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: P631564

Luminaire Tested: GWS-SA1F-830-U-T2R-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:	P631564
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1F-830-U-T2R-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5397.5 lumens
Efficiency:	N/A
Efficacy:	80.3 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B0 - U0 - G1

Input Watts (W):	67.2
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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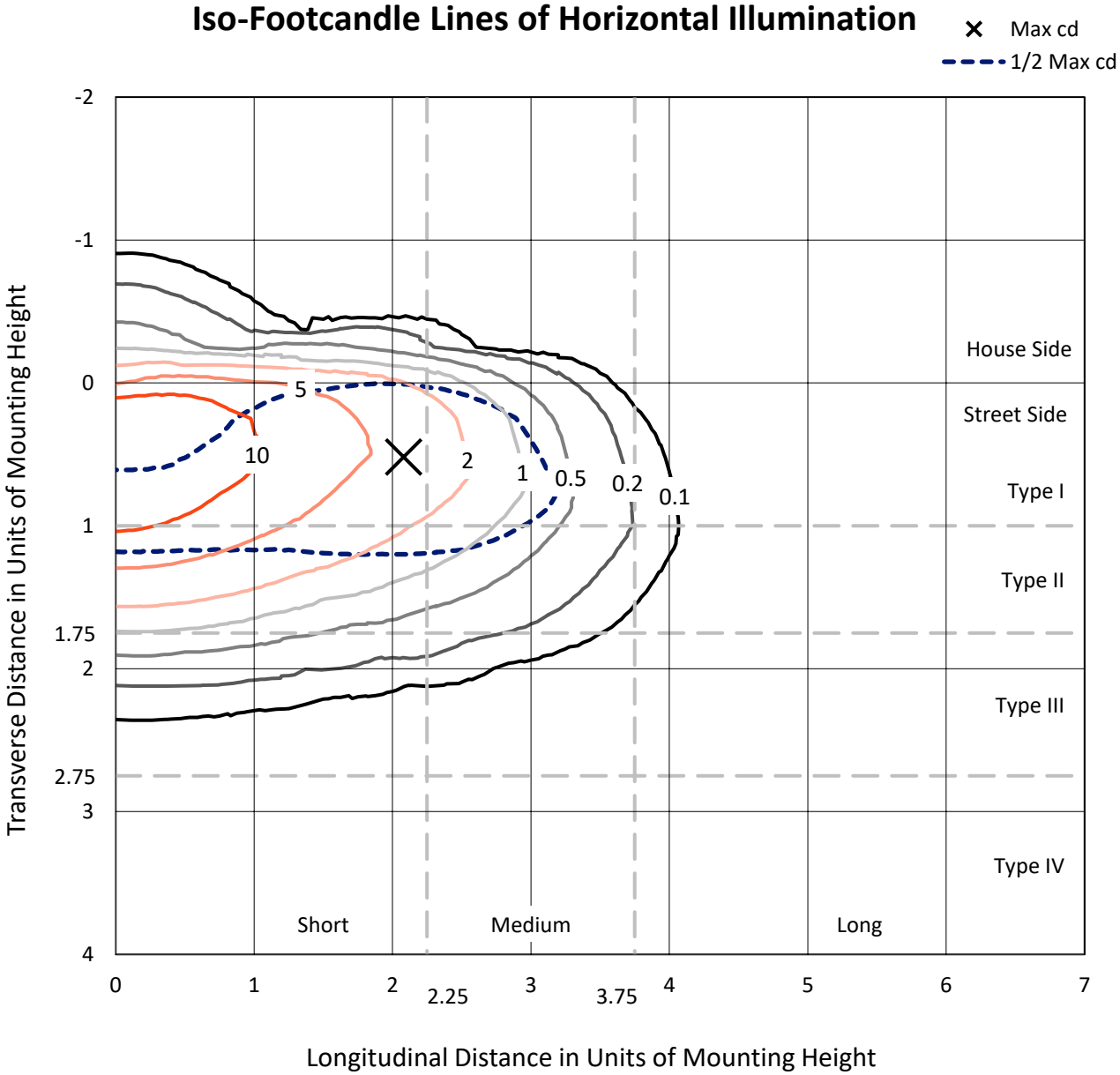
REPORT NUMBER: P631564
CATALOG NUMBER: GWS-SA1F-830-U-T2R-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 16.2 fc
Type II - Short - N/A

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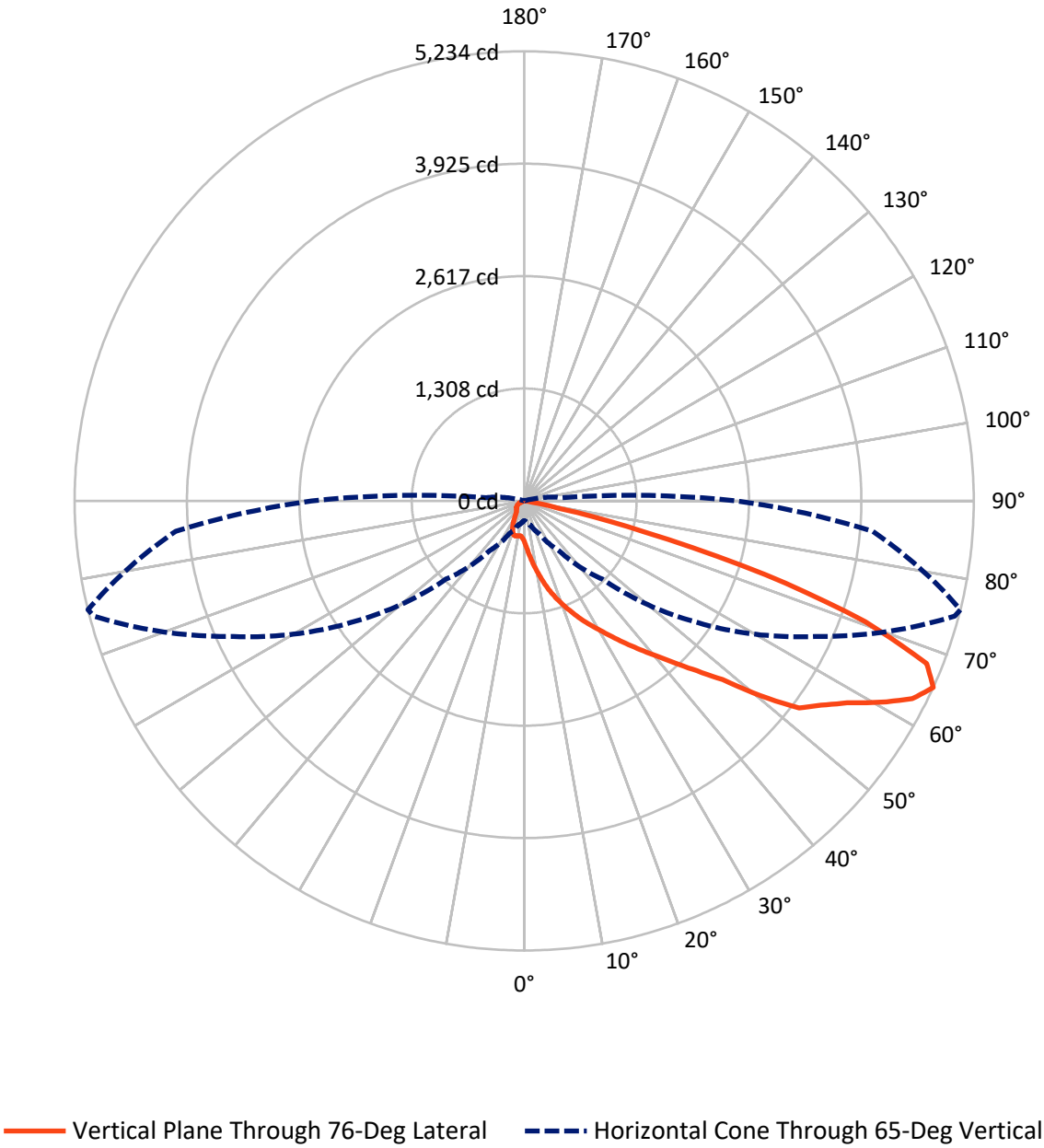
Luminous Intensity Polar Plot



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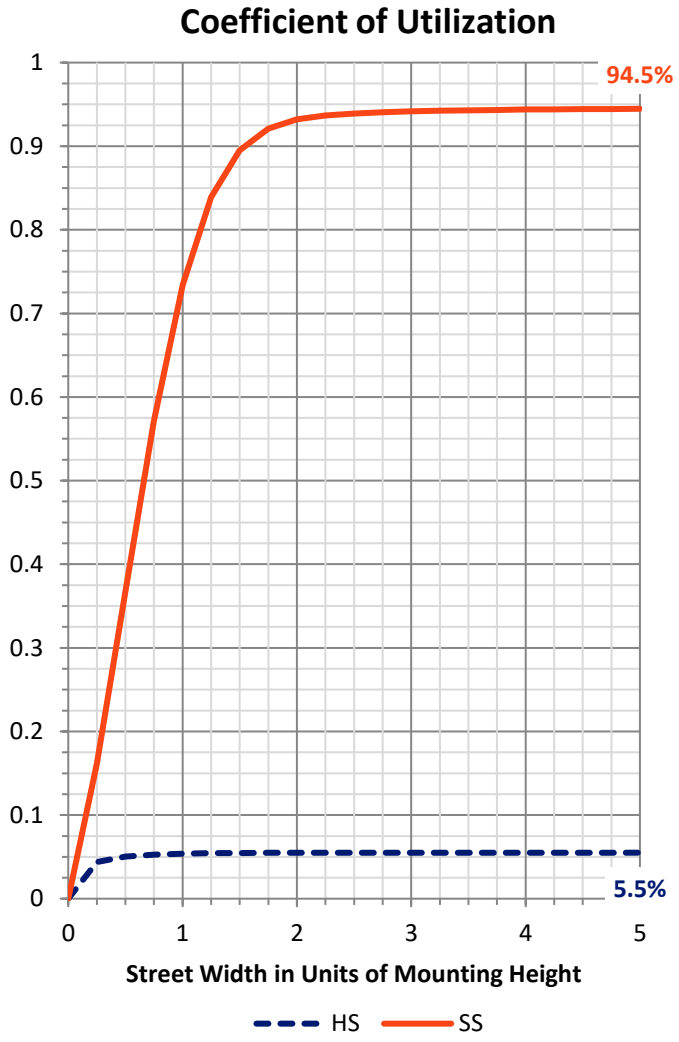
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	298.5	0.0	298.5
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	5099.0	0.0	5099.0
	% Fixture	94.5	0.0	94.5
Total	Lumens	5397.5	0.0	5397.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.1	1.1
10°-20°	220.6	4.1
20°-30°	450.0	8.3
30°-40°	800.4	14.8
40°-50°	1183.2	21.9
50°-60°	1354.7	25.1
60°-70°	1033.6	19.1
70°-80°	289.5	5.4
80°-90°	7.3	0.1
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°	5397.5	100.0
0°-180°	5397.5	100.0



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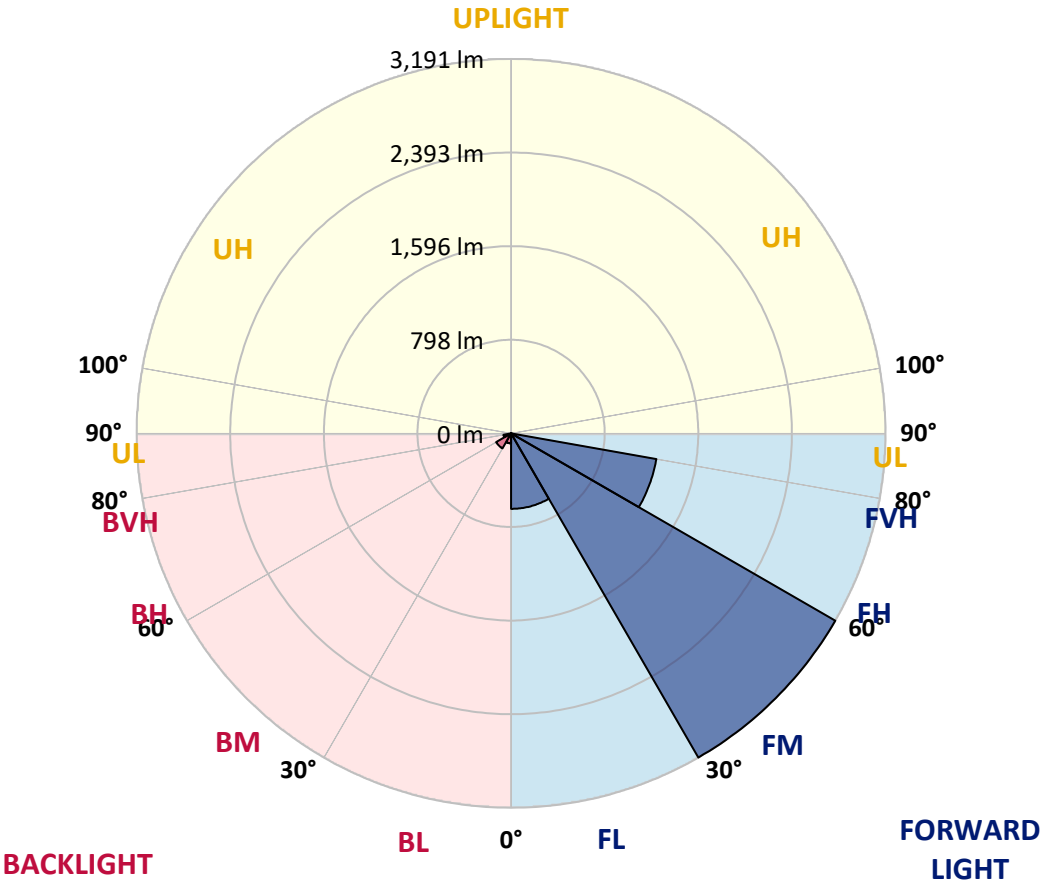
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	643.6	11.9			
FM	(30°-60°)	3191.1	59.1			
FH	(60°-80°)	1257.5	23.3			G1/1800
FVH	(80°-90°)	6.9	0.1			G0/10
BL	(0°-30°)	85.2	1.6	B0/110		
BM	(30°-60°)	147.2	2.7	B0/220		
BH	(60°-80°)	65.6	1.2	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: B0-U0-G1
Type II Short



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Scaled Data Report

REPORT NUMBER: P631564
CATALOG NUMBER: GWS-SA1F-830-U-T2R-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	477.9	477.9	477.9	477.9	477.9	477.9	477.9	477.9	477.9	*477.9*	477.9
2.5°	736.5	747.5	738.9	724.5	696.7	669.8	635.2	587.7	549.8	*545.0*	509.5
5°	994.6	993.7	974.9	956.2	927.0	880.9	811.3	723.1	638.1	*630.9*	551.3
7.5°	1148.1	1149.6	1139.0	1124.6	1095.9	1048.4	975.9	869.4	745.1	*730.7*	608.4
10°	1277.2	1276.7	1269.1	1262.3	1236.4	1204.8	1127.0	1010.0	860.3	*837.7*	672.2
12.5°	1374.1	1377.5	1381.3	1388.0	1377.0	1345.8	1272.4	1144.8	976.9	*951.9*	745.1
15°	1450.9	1451.9	1466.3	1492.2	1501.3	1485.0	1418.3	1275.3	1092.0	*1070.4*	829.1
17.5°	1473.9	1475.8	1500.3	1547.8	1595.8	1604.9	1554.5	1406.8	1205.2	*1182.2*	910.7
20°	1522.4	1526.7	1544.9	1586.7	1647.1	1696.1	1676.4	1539.7	1318.5	*1288.2*	994.1
22.5°	1675.0	1677.4	1671.1	1676.4	1707.6	1764.2	1776.2	1668.2	1434.6	*1402.4*	1084.3
25°	1937.4	1938.4	1894.7	1853.4	1829.9	1840.5	1866.9	1786.8	1549.7	*1518.1*	1168.3
27.5°	2209.9	2213.3	2161.0	2090.9	2007.0	1959.0	1951.3	1895.2	1665.8	*1630.8*	1251.3
30°	2466.6	2466.6	2411.4	2326.0	2213.8	2120.2	2065.0	2004.6	1790.1	*1751.7*	1336.2
32.5°	2697.4	2695.5	2625.0	2532.4	2421.5	2318.8	2202.7	2118.8	1928.3	*1885.6*	1434.1
35°	2887.9	2883.1	2803.0	2714.2	2595.7	2519.4	2389.9	2241.6	2078.0	*2035.3*	1534.9
37.5°	3031.8	3026.5	2953.1	2859.1	2749.2	2699.8	2591.4	2388.9	2235.8	*2197.0*	1646.7
40°	3110.0	3099.5	3048.6	2978.6	2886.4	2843.3	2798.2	2571.7	2421.5	*2373.1*	1778.6
42.5°	3133.1	3120.6	3087.0	3054.4	2998.7	2964.7	3013.1	2778.0	2625.4	*2583.7*	1929.3
45°	3064.9	3057.7	3054.9	3078.4	3088.4	3098.0	3217.5	3006.4	2850.5	*2818.8*	2118.8
47.5°	2900.8	2898.9	2924.3	3022.2	3128.7	3230.0	3439.6	3288.0	3142.2	*3108.1*	2383.6
50°	2597.6	2617.3	2688.3	2860.1	3073.1	3304.8	3647.4	3678.6	3614.3	*3564.4*	2729.1
52.5°	2123.6	2161.5	2320.8	2581.8	2887.9	3283.7	3743.4	3991.4	4057.1	*4005.3*	2976.6
55°	1666.3	1701.8	1843.9	2174.9	2583.2	3123.0	3747.7	4099.4	4242.8	*4194.8*	3144.1
57.5°	1241.2	1273.9	1402.9	1719.6	2168.7	2806.8	3645.0	4159.3	4463.1	*4432.3*	3408.5
60°	811.3	843.5	960.1	1236.9	1682.2	2346.2	3392.1	4146.9	4762.9	*4760.0*	3733.3
62.5°	450.0	475.5	559.9	775.8	1174.1	1817.0	2994.9	4021.6	5053.2	*5071.4*	4001.0
65°	*230.3*	*246.6*	*298.0*	*426.5*	*710.6*	*1288.2*	*2472.4*	*3734.7*	*5187.5*	*5233.6*	*4071.5*
67.5°	150.7	155.9	168.4	221.7	380.5	810.4	1860.6	3274.6	4998.5	*5052.2*	3835.0
70°	122.3	126.7	133.9	147.8	196.2	430.4	1222.0	2615.4	4176.6	*4213.1*	3053.9
72.5°	89.7	95.5	109.4	118.5	141.5	236.1	635.7	1716.7	2868.2	*2932.5*	1919.2
75°	66.2	69.6	81.1	93.6	115.6	149.2	243.3	902.5	1481.1	*1443.7*	806.1
77.5°	39.8	42.2	51.8	60.0	82.5	93.1	84.9	333.5	450.5	*423.7*	194.8
80°	19.7	22.1	34.1	45.1	52.8	37.4	35.5	93.1	100.3	*100.3*	48.9
82.5°	6.7	8.6	18.2	29.7	25.9	14.4	16.8	24.0	26.9	*28.3*	14.4
85°	0.0	0.0	4.3	8.6	3.8	1.9	4.3	5.3	6.7	*7.2*	4.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.4	*1.9*	1.9
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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CATALOG NUMBER: GWS-SA1F-830-U-T2R-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	477.9	477.9	477.9	477.9	477.9	477.9	477.9	477.9	477.9	477.9	477.9
2.5°	490.4	467.8	433.7	403.0	379.5	357.4	340.7	327.2	324.8	317.1	318.1
5°	512.4	471.6	408.8	360.3	326.3	303.2	284.0	269.6	263.4	257.2	252.4
7.5°	546.5	487.5	399.2	340.2	300.4	264.8	235.1	211.1	199.6	192.4	187.6
10°	588.2	509.5	399.7	328.2	269.2	214.9	174.2	147.8	135.3	131.5	131.0
12.5°	638.1	537.4	403.5	308.5	224.1	159.8	129.1	117.1	113.2	109.9	109.9
15°	690.9	568.6	403.5	272.5	170.8	124.7	111.8	104.1	99.3	97.4	96.4
17.5°	746.6	597.8	393.9	223.1	131.0	109.9	99.3	92.1	88.3	85.4	84.4
20°	806.1	625.7	369.9	170.8	112.3	98.4	88.3	81.1	77.2	74.4	74.4
22.5°	866.5	651.6	331.1	131.5	99.3	87.3	77.7	71.0	67.2	64.3	64.3
25°	922.6	668.8	281.2	108.4	89.7	77.7	69.1	62.4	58.1	56.1	55.2
27.5°	974.9	679.9	226.0	95.5	80.6	69.6	60.5	54.2	50.9	49.4	48.5
30°	1029.2	682.7	172.7	86.8	72.9	61.4	52.8	48.0	45.1	43.2	43.2
32.5°	1081.9	679.4	131.9	79.6	66.2	54.2	47.0	42.7	40.3	38.9	38.4
35°	1135.7	664.0	107.0	73.4	59.5	47.5	41.7	38.4	36.9	35.0	35.0
37.5°	1194.2	643.4	93.1	67.2	52.8	42.7	37.4	35.0	33.1	31.7	31.2
40°	1267.1	619.4	85.4	61.9	46.5	38.4	33.6	31.2	29.7	28.3	27.8
42.5°	1353.5	595.9	81.6	56.1	41.7	34.1	30.2	27.3	25.9	24.0	23.5
45°	1475.8	590.6	77.2	49.9	37.4	30.7	26.4	23.5	21.6	20.2	19.7
47.5°	1672.6	605.5	70.1	43.2	33.1	26.9	22.6	20.2	17.8	16.3	15.4
50°	1867.8	601.7	62.9	37.4	29.3	23.0	19.2	16.8	14.4	13.0	12.5
52.5°	1974.4	583.4	56.1	33.1	25.4	19.7	16.3	13.4	12.0	10.6	10.1
55°	2070.8	576.2	49.4	28.8	21.6	17.3	13.4	11.0	10.1	8.6	8.2
57.5°	2259.8	593.0	43.7	24.9	18.7	14.9	11.5	9.1	8.2	6.7	6.2
60°	2457.5	594.9	37.4	21.6	16.3	12.5	9.1	7.2	6.2	4.8	4.3
62.5°	2560.7	546.5	30.7	18.2	13.4	10.6	7.7	5.8	4.8	2.9	2.9
65°	*2474.3*	*441.9*	*25.9*	*14.9*	*10.6*	*8.2*	*5.8*	*4.3*	*2.9*	*1.4*	*0.5*
67.5°	2189.8	314.3	21.6	12.0	7.7	5.8	4.3	2.9	0.5	0.0	0.0
70°	1603.5	179.4	16.8	8.6	5.8	3.8	2.9	1.4	0.0	0.0	0.0
72.5°	985.5	96.0	12.5	5.8	4.3	2.9	2.4	1.0	0.0	0.0	0.0
75°	373.8	46.1	7.7	3.8	3.4	2.4	1.4	0.5	0.0	0.0	0.0
77.5°	101.2	22.6	4.3	2.9	2.4	1.4	1.0	0.0	0.0	0.0	0.0
80°	26.4	10.6	2.9	1.9	1.4	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	9.1	4.8	1.4	1.4	1.0	0.5	0.0	0.0	0.0	0.0	0.0
85°	3.8	1.9	1.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.4	0.5	0.5	0.5	0.5	0.0	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

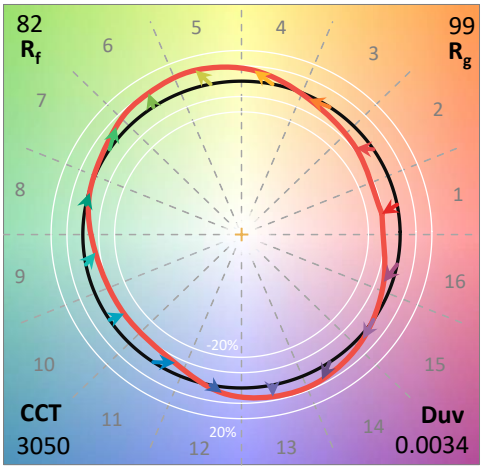
Test Information

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

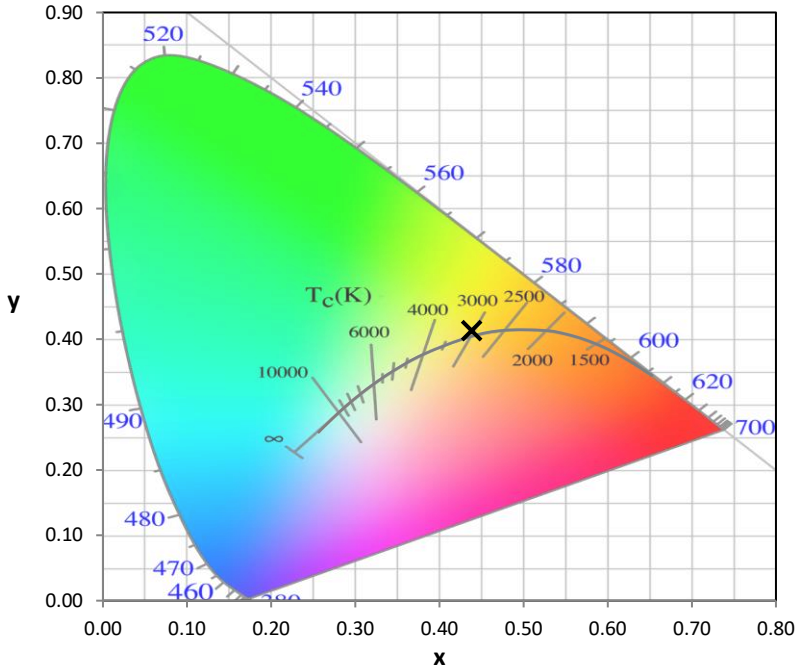
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

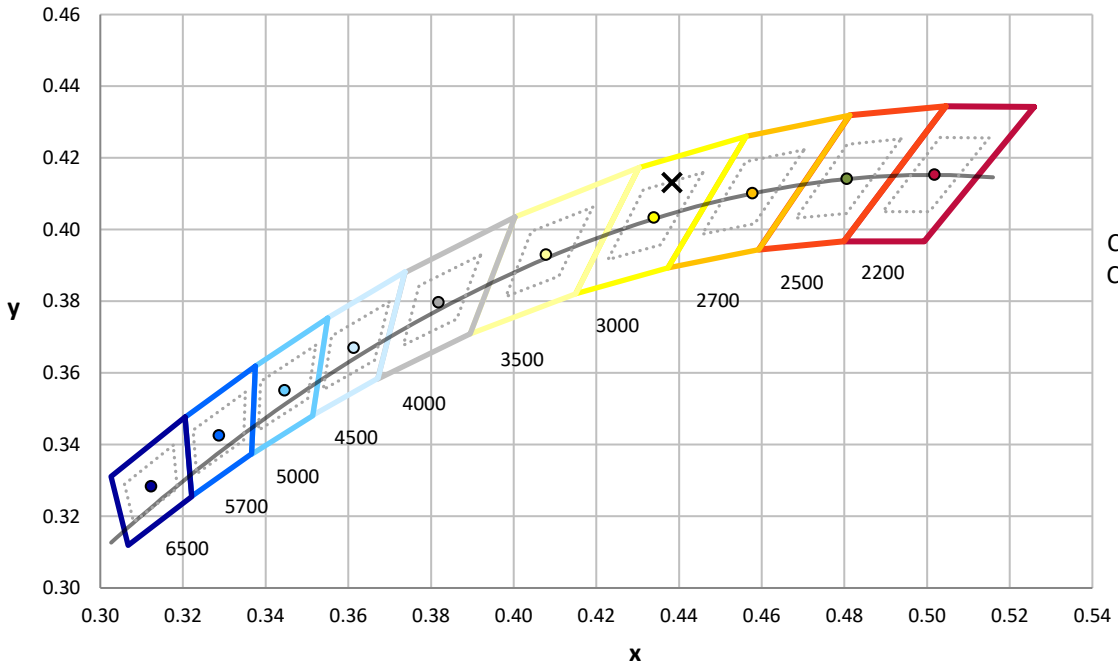
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

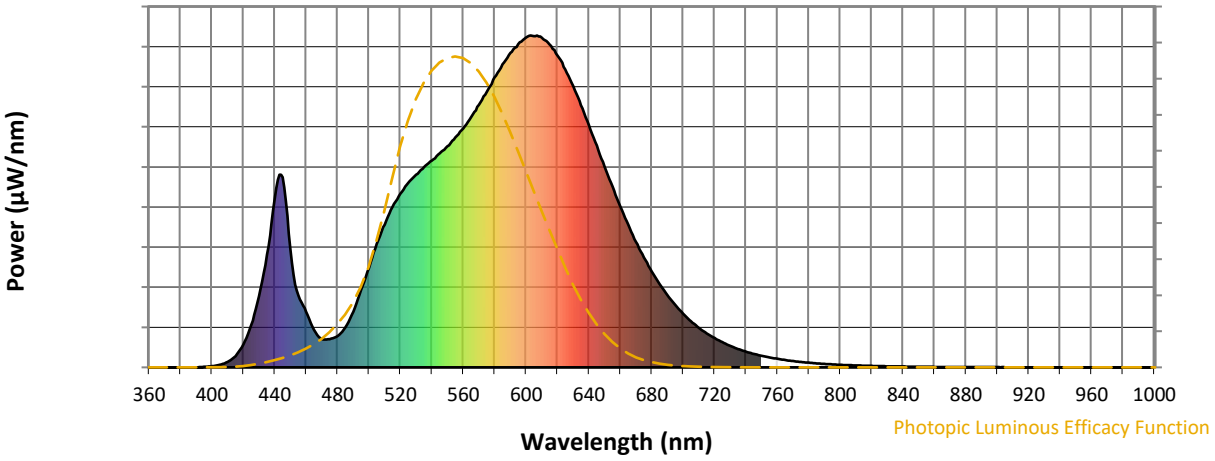


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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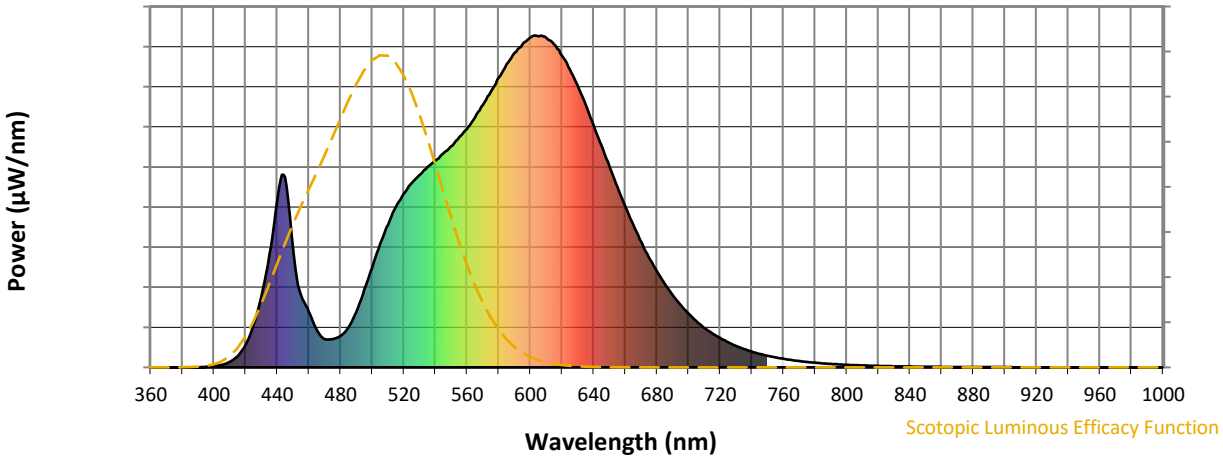
Scotopic Flux vs. Wavelength



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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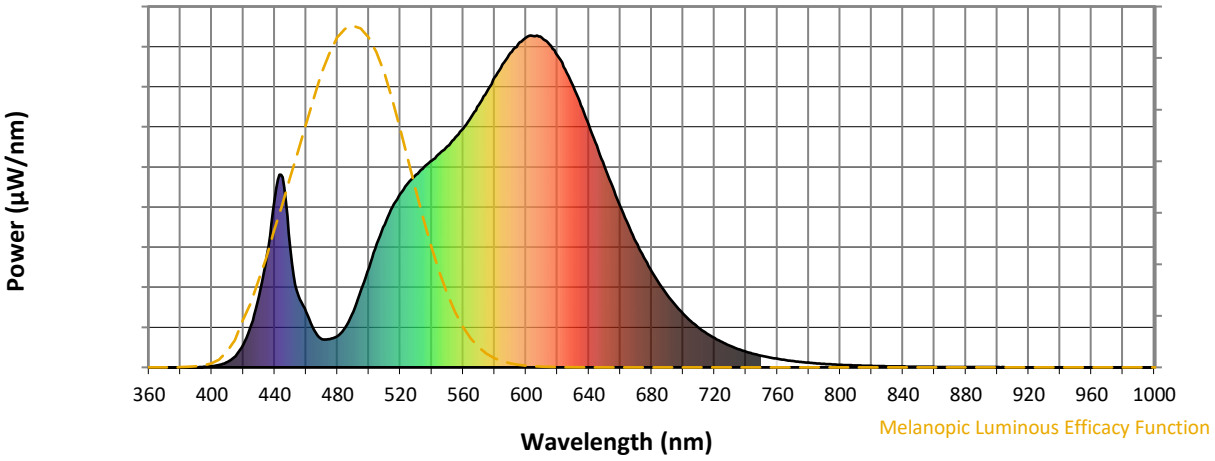
Melanopic Flux vs. Wavelength



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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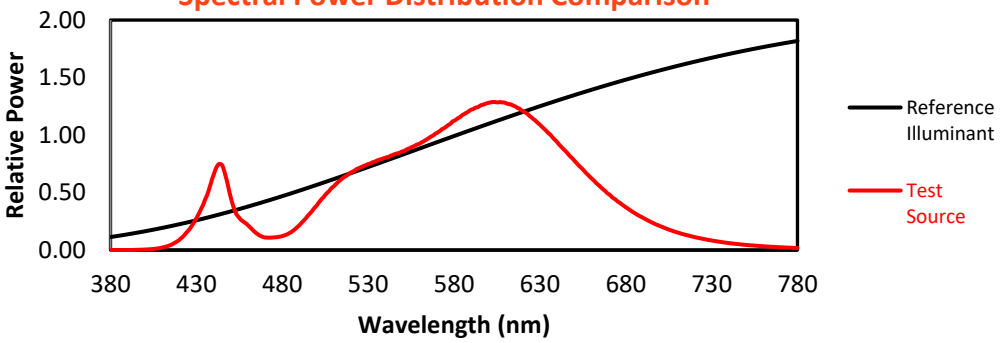
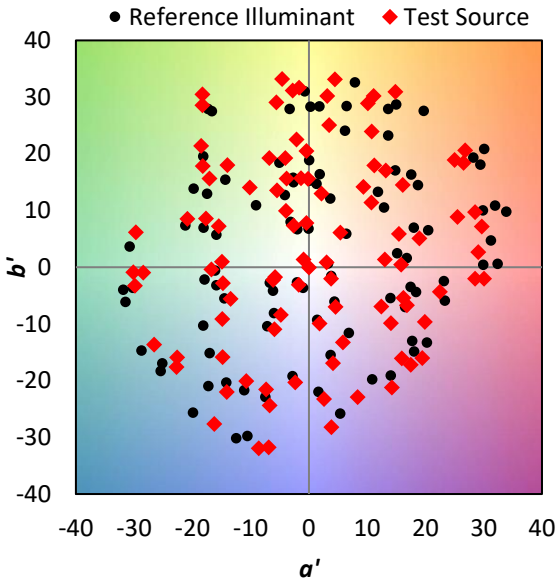
Summary

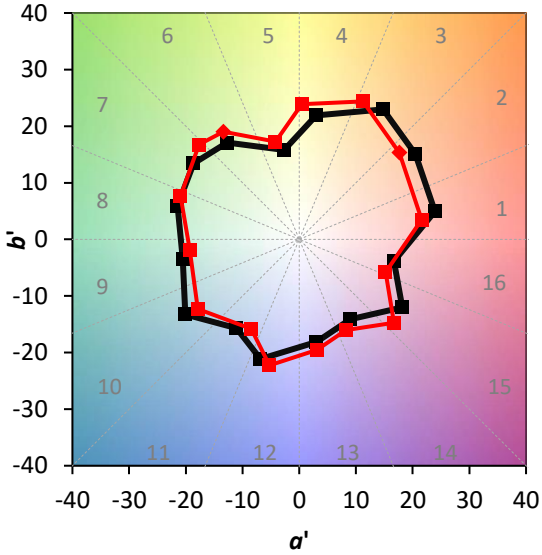
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

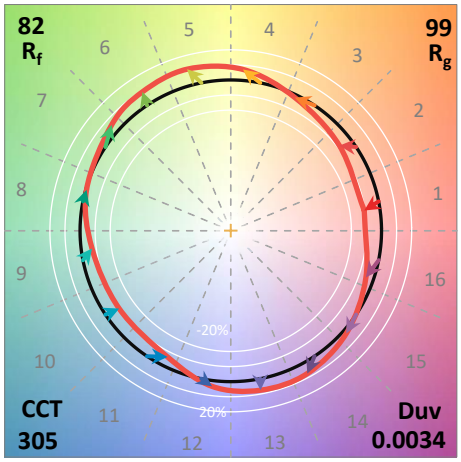
Spectral Power Distribution Comparison

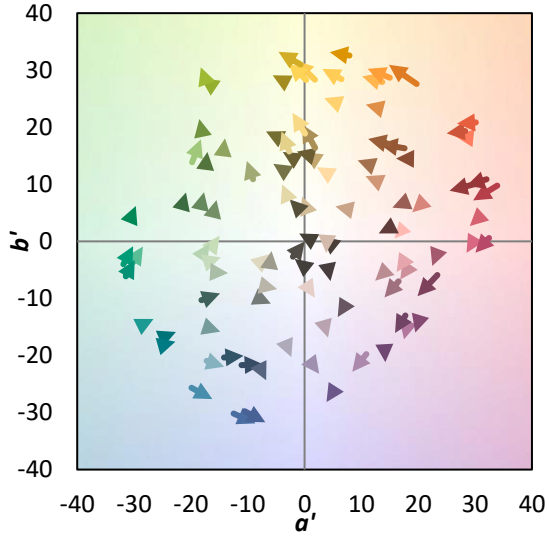


Color Vector Graphics









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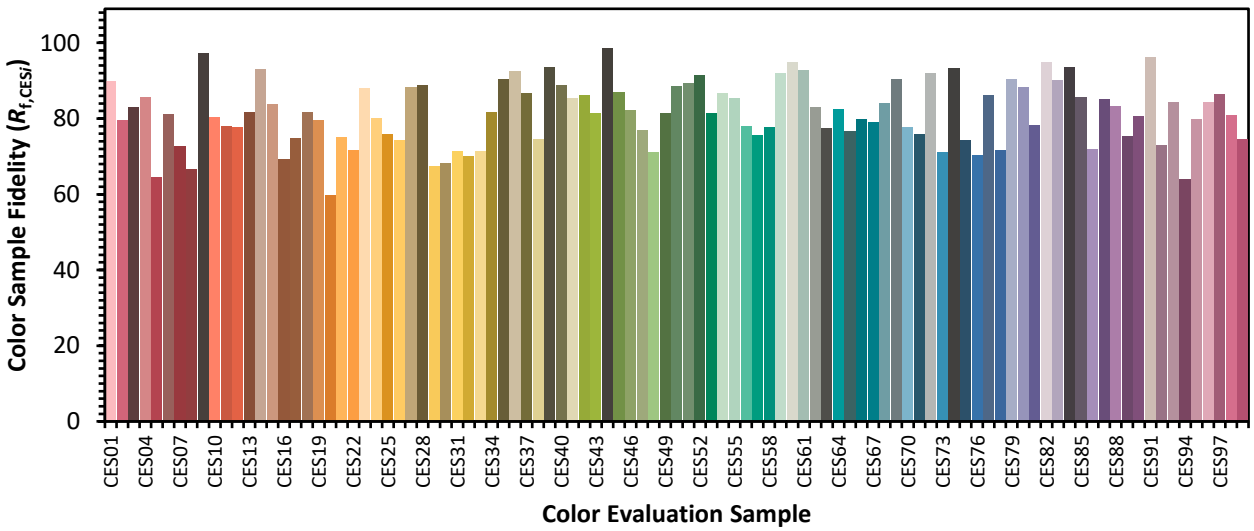
Individual Sample Fidelity Index ($R_{f,i}$)

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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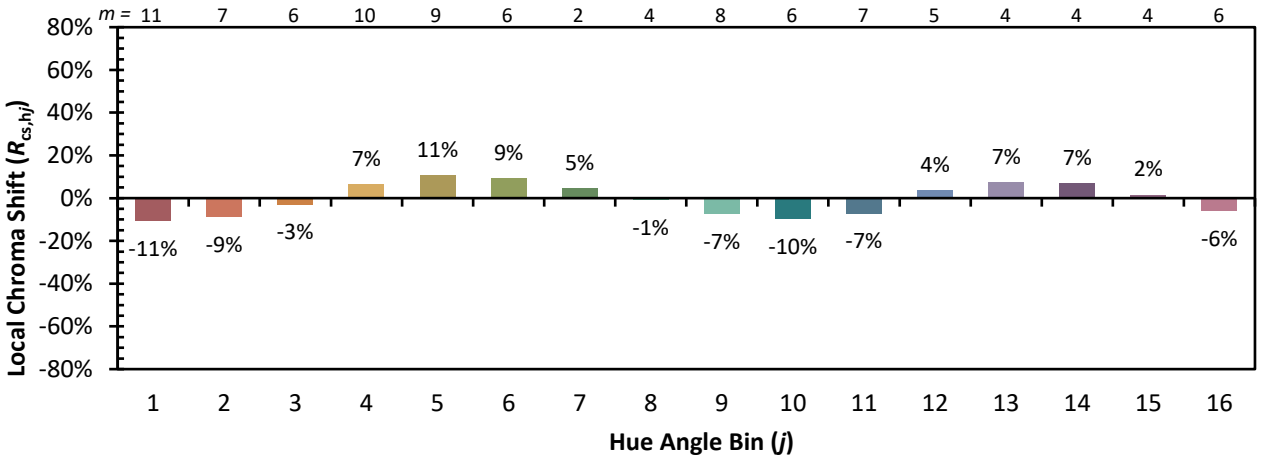
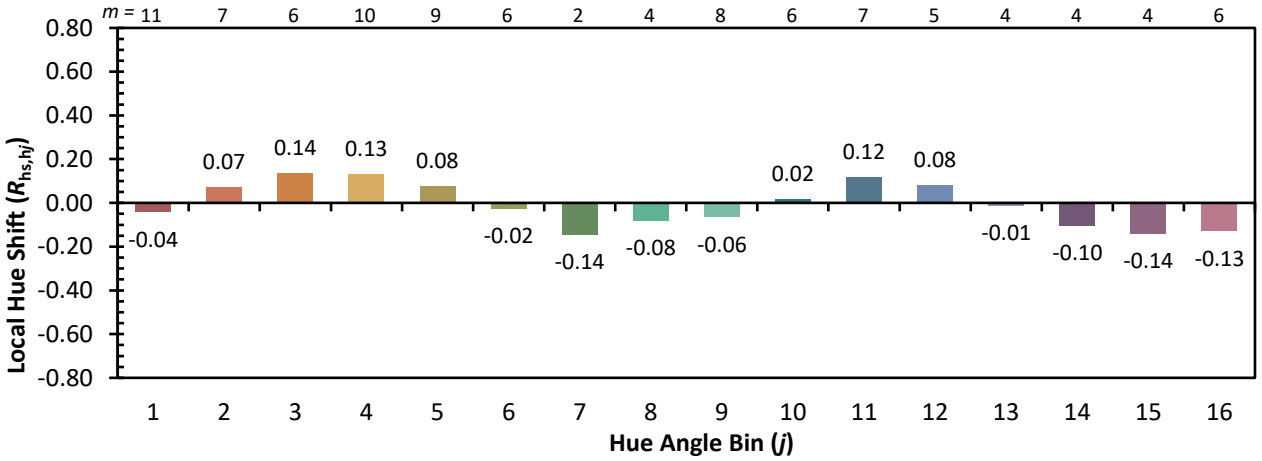
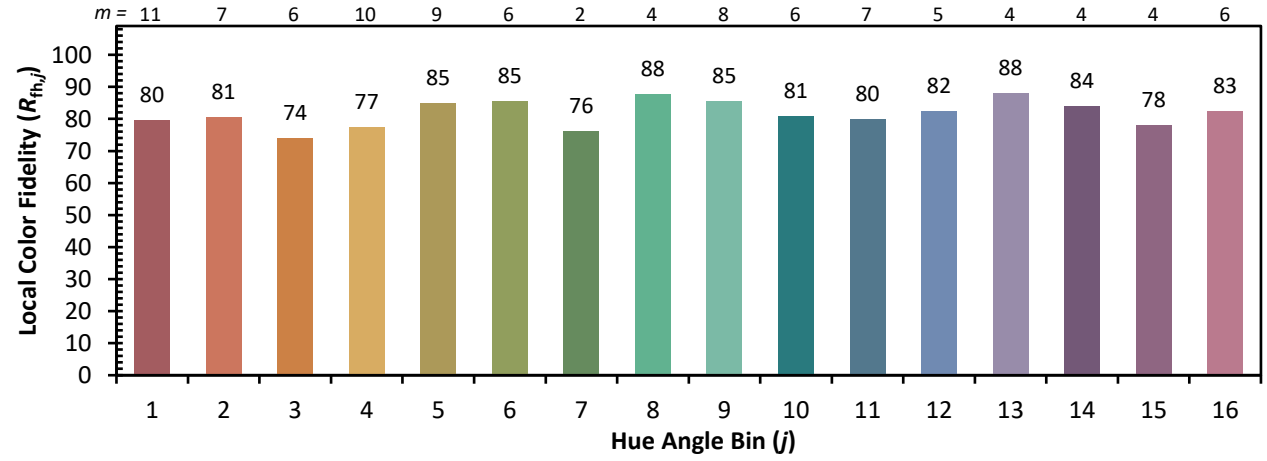
Color Rendition by Hue-Angle Bin







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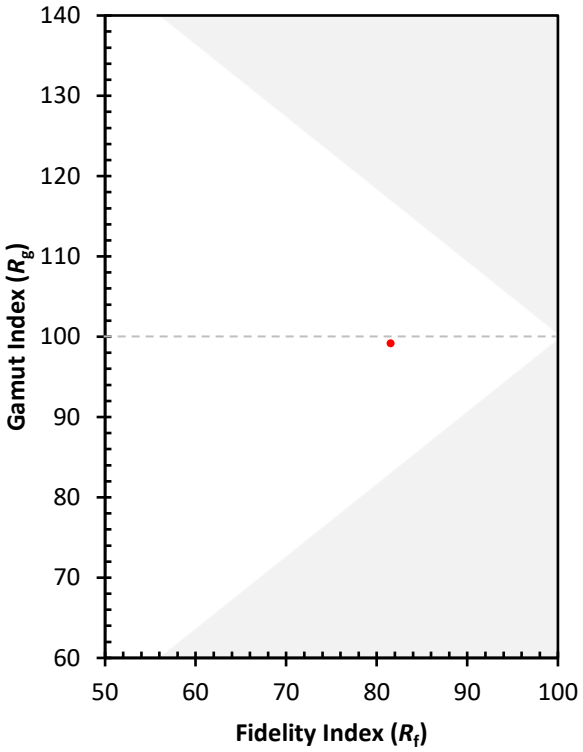
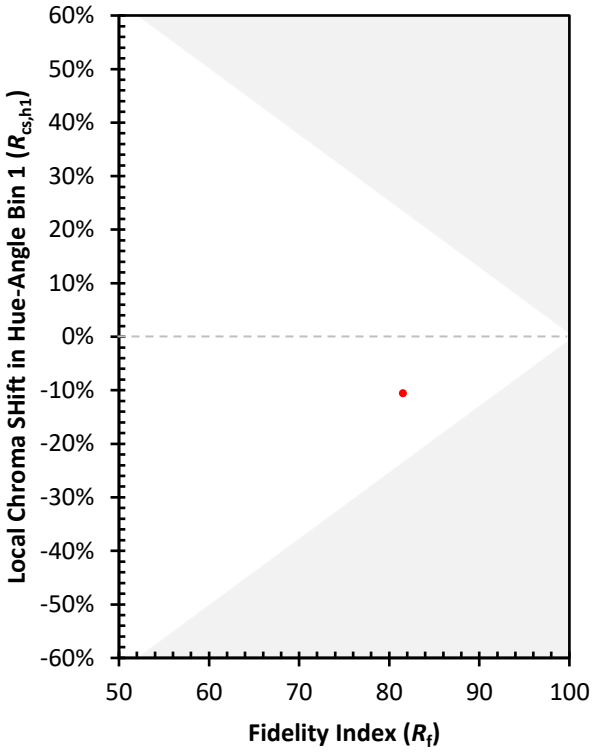
Measure Comparisons





(END OF REPORT)