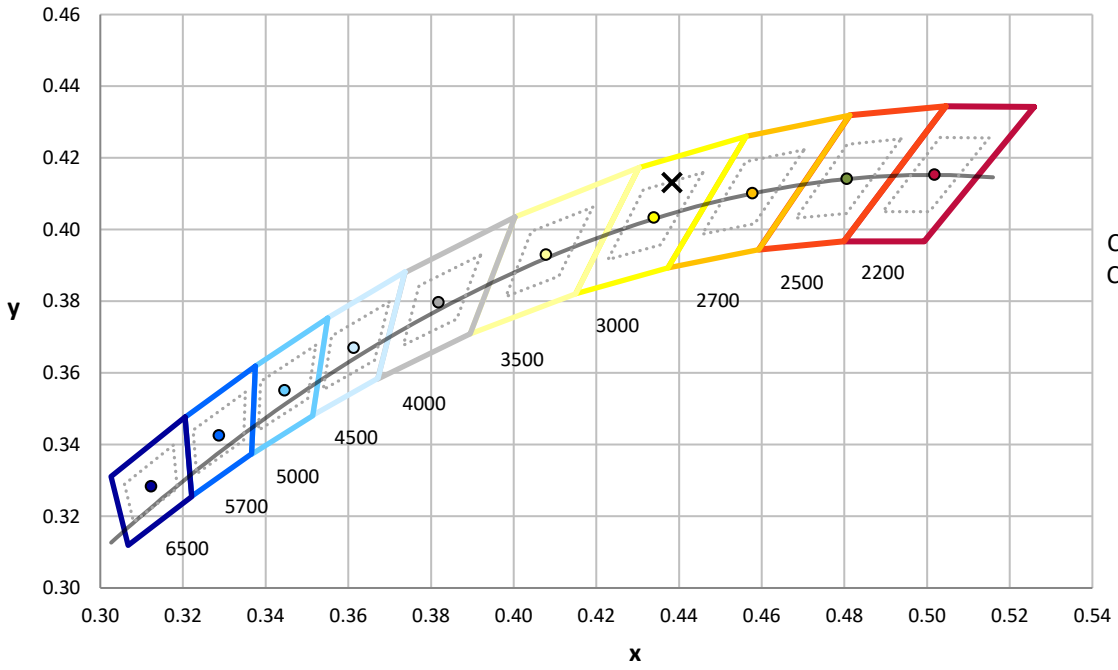
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

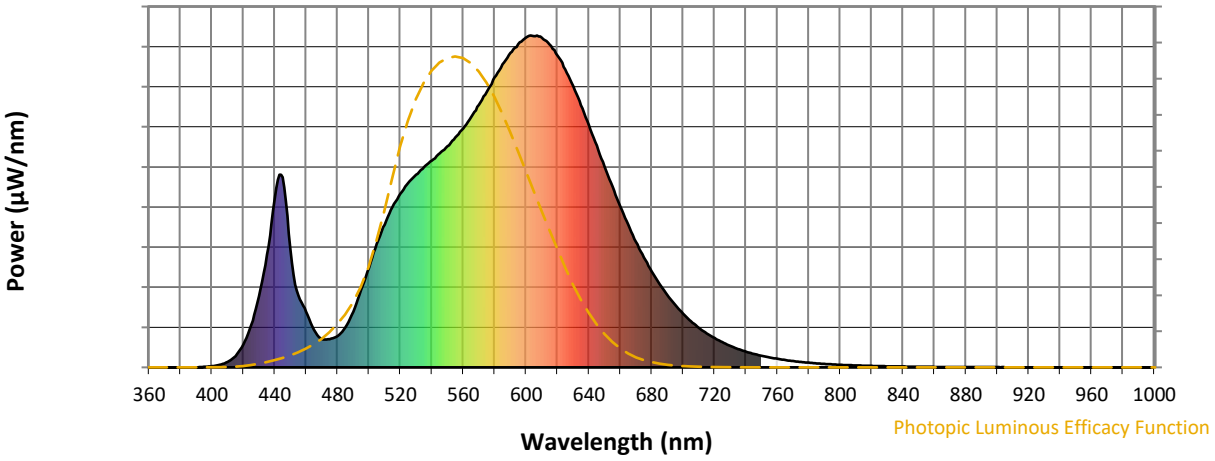


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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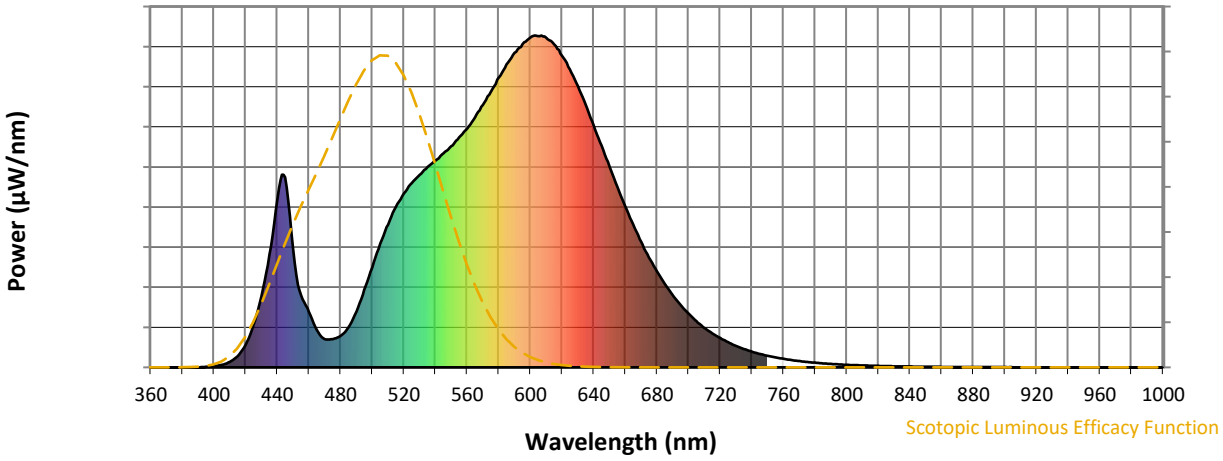
Scotopic Flux vs. Wavelength



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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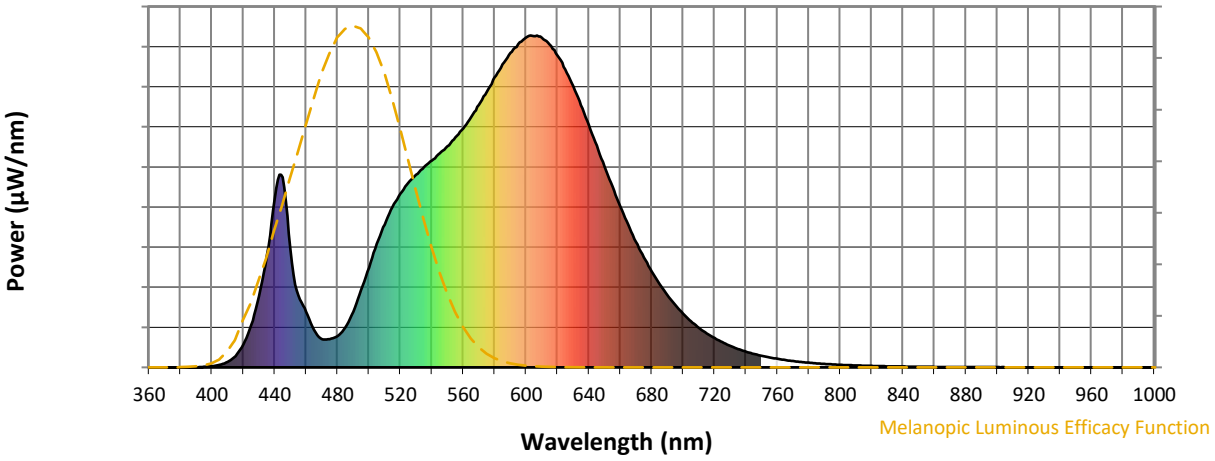
Melanopic Flux vs. Wavelength



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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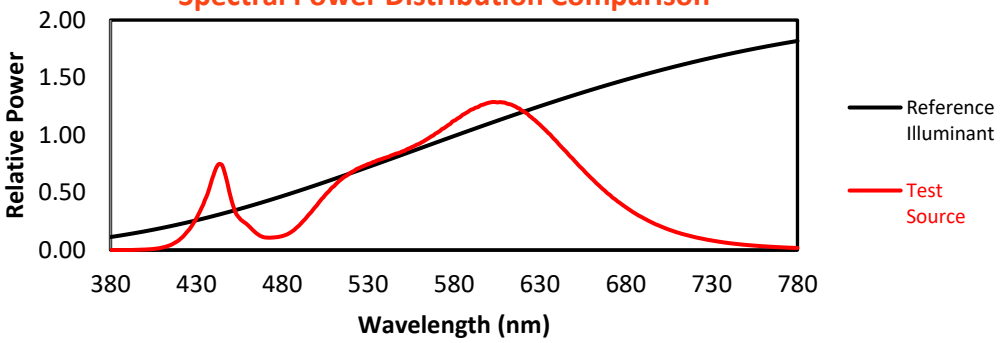
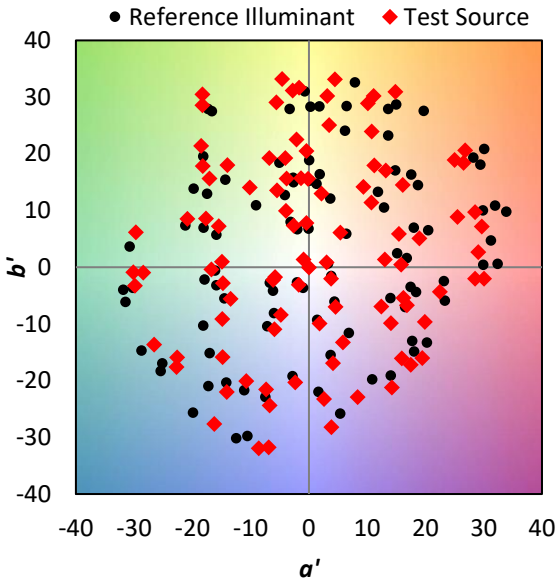
Summary

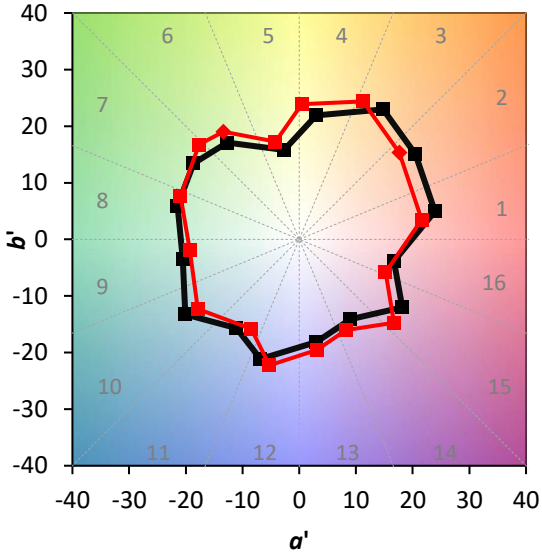
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

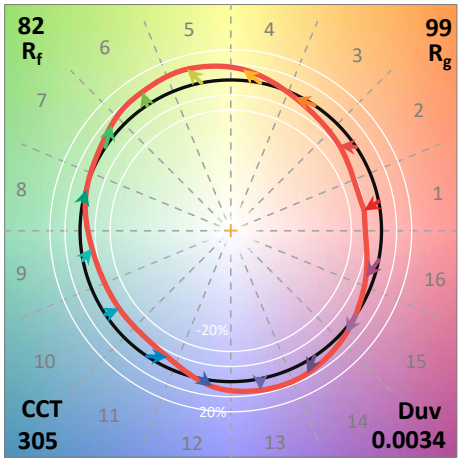
Spectral Power Distribution Comparison

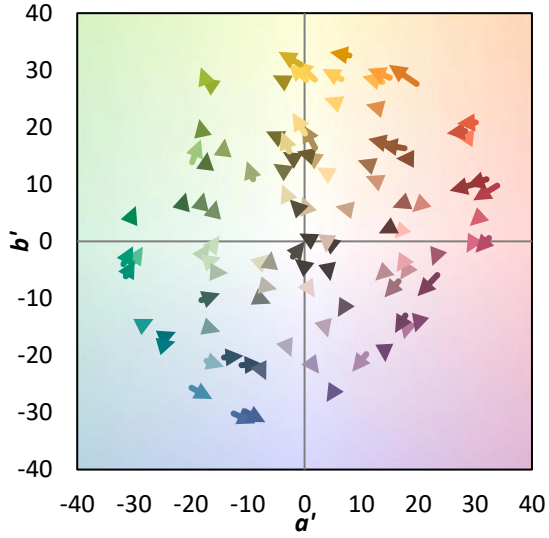


Color Vector Graphics









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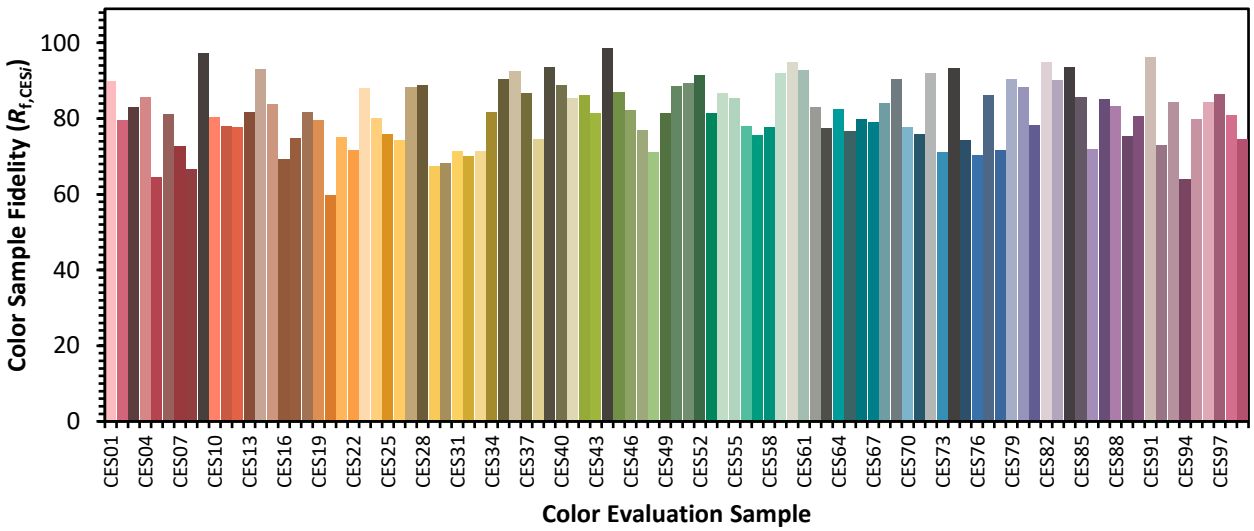
Individual Sample Fidelity Index ($R_{f,i}$)

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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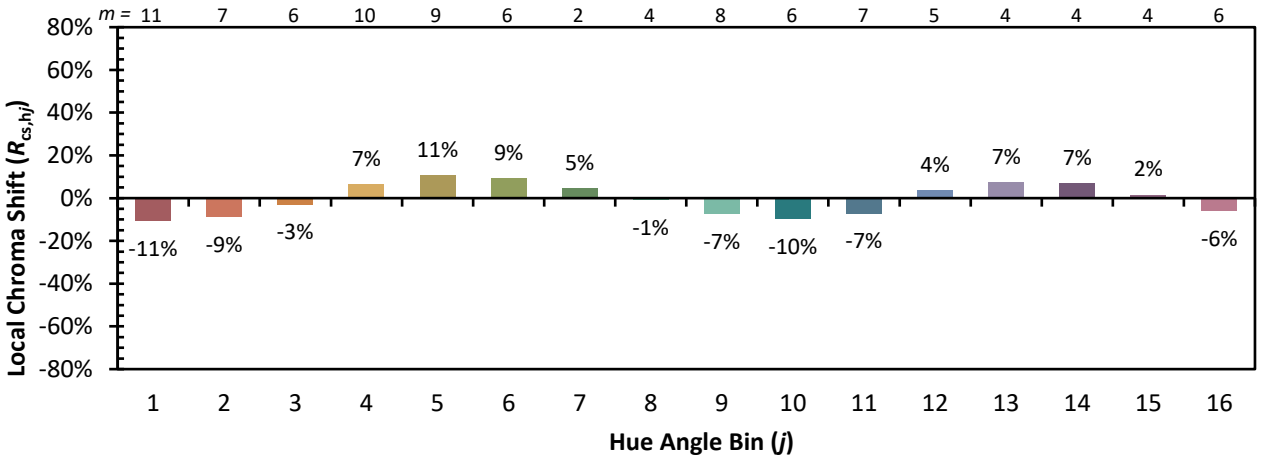
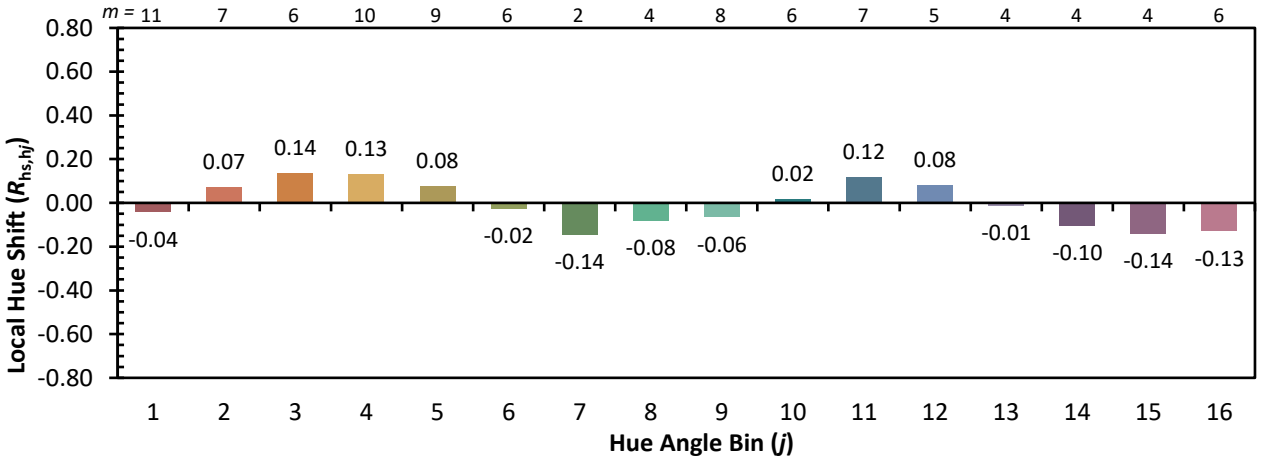
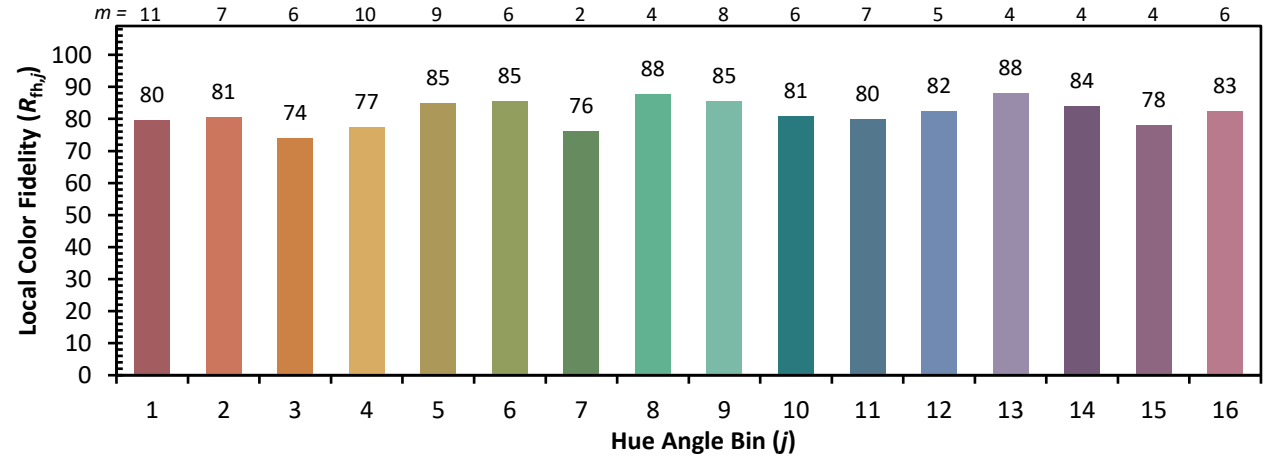
Color Rendition by Hue-Angle Bin







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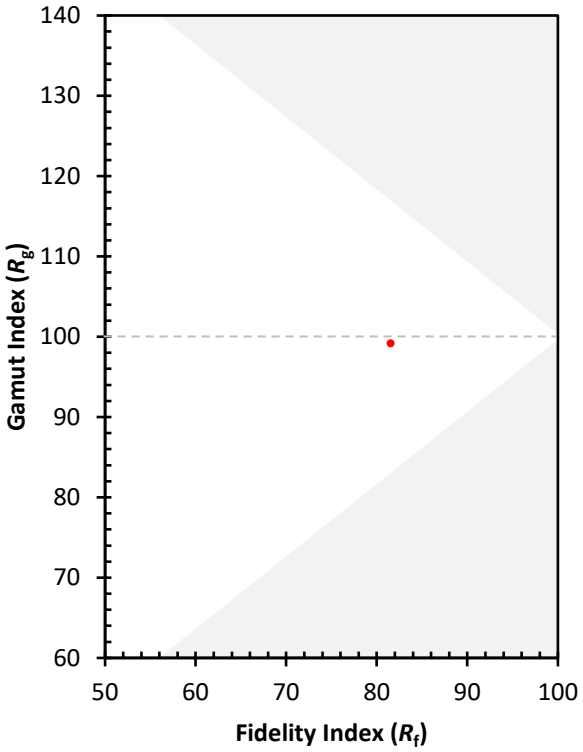
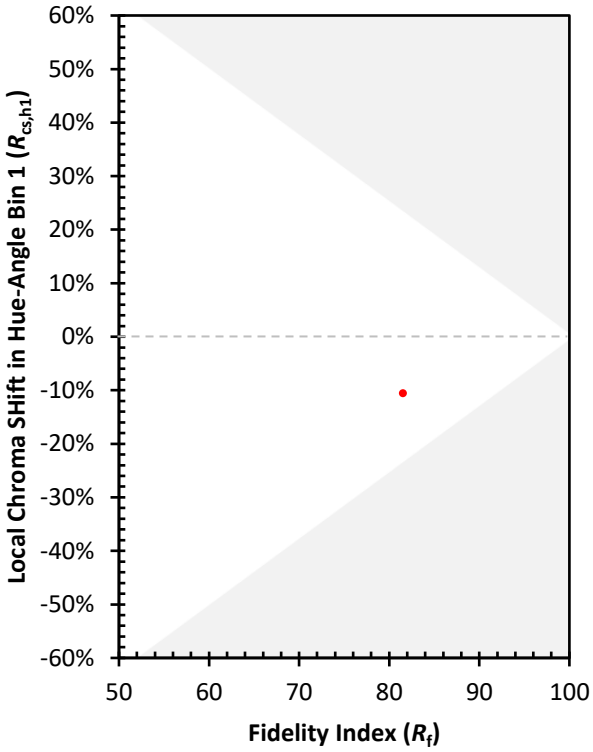
Measure Comparisons





(END OF REPORT)