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: P632059

Luminaire Tested: GWS-SA2B-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:	P632059
	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-SA2B-830-U-T2R-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4421.3 lumens
Efficiency:	N/A
Efficacy:	95.3 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B0 - 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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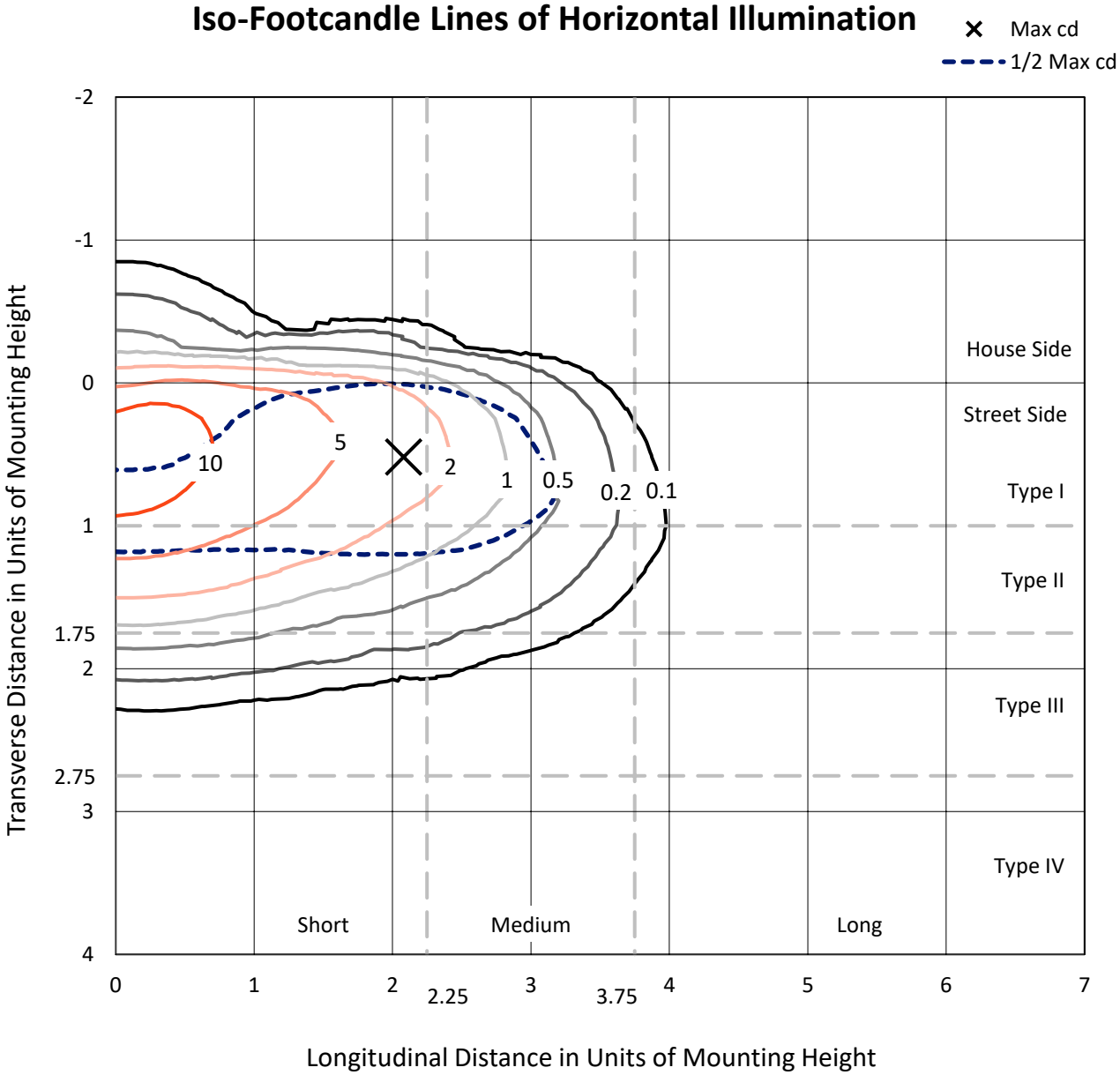
REPORT NUMBER: P632059
CATALOG NUMBER: GWS-SA2B-830-U-T2R-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 13.2 fc
Type II - Short - N/A

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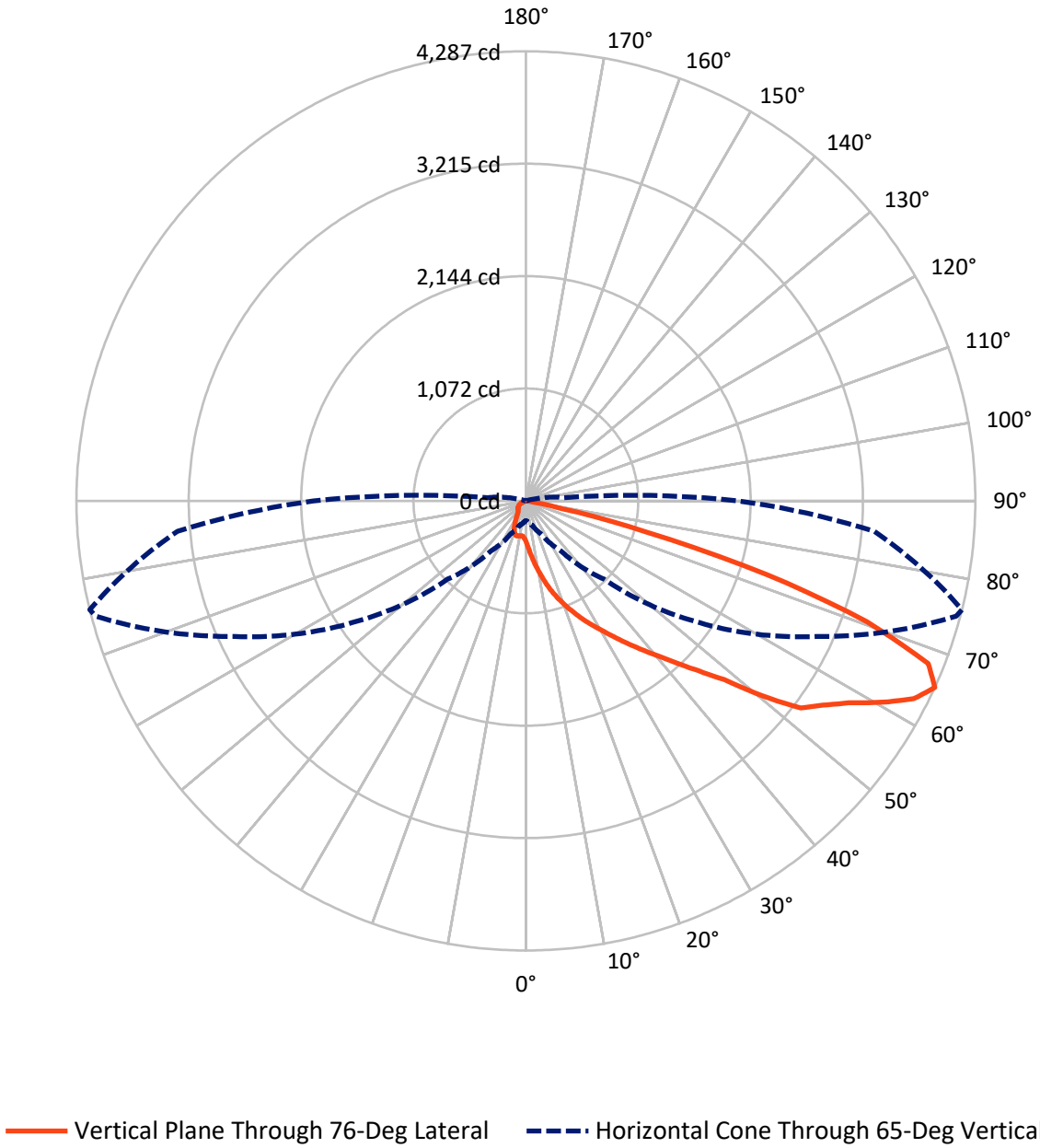
Luminous Intensity Polar Plot



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REPORT NUMBER: P632059
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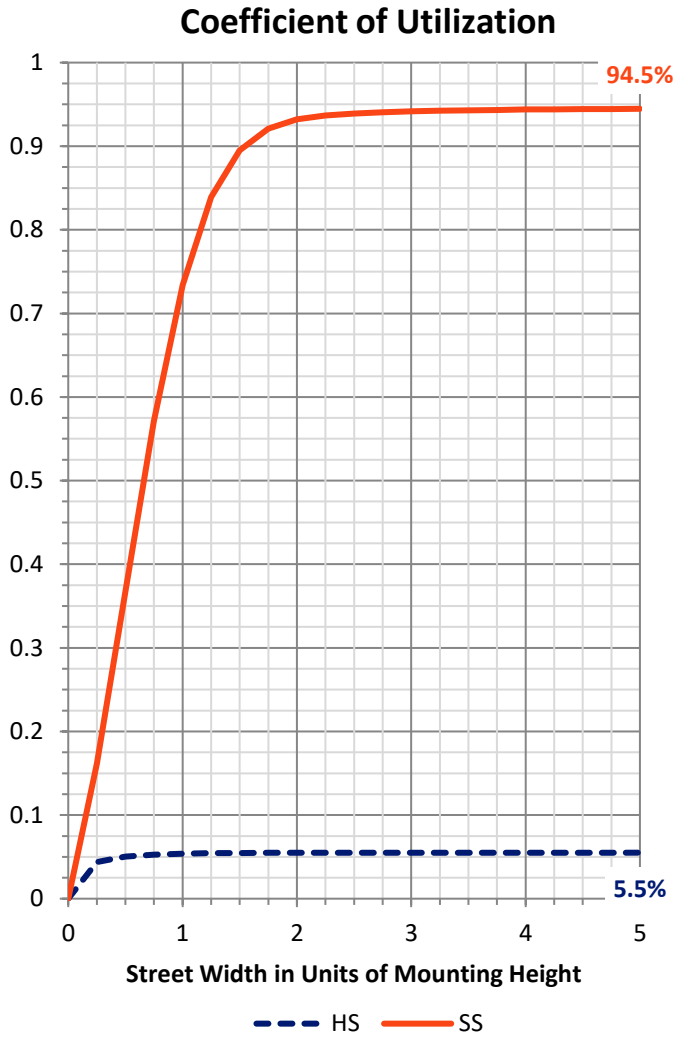
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	244.5	0.0	244.5
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	4176.8	0.0	4176.8
	% Fixture	94.5	0.0	94.5
Total	Lumens	4421.3	0.0	4421.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.6	1.1
10°-20°	180.7	4.1
20°-30°	368.7	8.3
30°-40°	655.7	14.8
40°-50°	969.2	21.9
50°-60°	1109.7	25.1
60°-70°	846.6	19.1
70°-80°	237.2	5.4
80°-90°	6.0	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°	4421.3	100.0
0°-180°	4421.3	100.0



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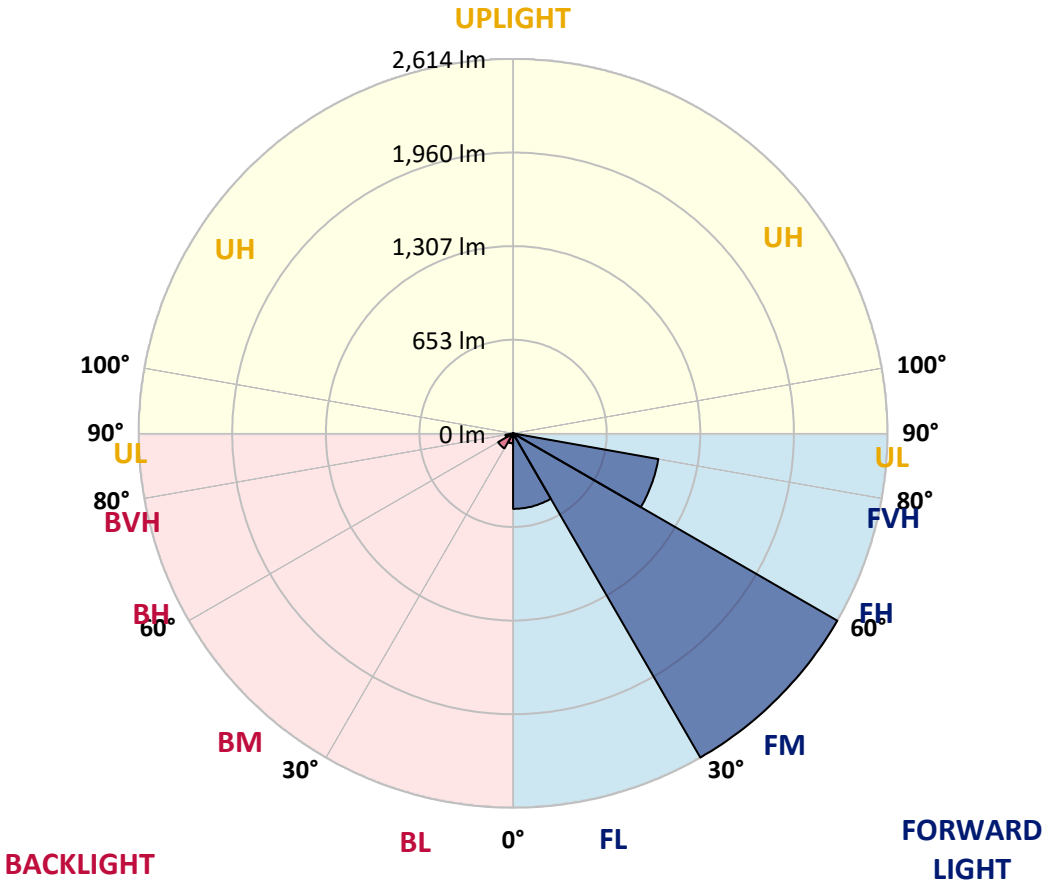
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	527.2	11.9			
FM	(30°-60°)	2613.9	59.1			
FH	(60°-80°)	1030.1	23.3			G1/1800
FVH	(80°-90°)	5.6	0.1			G0/10
BL	(0°-30°)	69.8	1.6	B0/110		
BM	(30°-60°)	120.6	2.7	B0/220		
BH	(60°-80°)	53.7	1.2	B0/110		G0/110
BVH	(80°-90°)	0.3	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: P632059
CATALOG NUMBER: GWS-SA2B-830-U-T2R-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	391.4	391.4	391.4	391.4	391.4	391.4	391.4	391.4	391.4	*391.4*	391.4
2.5°	603.3	612.3	605.2	593.5	570.7	548.7	520.4	481.4	450.4	*446.5*	417.4
5°	814.7	813.9	798.6	783.3	759.3	721.6	664.6	592.3	522.7	*516.8*	451.6
7.5°	940.5	941.7	933.0	921.2	897.7	858.7	799.4	712.1	610.4	*598.6*	498.3
10°	1046.2	1045.8	1039.5	1034.0	1012.8	986.9	923.2	827.3	704.7	*686.2*	550.6
12.5°	1125.6	1128.4	1131.5	1137.0	1128.0	1102.4	1042.3	937.7	800.2	*779.7*	610.4
15°	1188.5	1189.3	1201.1	1222.3	1229.8	1216.4	1161.8	1044.6	894.5	*876.8*	679.1
17.5°	1207.4	1208.9	1229.0	1267.9	1307.2	1314.6	1273.4	1152.3	987.3	*968.4*	745.9
20°	1247.0	1250.6	1265.5	1299.7	1349.2	1389.3	1373.2	1261.2	1080.0	*1055.3*	814.3
22.5°	1372.0	1374.0	1368.9	1373.2	1398.8	1445.1	1455.0	1366.5	1175.1	*1148.8*	888.2
25°	1587.0	1587.8	1552.0	1518.2	1499.0	1507.6	1529.2	1463.6	1269.4	*1243.5*	957.0
27.5°	1810.2	1813.0	1770.2	1712.8	1644.0	1604.7	1598.4	1552.4	1364.6	*1335.9*	1025.0
30°	2020.5	2020.5	1975.3	1905.4	1813.4	1736.7	1691.6	1642.0	1466.4	*1434.9*	1094.6
32.5°	2209.5	2208.0	2150.2	2074.4	1983.6	1899.5	1804.3	1735.6	1579.5	*1544.6*	1174.7
35°	2365.6	2361.6	2296.0	2223.3	2126.2	2063.7	1957.6	1836.2	1702.2	*1667.2*	1257.3
37.5°	2483.5	2479.2	2419.0	2342.0	2252.0	2211.5	2122.7	1956.8	1831.5	*1799.6*	1348.8
40°	2547.5	2538.9	2497.2	2439.9	2364.4	2329.0	2292.1	2106.6	1983.6	*1943.9*	1456.9
42.5°	2566.4	2556.2	2528.7	2502.0	2456.4	2428.5	2468.2	2275.6	2150.6	*2116.4*	1580.3
45°	2510.6	2504.7	2502.3	2521.6	2529.9	2537.7	2635.6	2462.7	2334.9	*2309.0*	1735.6
47.5°	2376.2	2374.6	2395.4	2475.6	2562.9	2645.8	2817.5	2693.4	2573.9	*2546.0*	1952.5
50°	2127.8	2143.9	2202.1	2342.8	2517.3	2707.1	2987.7	3013.3	2960.6	*2919.7*	2235.5
52.5°	1739.5	1770.5	1901.0	2114.8	2365.6	2689.8	3066.3	3269.5	3323.4	*3280.9*	2438.3
55°	1365.0	1394.0	1510.4	1781.6	2116.0	2558.2	3069.9	3357.9	3475.5	*3436.2*	2575.4
57.5°	1016.7	1043.5	1149.2	1408.6	1776.4	2299.2	2985.8	3407.1	3655.9	*3630.7*	2792.0
60°	664.6	690.9	786.4	1013.2	1377.9	1921.9	2778.6	3396.9	3901.5	*3899.1*	3058.1
62.5°	368.7	389.5	458.7	635.5	961.7	1488.4	2453.2	3294.3	4139.3	*4154.2*	3277.4
65°	*188.6*	*202.0*	*244.1*	*349.4*	*582.1*	*1055.3*	*2025.2*	*3059.3*	*4249.3*	*4287.0*	*3335.2*
67.5°	123.4	127.7	137.9	181.6	311.7	663.8	1524.1	2682.4	4094.5	*4138.5*	3141.4
70°	100.2	103.8	109.7	121.0	160.7	352.5	1001.0	2142.3	3421.2	*3451.1*	2501.6
72.5°	73.5	78.2	89.6	97.1	115.9	193.4	520.7	1406.2	2349.5	*2402.1*	1572.1
75°	54.2	57.0	66.4	76.6	94.7	122.2	199.3	739.3	1213.2	*1182.6*	660.3
77.5°	32.6	34.6	42.4	49.1	67.6	76.2	69.6	273.1	369.0	*347.0*	159.6
80°	16.1	18.1	27.9	36.9	43.2	30.7	29.1	76.2	82.1	*82.1*	40.1
82.5°	5.5	7.1	14.9	24.4	21.2	11.8	13.8	19.7	22.0	*23.2*	11.8
85°	0.0	0.0	3.5	7.1	3.1	1.6	3.5	4.3	5.5	*5.9*	3.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.2	*1.6*	1.6
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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REPORT NUMBER: P632059
CATALOG NUMBER: GWS-SA2B-830-U-T2R-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	391.4	391.4	391.4	391.4	391.4	391.4	391.4	391.4	391.4	391.4	391.4
2.5°	401.7	383.2	355.3	330.1	310.9	292.8	279.0	268.0	266.1	259.8	260.6
5°	419.7	386.3	334.9	295.2	267.3	248.4	232.7	220.9	215.8	210.7	206.7
7.5°	447.6	399.3	327.0	278.7	246.0	216.9	192.6	172.9	163.5	157.6	153.7
10°	481.8	417.4	327.4	268.8	220.5	176.1	142.7	121.0	110.8	107.7	107.3
12.5°	522.7	440.2	330.5	252.7	183.5	130.9	105.7	95.9	92.8	90.0	90.0
15°	565.9	465.7	330.5	223.2	139.9	102.2	91.6	85.3	81.4	79.8	79.0
17.5°	611.5	489.7	322.7	182.8	107.3	90.0	81.4	75.5	72.3	70.0	69.2
20°	660.3	512.5	303.0	139.9	92.0	80.6	72.3	66.4	63.3	60.9	60.9
22.5°	709.8	533.7	271.2	107.7	81.4	71.5	63.7	58.2	55.0	52.7	52.7
25°	755.8	547.9	230.3	88.8	73.5	63.7	56.6	51.1	47.6	46.0	45.2
27.5°	798.6	556.9	185.1	78.2	66.0	57.0	49.5	44.4	41.7	40.5	39.7
30°	843.0	559.3	141.5	71.1	59.7	50.3	43.2	39.3	36.9	35.4	35.4
32.5°	886.3	556.5	108.1	65.2	54.2	44.4	38.5	35.0	33.0	31.8	31.4
35°	930.3	543.9	87.6	60.1	48.7	38.9	34.2	31.4	30.3	28.7	28.7
37.5°	978.2	527.0	76.2	55.0	43.2	35.0	30.7	28.7	27.1	25.9	25.5
40°	1038.0	507.4	70.0	50.7	38.1	31.4	27.5	25.5	24.4	23.2	22.8
42.5°	1108.7	488.1	66.8	46.0	34.2	27.9	24.8	22.4	21.2	19.7	19.3
45°	1208.9	483.8	63.3	40.9	30.7	25.2	21.6	19.3	17.7	16.5	16.1
47.5°	1370.1	496.0	57.4	35.4	27.1	22.0	18.5	16.5	14.5	13.4	12.6
50°	1530.0	492.8	51.5	30.7	24.0	18.9	15.7	13.8	11.8	10.6	10.2
52.5°	1617.3	477.9	46.0	27.1	20.8	16.1	13.4	11.0	9.8	8.6	8.3
55°	1696.3	472.0	40.5	23.6	17.7	14.1	11.0	9.0	8.3	7.1	6.7
57.5°	1851.1	485.8	35.8	20.4	15.3	12.2	9.4	7.5	6.7	5.5	5.1
60°	2013.0	487.3	30.7	17.7	13.4	10.2	7.5	5.9	5.1	3.9	3.5
62.5°	2097.5	447.6	25.2	14.9	11.0	8.6	6.3	4.7	3.9	2.4	2.4
65°	*2026.8*	*362.0*	*21.2*	*12.2*	*8.6*	*6.7*	*4.7*	*3.5*	*2.4*	*1.2*	*0.4*
67.5°	1793.7	257.4	17.7	9.8	6.3	4.7	3.5	2.4	0.4	0.0	0.0
70°	1313.5	147.0	13.8	7.1	4.7	3.1	2.4	1.2	0.0	0.0	0.0
72.5°	807.3	78.6	10.2	4.7	3.5	2.4	2.0	0.8	0.0	0.0	0.0
75°	306.2	37.7	6.3	3.1	2.8	2.0	1.2	0.4	0.0	0.0	0.0
77.5°	82.9	18.5	3.5	2.4	2.0	1.2	0.8	0.0	0.0	0.0	0.0
80°	21.6	8.6	2.4	1.6	1.2	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	7.5	3.9	1.2	1.2	0.8	0.4	0.0	0.0	0.0	0.0	0.0
85°	3.1	1.6	0.8	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	0.4	0.4	0.4	0.4	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

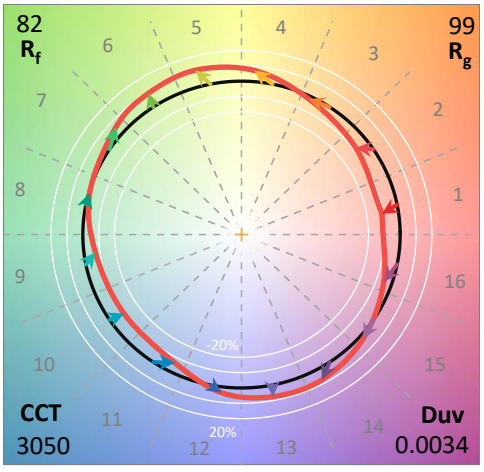
Test Information

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

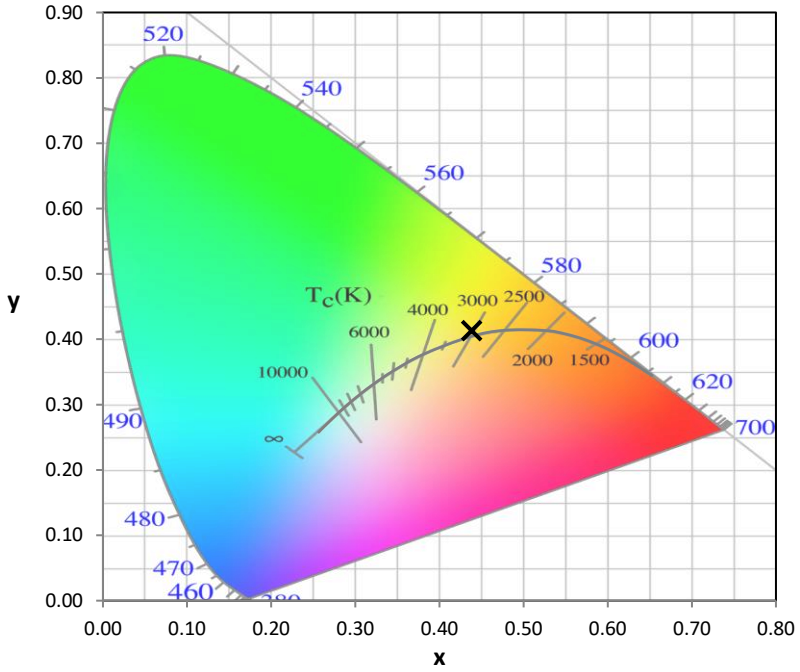
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

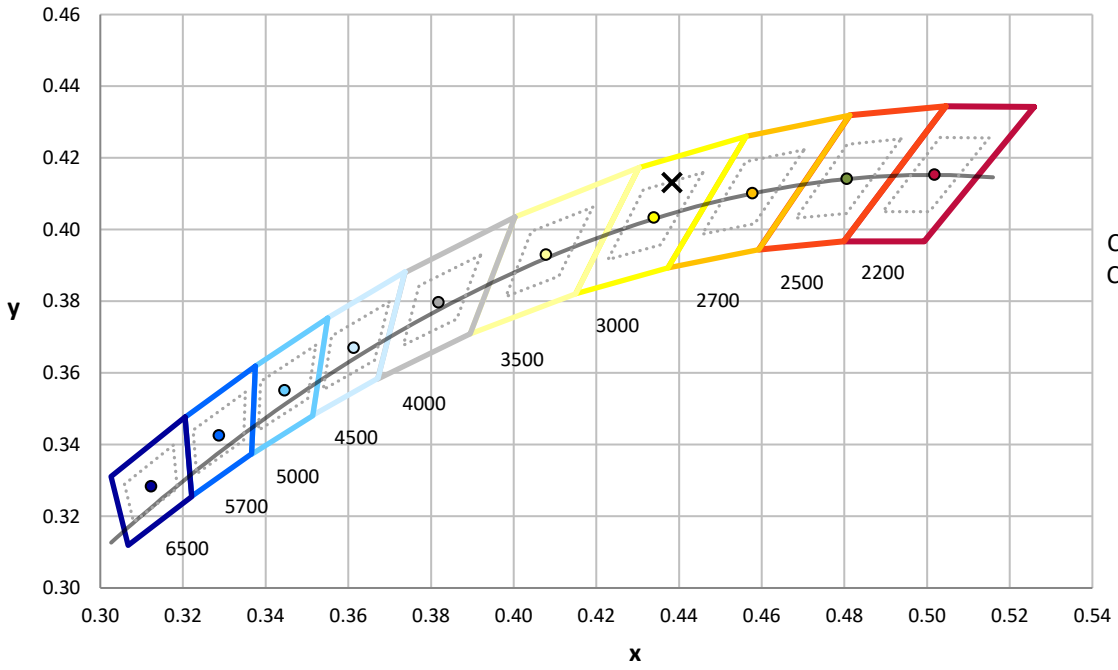
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

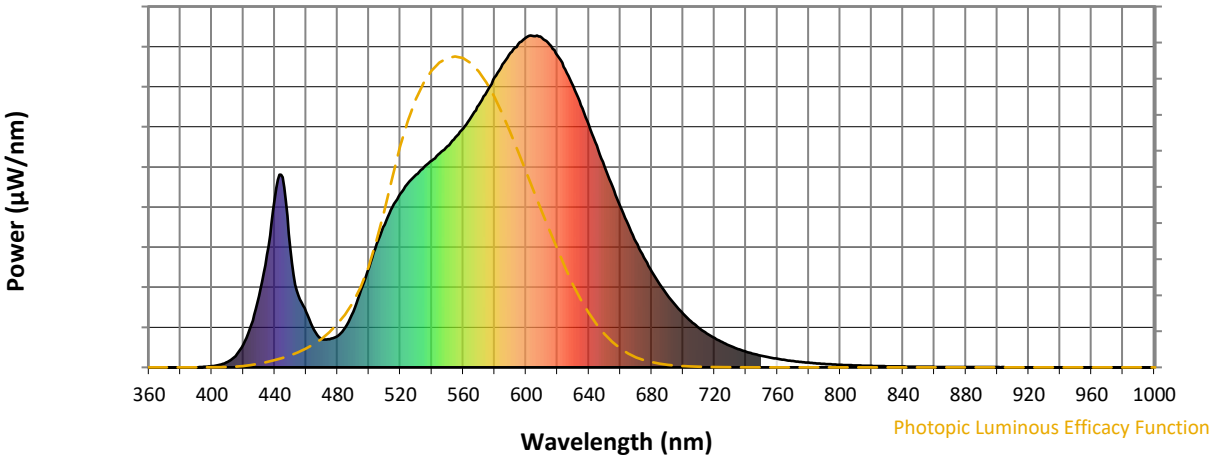


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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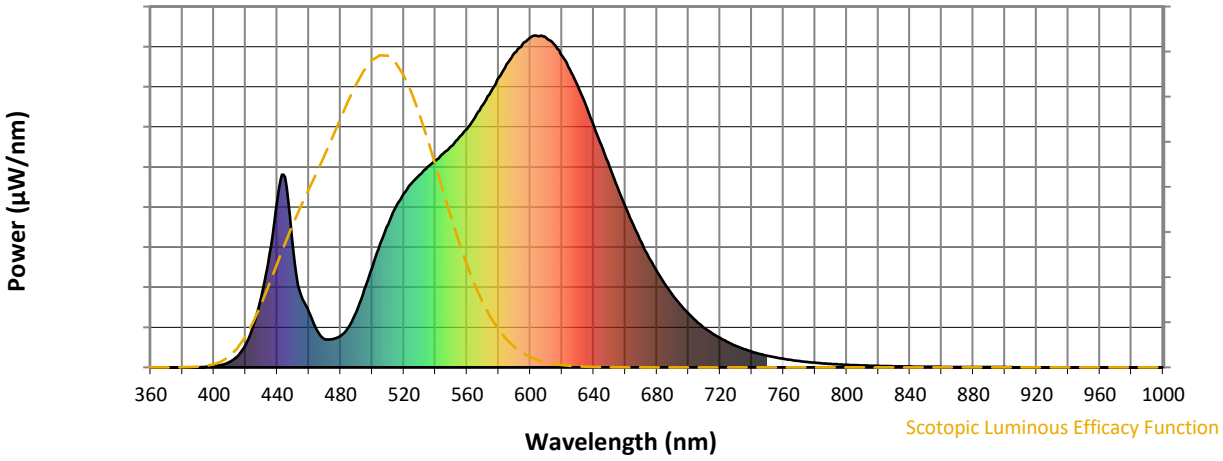
Scotopic Flux vs. Wavelength



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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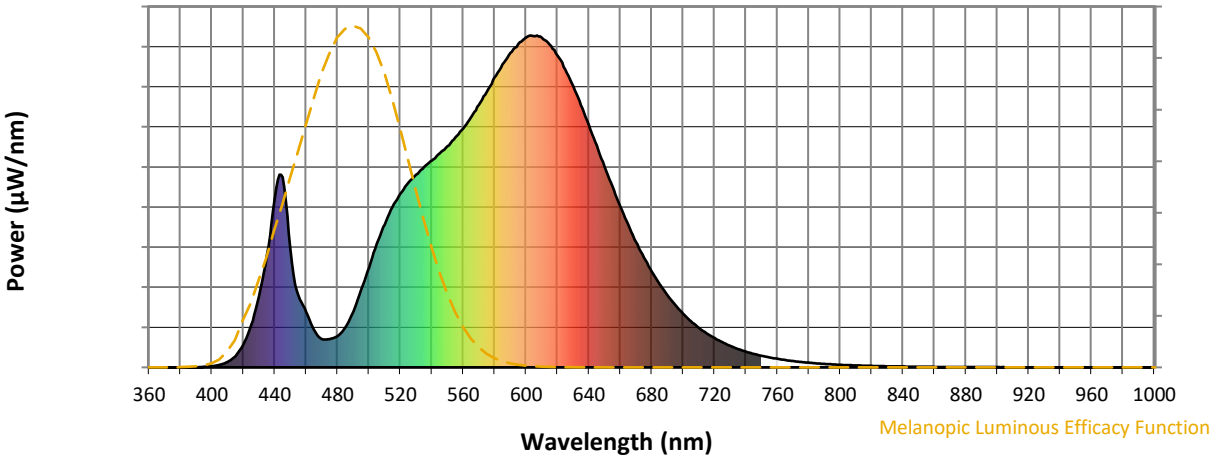
Melanopic Flux vs. Wavelength



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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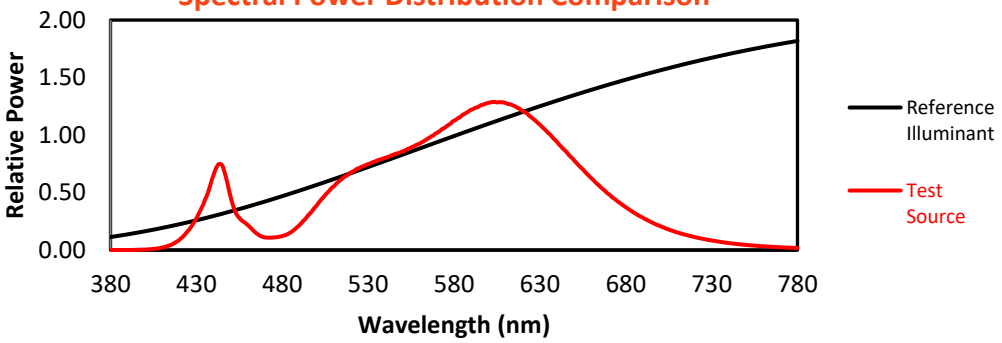
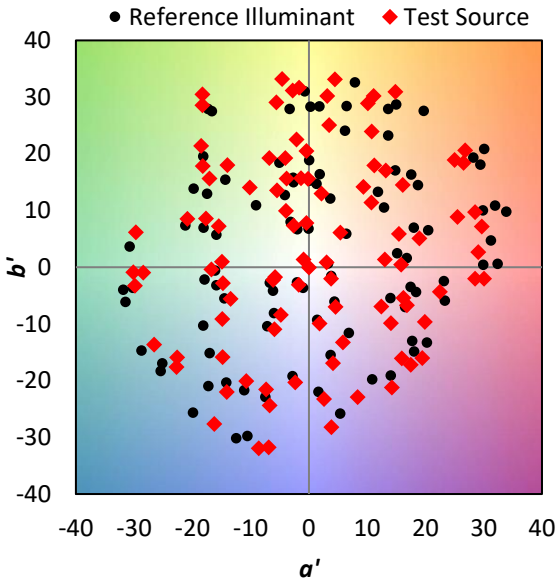
Summary

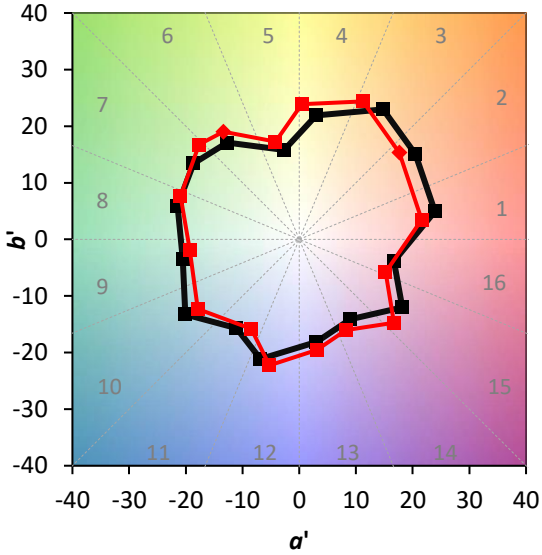
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

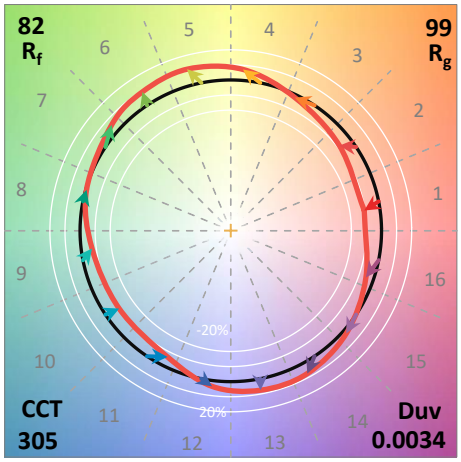
Spectral Power Distribution Comparison

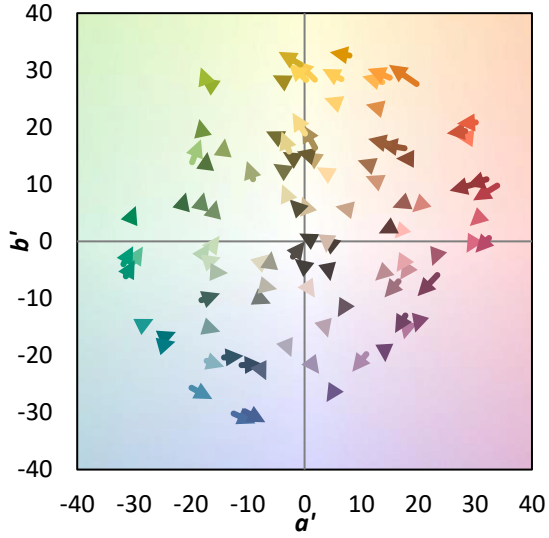


Color Vector Graphics









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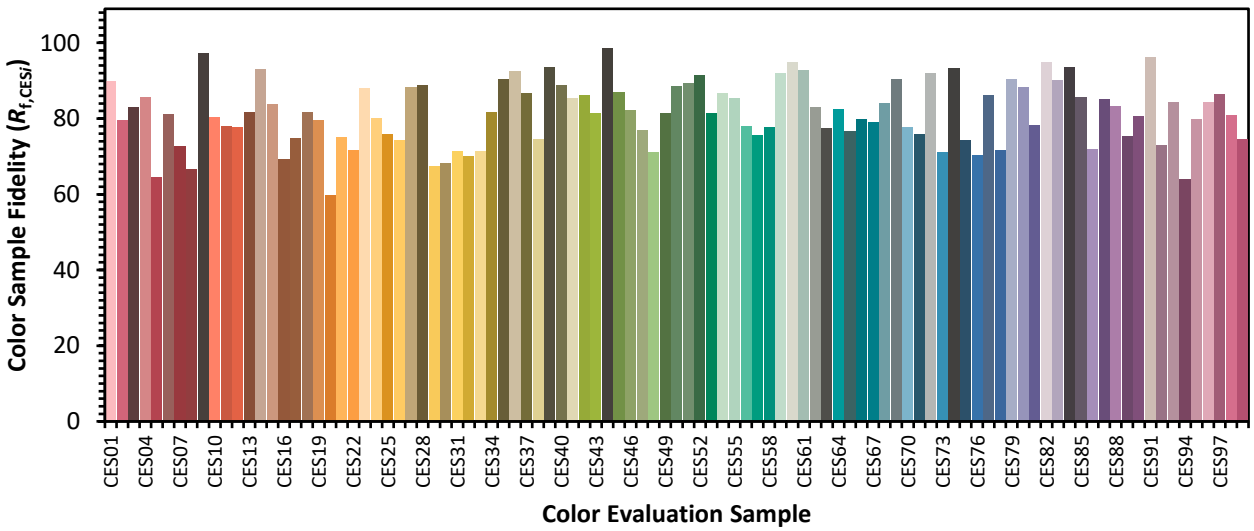
Individual Sample Fidelity Index ($R_{f,i}$)

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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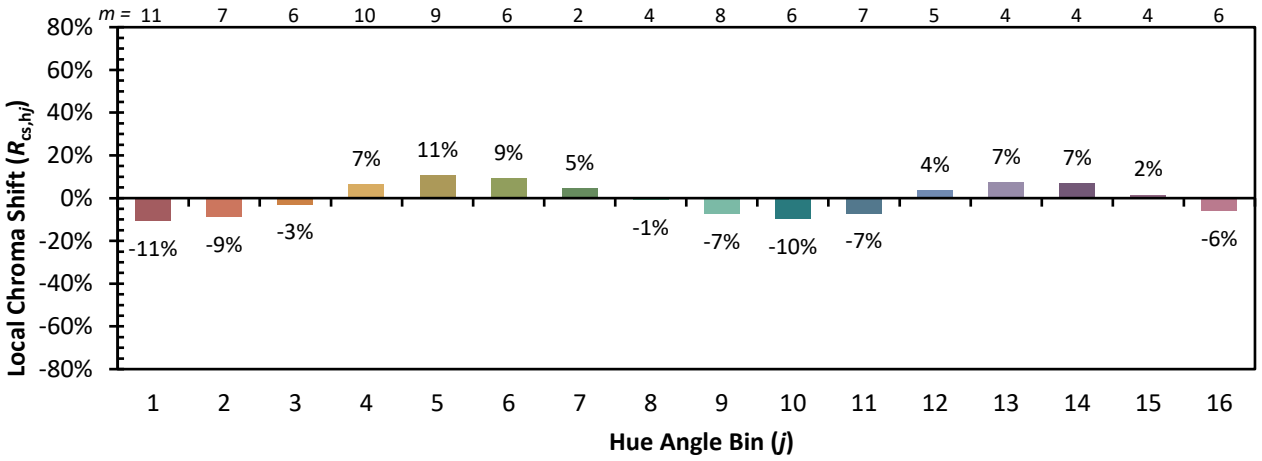
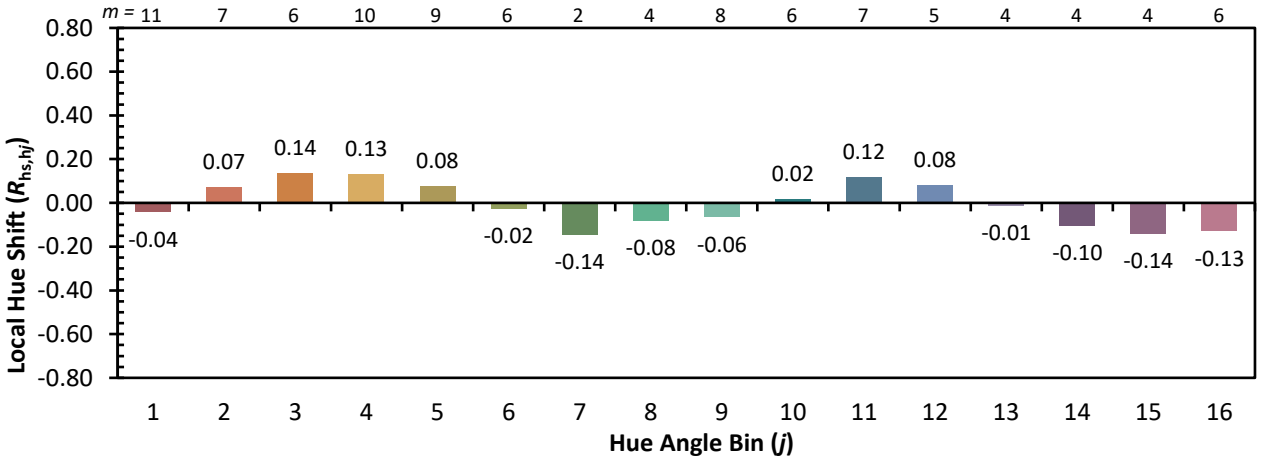
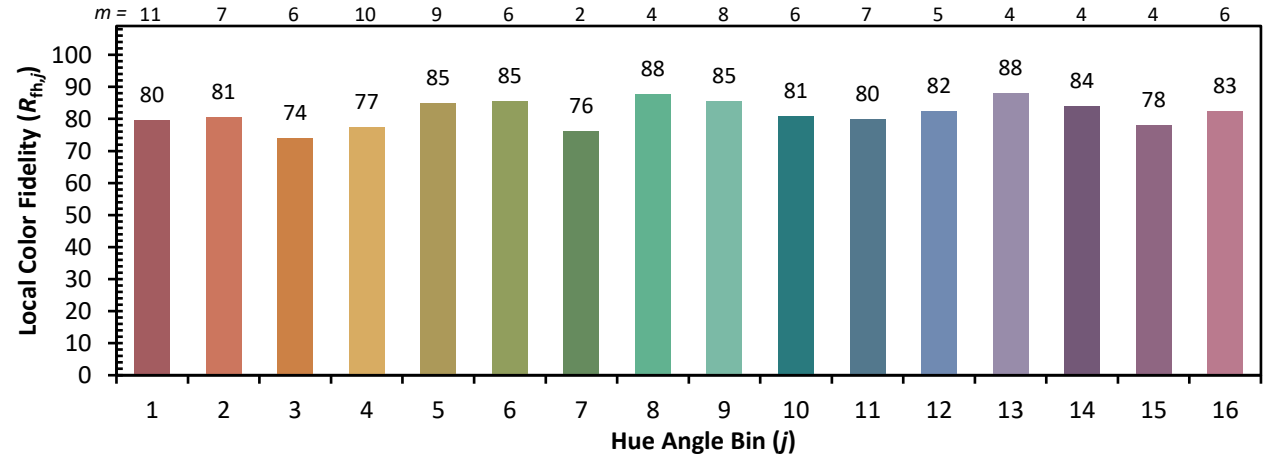
Color Rendition by Hue-Angle Bin







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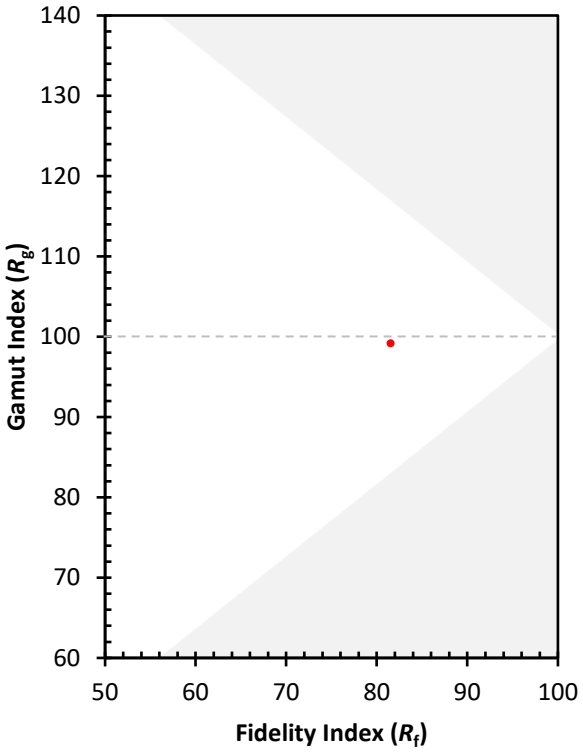
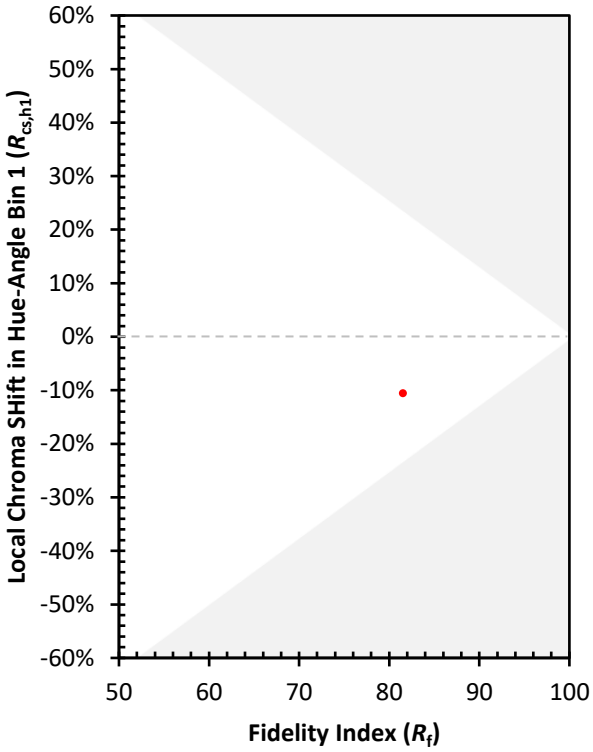
Measure Comparisons





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