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: P635990

Luminaire Tested: GWS-SA3E-830-U-AFL-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:	P635990
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA3E-830-U-AFL-W
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	17789.8 lumens
Efficiency:	N/A
Efficacy:	111.7 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

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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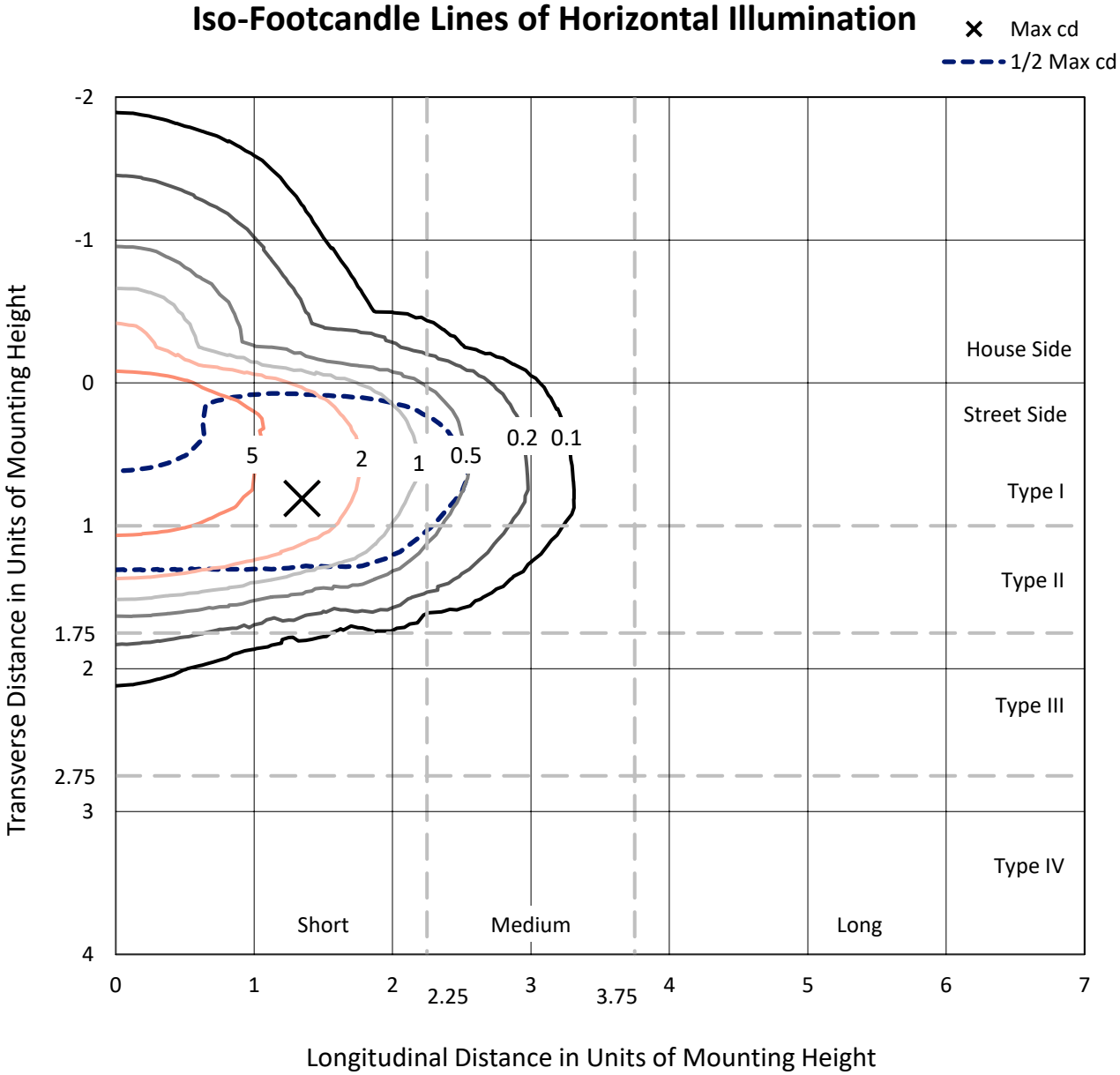
Scaled Data Report

REPORT NUMBER: P635990
CATALOG NUMBER: GWS-SA3E-830-U-AFL-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
Type II - Short - N/A

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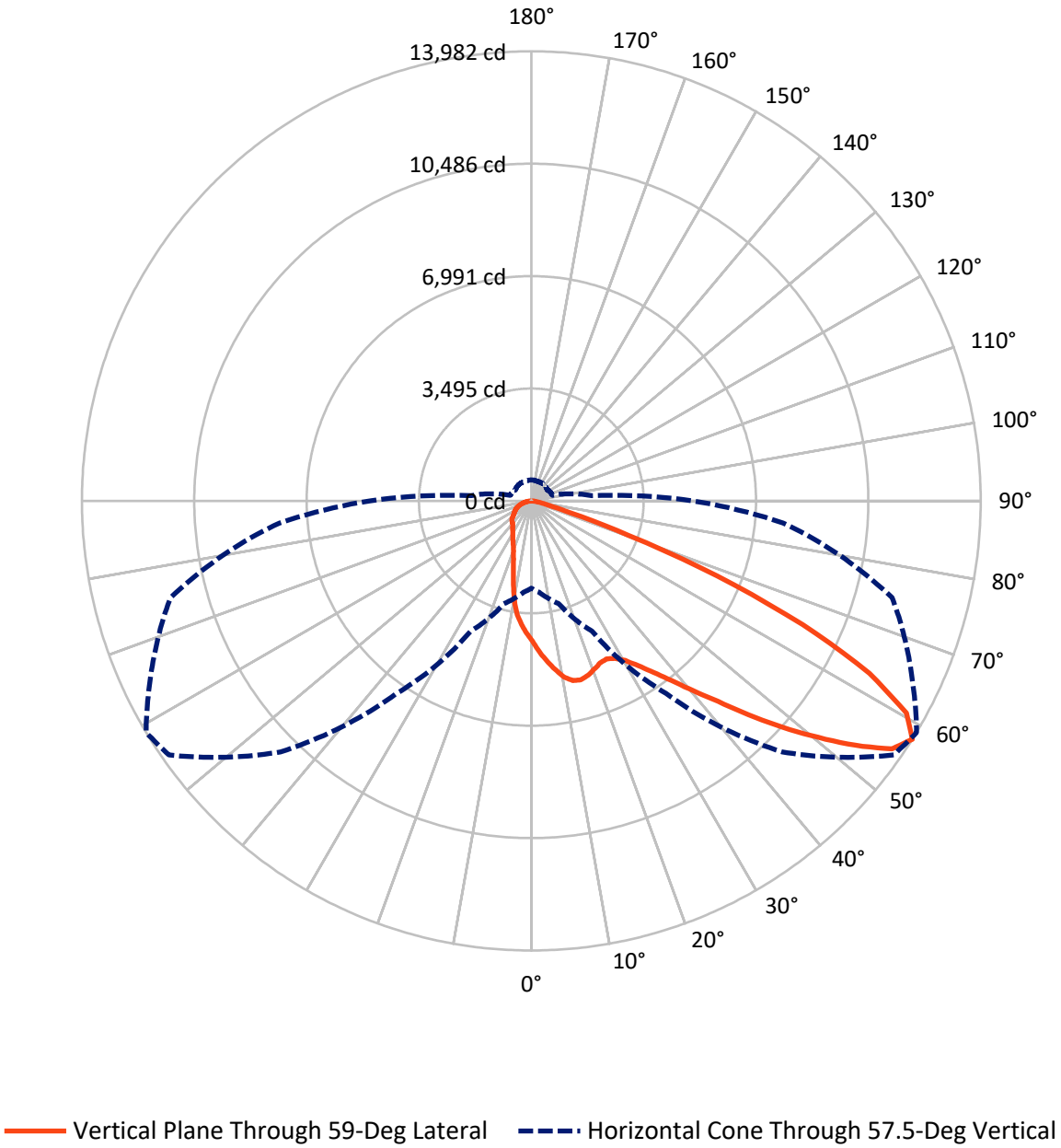
Luminous Intensity Polar Plot



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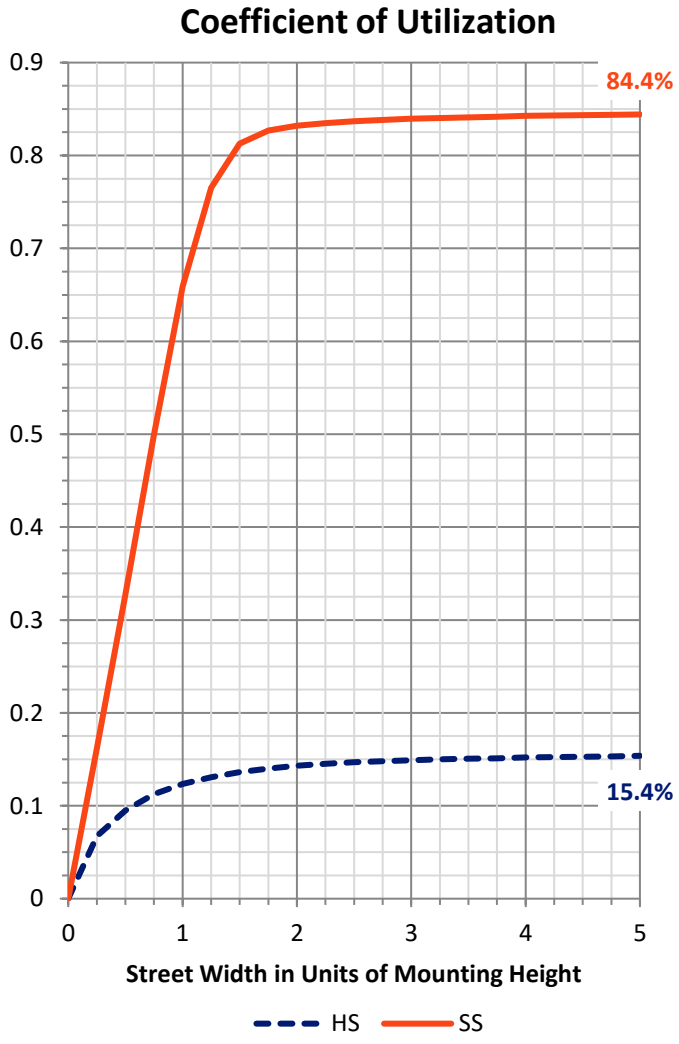
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2760.9	0.0	2760.9
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	15028.9	0.0	15028.9
	% Fixture	84.5	0.0	84.5
Total	Lumens	17789.8	0.0	17789.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.5	2.3
10°-20°	1027.5	5.8
20°-30°	1665.6	9.4
30°-40°	2679.3	15.1
40°-50°	4160.7	23.4
50°-60°	4481.7	25.2
60°-70°	2601.0	14.6
70°-80°	679.0	3.8
80°-90°	89.4	0.5
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°	17789.8	100.0
0°-180°	17789.8	100.0



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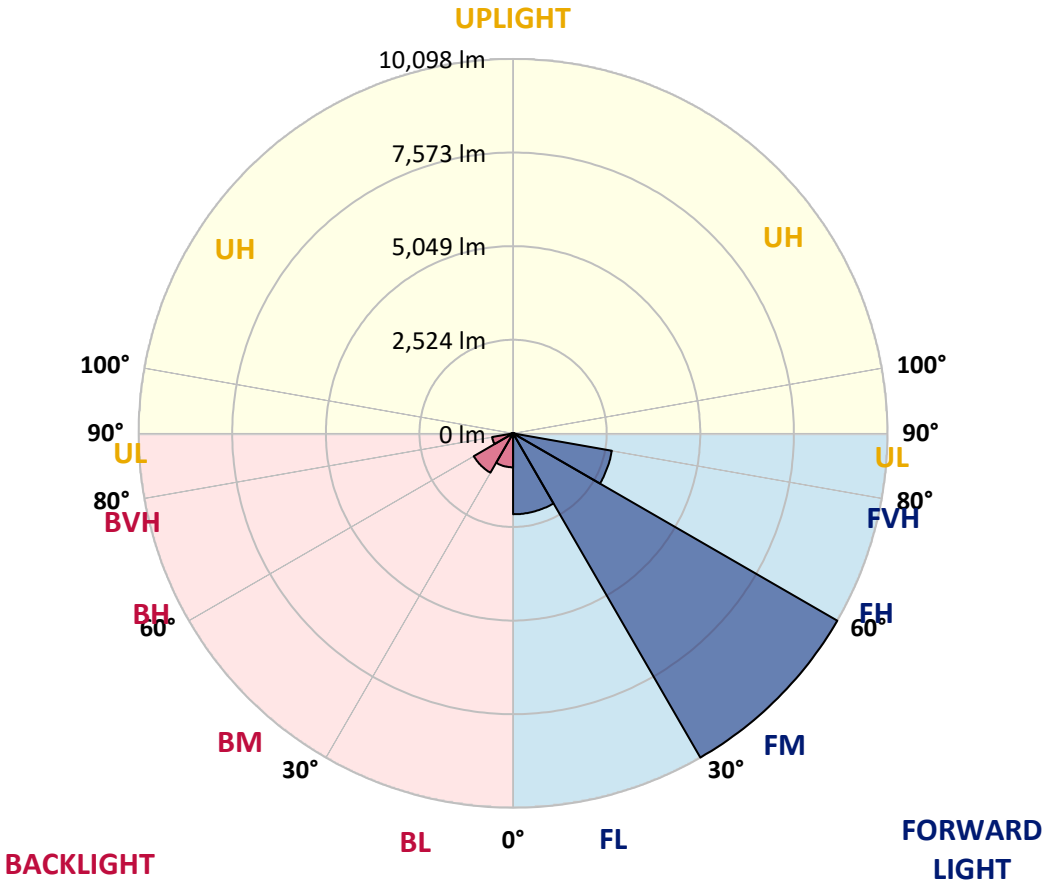
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2182.6	12.3			
FM	(30°-60°)	10097.7	56.8			
FH	(60°-80°)	2705.8	15.2			G2/5000
FVH	(80°-90°)	42.8	0.2			G1/100
BL	(0°-30°)	915.9	5.1	B2/1000		
BM	(30°-60°)	1224.1	6.9	B2/2500		
BH	(60°-80°)	574.2	3.2	B2/1000		G2/1000
BVH	(80°-90°)	46.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type II Short



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Scaled Data Report

REPORT NUMBER: P635990
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4367.0	4367.0	4367.0	4367.0	4367.0	4367.0	4367.0	*4367.0*	4367.0	4367.0	4367.0
2.5°	4953.2	4911.8	4940.6	4889.3	4868.0	4811.6	4739.0	*4690.2*	4615.0	4517.3	4432.2
5°	5445.3	5416.5	5422.8	5367.7	5318.8	5224.9	5075.9	*4993.2*	4865.5	4668.9	4486.0
7.5°	5430.3	5464.1	5482.9	5530.5	5544.3	5535.5	5401.5	*5286.3*	5146.0	4850.5	4574.9
10°	4868.0	4931.9	4989.5	5152.3	5350.2	5600.6	5631.9	*5563.1*	5421.5	5082.1	4681.4
12.5°	4255.6	4304.4	4355.8	4551.1	4854.2	5355.2	5694.6	*5737.1*	5680.8	5311.3	4801.6
15°	3955.0	3977.6	4026.4	4155.4	4397.1	4953.2	5585.6	*5772.2*	5873.7	5554.3	4936.9
17.5°	3942.5	3952.5	3976.3	4045.2	4213.0	4642.6	5389.0	*5702.1*	6025.2	5811.0	5094.7
20°	4201.7	4175.4	4160.4	4159.1	4241.8	4538.6	5198.6	*5589.4*	6096.6	6074.0	5263.7
22.5°	4561.2	4569.9	4537.4	4457.2	4447.2	4612.5	5103.4	*5475.4*	6117.9	6307.0	5420.3
25°	5070.9	5114.7	5018.3	4865.5	4790.3	4826.7	5162.3	*5440.3*	6115.4	6501.1	5518.0
27.5°	5665.8	5699.6	5601.9	5401.5	5246.2	5158.5	5337.6	*5544.3*	6136.6	6668.9	5576.8
30°	6343.3	6354.6	6220.6	6010.2	5783.5	5595.6	5629.4	*5758.4*	6245.6	6889.3	5645.7
32.5°	7171.1	7218.7	7015.8	6682.7	6365.8	6125.4	6021.4	*6104.1*	6481.1	7149.8	5752.2
35°	8221.9	8238.1	7980.1	7503.0	7054.6	6721.5	6503.6	*6547.4*	6839.2	7514.3	5912.5
37.5°	9212.5	9228.8	8954.5	8511.2	7869.9	7414.1	7098.5	*7078.4*	7297.6	8029.0	6174.2
40°	9841.2	9887.5	9764.8	9486.8	8874.3	8259.4	7831.1	*7762.2*	7898.7	8658.9	6538.7
42.5°	10179.3	10199.4	10196.9	10233.2	9868.7	9257.6	8657.7	*8519.9*	8611.3	9339.0	6906.9
45°	10181.8	10231.9	10365.9	10715.3	10731.6	10350.9	9702.2	*9486.8*	9402.8	10024.0	7291.3
47.5°	9726.0	9779.8	10148.0	10835.6	11342.8	11429.2	10953.3	*10521.2*	10168.1	10613.9	7606.9
50°	8345.8	8481.1	9182.4	10398.5	11463.0	12293.3	12146.8	*11560.7*	10848.1	11069.8	7804.8
52.5°	7147.3	7142.3	7574.4	9163.6	10960.8	12674.1	13301.5	*12630.2*	11520.6	11359.1	7854.9
55°	5233.7	5262.5	5704.6	7008.3	9620.8	12305.9	13936.5	*13614.6*	12292.1	11513.1	7834.9
57.5°	*2713.9*	*2856.7*	*3310.0*	*4472.2*	*7310.1*	*11038.5*	*13767.4*	*13981.5*	*13076.1*	*11622.1*	*7861.2*
60°	1371.4	1343.8	1506.6	2135.3	4235.5	8621.4	12725.4	*13408.0*	13217.6	11707.2	7877.5
62.5°	915.5	908.0	862.9	989.4	1730.8	5105.9	10848.1	*11804.9*	12234.5	11506.8	7669.6
65°	792.8	777.7	695.1	690.1	840.3	2117.8	7951.3	*9280.1*	10111.7	10616.4	7172.4
67.5°	713.9	691.3	607.4	566.1	603.6	930.5	4481.0	*6224.3*	7466.7	8978.3	6082.8
70°	637.5	626.2	542.3	482.2	478.4	567.3	1650.6	*3212.3*	4568.7	6125.4	4447.2
72.5°	571.1	551.0	479.7	422.1	393.2	402.0	716.4	*1237.3*	2364.5	3821.0	2660.0
75°	494.7	479.7	417.0	359.4	324.4	294.3	437.1	*572.3*	1078.3	1815.9	1256.1
77.5°	382.0	372.0	329.4	285.5	265.5	219.2	265.5	*360.7*	498.4	765.2	653.7
80°	221.7	227.9	245.5	222.9	195.4	156.5	172.8	*207.9*	299.3	414.5	370.7
82.5°	111.5	119.0	159.1	129.0	116.5	91.4	102.7	*122.7*	156.5	229.2	145.3
85°	8.8	8.8	28.8	32.6	40.1	32.6	41.3	*50.1*	71.4	91.4	48.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.8	*6.3*	11.3	21.3	13.8
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: P635990
CATALOG NUMBER: GWS-SA3E-830-U-AFL-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4367.0	4367.0	4367.0	4367.0	4367.0	4367.0	4367.0	4367.0	4367.0	4367.0	4367.0
2.5°	4374.6	4310.7	4234.3	4171.7	4075.2	4023.9	3958.8	3878.6	3846.1	3831.0	3822.3
5°	4383.3	4270.6	4107.8	3957.5	3790.9	3659.4	3512.9	3360.1	3272.5	3251.2	3236.1
7.5°	4415.9	4258.1	3998.8	3750.9	3441.5	3154.7	2875.5	2598.7	2457.2	2403.3	2398.3
10°	4461.0	4253.1	3888.6	3476.6	2954.4	2501.0	2174.1	1957.5	1866.0	1836.0	1826.0
12.5°	4517.3	4249.3	3743.4	3095.9	2392.0	1963.7	1777.1	1742.1	1754.6	1752.1	1752.1
15°	4588.7	4254.3	3568.0	2665.1	1934.9	1704.5	1708.2	1749.6	1788.4	1794.7	1794.7
17.5°	4666.4	4249.3	3313.8	2233.0	1660.7	1643.1	1700.7	1758.3	1793.4	1798.4	1798.4
20°	4750.3	4225.5	2993.2	1826.0	1540.4	1604.3	1666.9	1712.0	1733.3	1738.3	1738.3
22.5°	4800.4	4157.9	2645.0	1545.4	1464.0	1542.9	1584.3	1630.6	1633.1	1593.0	1591.8
25°	4792.8	4031.4	2248.0	1365.1	1382.6	1451.5	1504.1	1471.5	1431.5	1408.9	1405.2
27.5°	4745.3	3841.0	1843.5	1228.6	1286.2	1363.8	1347.6	1320.0	1310.0	1284.9	1282.4
30°	4685.1	3606.8	1480.3	1122.1	1186.0	1257.4	1232.3	1229.8	1219.8	1192.3	1192.3
32.5°	4627.5	3365.1	1206.0	1043.2	1122.1	1127.1	1162.2	1164.7	1159.7	1112.1	1107.1
35°	4611.3	3123.4	1020.7	980.6	1059.5	1057.0	1107.1	1105.8	1019.4	953.1	951.8
37.5°	4660.1	2878.0	910.5	929.3	973.1	1005.7	1045.7	973.1	944.3	904.2	901.7
40°	4764.0	2651.3	854.1	899.2	918.0	965.6	903.0	908.0	900.5	870.4	866.6
42.5°	4901.8	2458.4	822.8	889.2	886.7	899.2	830.3	850.4	861.6	839.1	835.3
45°	5034.6	2290.6	806.5	851.6	864.1	791.5	777.7	796.5	814.0	805.3	801.5
47.5°	5132.2	2145.3	797.8	800.3	835.3	755.2	732.6	741.4	762.7	766.5	765.2
50°	5162.3	2021.3	787.7	757.7	750.2	718.9	701.3	698.8	723.9	741.4	743.9
52.5°	5104.7	1911.1	761.4	720.1	683.8	688.8	682.5	670.0	695.1	718.9	721.4
55°	5019.5	1848.5	720.1	683.8	641.2	661.3	663.8	652.5	668.8	685.1	685.1
57.5°	*5025.8*	*1884.8*	*680.0*	*650.0*	*603.6*	*629.9*	*643.7*	*638.7*	*638.7*	*651.2*	*652.5*
60°	5067.1	1937.4	653.7	607.4	566.1	593.6	624.9	619.9	608.7	624.9	624.9
62.5°	4948.1	1867.3	636.2	566.1	526.0	558.6	596.1	593.6	581.1	607.4	609.9
65°	4597.5	1679.4	616.2	514.7	485.9	523.5	556.1	564.8	553.6	588.6	594.9
67.5°	3853.6	1412.7	577.3	465.9	445.8	480.9	512.2	524.7	516.0	557.3	562.3
70°	2873.0	1143.4	516.0	412.0	397.0	428.3	457.1	462.1	463.4	512.2	517.2
72.5°	1832.2	889.2	434.6	351.9	340.6	364.4	385.7	405.8	414.5	460.9	459.6
75°	1021.9	661.3	349.4	298.1	278.0	296.8	321.9	345.7	370.7	438.3	445.8
77.5°	588.6	464.6	276.8	239.2	215.4	235.4	256.7	290.6	365.7	424.6	417.0
80°	331.9	301.8	209.1	175.3	160.3	175.3	191.6	255.5	288.0	313.1	316.9
82.5°	155.3	169.1	142.8	107.7	107.7	117.7	132.8	197.9	217.9	177.8	155.3
85°	56.4	76.4	70.1	55.1	48.8	47.6	82.7	112.7	70.1	62.6	53.9
87.5°	15.0	21.3	20.0	13.8	7.5	6.3	0.0	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

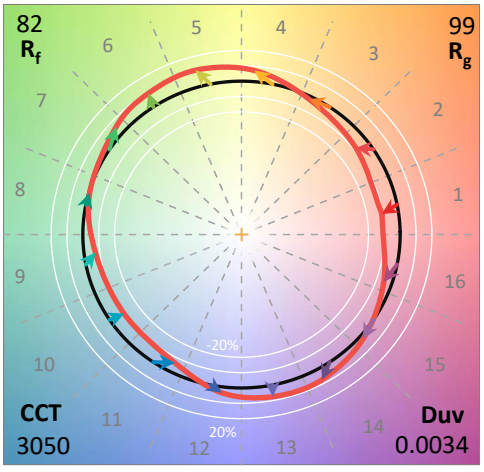
Test Information

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

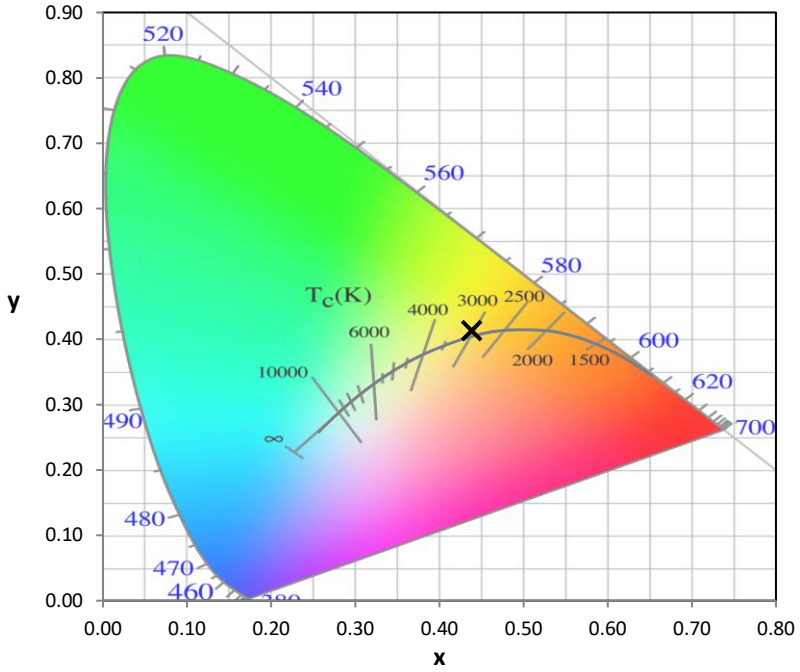
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

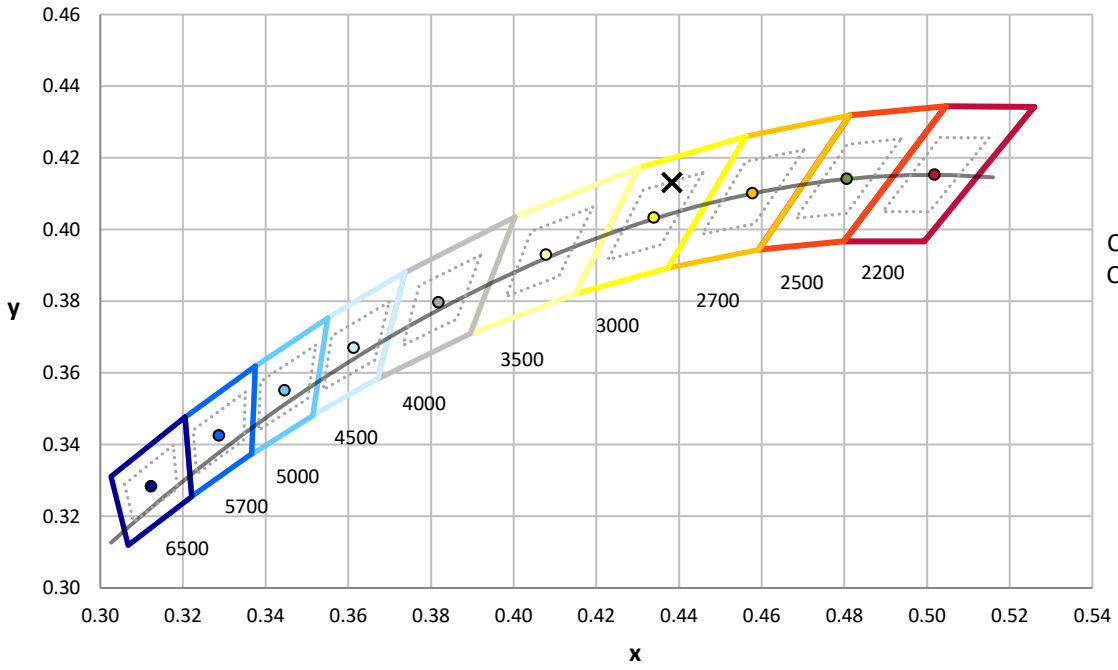
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

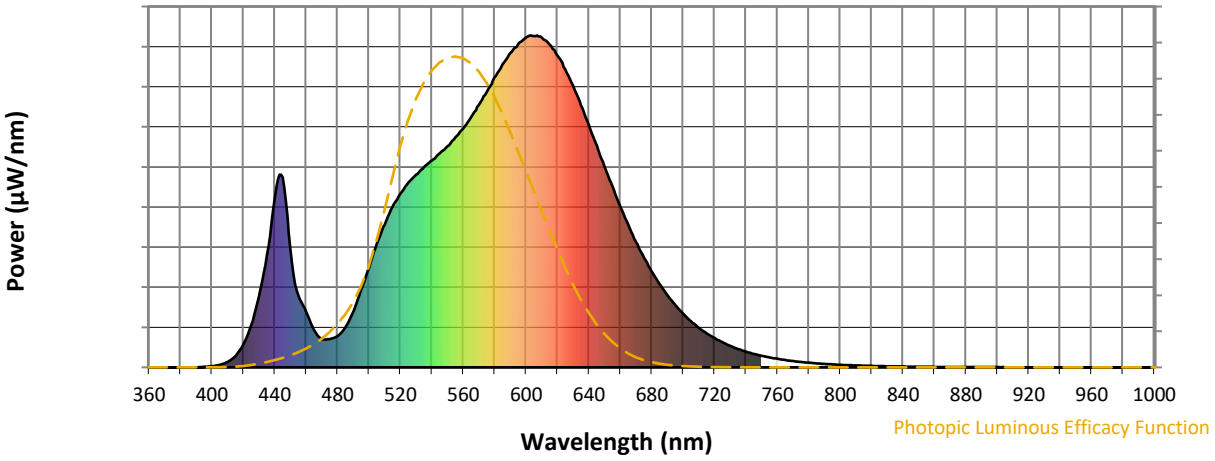


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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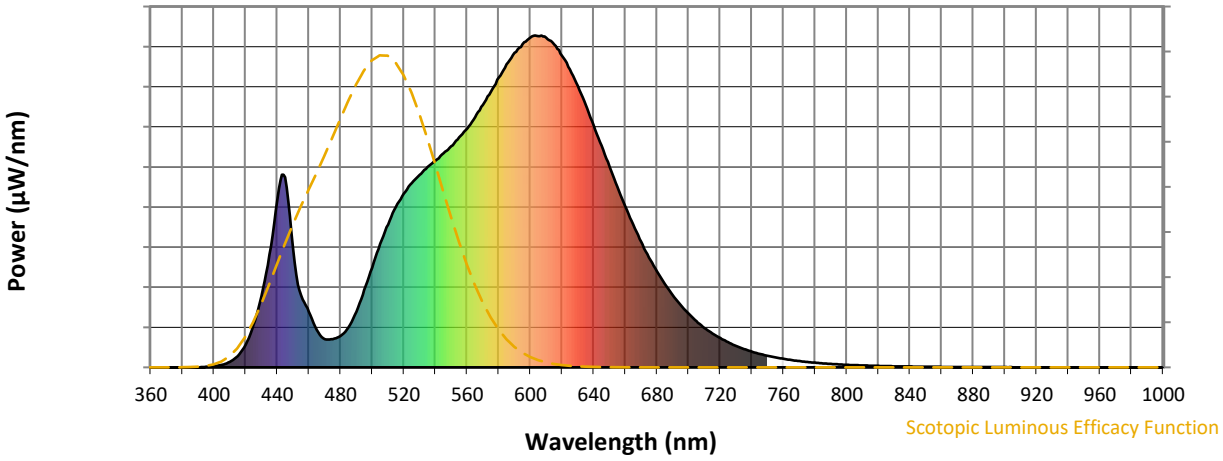
Scotopic Flux vs. Wavelength



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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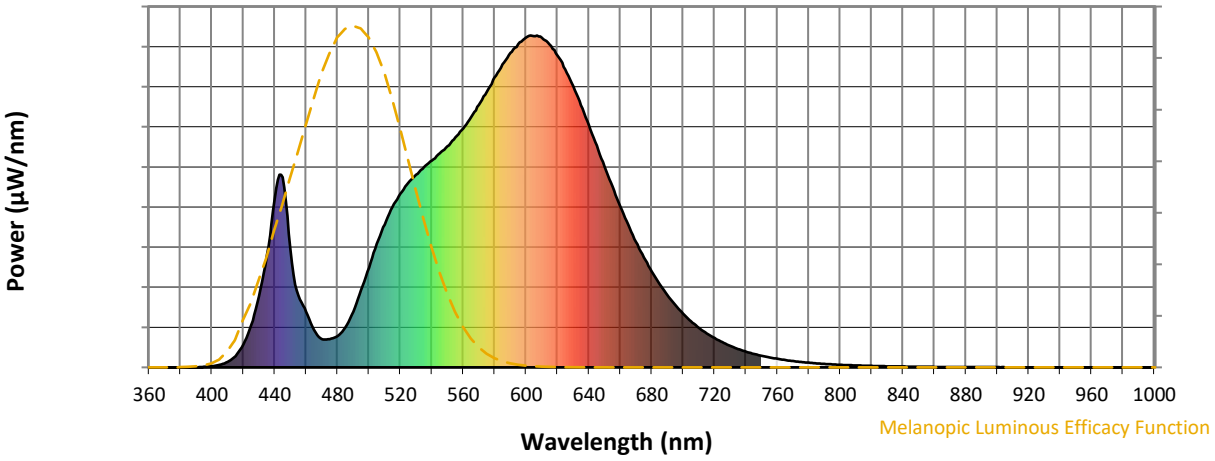
Melanopic Flux vs. Wavelength



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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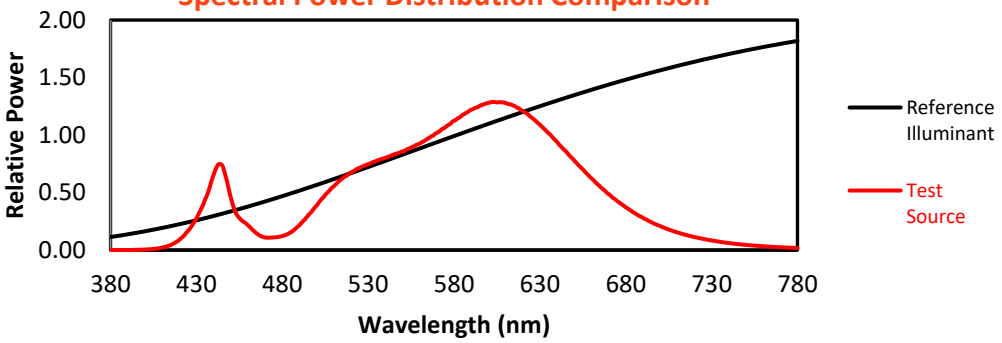
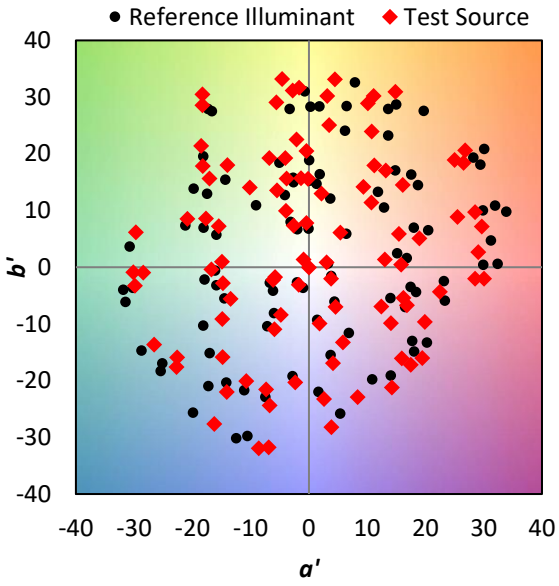
Summary

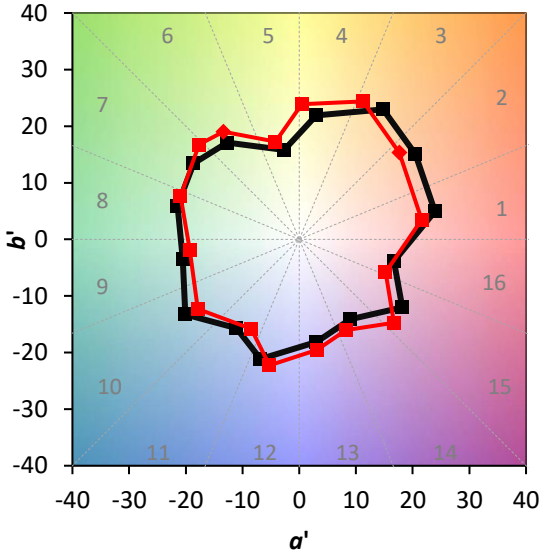
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

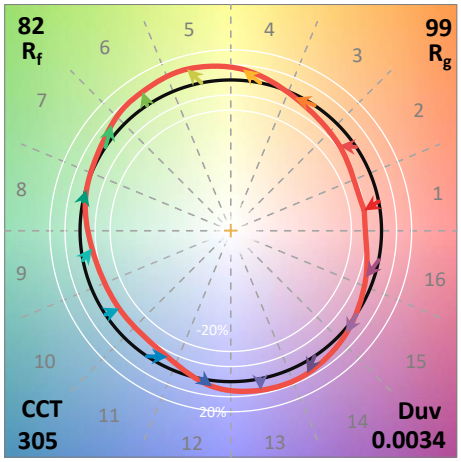
Spectral Power Distribution Comparison

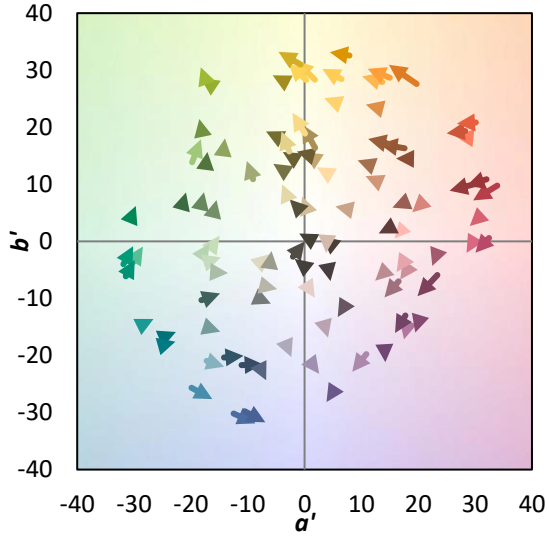


Color Vector Graphics









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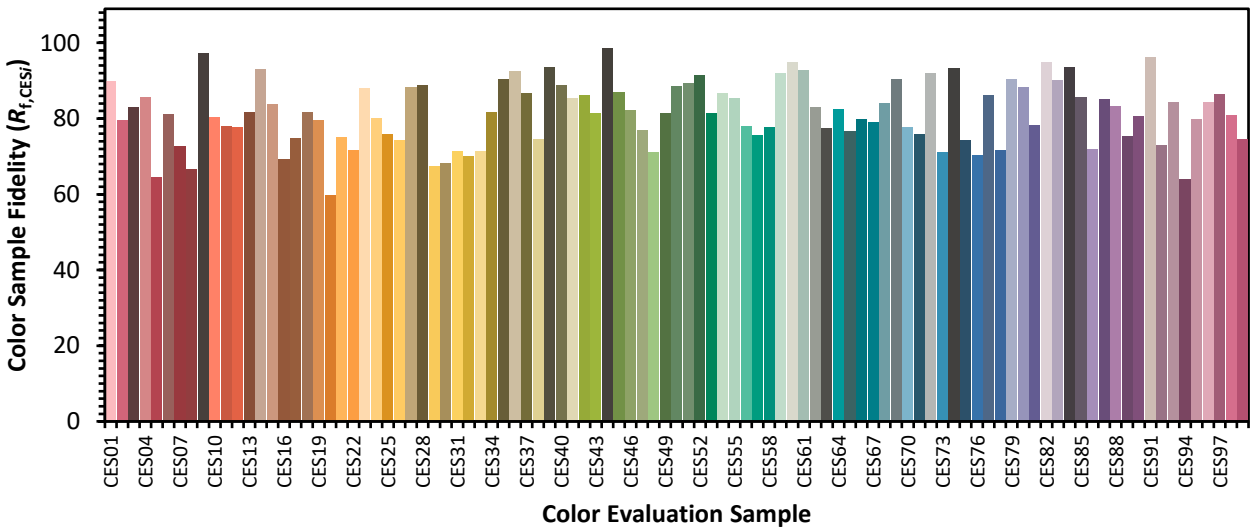
Individual Sample Fidelity Index ($R_{f,i}$)

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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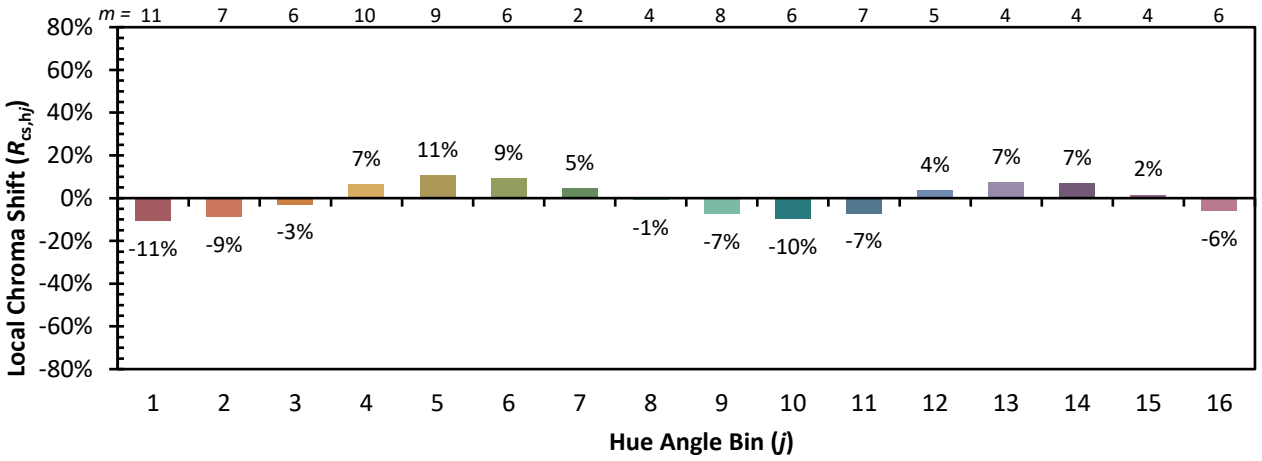
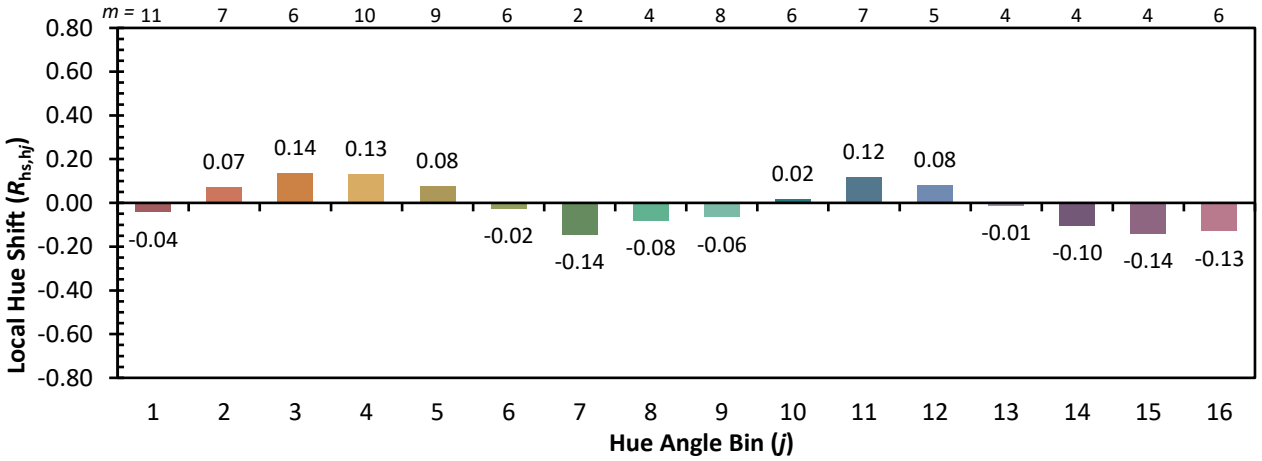
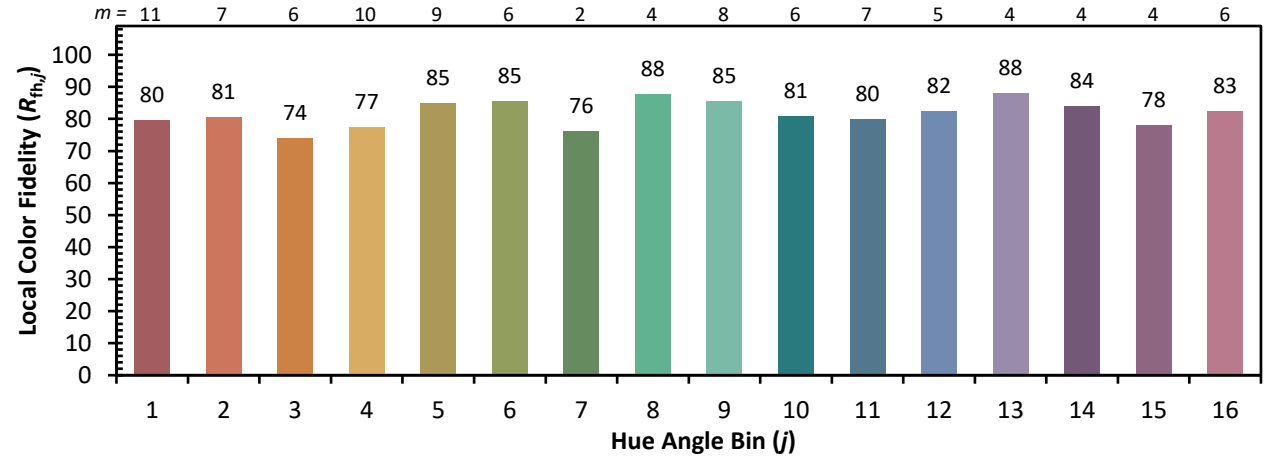
Color Rendition by Hue-Angle Bin







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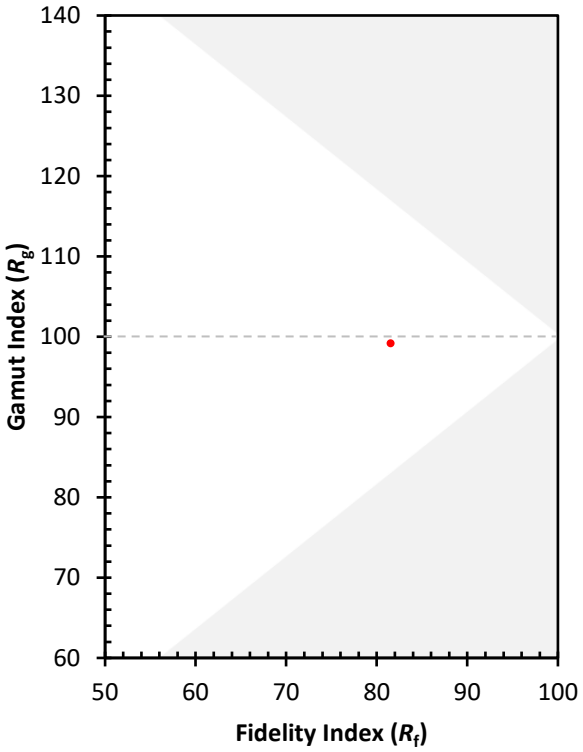
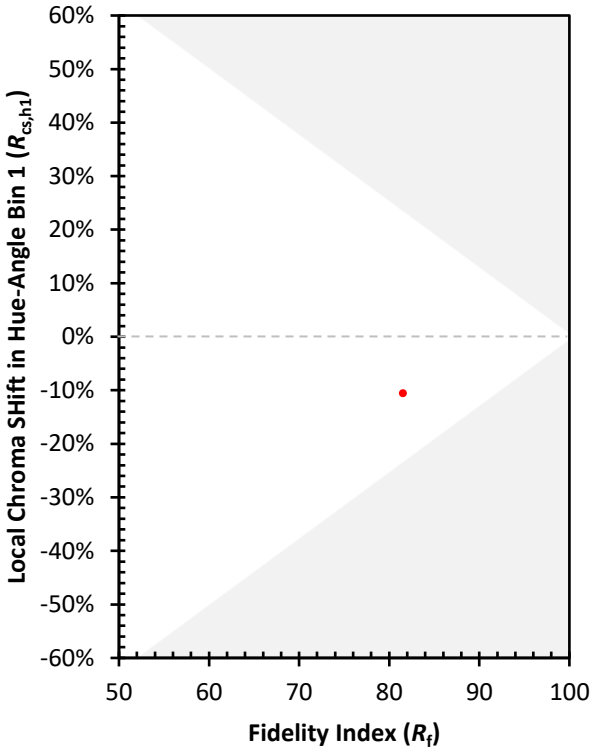
Measure Comparisons





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