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: P635025

Luminaire Tested: GWS-SA3C-830-U-T2-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:	P635025
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA3C-830-U-T2-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	8300.6 lumens
Efficiency:	N/A
Efficacy:	89.3 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	93
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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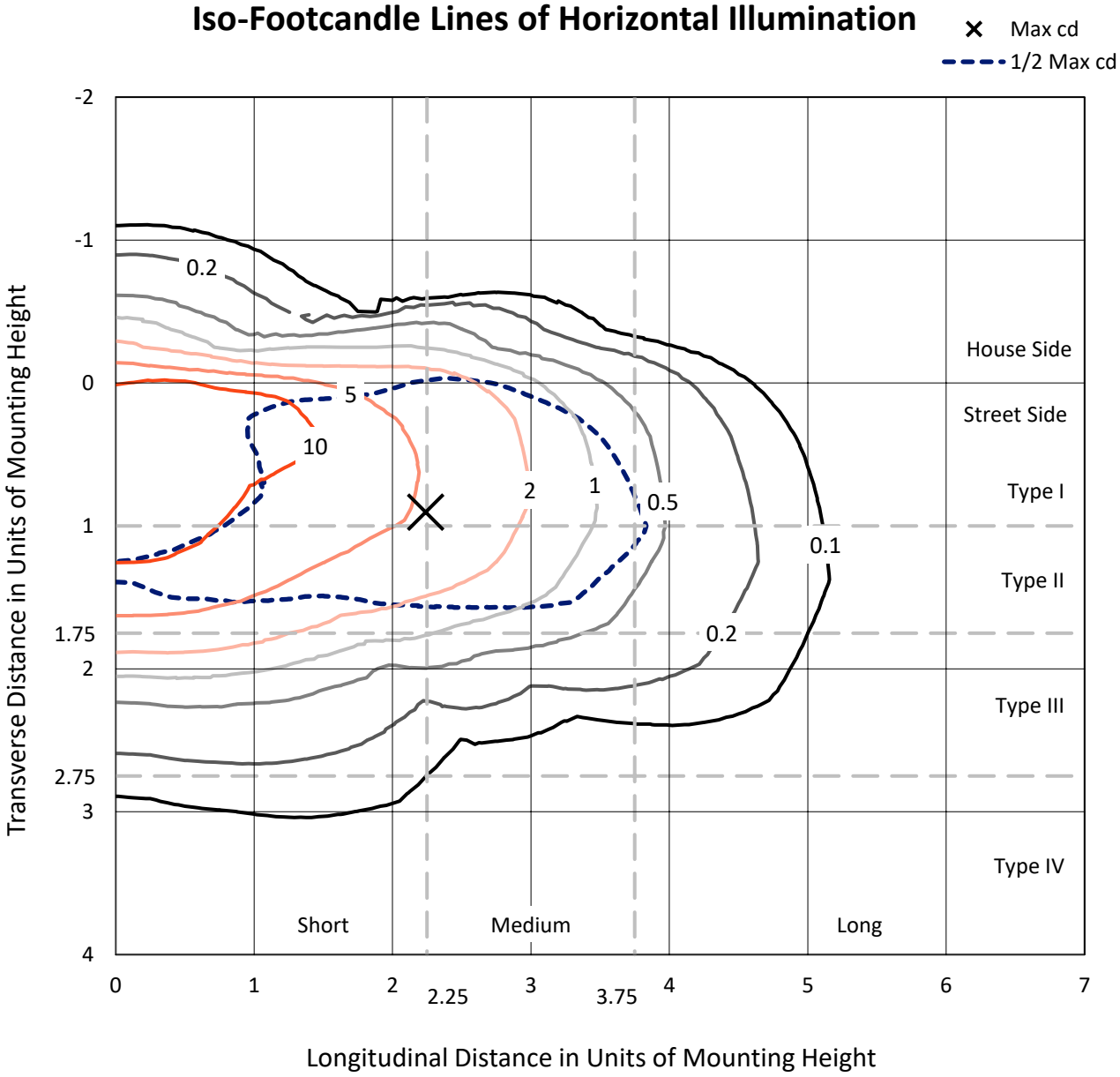
REPORT NUMBER: P635025
CATALOG NUMBER: GWS-SA3C-830-U-T2-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 15.6 fc
Type II - Short - N/A

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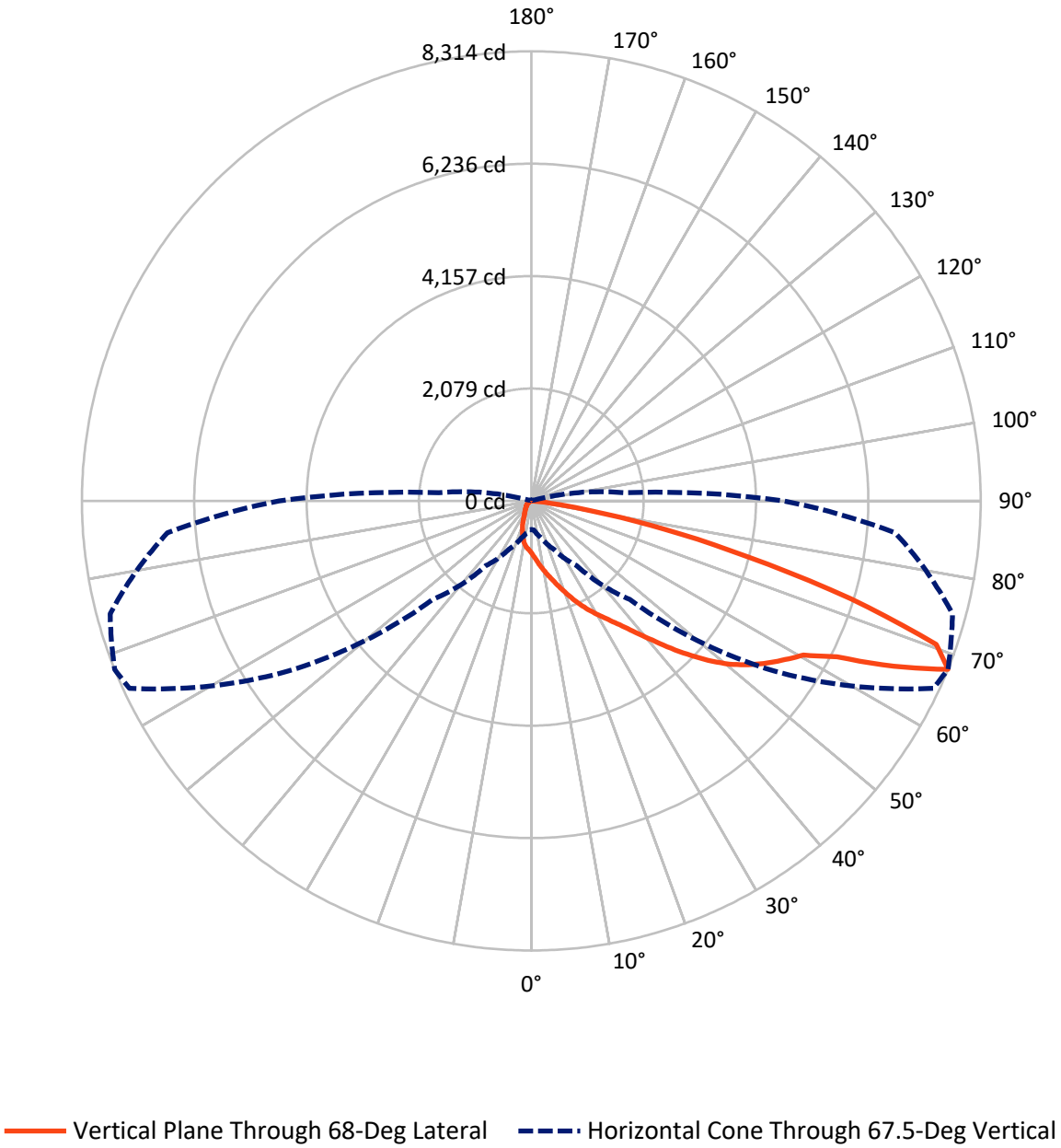
Luminous Intensity Polar Plot



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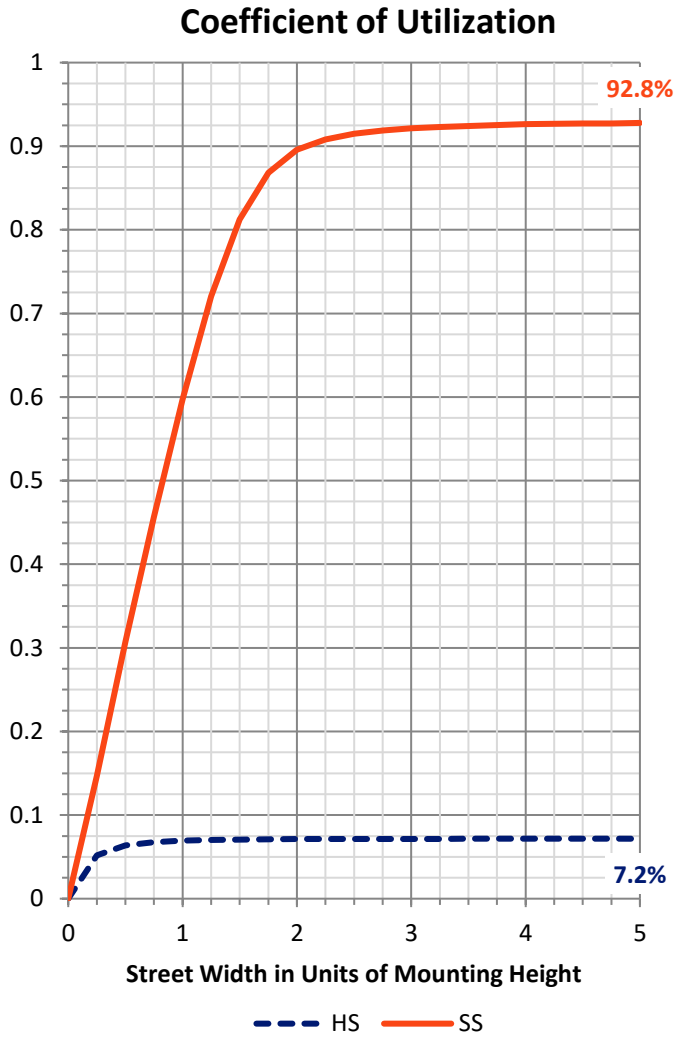
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	599.4	0.0	599.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	7701.2	0.0	7701.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	8300.6	0.0	8300.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.2	1.1
10°-20°	270.6	3.3
20°-30°	464.9	5.6
30°-40°	808.4	9.7
40°-50°	1410.5	17.0
50°-60°	2127.4	25.6
60°-70°	2133.2	25.7
70°-80°	941.2	11.3
80°-90°	50.3	0.6
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°	8300.6	100.0
0°-180°	8300.6	100.0



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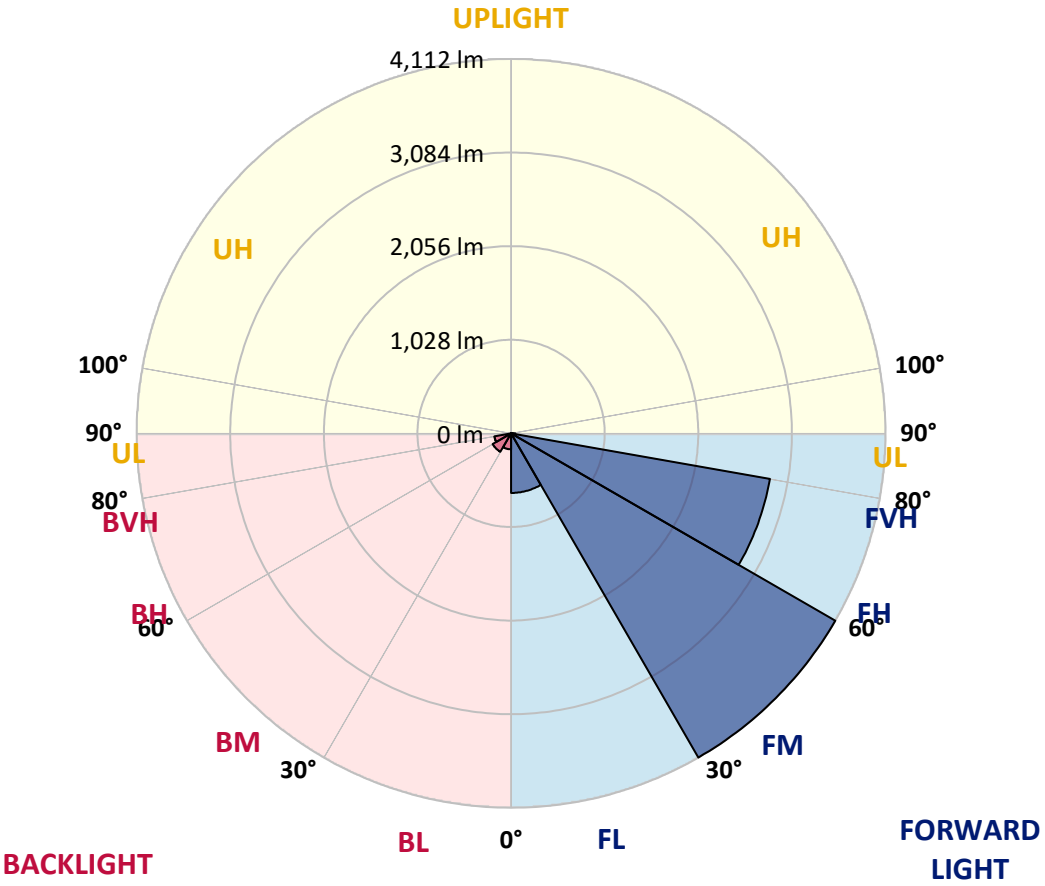
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	654.3	7.9			
FM	(30°-60°)	4112.1	49.5			
FH	(60°-80°)	2887.3	34.8			G2/5000
FVH	(80°-90°)	47.4	0.6			G1/100
BL	(0°-30°)	175.4	2.1	B1/500		
BM	(30°-60°)	234.1	2.8	B1/1000		
BH	(60°-80°)	187.1	2.3	B1/500		G1/500
BVH	(80°-90°)	2.9	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 II Short



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Scaled Data Report

REPORT NUMBER: P635025
CATALOG NUMBER: GWS-SA3C-830-U-T2-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	966.0	966.0	966.0	966.0	966.0	966.0	966.0	966.0	*966.0*	966.0	966.0
2.5°	1124.9	1132.0	1124.9	1126.4	1105.8	1096.3	1075.6	1047.0	*1039.9*	1021.6	993.8
5°	1262.3	1268.6	1261.5	1259.9	1236.1	1218.6	1184.4	1135.2	*1120.9*	1085.1	1030.3
7.5°	1337.0	1340.9	1343.3	1347.3	1338.5	1324.2	1293.3	1232.1	*1217.0*	1159.0	1082.0
10°	1344.9	1348.1	1360.0	1383.8	1401.3	1410.0	1392.6	1336.2	*1312.3*	1255.9	1145.5
12.5°	1322.7	1327.4	1346.5	1386.2	1434.7	1479.2	1490.3	1441.0	*1419.6*	1347.3	1220.2
15°	1293.3	1297.2	1323.5	1377.5	1450.6	1532.4	1578.5	1557.0	*1533.2*	1457.7	1302.8
17.5°	1248.0	1253.5	1290.1	1363.2	1457.7	1574.5	1673.8	1680.9	*1664.2*	1582.4	1394.2
20°	1222.6	1226.5	1259.1	1334.6	1452.9	1605.5	1762.8	1830.3	*1812.0*	1726.2	1499.0
22.5°	1244.0	1247.2	1268.6	1327.4	1437.1	1622.9	1845.4	1979.6	*1969.3*	1880.3	1609.4
25°	1356.8	1367.1	1354.4	1364.8	1444.2	1632.5	1912.1	2129.0	*2131.3*	2041.6	1723.8
27.5°	1585.6	1572.1	1541.9	1490.3	1499.8	1657.9	1969.3	2269.6	*2290.2*	2198.9	1825.5
30°	1818.4	1810.4	1792.1	1711.9	1645.2	1714.3	2017.8	2413.4	*2445.9*	2353.8	1916.1
32.5°	2079.7	2087.7	2055.1	1959.0	1845.4	1828.7	2067.8	2550.0	*2611.2*	2529.3	2022.5
35°	2391.9	2394.3	2329.9	2223.5	2094.8	2017.8	2157.6	2700.9	*2813.7*	2753.4	2164.7
37.5°	2696.2	2710.5	2675.5	2507.9	2393.5	2252.9	2306.1	2894.8	*3053.6*	3029.8	2343.5
40°	2965.5	2987.7	2976.6	2814.5	2664.4	2546.0	2536.5	3122.0	*3343.6*	3370.6	2579.4
42.5°	3179.9	3194.2	3203.0	3087.8	2955.1	2888.4	2820.9	3385.7	*3686.0*	3796.4	2868.5
45°	3406.3	3411.1	3429.4	3351.5	3235.6	3241.1	3156.9	3705.8	*4046.6*	4268.3	3200.6
47.5°	3694.7	3710.6	3701.9	3620.0	3515.2	3577.9	3504.1	4035.5	*4402.5*	4771.9	3540.6
50°	4045.8	4062.5	4054.6	3959.2	3842.5	3868.7	3822.6	4355.6	*4745.7*	5246.9	3823.4
52.5°	4227.0	4240.5	4339.0	4381.9	4320.7	4153.9	4094.3	4707.6	*5035.6*	5637.8	4083.2
55°	4139.6	4149.1	4363.6	4544.7	4768.7	4601.9	4367.6	4979.2	*5291.4*	5942.8	4276.2
57.5°	3777.3	3829.0	4120.5	4427.1	4898.2	5044.4	4810.8	5274.8	*5537.7*	6154.9	4466.1
60°	3034.6	3032.2	3450.0	4000.6	4645.6	5165.9	5436.8	5674.3	*5784.8*	6317.8	4720.3
62.5°	1677.0	1692.1	2248.1	2973.4	3943.4	4851.3	5906.3	6364.7	*6348.0*	6602.2	5118.3
65°	834.9	865.1	1167.0	1703.2	2623.9	4009.3	5987.3	7418.0	*7370.4*	7271.9	5940.5
67.5°	*529.9*	*541.8*	*708.6*	*989.8*	*1458.5*	*2577.0*	*5482.9*	*8203.7*	*8314.1*	*8066.2*	*6756.3*
70°	343.2	363.0	492.5	676.8	880.2	1328.2	4016.4	7694.5	*7947.9*	7978.9	6247.9
72.5°	186.7	201.0	314.6	483.0	635.5	664.1	2256.1	5774.4	*6181.9*	6768.2	4887.9
75°	106.4	116.8	172.4	328.1	466.3	404.3	1000.1	3865.5	*4125.3*	4837.0	3502.5
77.5°	64.3	73.1	96.9	159.7	292.3	270.1	378.1	2353.0	*2518.2*	2886.0	1838.2
80°	29.4	35.0	61.2	88.2	159.7	127.9	144.6	1097.1	*1132.8*	1184.4	608.5
82.5°	13.5	15.9	27.8	52.4	90.6	73.9	55.6	253.4	*356.7*	337.6	154.9
85°	1.6	1.6	10.3	21.4	25.4	19.1	23.0	57.2	*72.3*	101.7	44.5
87.5°	0.0	0.0	0.8	0.8	1.6	2.4	4.8	7.1	*10.3*	16.7	11.1
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: P635025
CATALOG NUMBER: GWS-SA3C-830-U-T2-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	966.0	966.0	966.0	966.0	966.0	966.0	966.0	966.0	966.0	966.0	966.0
2.5°	981.1	958.8	939.0	909.6	889.7	867.5	852.4	834.1	827.0	821.4	813.5
5°	1003.3	967.6	919.1	865.1	820.6	778.5	739.6	714.2	691.9	688.7	677.6
7.5°	1039.9	986.6	904.8	816.6	741.2	671.3	616.4	572.0	549.7	542.6	529.9
10°	1088.3	1015.2	883.4	748.3	639.5	556.1	494.1	444.1	409.1	396.4	386.9
12.5°	1142.3	1041.4	849.2	664.1	540.2	444.9	366.2	313.0	290.7	282.8	275.7
15°	1204.3	1066.1	795.2	579.9	443.3	327.3	271.7	248.6	239.1	236.7	234.3
17.5°	1263.9	1082.0	730.8	492.5	340.8	254.2	228.0	219.3	216.9	214.5	212.9
20°	1331.4	1093.1	655.4	409.9	264.5	215.3	202.6	196.2	191.4	186.7	185.9
22.5°	1400.5	1093.1	573.5	328.9	221.6	193.0	178.7	166.8	158.1	153.3	151.7
25°	1466.4	1078.0	492.5	262.9	195.4	171.6	153.3	139.8	127.9	122.3	120.7
27.5°	1513.3	1039.1	421.8	222.4	177.1	152.5	130.3	115.2	105.7	100.1	99.3
30°	1542.7	981.1	356.7	198.6	161.3	132.7	110.4	97.7	90.6	86.6	85.0
32.5°	1564.9	909.6	298.7	181.9	146.2	115.2	96.1	85.8	79.4	76.3	75.5
35°	1609.4	842.1	255.8	166.8	130.3	100.9	84.2	76.3	71.5	67.5	66.7
37.5°	1671.4	785.7	221.6	153.3	115.2	89.8	76.3	69.1	65.1	61.2	60.4
40°	1762.8	749.9	196.2	139.8	101.7	81.0	69.9	63.6	58.0	54.0	53.2
42.5°	1903.4	733.2	179.5	126.3	89.8	73.1	64.3	56.4	50.8	46.9	46.1
45°	2071.0	742.0	165.2	112.8	81.8	67.5	57.2	49.3	43.7	39.7	38.9
47.5°	2250.5	772.9	153.3	100.1	73.9	62.0	50.8	42.1	37.3	33.4	32.6
50°	2438.0	823.8	143.0	88.2	67.5	55.6	43.7	36.5	31.8	28.6	27.8
52.5°	2600.8	892.9	132.7	79.4	62.0	49.3	38.1	31.8	27.0	23.8	23.0
55°	2756.5	958.0	124.7	71.5	55.6	42.9	33.4	27.0	23.0	19.9	19.1
57.5°	2925.7	1027.1	115.2	64.3	50.0	38.1	29.4	23.0	19.9	16.7	15.9
60°	3172.0	1129.6	100.9	58.8	43.7	33.4	25.4	20.7	17.5	13.5	12.7
62.5°	3527.1	1316.3	85.0	50.8	37.3	28.6	21.4	17.5	14.3	11.1	9.5
65°	4191.2	1634.1	69.9	42.1	30.2	23.8	18.3	14.3	11.1	7.9	7.1
67.5°	*4669.4*	*1716.7*	*56.4*	*34.2*	*24.6*	*18.3*	*15.1*	*11.1*	*7.9*	*5.6*	*4.8*
70°	4082.4	1232.9	43.7	27.8	20.7	14.3	11.9	8.7	5.6	4.0	3.2
72.5°	3075.9	805.5	32.6	21.4	15.9	11.9	8.7	7.1	4.8	3.2	2.4
75°	2167.9	465.5	23.8	15.9	11.1	8.7	7.1	5.6	4.0	2.4	2.4
77.5°	1111.4	192.2	16.7	11.1	7.9	5.6	4.8	3.2	3.2	2.4	1.6
80°	337.6	63.6	9.5	7.1	5.6	4.0	2.4	2.4	2.4	1.6	0.8
82.5°	77.1	20.7	5.6	5.6	4.0	3.2	2.4	0.8	0.8	0.0	0.0
85°	19.9	6.4	4.8	4.0	4.0	3.2	1.6	0.8	0.0	0.0	0.0
87.5°	7.1	4.0	4.0	4.0	3.2	2.4	1.6	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

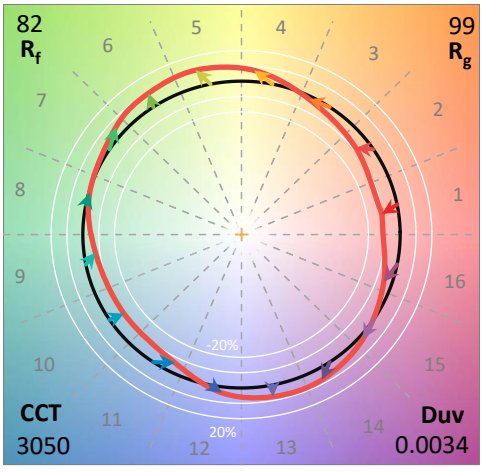
Test Information

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

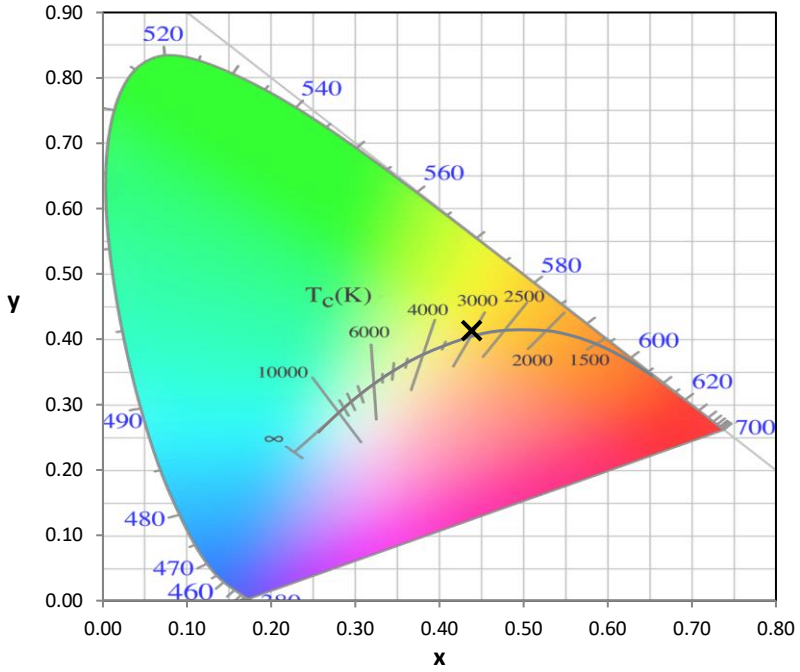
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

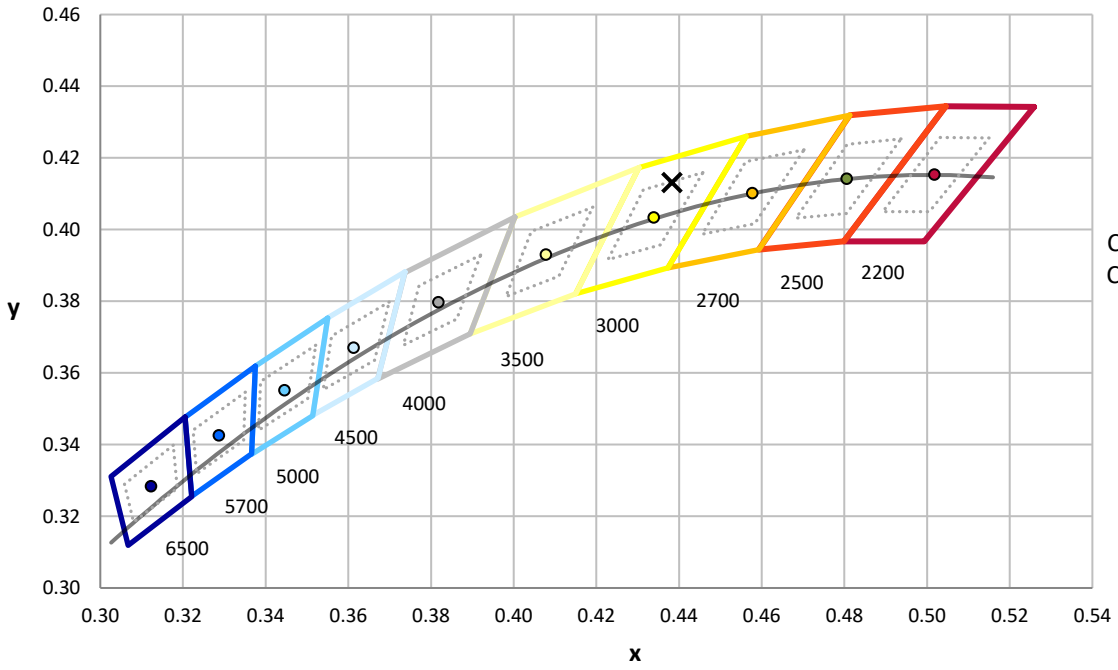
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

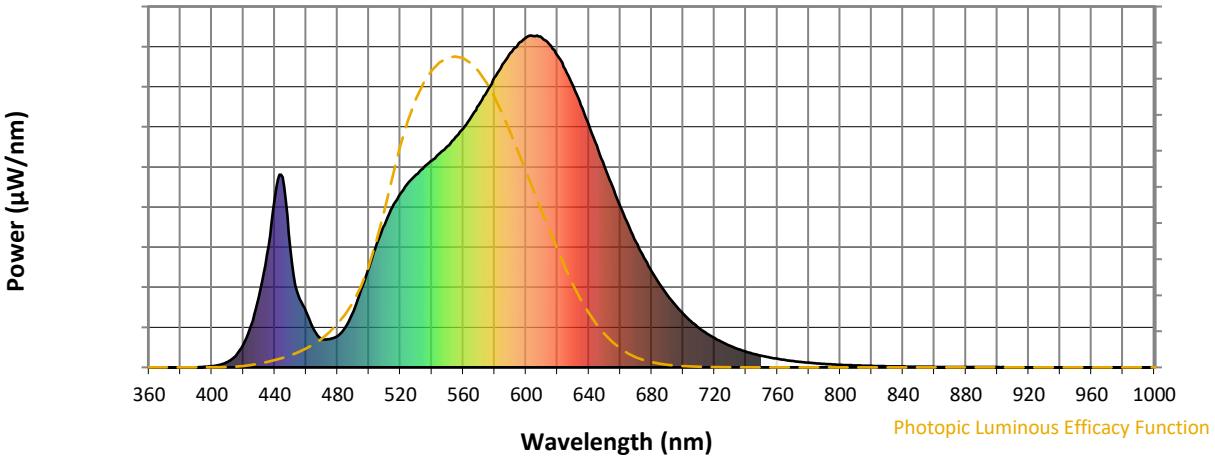


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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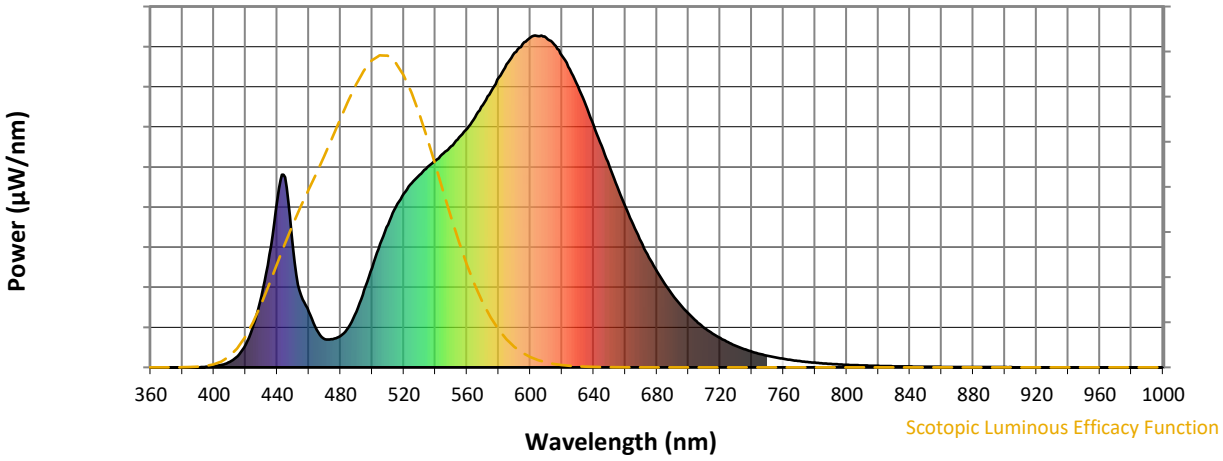
Scotopic Flux vs. Wavelength



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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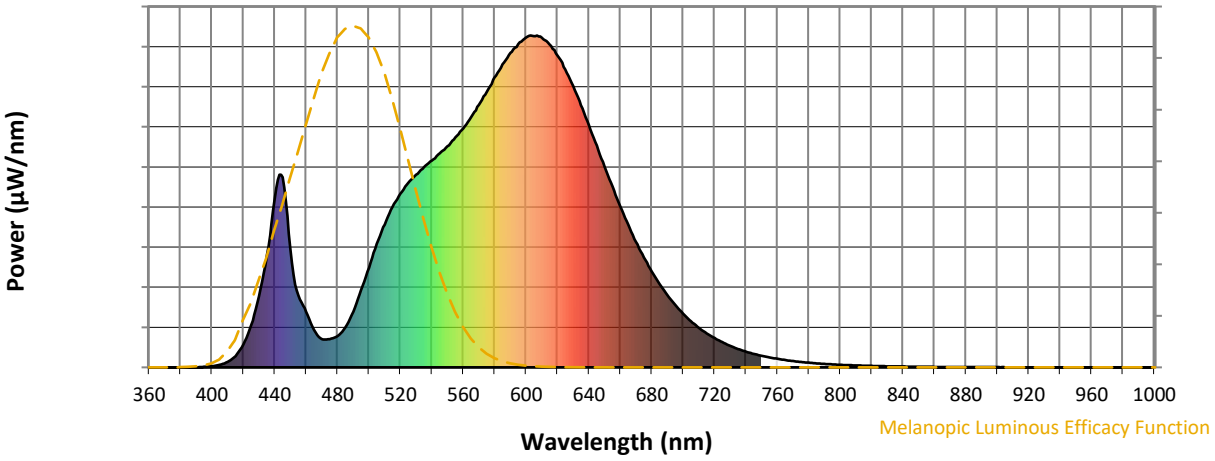
Melanopic Flux vs. Wavelength



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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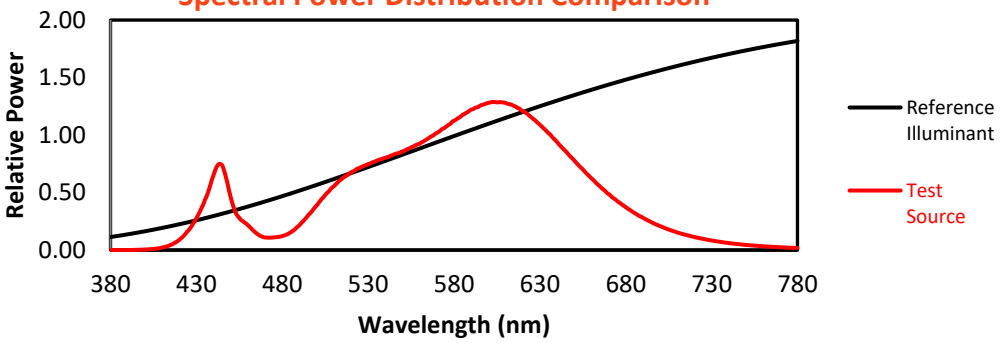
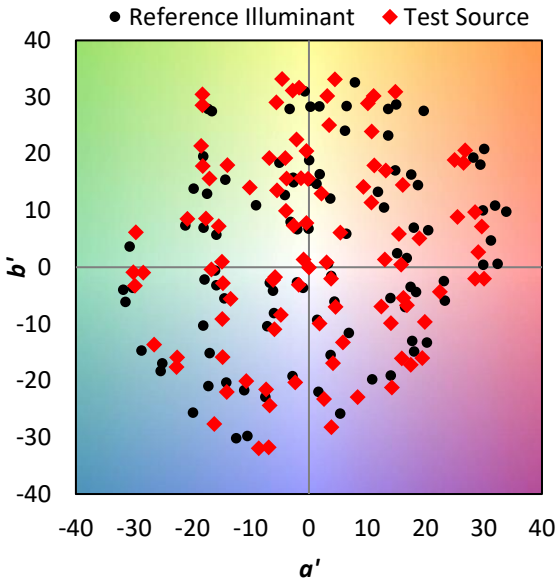
Summary

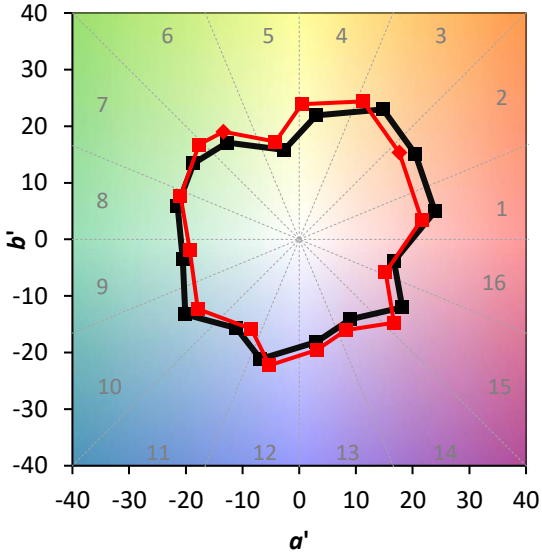
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

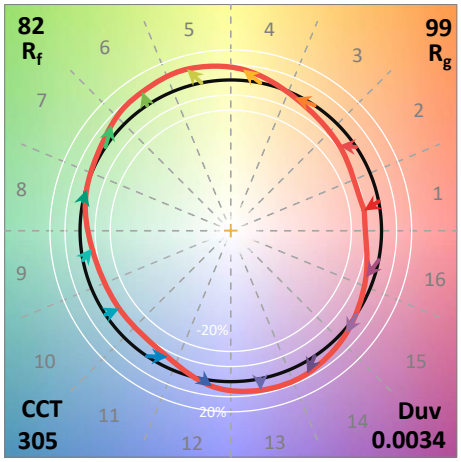
Spectral Power Distribution Comparison

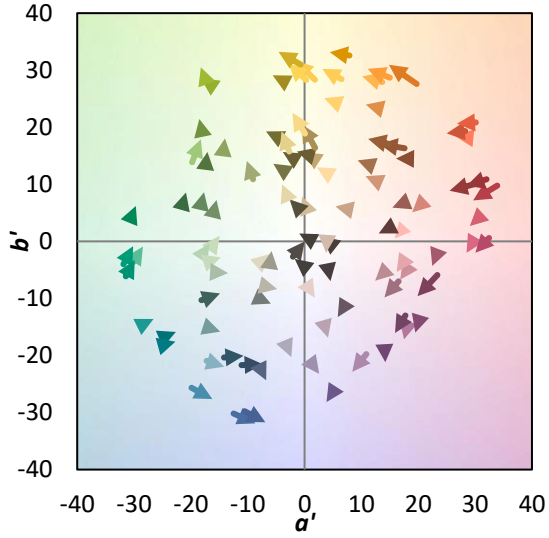


Color Vector Graphics









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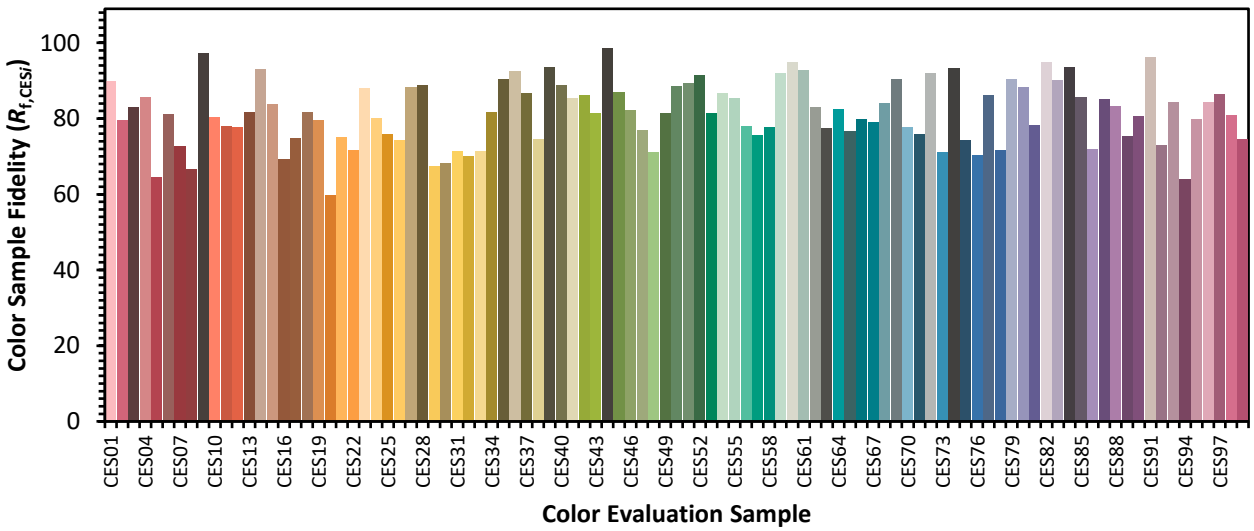
Individual Sample Fidelity Index ($R_{f,i}$)

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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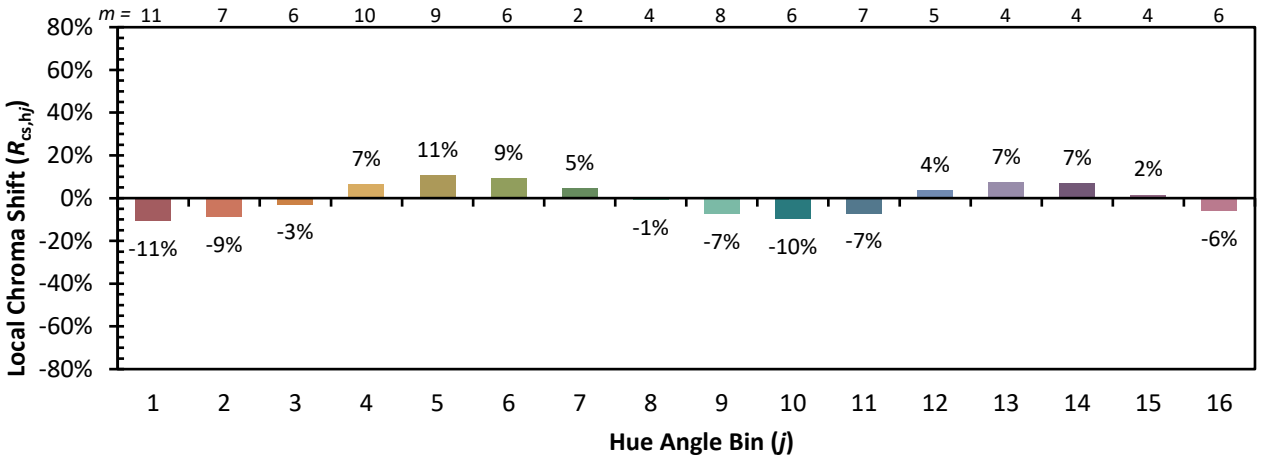
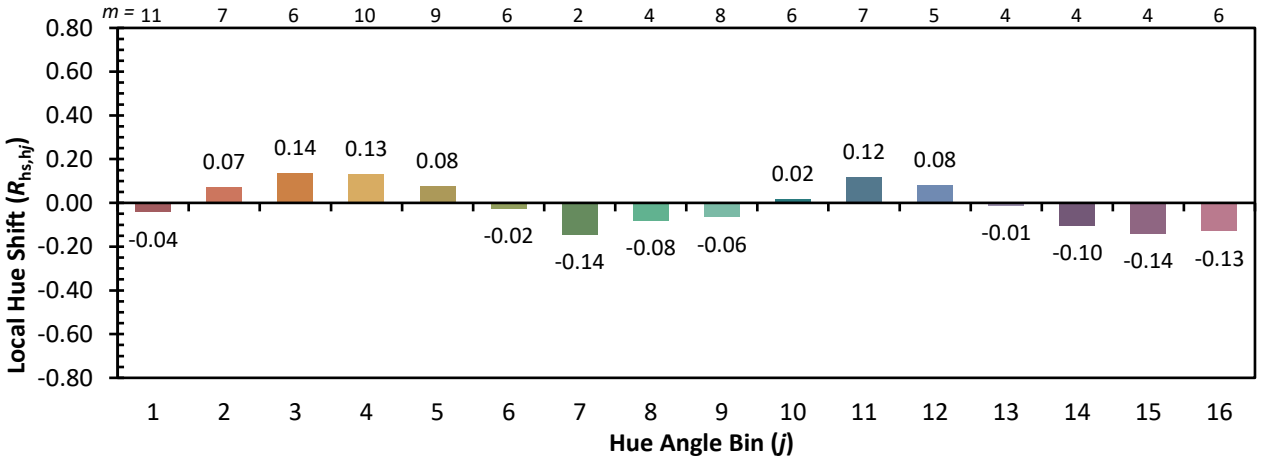
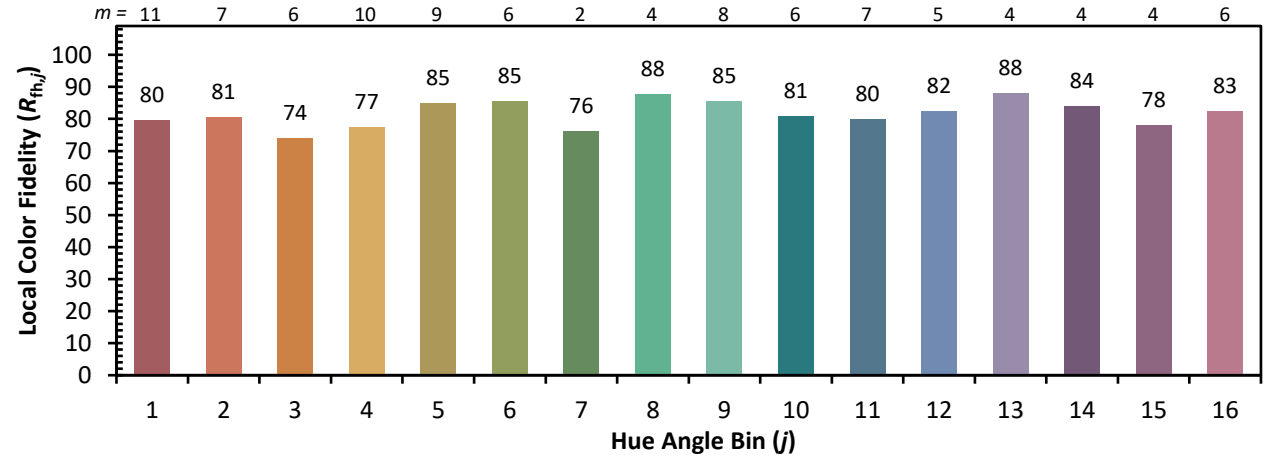
Color Rendition by Hue-Angle Bin







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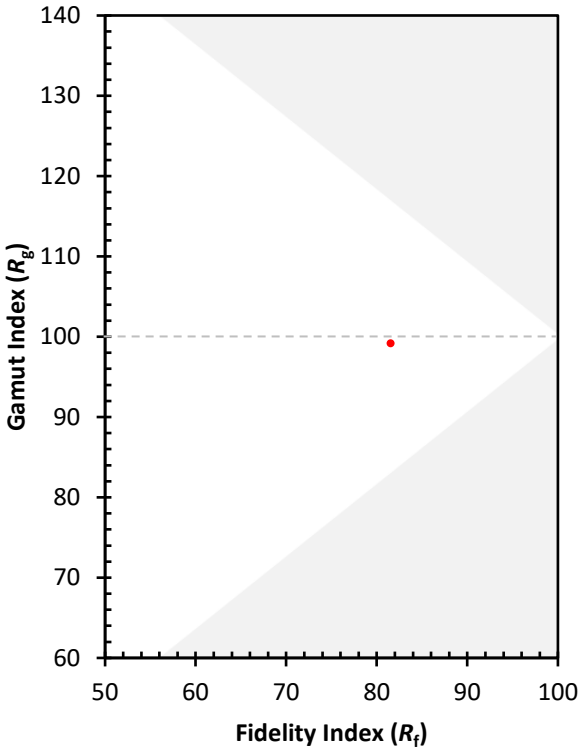
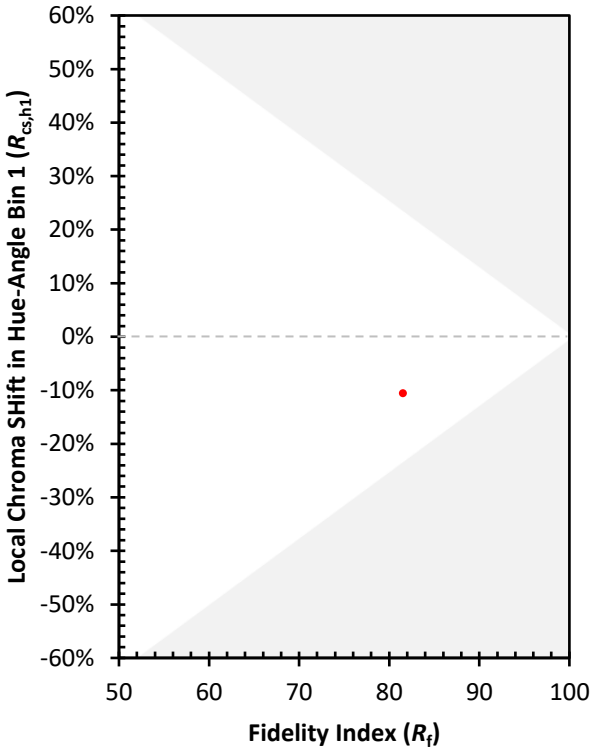
Measure Comparisons





(END OF REPORT)