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: P632067

Luminaire Tested: GWS-SA2B-830-U-T3R-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:	P632067
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2B-830-U-T3R-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4291.6 lumens
Efficiency:	N/A
Efficacy:	92.5 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B1 - U0 - G1

Input Watts (W):	46.4
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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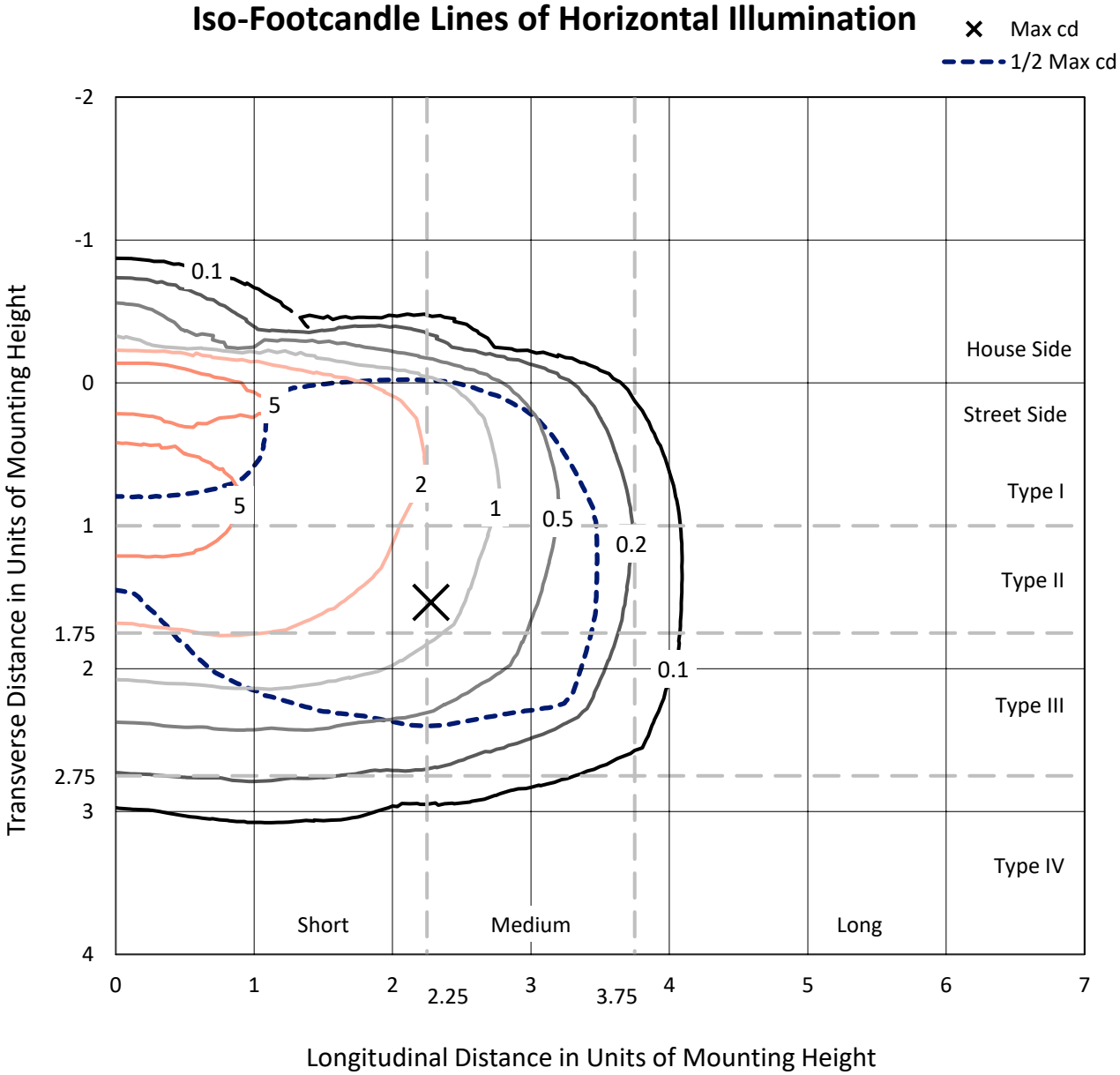
REPORT NUMBER: P632067
CATALOG NUMBER: GWS-SA2B-830-U-T3R-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 8.2 fc
Type III - Medium - N/A

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REPORT NUMBER: P632067
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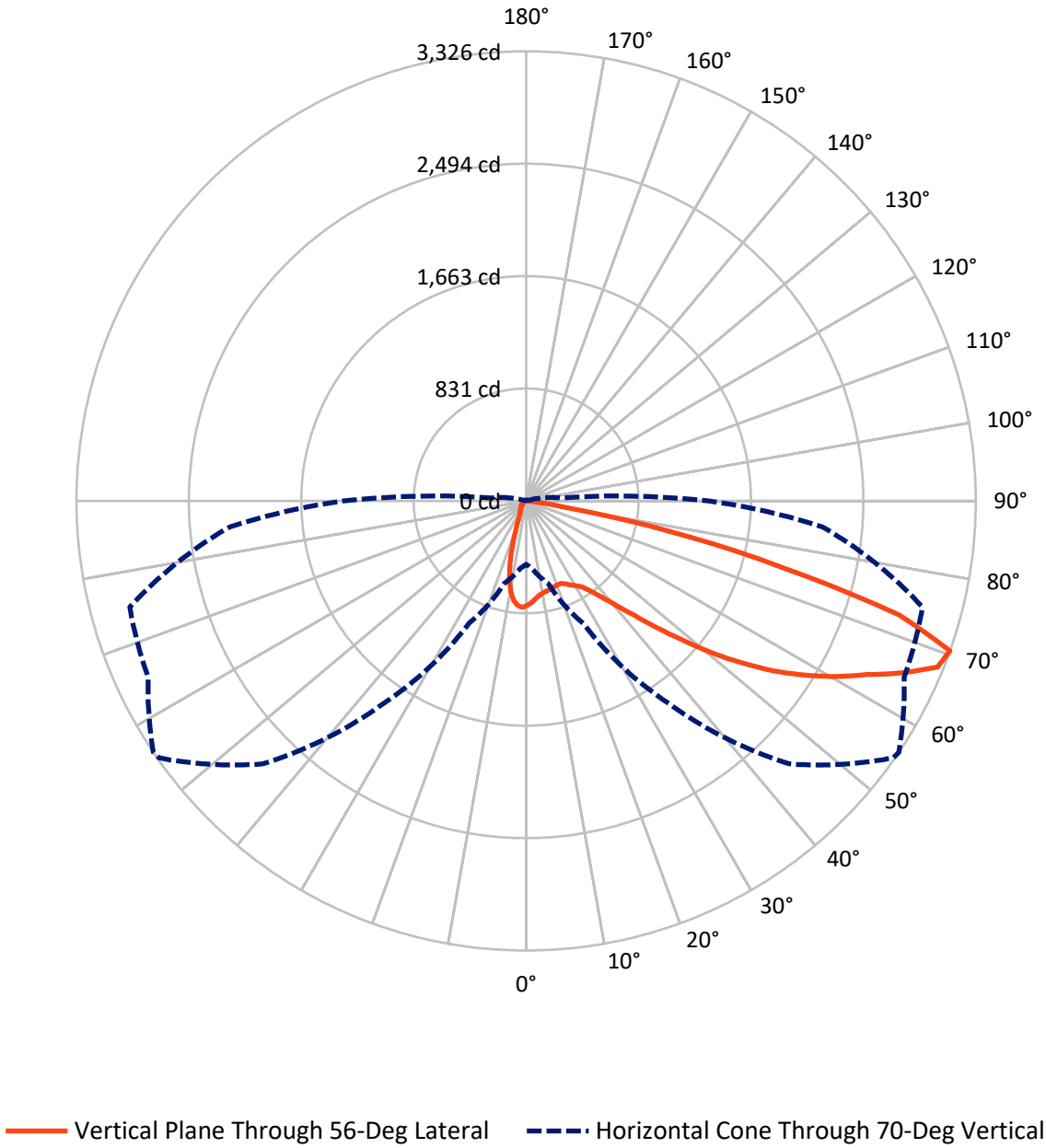
Luminous Intensity Polar Plot



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REPORT NUMBER: P632067
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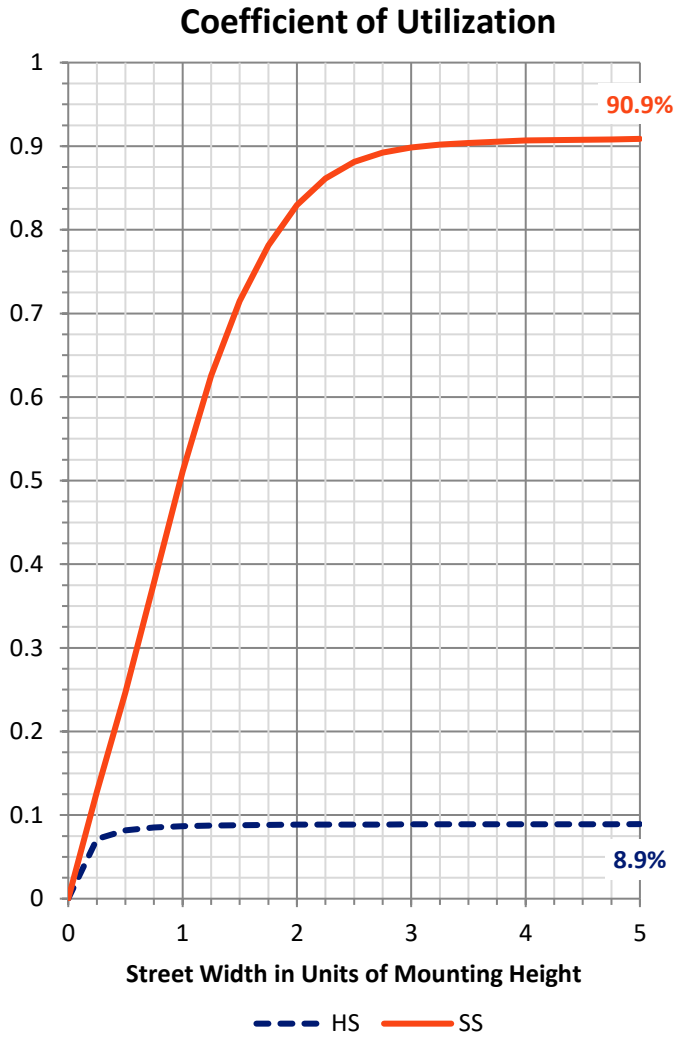
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	385.5	0.0	385.5
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	3906.1	0.0	3906.1
	% Fixture	91.0	0.0	91.0
Total	Lumens	4291.6	0.0	4291.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.4	1.5
10°-20°	149.4	3.5
20°-30°	236.7	5.5
30°-40°	408.2	9.5
40°-50°	689.3	16.1
50°-60°	1012.8	23.6
60°-70°	1200.7	28.0
70°-80°	512.0	11.9
80°-90°	16.1	0.4
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°	4291.6	100.0
0°-180°	4291.6	100.0



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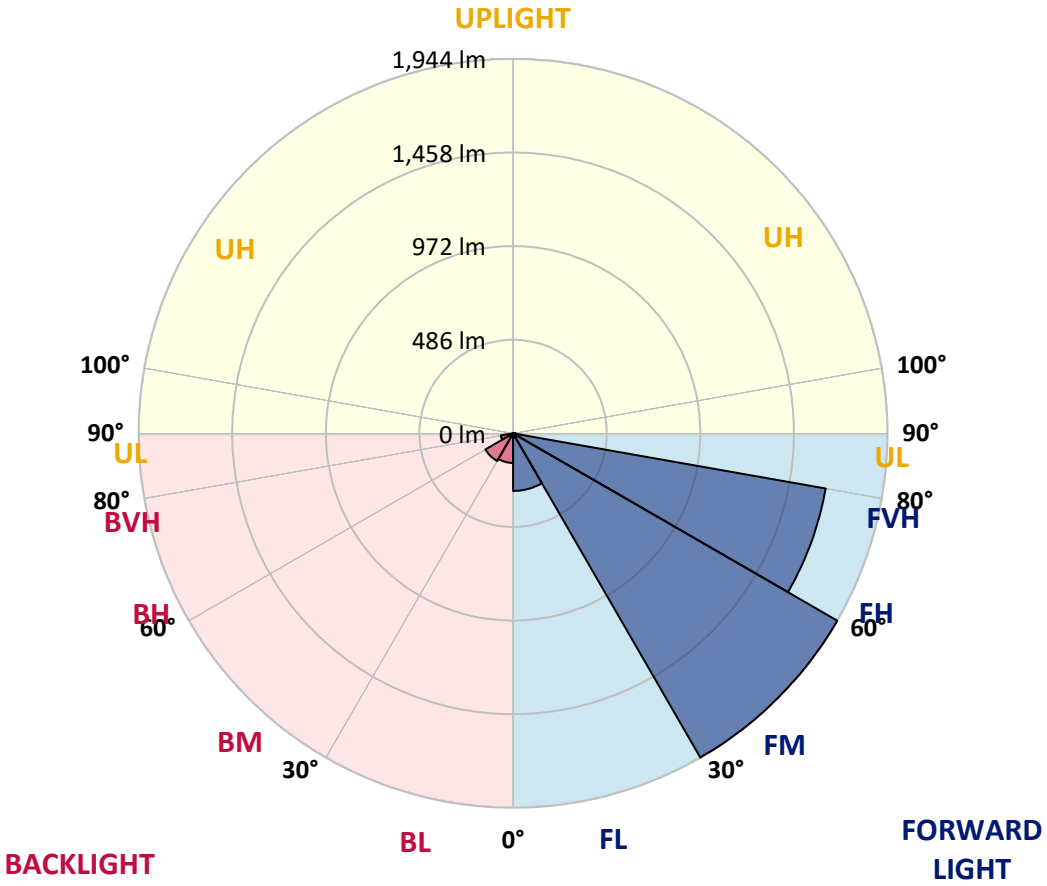
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	299.0	7.0			
FM	(30°-60°)	1944.2	45.3			
FH	(60°-80°)	1648.4	38.4			G1/1800
FVH	(80°-90°)	14.4	0.3			G1/100
BL	(0°-30°)	153.5	3.6	B1/500		
BM	(30°-60°)	166.0	3.9	B0/220		
BH	(60°-80°)	64.3	1.5	B0/110		G0/110
BVH	(80°-90°)	1.6	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 Medium



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CATALOG NUMBER: GWS-SA2B-830-U-T3R-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	773.8	773.8	773.8	773.8	773.8	773.8	773.8	*773.8*	773.8	773.8	773.8
2.5°	720.4	719.2	720.0	725.9	736.9	742.0	750.6	*752.2*	759.3	768.3	771.9
5°	673.6	669.7	671.6	679.9	692.5	706.6	722.7	*727.1*	744.7	764.8	779.7
7.5°	630.8	626.4	631.2	644.1	661.8	677.1	701.1	*703.9*	732.2	767.5	794.6
10°	563.6	564.7	574.2	597.0	624.1	655.9	688.1	*692.1*	727.1	776.6	818.6
12.5°	512.1	509.3	519.5	545.5	583.6	630.0	678.3	*683.4*	727.4	790.3	849.3
15°	488.1	487.3	491.6	510.5	547.5	602.1	669.3	*676.0*	732.6	802.9	878.4
17.5°	488.9	487.7	487.3	498.3	525.8	581.2	659.5	*668.1*	736.9	816.7	909.0
20°	523.1	517.6	507.8	502.6	519.2	567.9	652.8	*662.6*	743.2	831.2	941.6
22.5°	594.6	596.6	570.2	542.7	534.9	569.5	652.0	*663.4*	756.9	854.0	981.7
25°	737.7	734.5	685.8	624.1	581.2	587.5	665.7	*679.5*	784.0	886.6	1019.4
27.5°	916.9	919.6	852.8	754.6	665.0	624.9	690.9	*704.7*	815.5	907.0	1044.6
30°	1112.2	1109.4	1037.9	929.1	783.6	687.0	716.0	*728.2*	831.2	918.0	1070.5
32.5°	1296.9	1290.6	1219.9	1105.9	934.9	784.8	750.6	*757.7*	852.0	942.0	1105.5
35°	1454.5	1454.1	1392.4	1271.0	1090.6	907.4	810.0	*815.9*	890.9	980.1	1157.0
37.5°	1617.2	1611.7	1542.5	1431.7	1250.5	1041.8	900.8	*898.4*	952.2	1036.3	1220.3
40°	1750.8	1747.3	1694.2	1587.7	1416.8	1190.4	1010.8	*1003.7*	1024.9	1114.2	1308.3
42.5°	1849.9	1850.2	1833.7	1768.9	1592.8	1362.1	1149.1	*1138.1*	1137.7	1231.7	1424.6
45°	1924.9	1930.0	1954.8	1945.0	1800.7	1562.2	1326.4	*1315.0*	1295.7	1384.1	1557.9
47.5°	1959.9	1966.6	2041.2	2080.5	1982.7	1760.6	1537.4	*1513.4*	1475.7	1586.9	1706.8
50°	1956.4	1968.1	2072.3	2191.8	2147.7	1961.9	1767.3	*1755.9*	1694.2	1801.5	1854.2
52.5°	1876.2	1901.3	2074.3	2259.4	2274.7	2147.4	2005.1	*1983.9*	1954.0	2025.5	1992.5
55°	1658.5	1689.1	1991.3	2281.0	2373.7	2309.3	2237.7	*2220.5*	2170.9	2237.0	2113.2
57.5°	1540.2	1566.5	1816.8	2270.4	2457.8	2459.0	2444.9	*2430.7*	2389.8	2446.0	2254.6
60°	1469.0	1495.4	1723.7	2231.5	2534.1	2617.0	2639.4	*2637.8*	2578.9	2683.8	2420.5
62.5°	1364.9	1401.0	1626.6	2130.5	2588.3	2772.6	2840.2	*2829.6*	2764.0	2931.4	2584.8
65°	1154.6	1186.1	1427.8	1963.8	2556.5	2901.5	3057.9	*3063.4*	2987.6	3164.4	2714.5
67.5°	809.6	832.8	1072.9	1614.1	2340.3	2944.0	3280.8	*3280.4*	3151.1	3283.9	2657.1
70°	*469.2*	*501.1*	*633.9*	*997.8*	*1820.8*	*2751.0*	*3314.2*	*3325.6*	*3084.7*	*3034.4*	*2198.8*
72.5°	181.6	207.9	359.2	530.2	949.5	2107.3	2850.8	*2884.2*	2581.6	2340.7	1530.3
75°	54.2	60.5	169.0	282.2	381.2	1017.9	1930.0	*1939.5*	1770.9	1460.0	784.4
77.5°	40.5	44.8	73.9	142.7	133.6	308.5	998.6	*1090.6*	940.1	521.5	216.2
80°	27.5	32.6	52.7	69.6	49.5	82.1	280.6	*308.1*	286.9	117.1	54.2
82.5°	12.2	15.7	37.3	35.0	18.1	23.6	86.5	*92.0*	59.3	35.4	18.9
85°	1.2	1.6	14.1	15.3	6.7	5.5	18.1	*18.1*	13.0	12.2	7.9
87.5°	0.0	0.0	0.4	0.8	0.8	1.2	1.6	*2.0*	2.4	3.1	3.9
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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Scaled Data Report

REPORT NUMBER: P632067
CATALOG NUMBER: GWS-SA2B-830-U-T3R-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	773.8	773.8	773.8	773.8	773.8	773.8	773.8	773.8	773.8	773.8	773.8
2.5°	780.9	776.2	782.1	786.8	788.0	779.3	774.2	766.7	765.2	765.6	763.6
5°	791.5	789.1	793.5	788.4	775.0	749.8	728.2	704.3	691.3	683.8	683.0
7.5°	811.2	810.0	805.3	782.1	740.4	684.6	630.8	578.1	545.5	533.7	531.7
10°	840.2	837.9	818.6	763.6	674.8	567.5	477.1	401.6	355.7	342.3	325.8
12.5°	873.6	868.9	826.9	723.9	575.7	427.2	314.4	229.9	190.2	178.4	178.4
15°	905.9	895.6	822.2	658.3	453.9	277.9	175.7	132.8	120.7	117.5	117.5
17.5°	938.9	919.2	803.7	568.7	313.6	164.3	117.1	108.9	107.3	107.7	108.1
20°	969.9	939.3	771.1	461.0	200.0	114.8	104.9	103.0	102.2	103.0	102.6
22.5°	1003.7	957.7	721.5	343.5	130.1	103.4	99.8	98.3	97.5	98.6	98.6
25°	1037.1	971.1	655.9	231.1	103.4	96.3	94.3	92.7	92.0	92.4	92.4
27.5°	1054.4	966.0	569.9	147.4	92.7	89.2	87.2	85.3	84.1	83.7	84.1
30°	1066.2	950.3	464.5	104.9	84.1	79.8	77.8	76.2	73.1	71.1	71.9
32.5°	1084.7	934.6	350.2	88.0	77.0	70.3	67.2	63.3	59.0	57.0	57.0
35°	1106.7	912.9	245.6	79.4	69.6	62.5	56.6	49.9	44.8	43.2	43.2
37.5°	1135.8	892.5	163.5	73.5	63.3	55.8	47.6	39.7	34.2	33.4	33.0
40°	1179.4	875.2	115.1	69.2	57.8	48.7	38.9	30.7	26.7	25.5	25.5
42.5°	1236.0	857.5	91.2	64.8	53.1	42.1	31.0	24.4	21.2	20.4	20.0
45°	1305.9	836.7	79.4	60.9	48.3	35.0	24.8	20.4	18.1	17.3	17.3
47.5°	1381.8	808.4	73.9	55.8	42.8	28.3	20.8	17.7	16.5	16.1	15.7
50°	1456.5	770.3	69.2	51.1	36.5	23.2	18.1	16.1	15.3	14.9	14.9
52.5°	1521.7	725.9	63.3	45.6	29.9	20.0	16.1	14.9	14.1	13.4	13.0
55°	1577.5	677.5	55.8	39.3	24.4	17.7	14.9	13.8	13.0	12.2	11.8
57.5°	1649.4	650.0	44.8	31.8	20.0	15.7	13.8	12.6	11.8	10.6	10.6
60°	1729.2	630.0	33.4	25.2	17.3	14.5	12.6	11.4	10.6	9.4	9.4
62.5°	1793.3	600.1	26.3	20.4	14.9	13.0	11.4	10.2	9.4	8.3	8.3
65°	1817.6	538.4	21.6	16.1	12.2	11.4	10.2	9.4	8.3	7.1	7.1
67.5°	1707.6	415.0	18.1	13.0	10.2	9.8	9.0	8.6	7.1	6.3	5.9
70°	*1352.3*	*253.1*	*14.9*	*10.6*	*8.6*	*8.3*	*8.3*	*7.5*	*6.3*	*5.9*	*5.5*
72.5°	926.7	130.5	12.2	8.6	7.5	7.5	7.1	6.7	5.9	5.5	5.5
75°	481.4	43.6	9.4	6.7	5.9	6.3	6.3	5.9	5.5	5.5	5.1
77.5°	137.9	19.7	7.1	5.1	4.7	4.7	5.1	5.1	5.1	4.7	4.7
80°	35.8	11.4	5.1	3.9	3.9	3.9	3.9	4.3	4.7	4.3	4.3
82.5°	14.5	6.3	3.5	3.1	3.1	3.1	3.1	3.5	3.9	3.9	3.9
85°	9.0	3.1	2.8	2.8	2.8	2.4	2.4	2.8	2.8	3.1	3.1
87.5°	5.5	2.4	2.4	2.4	2.4	2.0	2.0	2.0	2.0	2.0	2.0
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

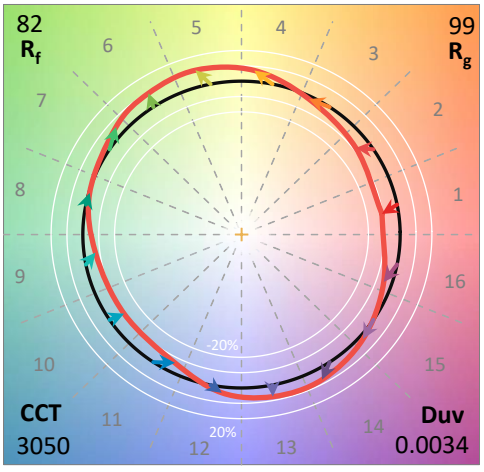
Test Information

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

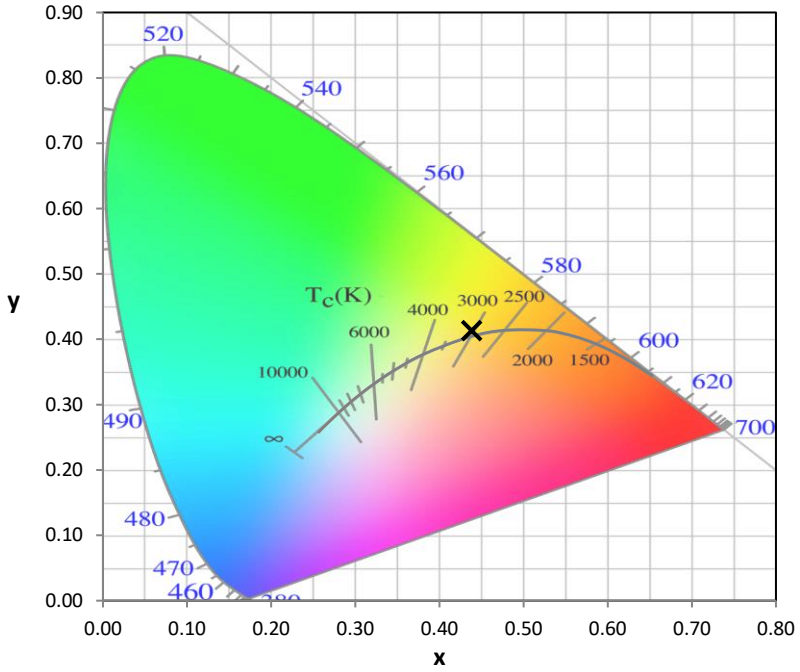
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

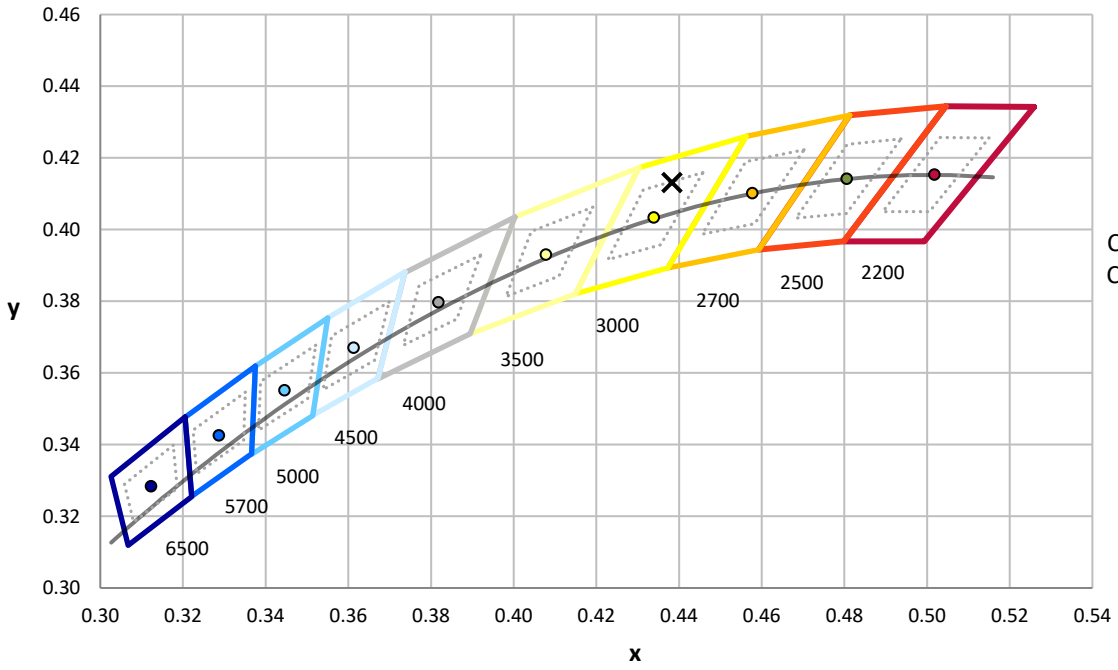
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

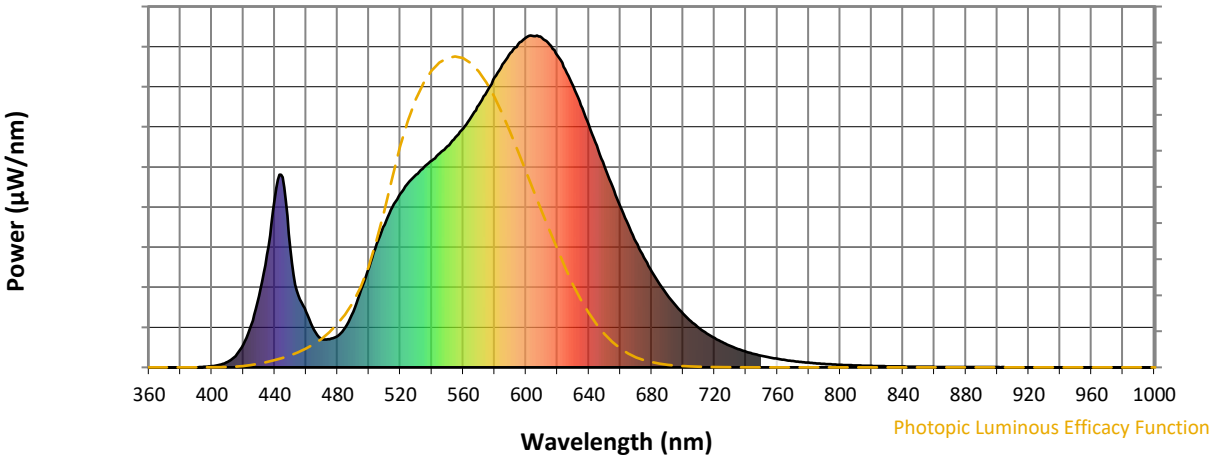


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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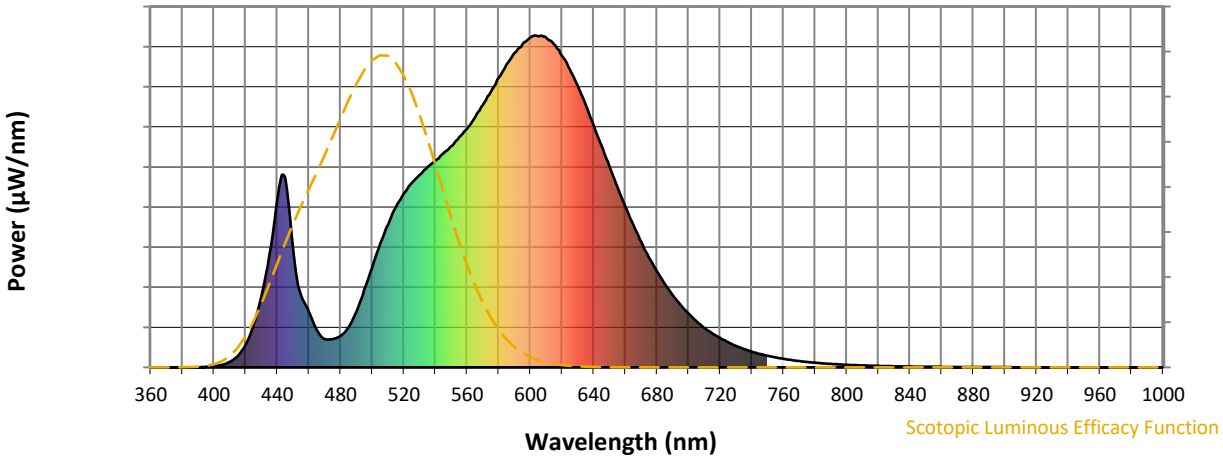
Scotopic Flux vs. Wavelength



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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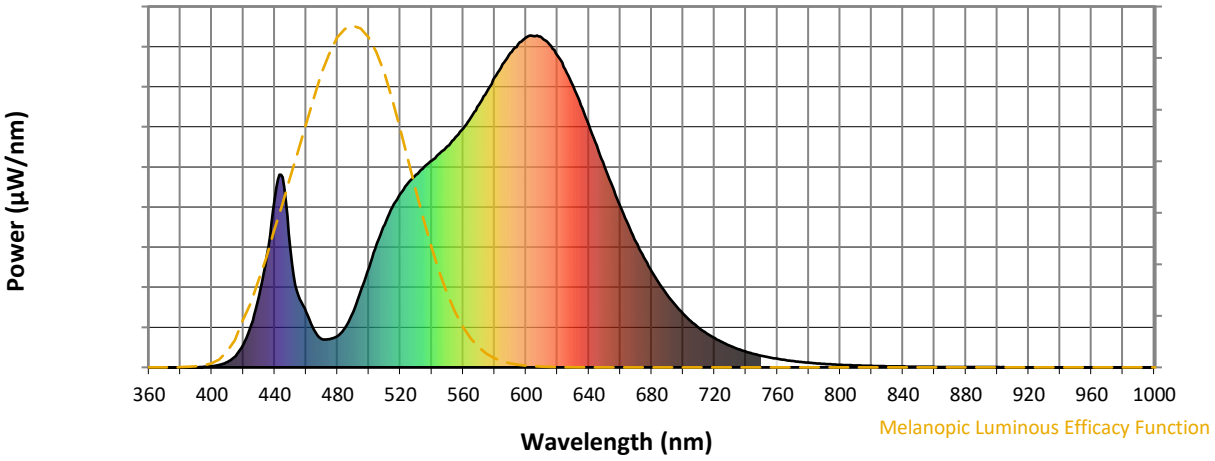
Melanopic Flux vs. Wavelength



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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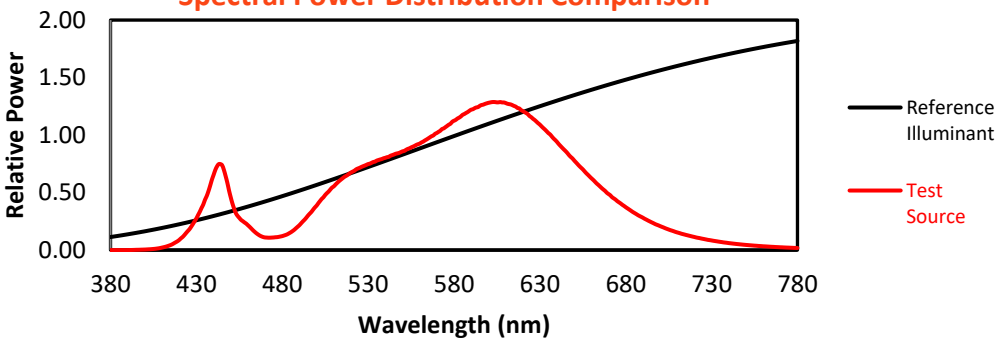
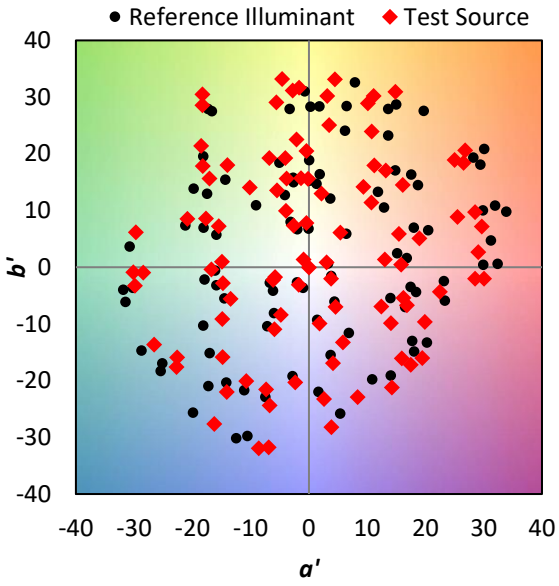
Summary

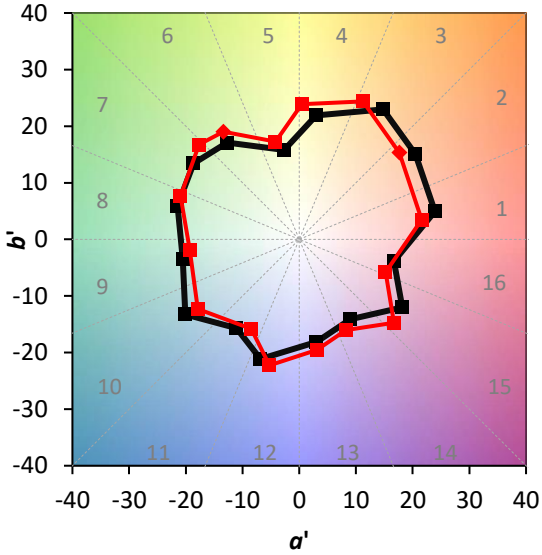
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

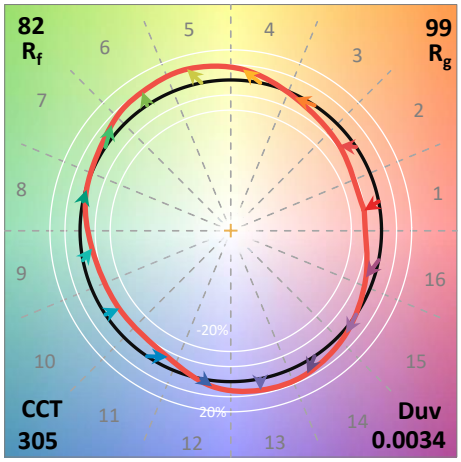
Spectral Power Distribution Comparison

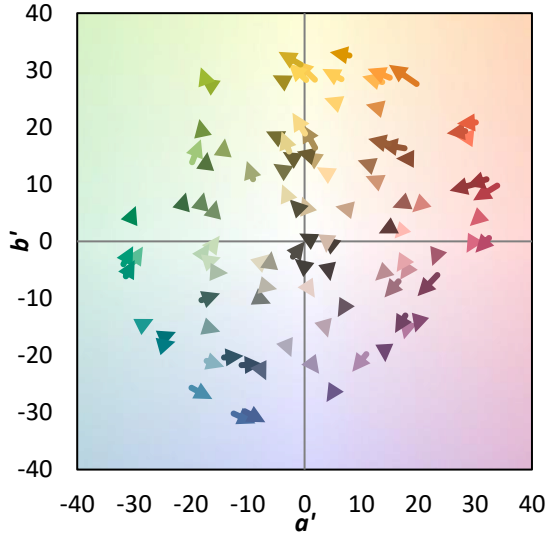


Color Vector Graphics









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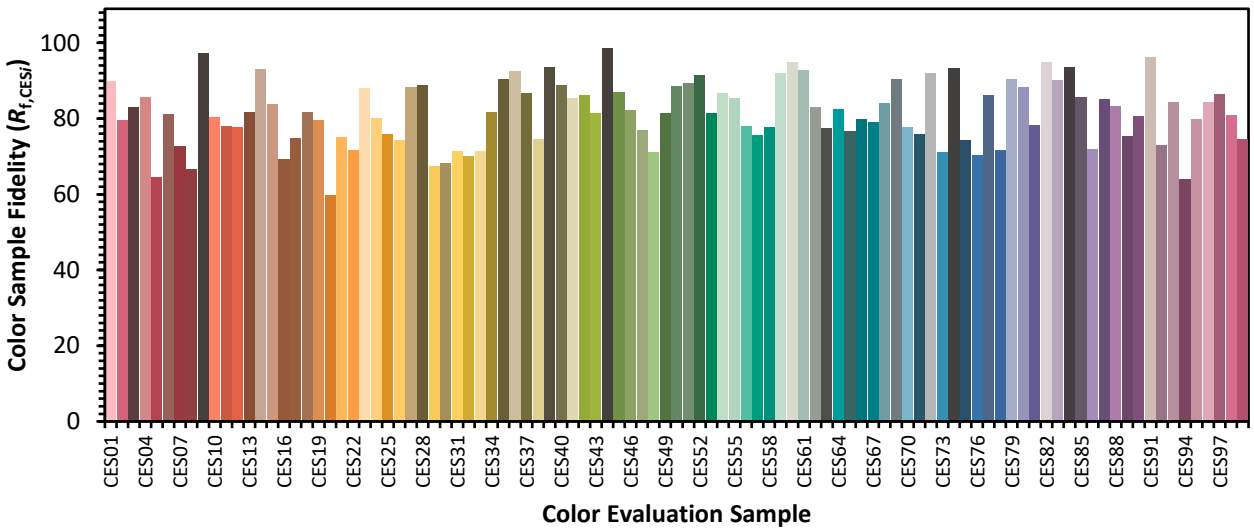
Individual Sample Fidelity Index ($R_{f,i}$)

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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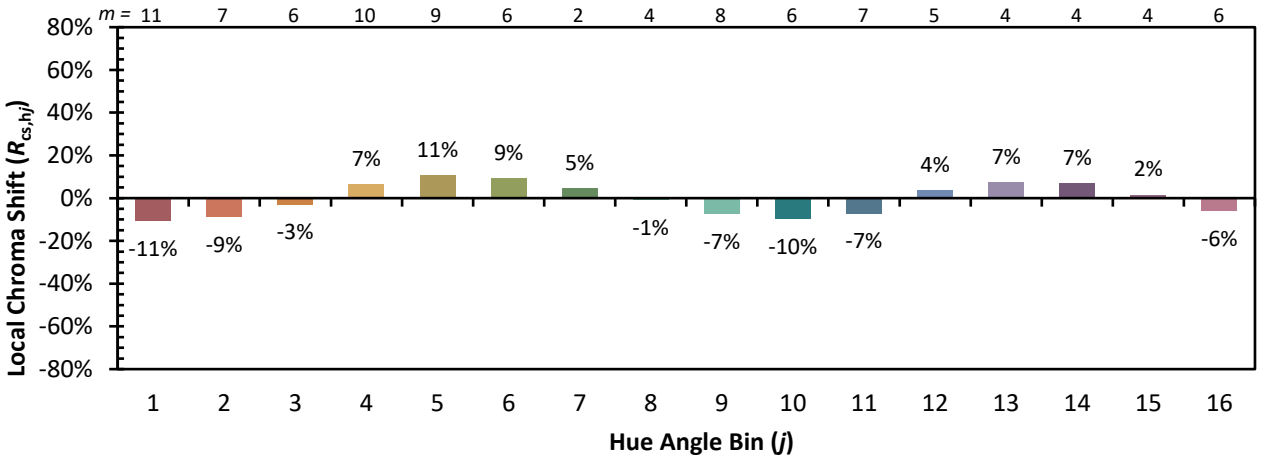
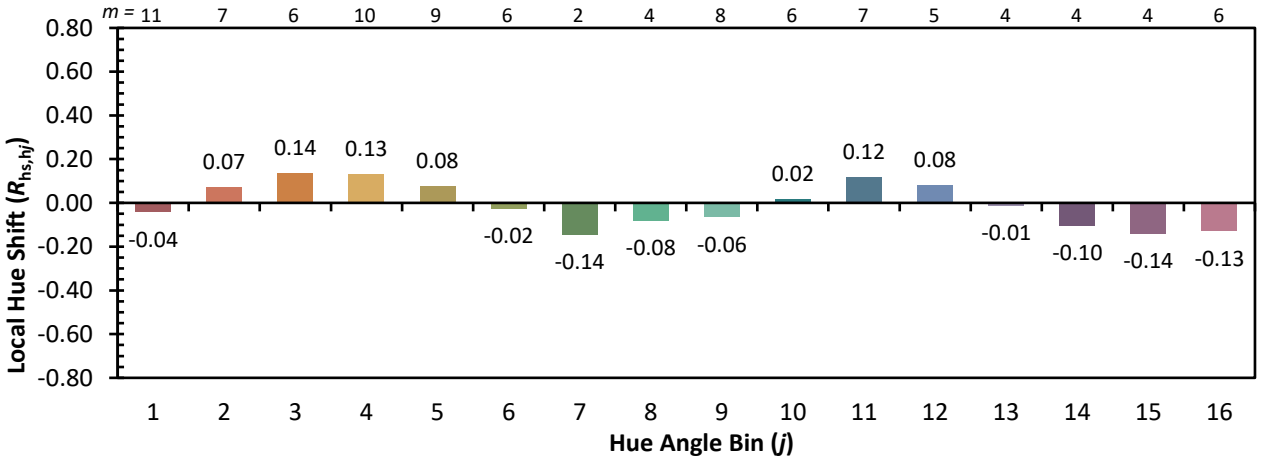
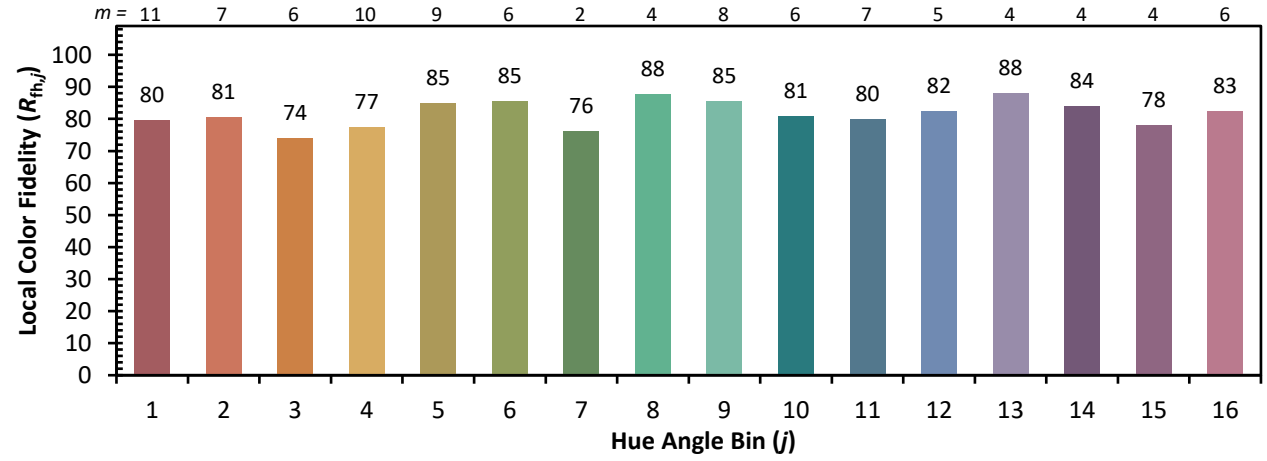
Color Rendition by Hue-Angle Bin







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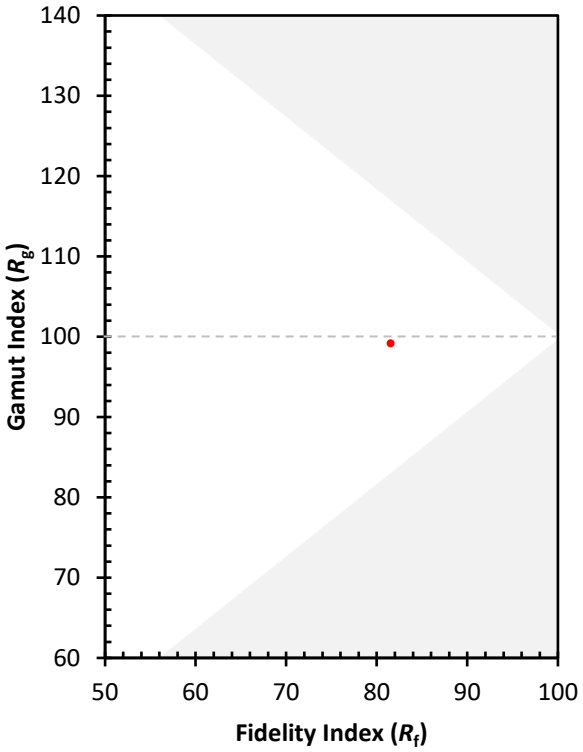
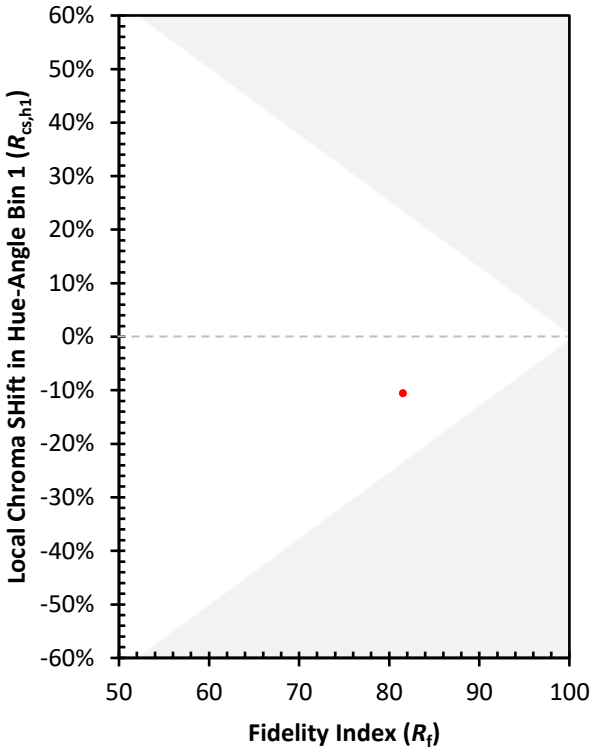
Measure Comparisons





(END OF REPORT)