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: P630587

Luminaire Tested: GWS-SA1D-830-U-T4W-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:	P630587
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1D-830-U-T4W-W
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4775.7 lumens
Efficiency:	N/A
Efficacy:	107.8 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	44.3
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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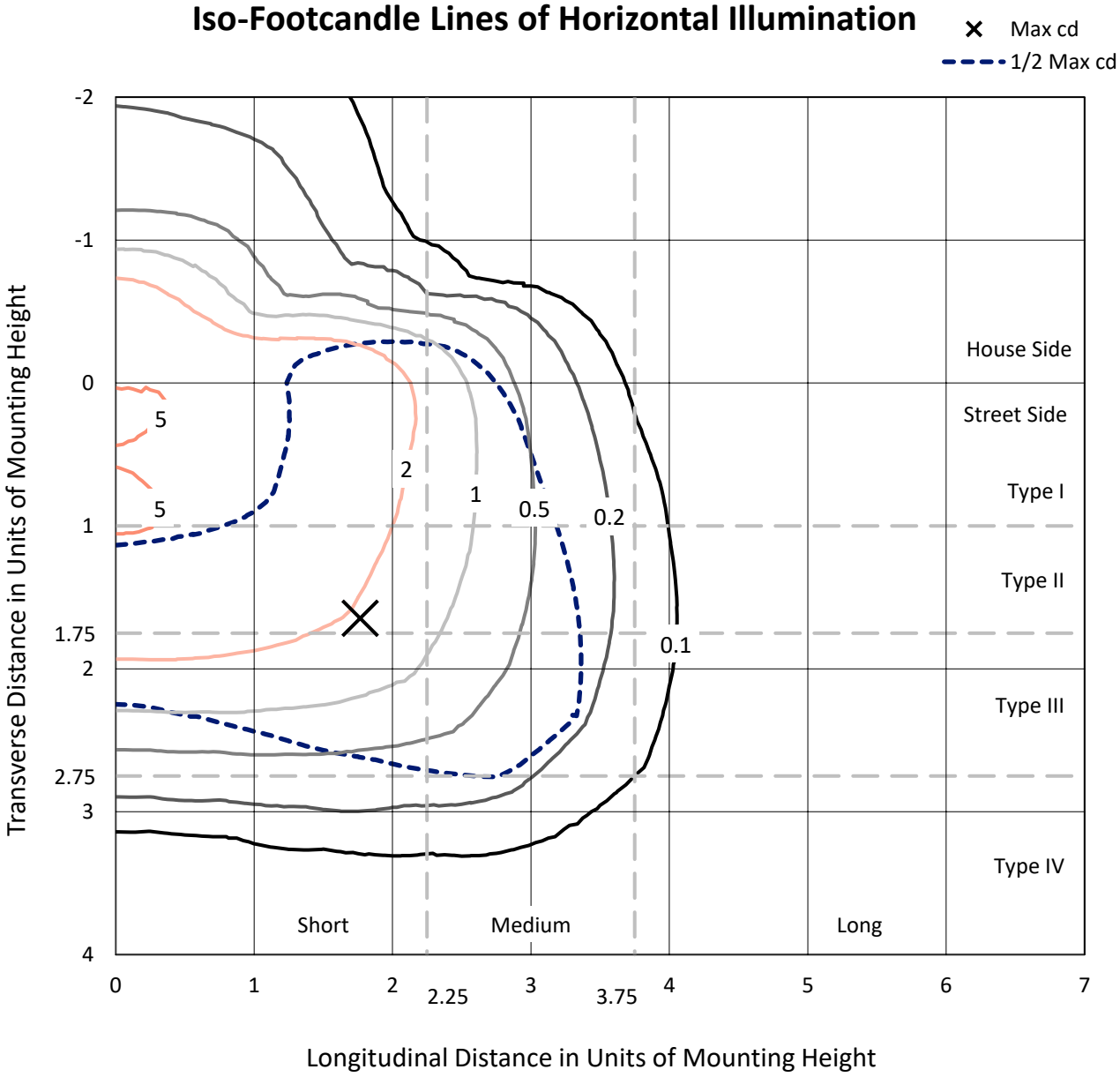
Scaled Data Report

REPORT NUMBER: P630587
CATALOG NUMBER: GWS-SA1D-830-U-T4W-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 6 fc
Type III - Short - N/A

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REPORT NUMBER: P630587
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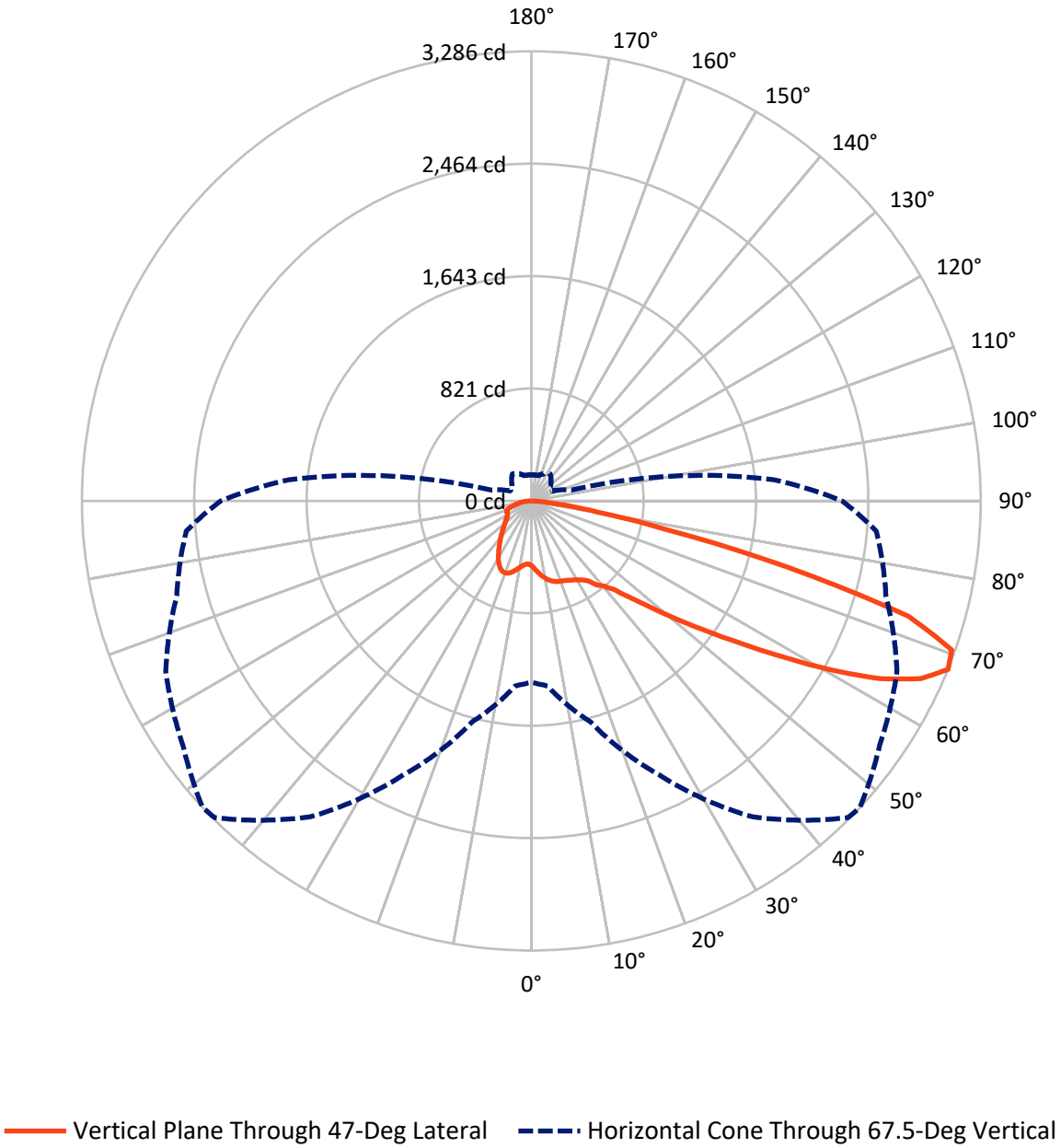
Luminous Intensity Polar Plot



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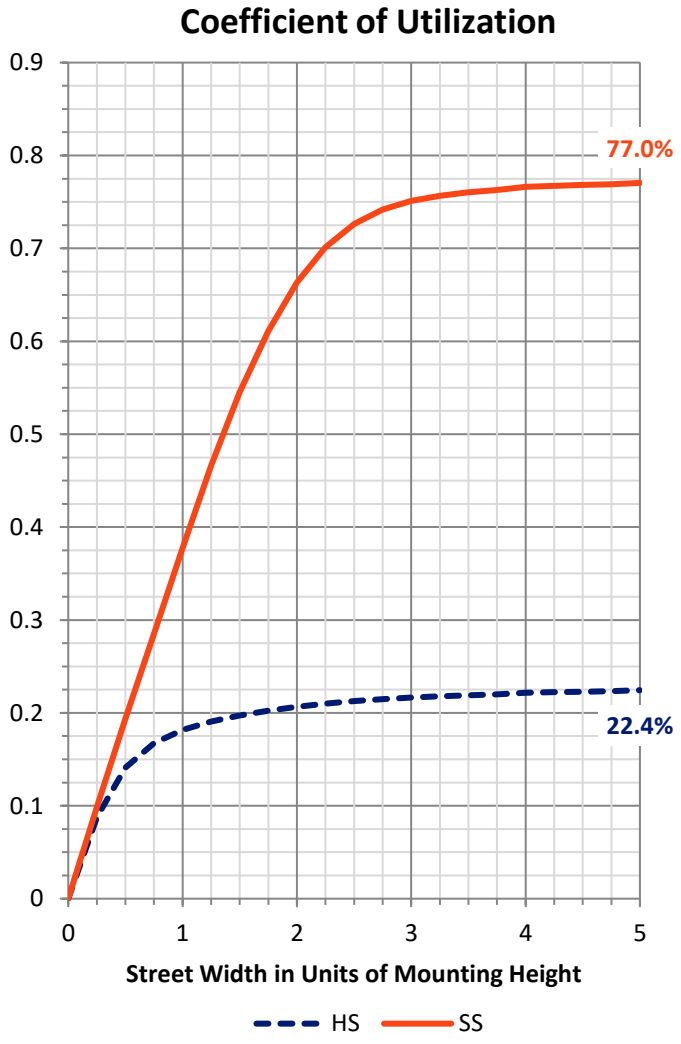
REPORT NUMBER: P630587
CATALOG NUMBER: GWS-SA1D-830-U-T4W-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1088.4	0.0	1088.4
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	3687.3	0.0	3687.3
	% Fixture	77.2	0.0	77.2
Total	Lumens	4775.7	0.0	4775.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	1.0
10°-20°	161.2	3.4
20°-30°	274.0	5.7
30°-40°	401.4	8.4
40°-50°	611.5	12.8
50°-60°	1094.2	22.9
60°-70°	1460.1	30.6
70°-80°	660.3	13.8
80°-90°	64.7	1.4
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°	4775.7	100.0
0°-180°	4775.7	100.0



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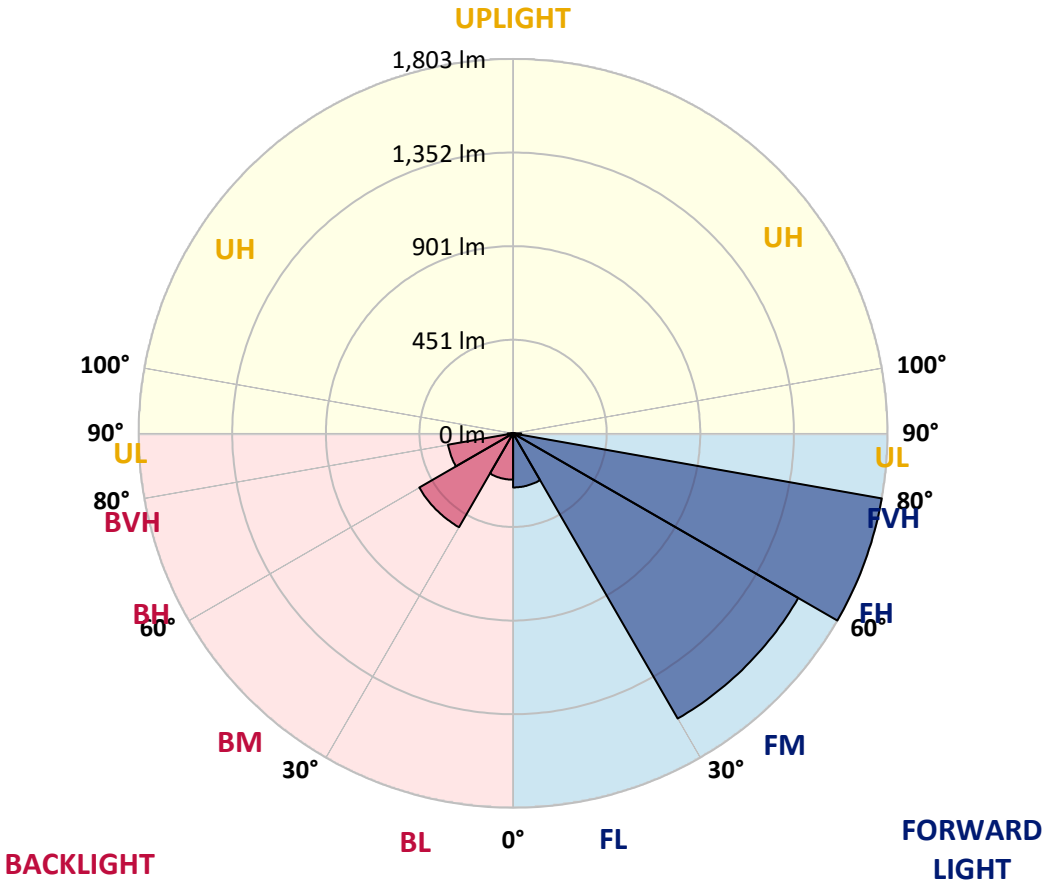
REPORT NUMBER: P630587
CATALOG NUMBER: GWS-SA1D-830-U-T4W-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	260.5	5.5			
FM	(30°-60°)	1585.6	33.2			
FH	(60°-80°)	1802.8	37.7			G2/5000
FVH	(80°-90°)	38.5	0.8			G1/100
BL	(0°-30°)	223.1	4.7	B1/500		
BM	(30°-60°)	521.5	10.9	B1/1000		
BH	(60°-80°)	317.6	6.6	B1/500		G1/500
BVH	(80°-90°)	26.2	0.5			G1/100
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 Short



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Scaled Data Report

REPORT NUMBER: P630587
CATALOG NUMBER: GWS-SA1D-830-U-T4W-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	473.4	473.4	473.4	473.4	473.4	473.4	*473.4*	473.4	473.4	473.4	473.4
2.5°	504.8	506.6	506.2	503.5	501.7	498.6	*499.0*	494.1	486.9	482.1	476.5
5°	549.4	552.2	548.7	544.2	537.3	527.3	*526.3*	515.2	501.4	491.7	481.7
7.5°	588.1	589.8	585.6	578.1	568.0	554.6	*552.2*	539.0	521.8	506.6	492.1
10°	618.1	620.2	614.7	604.6	591.5	578.1	*576.3*	562.9	544.6	526.6	508.3
12.5°	643.7	644.4	638.5	625.0	610.9	597.0	*595.3*	582.9	566.0	547.7	527.6
15°	658.5	658.9	651.6	636.8	623.3	611.2	*610.2*	599.5	583.9	566.7	545.2
17.5°	657.5	658.2	653.0	639.9	628.1	620.9	*619.8*	612.9	600.8	585.3	563.9
20°	644.7	645.4	641.9	633.3	627.1	625.0	*625.4*	623.3	616.0	603.3	581.5
22.5°	634.7	635.7	632.6	626.4	625.7	630.5	*631.6*	632.6	629.2	617.8	596.7
25°	639.5	641.2	636.4	627.8	629.2	639.9	*641.9*	645.4	642.6	633.0	614.7
27.5°	673.0	674.0	661.6	644.0	639.9	651.3	*654.4*	659.9	657.8	648.8	634.7
30°	750.7	750.0	723.4	680.3	663.0	667.5	*669.9*	677.8	678.5	672.7	659.2
32.5°	860.2	856.7	815.6	746.9	696.8	685.8	*688.6*	699.3	707.2	701.0	682.7
35°	975.9	972.7	927.5	847.1	759.3	721.0	*717.9*	726.2	738.3	721.0	694.8
37.5°	1086.0	1081.2	1034.9	935.5	836.3	782.8	*778.3*	770.0	762.8	729.6	709.6
40°	1208.2	1202.7	1162.3	1049.7	921.3	830.1	*818.7*	785.9	779.4	758.3	748.3
42.5°	1338.8	1338.8	1305.3	1194.4	1023.9	897.8	*883.0*	833.6	840.5	826.7	814.9
45°	1469.3	1473.1	1446.5	1340.2	1160.9	1025.6	*1001.8*	931.7	948.2	942.0	936.1
47.5°	1580.5	1587.7	1582.6	1489.0	1328.8	1181.0	*1144.7*	1071.8	1107.4	1122.3	1138.8
50°	1700.3	1708.3	1703.1	1666.1	1525.2	1369.2	*1336.7*	1261.4	1322.5	1367.1	1421.3
52.5°	1878.2	1889.5	1846.4	1832.2	1763.9	1582.9	*1553.9*	1468.3	1579.1	1653.0	1773.9
55°	2028.4	2028.0	2012.8	2045.3	2020.1	1844.3	*1812.2*	1734.5	1876.1	1954.5	2131.3
57.5°	2098.1	2106.4	2158.5	2250.4	2300.8	2163.7	*2133.0*	2053.6	2194.8	2235.6	2426.5
60°	2134.0	2144.4	2245.2	2426.9	2562.6	2512.5	*2500.4*	2399.2	2478.7	2473.8	2675.5
62.5°	2083.6	2104.3	2266.3	2507.7	2749.4	2863.0	*2859.2*	2706.2	2720.0	2672.7	2829.8
65°	1852.3	1874.7	2128.8	2467.3	2856.1	3129.6	*3130.6*	2984.2	2905.5	2769.4	2803.9
67.5°	*1324.6*	*1356.7*	*1671.0*	*2207.6*	*2818.4*	*3273.6*	*3285.6*	*3110.2*	*2949.0*	*2683.8*	*2531.8*
70°	722.0	745.5	991.7	1604.7	2479.3	3239.0	*3261.5*	3049.5	2757.0	2321.5	1948.9
72.5°	328.0	335.6	461.3	880.5	1693.8	2788.1	*2882.0*	2721.4	2264.2	1714.8	1239.3
75°	150.2	153.7	201.0	421.3	885.0	1865.7	*1931.7*	2027.0	1575.7	1082.9	646.1
77.5°	94.3	95.3	114.3	192.7	441.3	931.3	*1000.7*	1206.9	922.7	535.9	270.0
80°	55.6	56.6	71.1	104.3	207.2	426.1	*492.1*	477.2	433.7	231.4	122.9
82.5°	28.0	29.0	41.1	59.4	112.9	169.5	*199.6*	200.6	161.6	125.3	69.4
85°	10.0	10.4	13.5	23.5	48.0	55.9	*62.5*	76.3	79.1	72.9	33.5
87.5°	0.0	0.0	0.3	0.7	1.4	5.5	*5.9*	11.0	23.1	25.9	13.5
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: P630587
CATALOG NUMBER: GWS-SA1D-830-U-T4W-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	473.4	473.4	473.4	473.4	473.4	473.4	473.4	473.4	473.4	473.4	473.4
2.5°	474.8	469.6	467.9	466.2	463.4	462.4	460.3	458.2	458.2	456.2	455.1
5°	477.2	470.3	465.8	463.8	462.0	463.1	463.1	463.8	466.2	464.8	465.5
7.5°	485.9	477.9	471.7	470.0	470.0	474.1	476.9	480.3	484.8	485.5	485.5
10°	501.0	491.7	485.2	484.1	485.9	491.7	495.9	500.0	505.5	505.9	506.6
12.5°	517.6	508.3	501.7	503.1	504.8	512.4	516.9	520.4	525.9	525.9	525.6
15°	534.9	524.5	519.0	521.8	526.9	535.6	536.3	536.6	539.4	538.7	538.3
17.5°	552.8	541.8	537.7	541.8	547.3	551.5	548.0	543.2	542.1	540.8	540.1
20°	570.5	559.1	557.3	560.4	562.2	558.7	548.0	539.0	534.9	532.8	532.1
22.5°	585.6	576.0	574.9	574.9	566.3	554.2	538.3	526.3	520.7	518.0	517.3
25°	603.6	594.6	592.9	583.6	561.5	539.4	518.0	506.9	502.4	501.0	501.4
27.5°	624.7	618.5	612.9	586.3	547.7	513.1	489.0	484.1	482.4	484.1	485.2
30°	650.6	644.4	631.9	582.9	525.6	478.9	455.8	455.5	460.6	465.1	465.8
32.5°	671.6	668.9	648.5	571.8	494.5	441.3	421.6	423.0	432.3	438.5	439.6
35°	688.2	692.7	662.3	553.5	457.5	405.7	390.2	390.9	396.1	404.7	405.1
37.5°	711.7	726.9	674.7	525.6	415.1	375.0	360.9	355.7	355.0	357.4	358.1
40°	759.0	781.8	683.7	484.8	374.0	347.4	331.5	321.5	312.9	306.3	304.2
42.5°	830.5	856.7	688.9	435.4	337.4	320.1	302.1	289.4	274.2	260.4	255.5
45°	961.7	970.3	688.9	383.0	304.9	294.6	276.6	261.4	242.1	225.8	222.4
47.5°	1171.6	1144.0	689.6	332.2	276.2	272.1	256.6	239.3	217.9	204.4	202.4
50°	1488.0	1390.9	703.7	290.1	252.4	253.1	241.7	222.7	203.4	193.4	191.6
52.5°	1846.4	1695.1	741.7	259.0	232.4	237.6	231.4	213.1	195.8	187.2	185.4
55°	2183.4	1974.8	774.2	236.9	215.5	224.5	224.1	207.2	191.6	183.0	182.0
57.5°	2470.0	2166.5	769.4	218.9	201.0	212.4	217.5	203.4	188.9	181.6	180.6
60°	2648.2	2268.0	700.6	202.4	189.9	203.7	213.7	202.4	190.3	188.5	188.9
62.5°	2725.5	2249.4	568.7	189.9	182.7	199.6	217.9	209.6	203.0	207.2	209.6
65°	2605.4	2089.1	418.5	180.6	175.8	200.6	227.6	221.0	203.0	205.8	206.8
67.5°	*2271.8*	*1778.4*	*302.5*	*171.3*	*167.1*	*203.7*	*241.4*	*219.3*	*191.3*	*191.3*	*189.2*
70°	1637.1	1279.0	219.6	162.0	158.5	199.2	242.1	207.5	177.8	176.8	171.6
72.5°	985.2	754.5	171.3	151.6	145.4	176.8	226.9	193.7	164.7	156.1	149.9
75°	511.8	378.1	143.6	140.2	124.7	149.9	207.5	172.3	140.9	133.3	129.8
77.5°	219.3	176.8	123.3	125.0	103.6	126.0	167.5	149.2	125.0	115.3	112.2
80°	108.1	100.5	97.4	100.1	82.9	97.4	144.3	130.5	106.0	95.0	90.5
82.5°	61.8	58.7	70.1	71.1	59.0	81.5	121.9	110.5	87.7	75.6	68.4
85°	28.7	30.7	42.5	42.8	36.6	55.9	79.8	62.2	46.6	38.7	36.9
87.5°	11.4	13.5	18.6	18.3	10.7	10.4	6.9	3.8	3.1	2.8	2.4
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

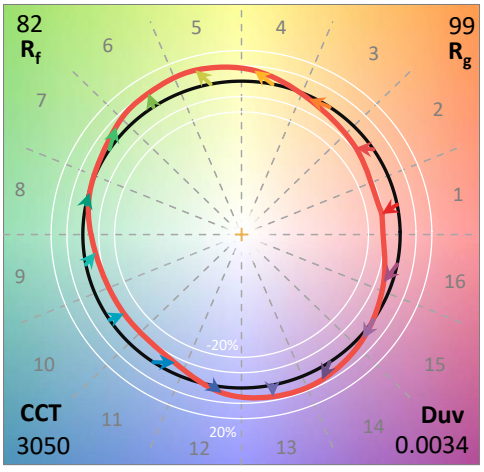
Test Information

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

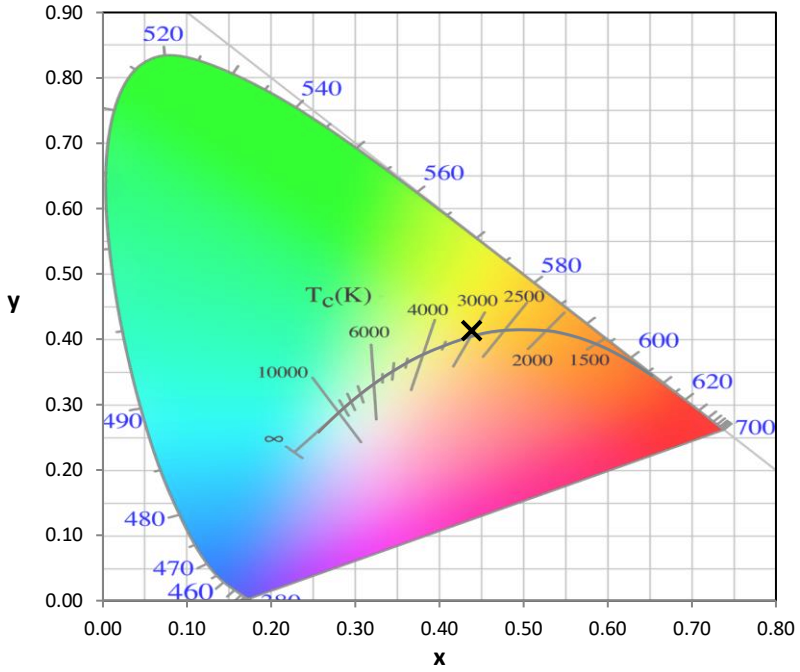
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

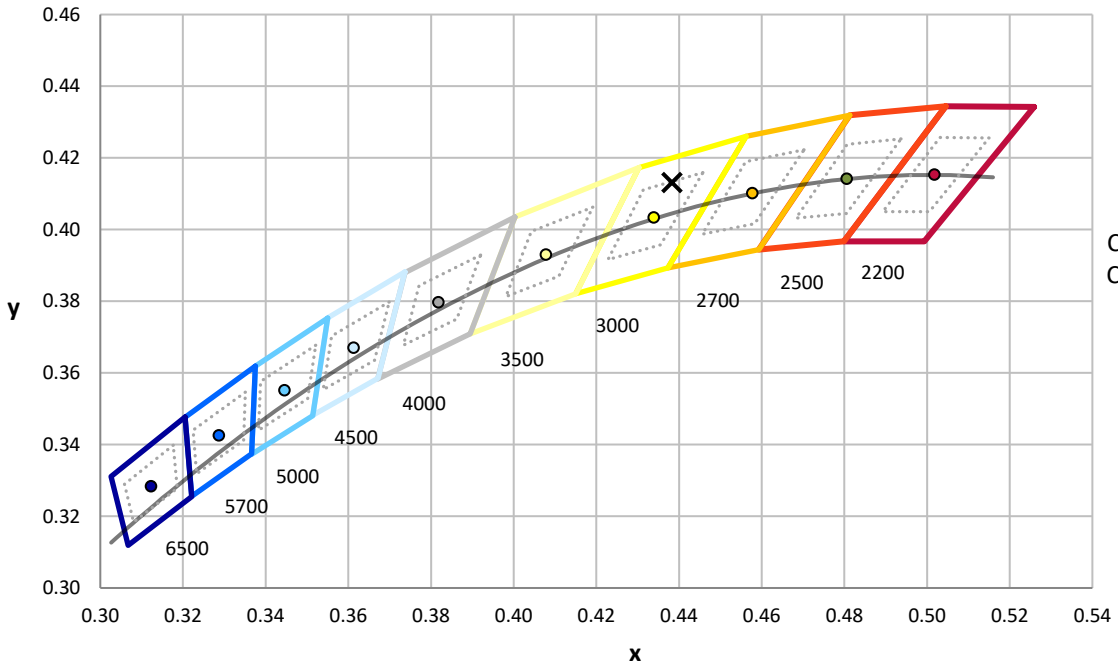
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

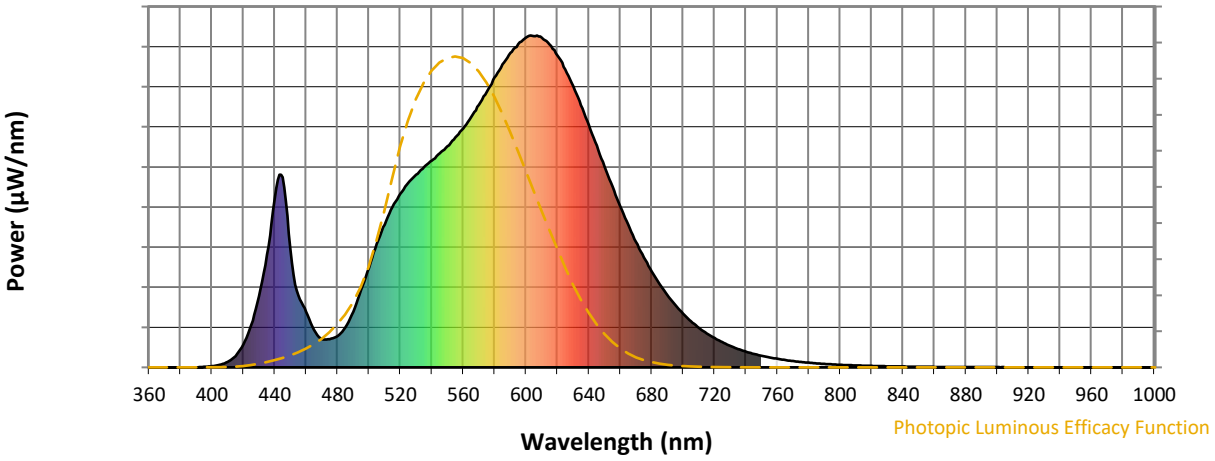


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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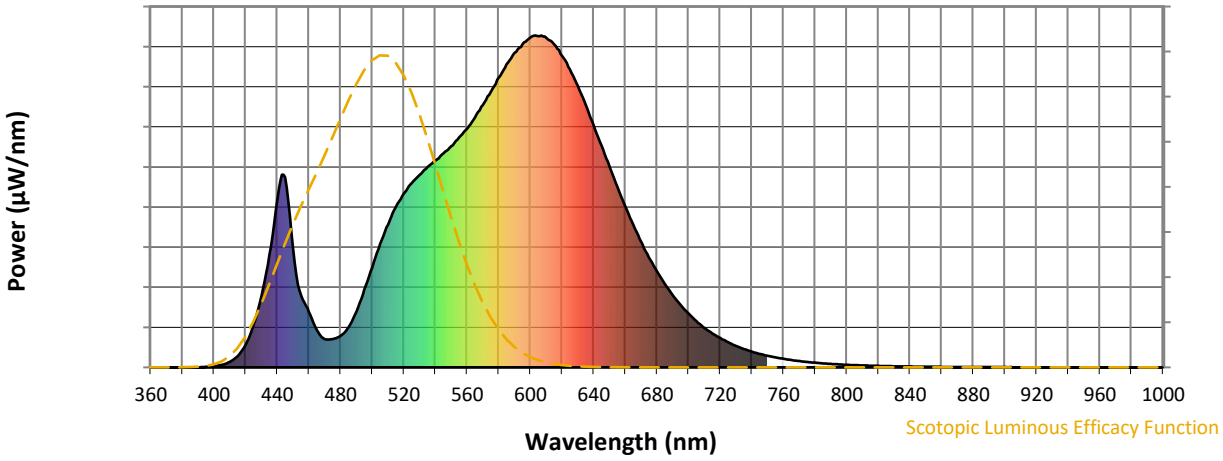
Scotopic Flux vs. Wavelength



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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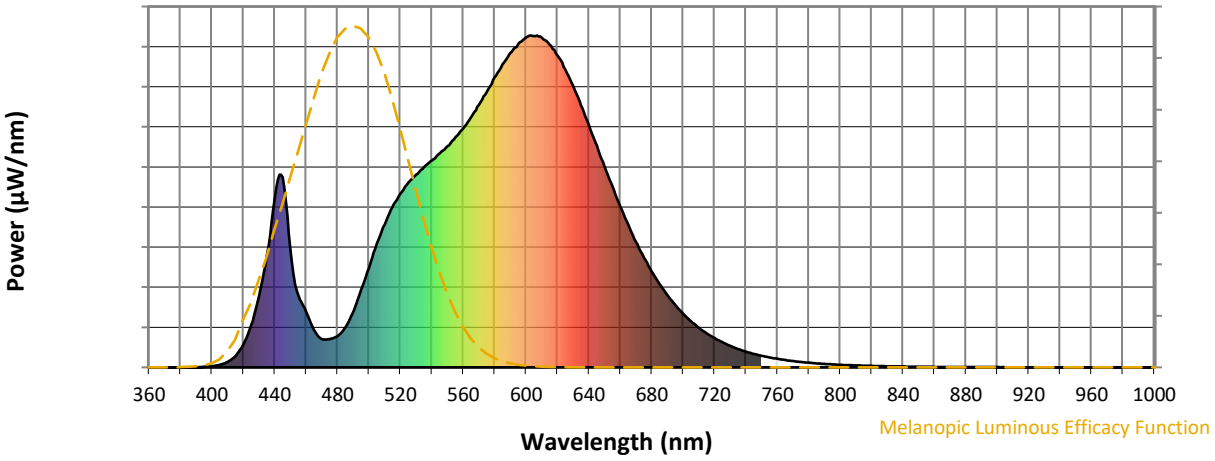
Melanopic Flux vs. Wavelength



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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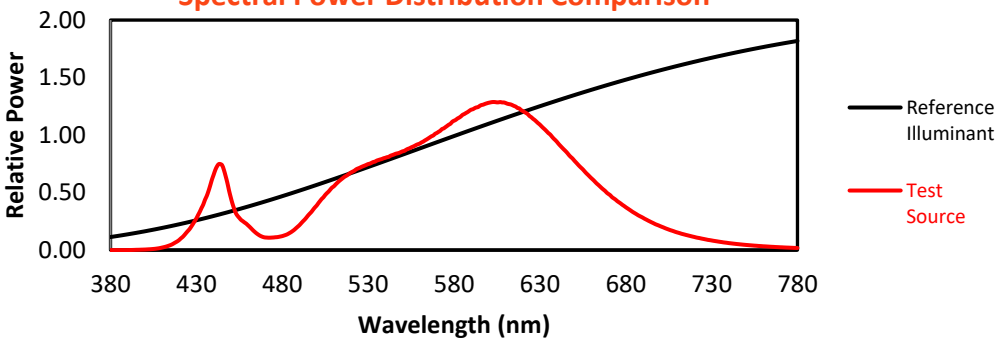
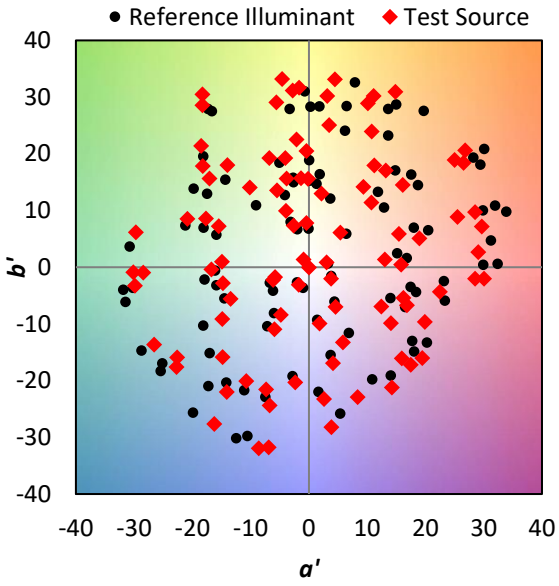
Summary

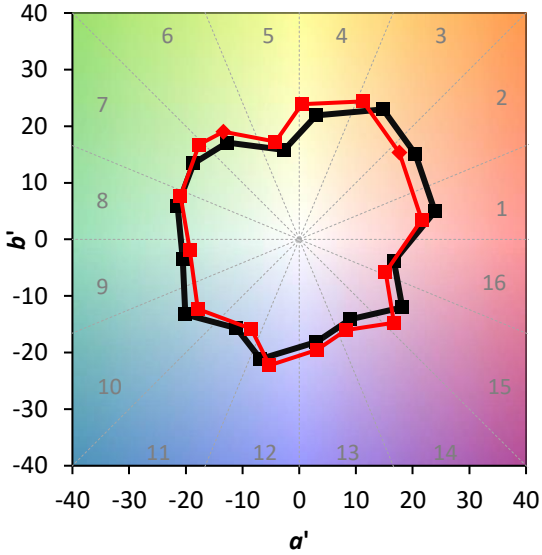
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

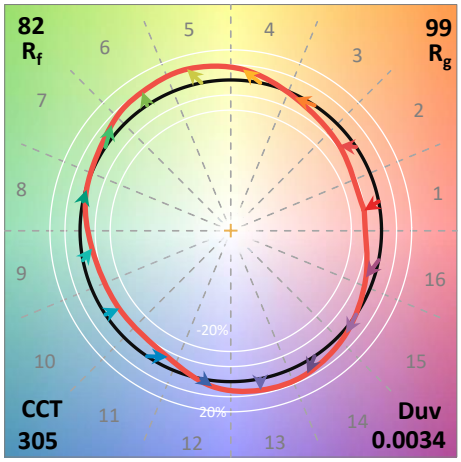
Spectral Power Distribution Comparison

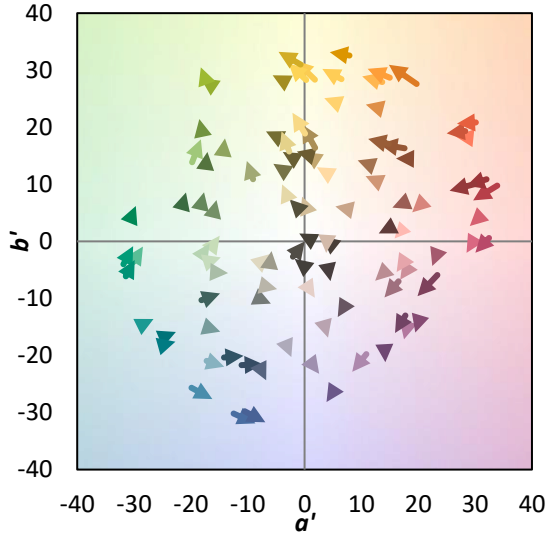


Color Vector Graphics









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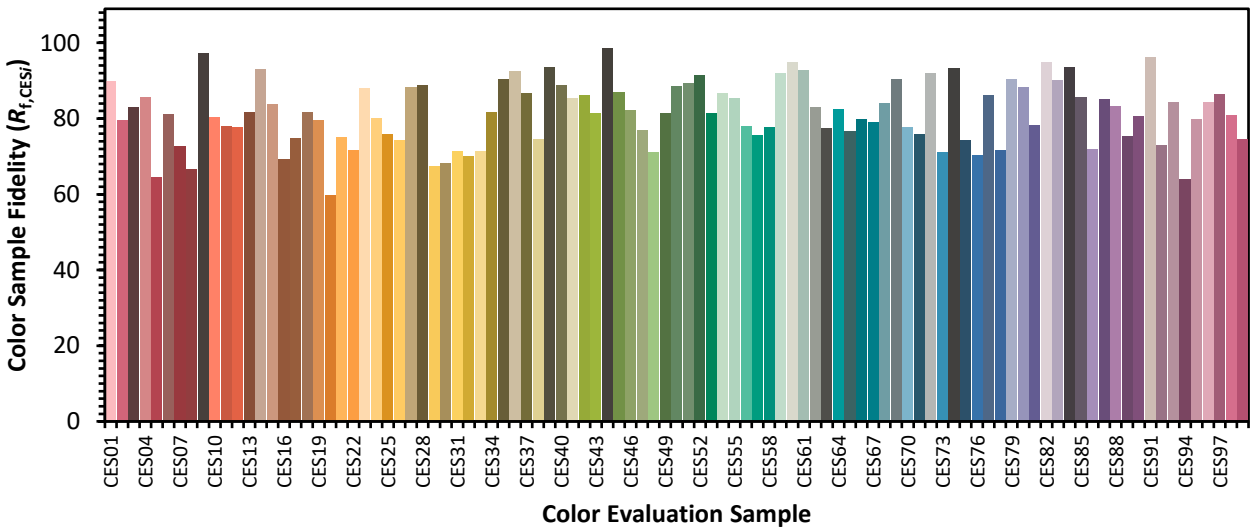
Individual Sample Fidelity Index ($R_{f,i}$)

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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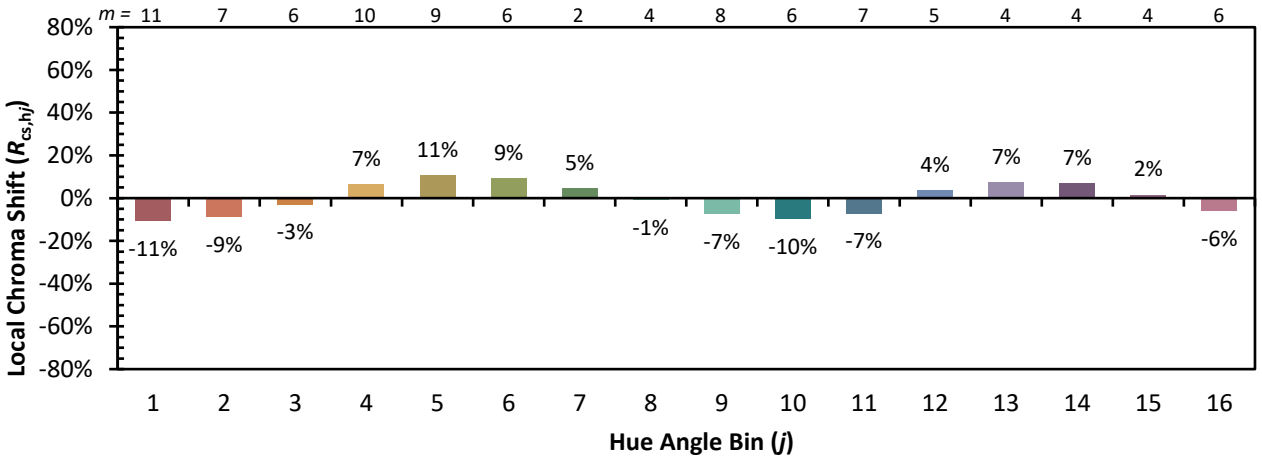
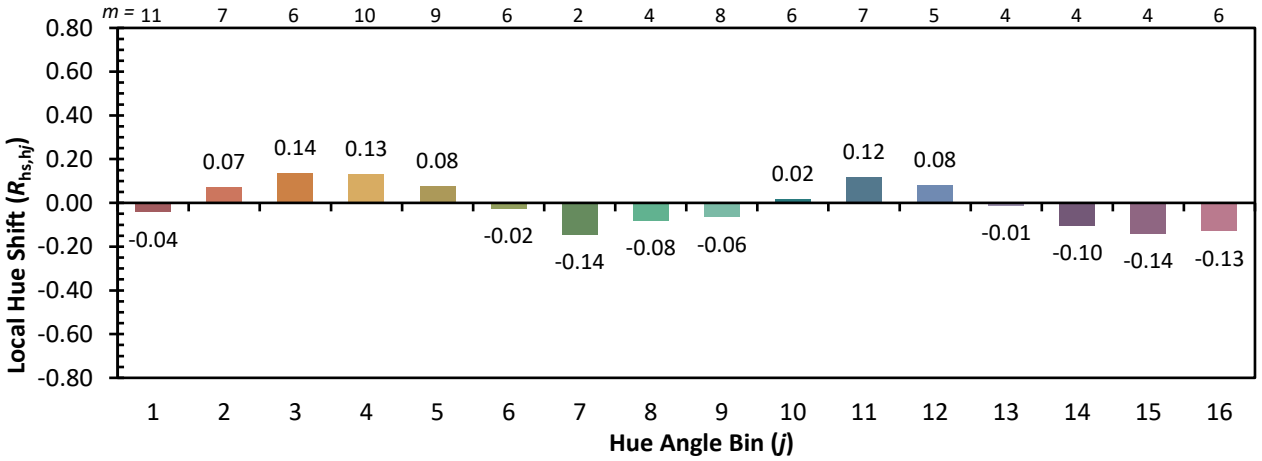
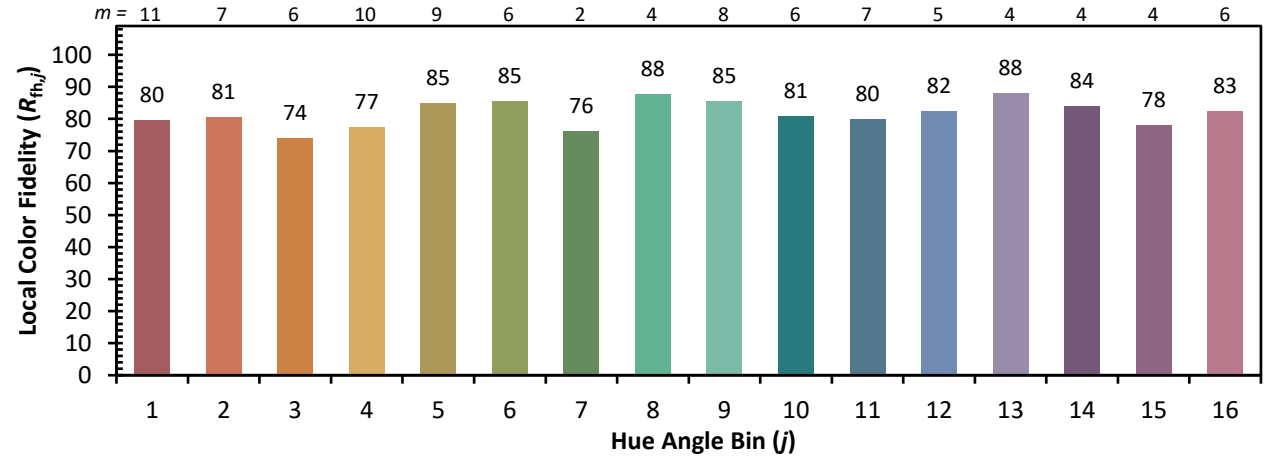
Color Rendition by Hue-Angle Bin







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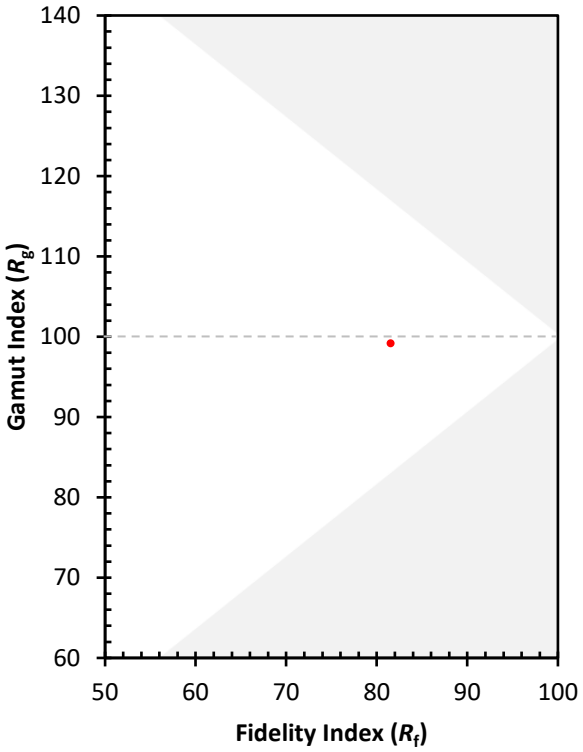
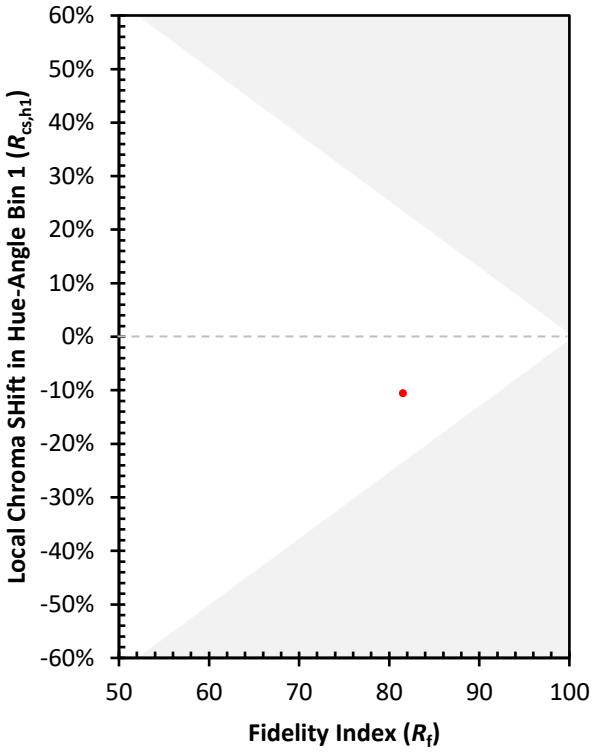
Measure Comparisons





(END OF REPORT)