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: P631073

Luminaire Tested: GWS-SA1E-830-U-T3-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:	P631073
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1E-830-U-T3-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4419.2 lumens
Efficiency:	N/A
Efficacy:	75.7 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B1 - U0 - G1

Input Watts (W):	58.4
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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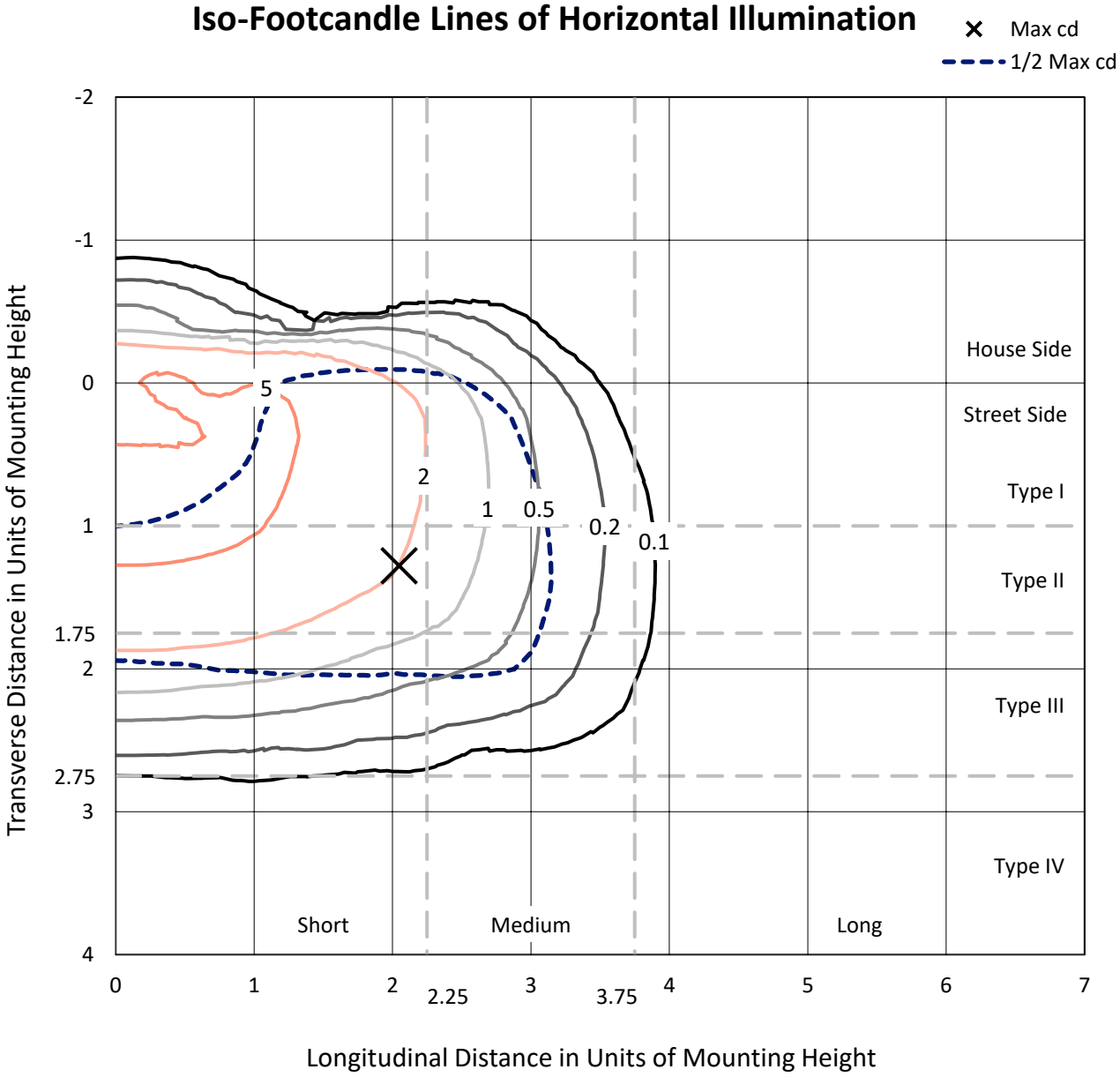
Scaled Data Report

REPORT NUMBER: P631073
CATALOG NUMBER: GWS-SA1E-830-U-T3-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 6.7 fc
Type III - Short - N/A

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REPORT NUMBER: P631073
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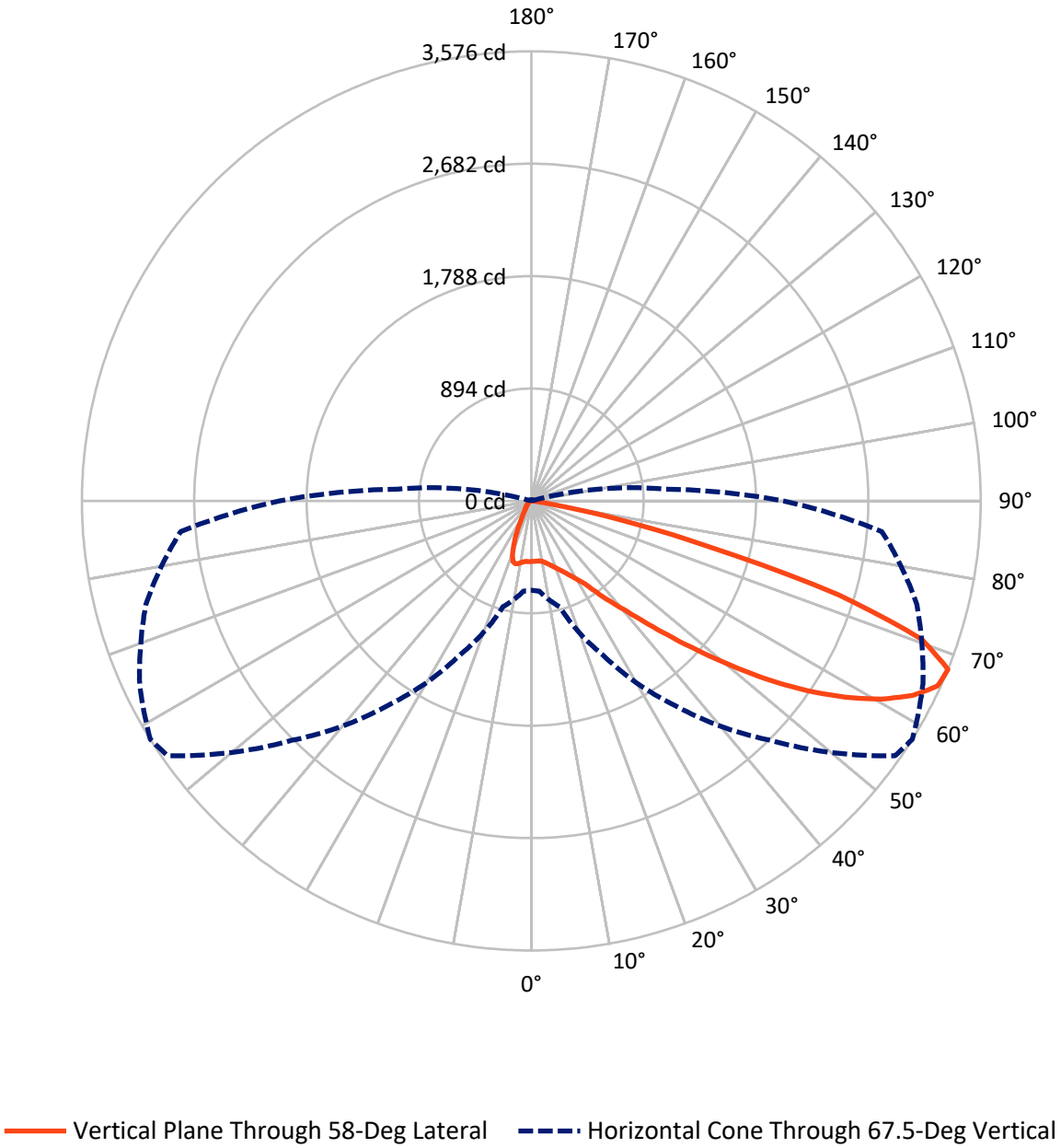
Luminous Intensity Polar Plot



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REPORT NUMBER: P631073
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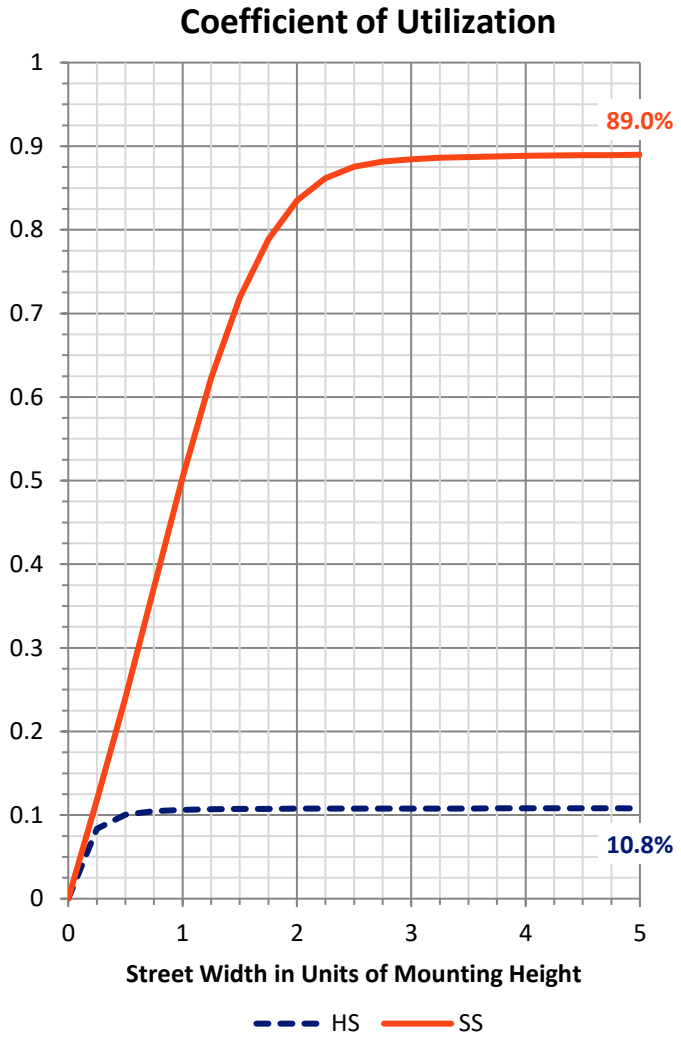
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	482.1	0.0	482.1
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	3937.1	0.0	3937.1
	% Fixture	89.1	0.0	89.1
Total	Lumens	4419.2	0.0	4419.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.2	1.0
10°-20°	127.0	2.9
20°-30°	221.7	5.0
30°-40°	395.9	9.0
40°-50°	723.7	16.4
50°-60°	1203.6	27.2
60°-70°	1307.3	29.6
70°-80°	383.8	8.7
80°-90°	10.9	0.2
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°	4419.2	100.0
0°-180°	4419.2	100.0



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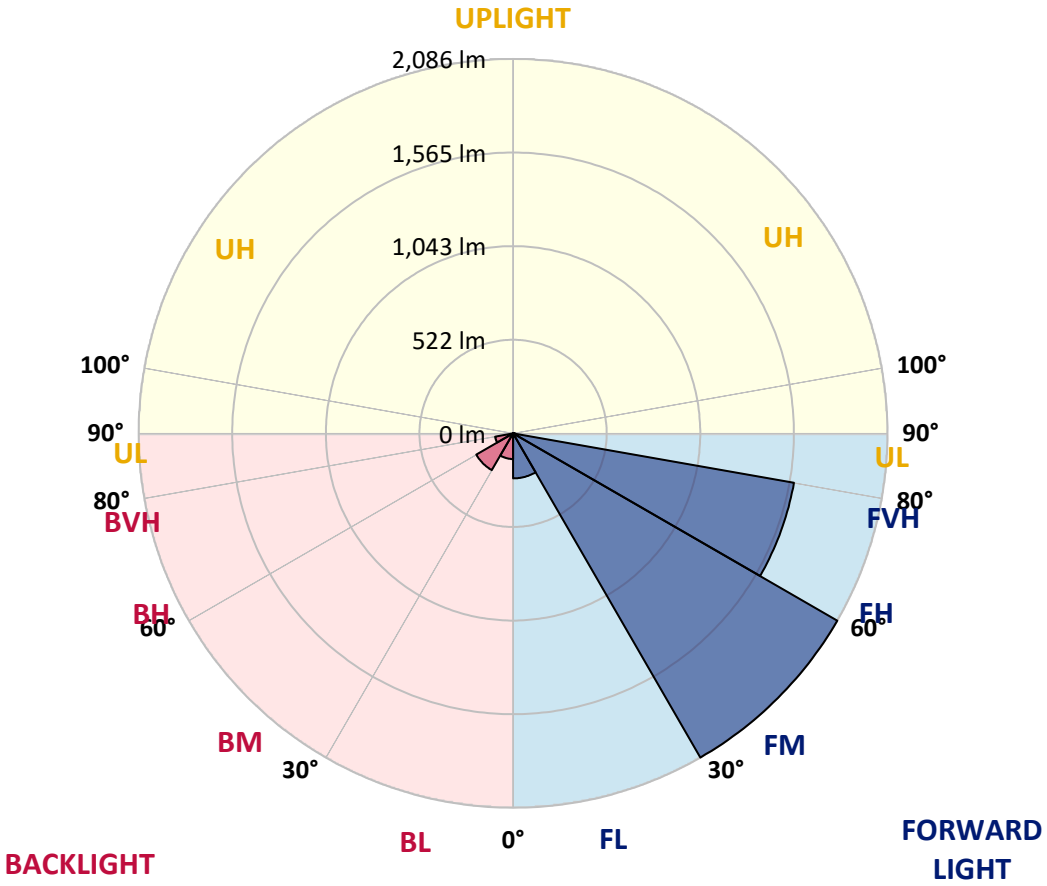
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	250.9	5.7			
FM	(30°-60°)	2086.4	47.2			
FH	(60°-80°)	1589.3	36.0			G1/1800
FVH	(80°-90°)	10.4	0.2			G1/100
BL	(0°-30°)	143.0	3.2	B1/500		
BM	(30°-60°)	236.8	5.4	B1/1000		
BH	(60°-80°)	101.8	2.3	B0/110		G0/110
BVH	(80°-90°)	0.5	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-G1
Type III Short



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Scaled Data Report

REPORT NUMBER: P631073
CATALOG NUMBER: GWS-SA1E-830-U-T3-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	481.6	481.6	481.6	481.6	481.6	481.6	481.6	*481.6*	481.6	481.6	481.6
2.5°	472.5	471.6	471.6	475.1	475.5	477.2	481.1	*481.6*	483.7	482.9	479.8
5°	447.9	448.3	450.9	457.0	462.1	468.6	478.1	*480.3*	485.0	487.6	485.9
7.5°	425.0	425.5	429.3	438.8	448.8	461.7	477.2	*481.6*	491.1	498.0	498.4
10°	416.4	416.0	419.9	430.6	443.6	461.7	484.1	*489.8*	504.0	516.1	518.2
12.5°	419.0	418.6	422.4	432.4	446.6	469.5	496.2	*504.0*	522.1	540.7	544.6
15°	429.3	428.9	431.5	439.7	455.2	479.0	511.8	*523.4*	546.3	568.7	574.8
17.5°	460.4	458.3	455.7	456.5	465.6	490.2	531.6	*545.9*	574.3	601.1	606.3
20°	515.6	510.0	503.1	494.1	489.8	506.6	554.5	*570.9*	605.4	636.0	636.9
22.5°	598.9	596.8	580.8	554.5	535.9	536.4	581.2	*600.2*	642.5	676.2	671.4
25°	715.0	713.7	689.1	646.0	597.6	581.2	615.3	*634.7*	686.5	722.3	707.2
27.5°	859.1	850.1	821.2	762.9	690.8	639.5	658.5	*675.7*	733.1	766.8	738.3
30°	984.7	985.1	957.9	897.1	816.0	727.1	711.1	*726.2*	775.8	811.2	776.7
32.5°	1105.5	1109.4	1079.6	1024.8	935.9	841.4	786.6	*789.2*	830.6	869.1	827.2
35°	1217.7	1220.7	1200.0	1153.4	1070.6	961.0	891.9	*890.6*	913.1	952.3	897.5
37.5°	1343.3	1346.3	1326.0	1284.2	1206.5	1097.8	1011.5	*1009.7*	1018.8	1050.7	988.1
40°	1477.0	1482.7	1460.2	1424.8	1350.6	1258.7	1150.4	*1134.9*	1125.8	1163.3	1105.5
42.5°	1612.5	1621.2	1613.4	1578.0	1514.6	1438.6	1330.8	*1306.6*	1287.2	1334.2	1272.9
45°	1780.8	1791.2	1787.7	1760.5	1711.4	1649.6	1547.8	*1519.8*	1510.7	1554.3	1481.4
47.5°	1942.6	1953.9	1966.4	1960.3	1925.4	1896.9	1783.8	*1767.9*	1765.3	1811.9	1698.8
50°	2063.0	2073.4	2121.3	2155.8	2179.5	2173.5	2075.5	*2051.8*	2047.9	2077.7	1928.4
52.5°	2149.3	2159.3	2225.3	2333.2	2420.3	2467.8	2369.0	*2363.8*	2342.6	2332.3	2143.3
55°	2216.2	2230.0	2299.5	2462.6	2638.2	2743.5	2681.8	*2663.3*	2608.9	2549.3	2342.6
57.5°	2229.6	2235.2	2333.2	2553.2	2807.4	2977.8	2977.8	*2945.5*	2840.6	2758.2	2573.1
60°	2109.6	2126.9	2259.4	2545.9	2879.9	3131.0	3223.4	*3200.9*	3059.4	2958.0	2794.9
62.5°	1843.4	1862.8	2024.2	2370.3	2807.4	3162.5	3409.3	*3405.9*	3246.2	3123.2	2978.7
65°	1413.6	1427.9	1568.5	1982.8	2501.0	3041.3	3542.2	*3551.7*	3393.8	3232.4	3042.1
67.5°	*710.3*	*720.2*	*872.1*	*1354.5*	*1982.3*	*2692.2*	*3533.2*	*3575.5*	*3438.7*	*3174.6*	*2800.0*
70°	248.1	258.0	329.7	581.2	1206.5	2055.7	3227.7	*3296.7*	3175.0	2709.9	2065.6
72.5°	85.0	89.8	136.8	215.8	469.5	1218.6	2454.4	*2558.4*	2340.5	1819.2	1187.1
75°	48.3	51.3	73.4	116.9	196.8	400.9	1392.5	*1456.3*	1364.4	991.6	488.5
77.5°	32.8	35.4	45.7	66.5	108.7	129.0	567.9	*715.0*	623.5	323.6	124.7
80°	19.4	21.1	28.0	39.3	55.7	50.1	121.7	*161.8*	208.4	96.7	37.5
82.5°	9.1	10.4	18.1	25.9	28.0	21.1	35.8	*43.6*	58.7	47.5	15.5
85°	0.0	0.0	6.0	10.8	10.4	6.0	9.9	*10.8*	16.0	23.7	6.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.9	*1.3*	2.6	4.7	2.6
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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Scaled Data Report

REPORT NUMBER: P631073
CATALOG NUMBER: GWS-SA1E-830-U-T3-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6	481.6
2.5°	483.3	480.3	483.7	482.0	483.7	483.3	479.8	477.7	477.7	473.8	472.5
5°	489.3	486.3	487.2	483.3	482.4	480.3	476.0	474.2	474.2	470.3	469.0
7.5°	502.7	498.0	497.1	489.3	485.9	479.8	472.1	469.0	468.6	464.7	463.4
10°	523.8	518.2	514.4	504.4	494.5	482.4	466.0	452.2	444.5	434.1	433.2
12.5°	549.7	542.8	536.8	521.7	505.3	478.1	429.8	379.3	348.2	323.6	325.4
15°	578.6	572.2	562.7	539.8	506.2	435.4	334.4	256.7	218.8	198.5	197.6
17.5°	610.1	600.7	585.1	554.1	479.0	332.7	217.5	153.6	133.8	126.9	125.1
20°	639.5	627.8	608.4	557.1	400.4	225.2	135.9	119.1	115.6	113.5	113.5
22.5°	670.6	655.9	627.0	533.8	297.7	144.1	115.6	111.8	109.2	106.2	105.7
25°	702.1	683.1	643.8	472.9	195.0	113.5	108.3	104.0	99.2	94.5	93.2
27.5°	728.8	704.2	656.8	382.3	125.1	102.3	98.8	91.5	85.0	79.8	79.0
30°	760.7	729.2	662.4	279.6	98.4	90.2	85.0	77.2	69.5	64.3	62.6
32.5°	803.5	768.9	653.7	182.1	87.2	79.4	71.2	62.1	54.4	48.8	47.9
35°	869.9	828.9	614.0	116.1	79.0	68.6	58.7	49.2	42.7	38.4	37.5
37.5°	951.0	913.1	548.9	87.2	70.8	59.5	47.9	38.8	34.1	31.1	30.2
40°	1071.4	1018.4	468.2	76.4	62.6	50.5	39.3	31.9	28.5	25.9	25.0
42.5°	1227.6	1142.6	375.4	69.5	54.8	42.3	31.9	26.3	23.3	21.6	21.1
45°	1410.2	1263.9	277.5	62.6	47.5	35.0	26.3	21.6	19.4	18.1	17.7
47.5°	1597.0	1370.0	191.6	55.2	40.6	28.9	22.0	18.6	16.8	15.1	14.7
50°	1796.4	1459.8	130.7	47.9	34.5	23.7	19.0	16.8	14.7	13.4	12.9
52.5°	1942.6	1493.0	91.0	41.4	29.3	20.3	16.8	15.1	13.4	11.7	11.2
55°	2077.7	1492.1	69.0	35.0	25.0	17.7	15.1	13.4	11.7	10.4	9.9
57.5°	2212.3	1480.5	54.4	29.8	21.6	16.0	13.4	11.7	10.8	9.1	8.6
60°	2299.5	1436.5	42.3	25.0	18.6	13.8	11.7	10.4	9.1	7.8	7.3
62.5°	2345.7	1375.2	32.4	19.8	15.1	12.1	10.4	9.1	7.8	6.5	6.0
65°	2283.1	1266.5	25.5	15.5	11.7	10.4	8.6	7.3	6.0	4.7	4.3
67.5°	*2005.6*	*1068.0*	*19.8*	*12.5*	*9.1*	*7.8*	*7.3*	*6.0*	*4.3*	*3.5*	*3.0*
70°	1417.5	731.4	15.5	9.5	6.9	6.0	5.6	4.7	3.5	2.6	2.2
72.5°	778.0	368.9	11.2	6.9	5.2	4.7	4.3	3.9	3.0	2.2	2.2
75°	299.5	101.4	8.2	4.7	3.5	3.5	3.0	3.0	2.6	1.7	1.7
77.5°	78.1	30.2	5.2	3.0	2.2	2.2	2.2	1.7	1.7	1.3	1.3
80°	25.0	9.9	3.0	2.2	1.7	1.3	1.3	0.9	1.3	0.9	0.9
82.5°	8.2	3.5	1.7	1.7	1.3	0.9	0.9	0.4	0.4	0.0	0.0
85°	3.0	1.7	1.3	0.9	0.9	0.9	0.4	0.0	0.0	0.0	0.0
87.5°	1.7	0.9	0.9	0.9	0.9	0.4	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

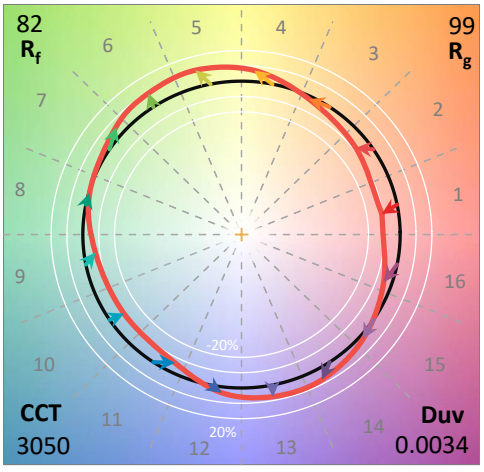
Test Information

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

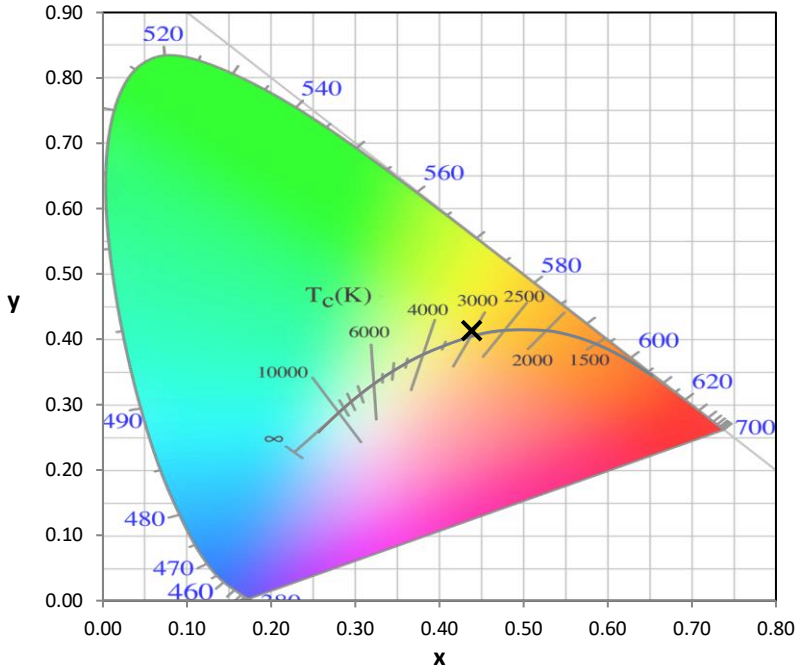
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

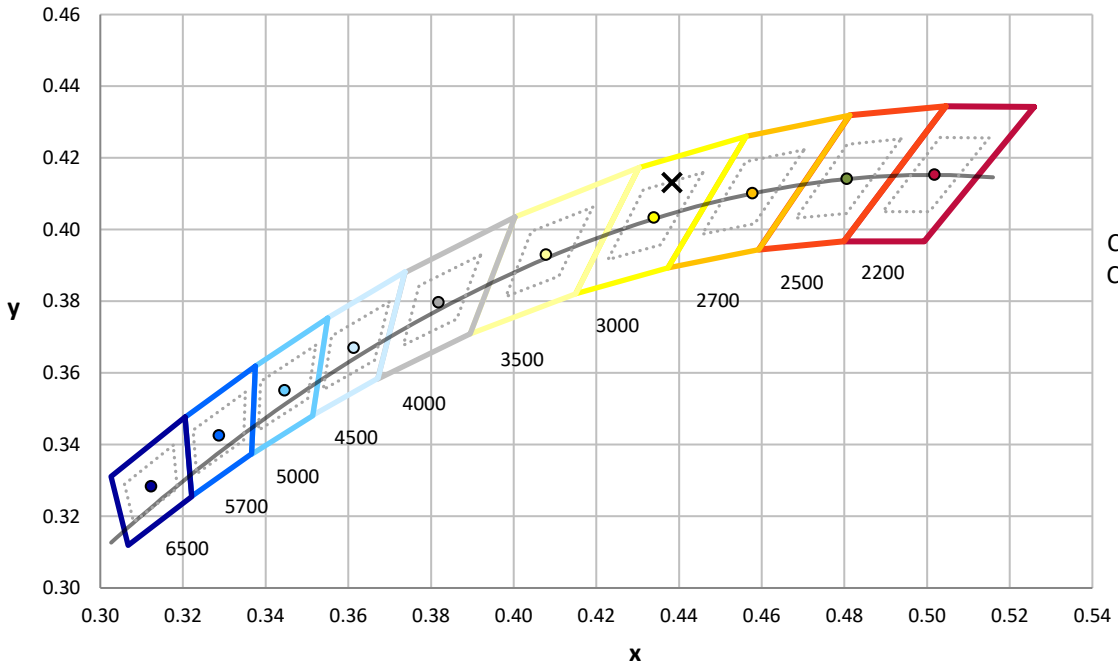
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

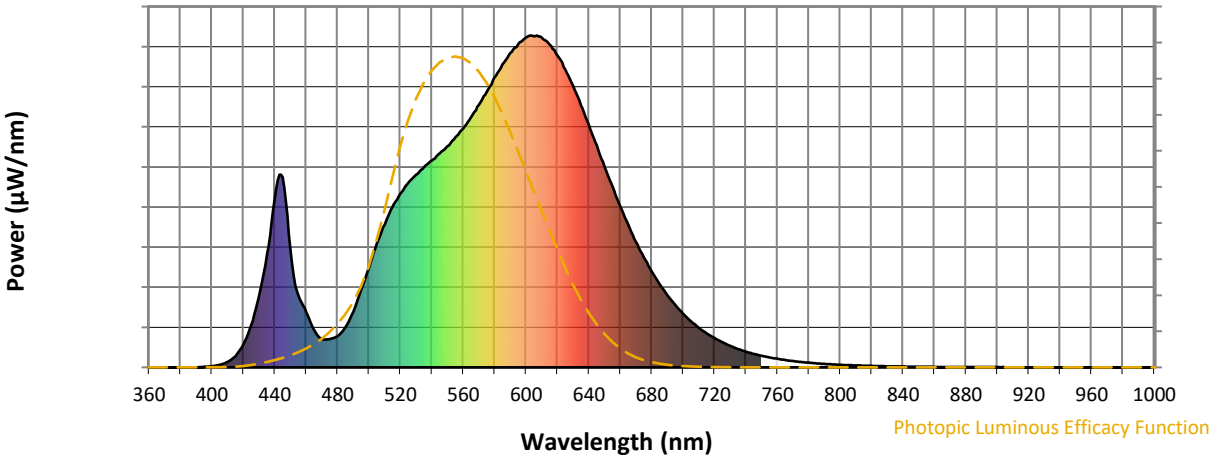


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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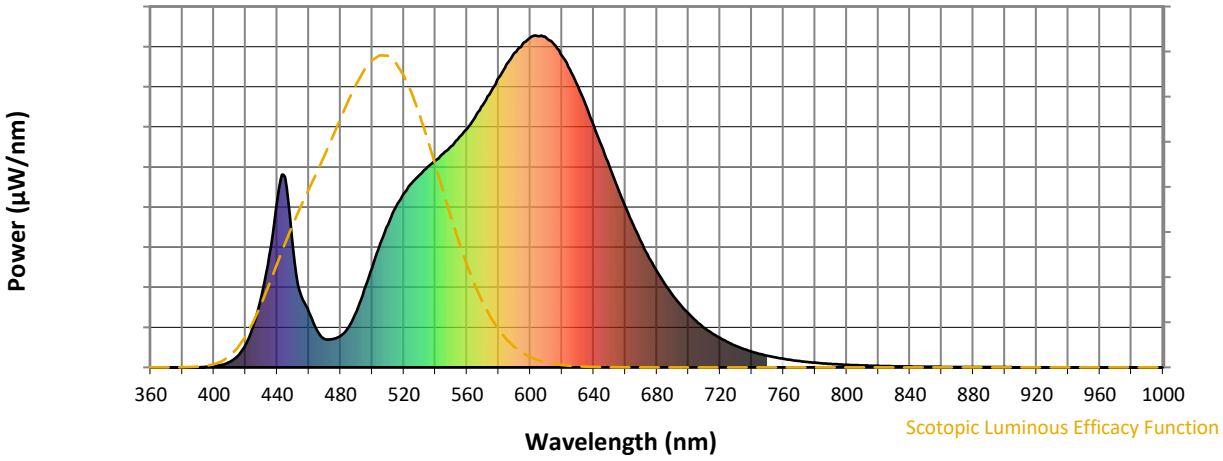
Scotopic Flux vs. Wavelength



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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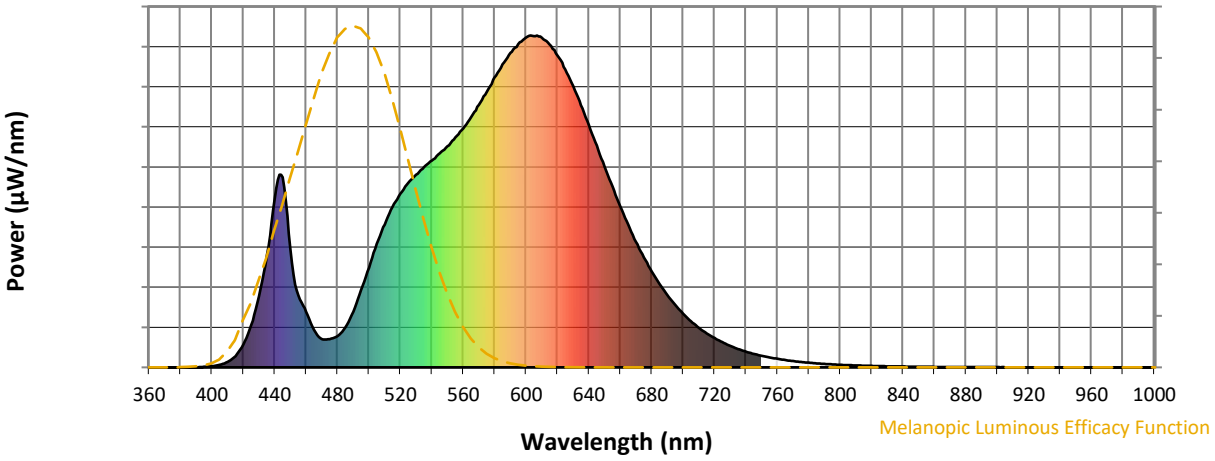
Melanopic Flux vs. Wavelength



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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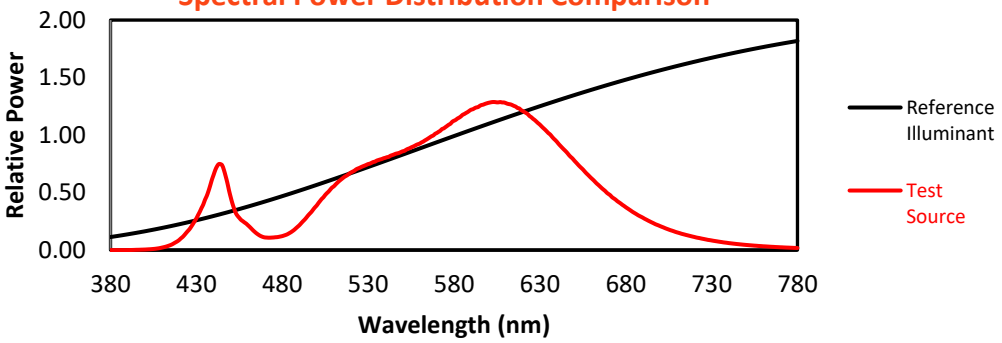
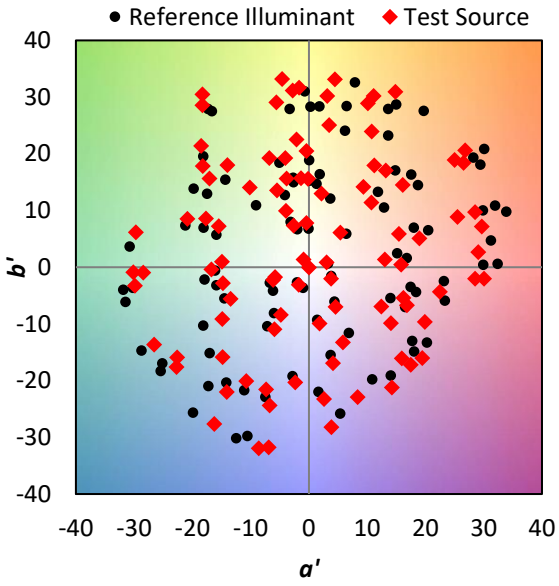
Summary

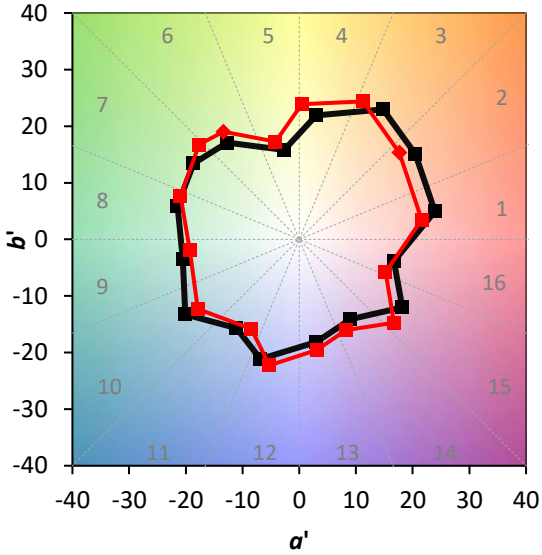
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

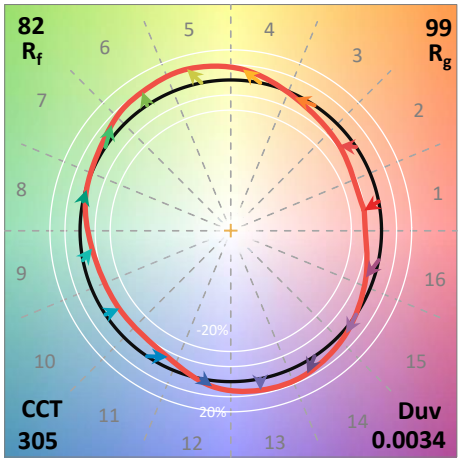
Spectral Power Distribution Comparison

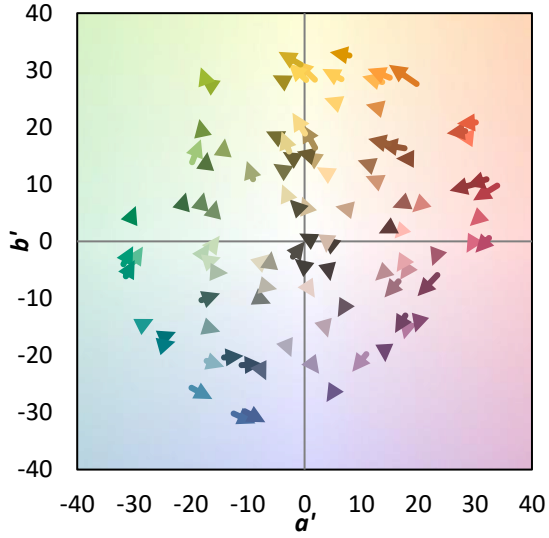


Color Vector Graphics









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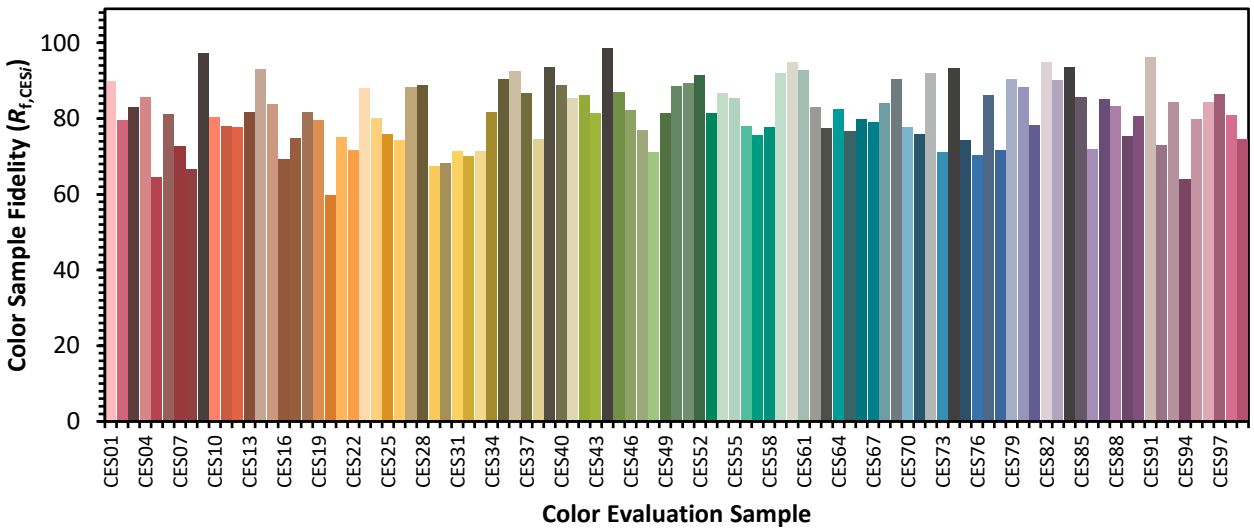
Individual Sample Fidelity Index ($R_{f,i}$)

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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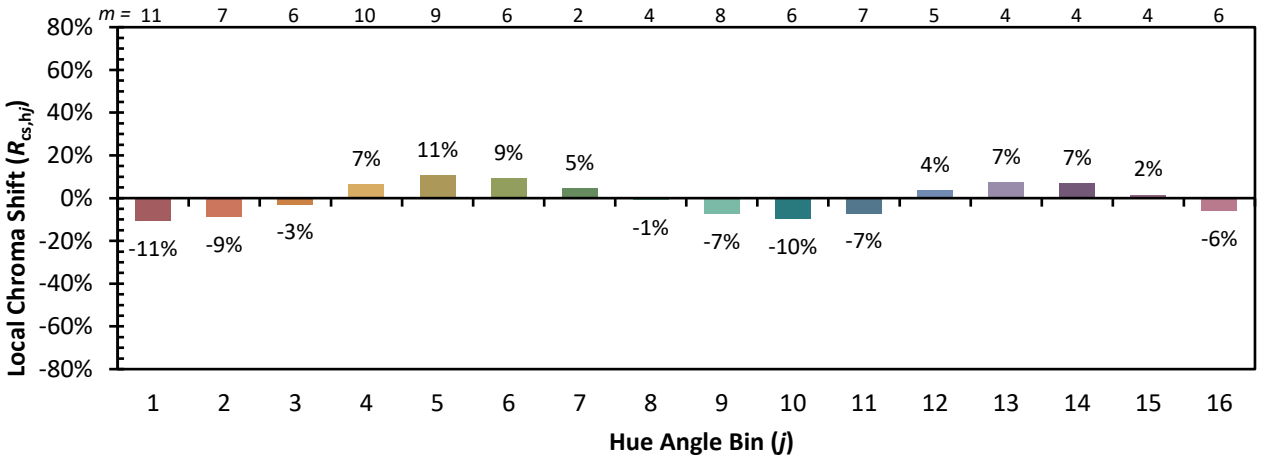
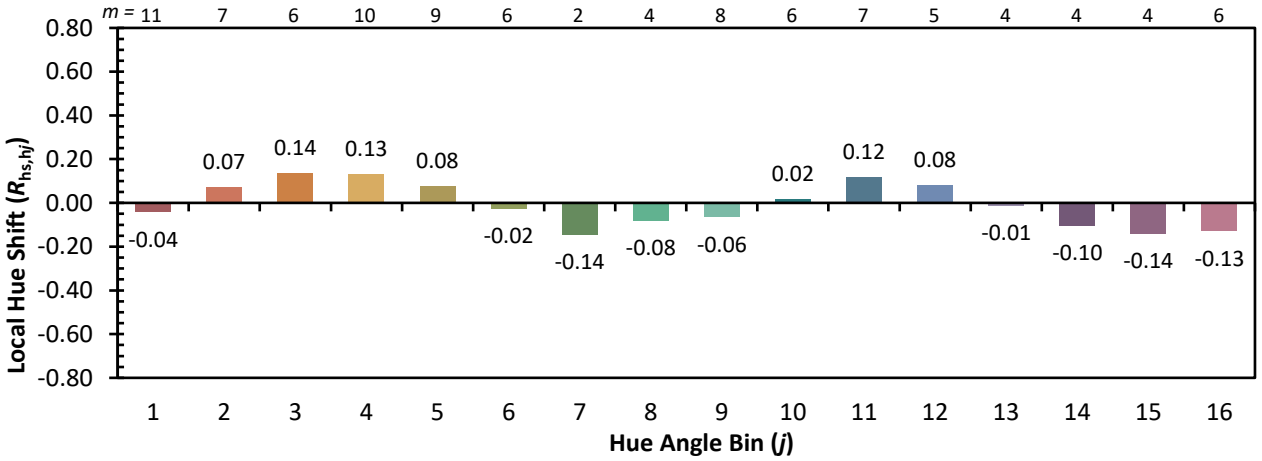
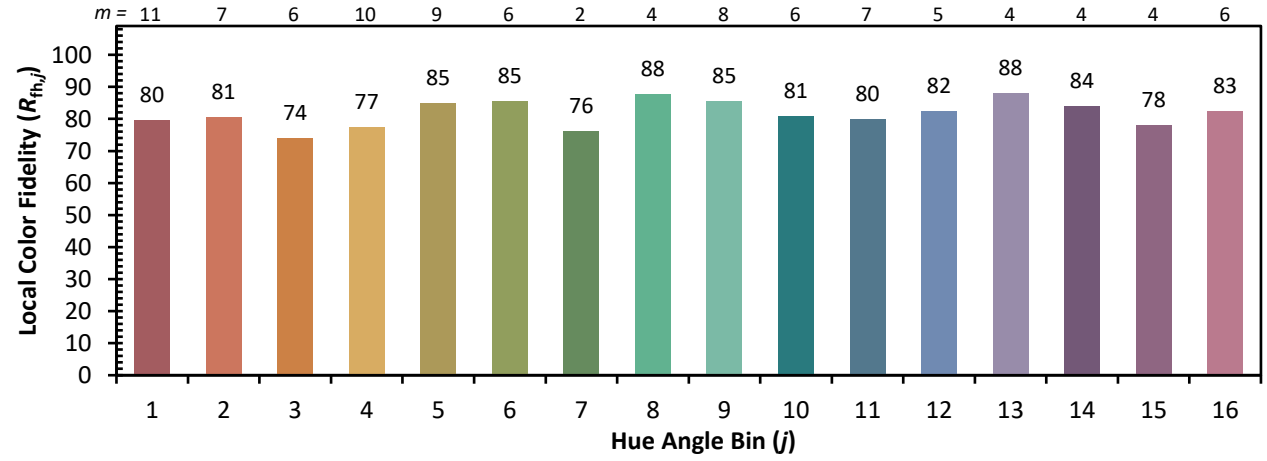
Color Rendition by Hue-Angle Bin







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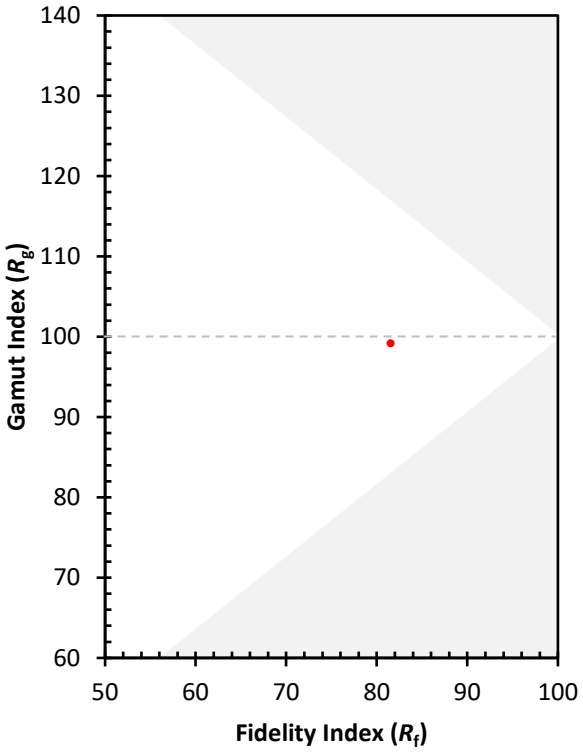
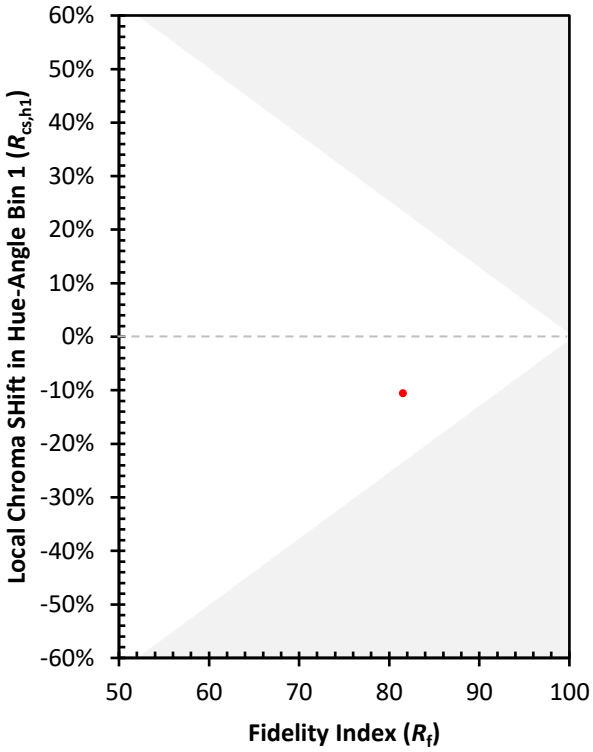
Measure Comparisons





(END OF REPORT)