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: P632029

Luminaire Tested: GWS-SA2B-830-U-AFL-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:	P632029
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2B-830-U-AFL-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4597.4 lumens
Efficiency:	N/A
Efficacy:	99.1 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
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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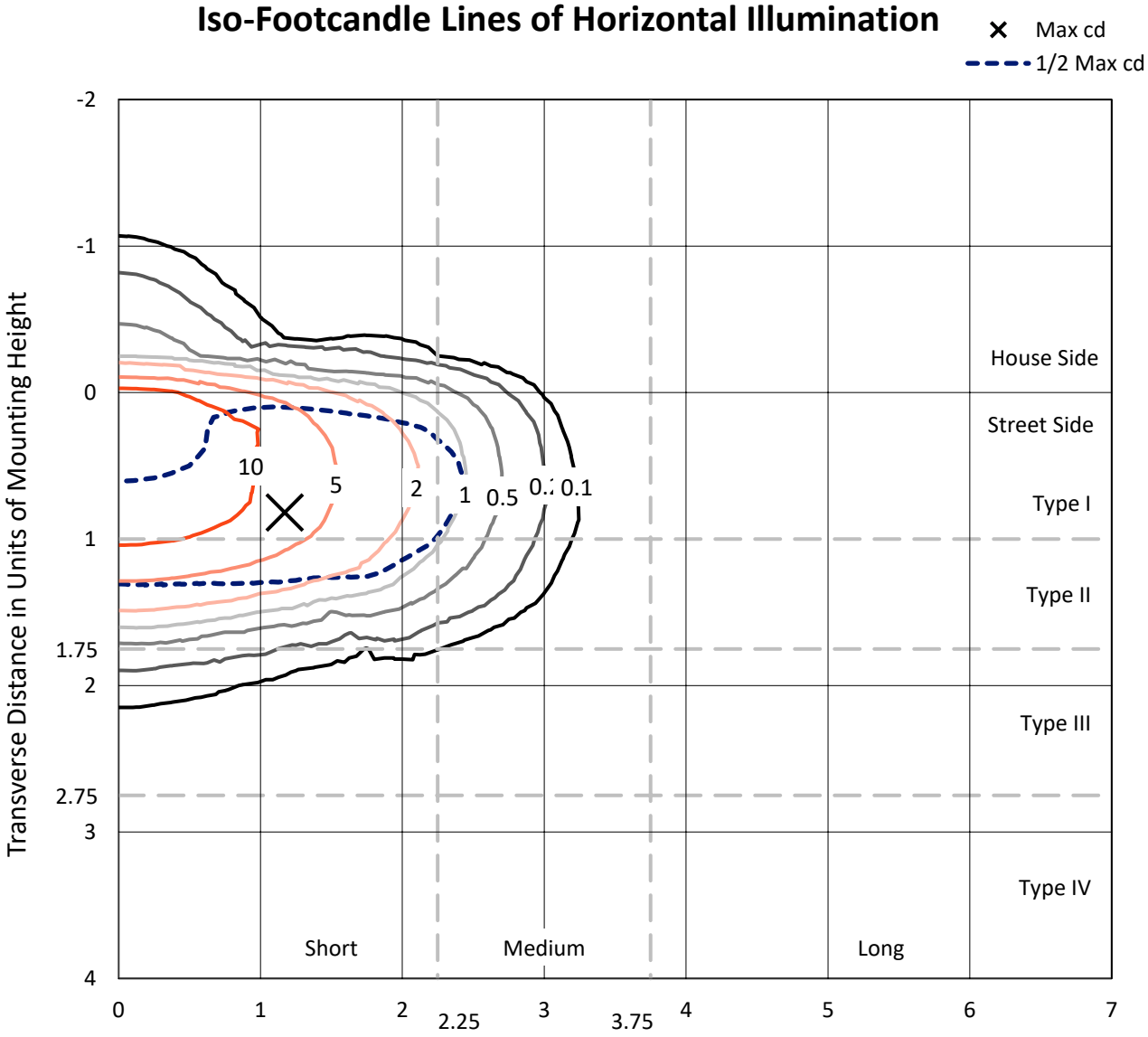
REPORT NUMBER: P632029
CATALOG NUMBER: GWS-SA2B-830-U-AFL-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 15.6 fc
Type II - Short - N/A

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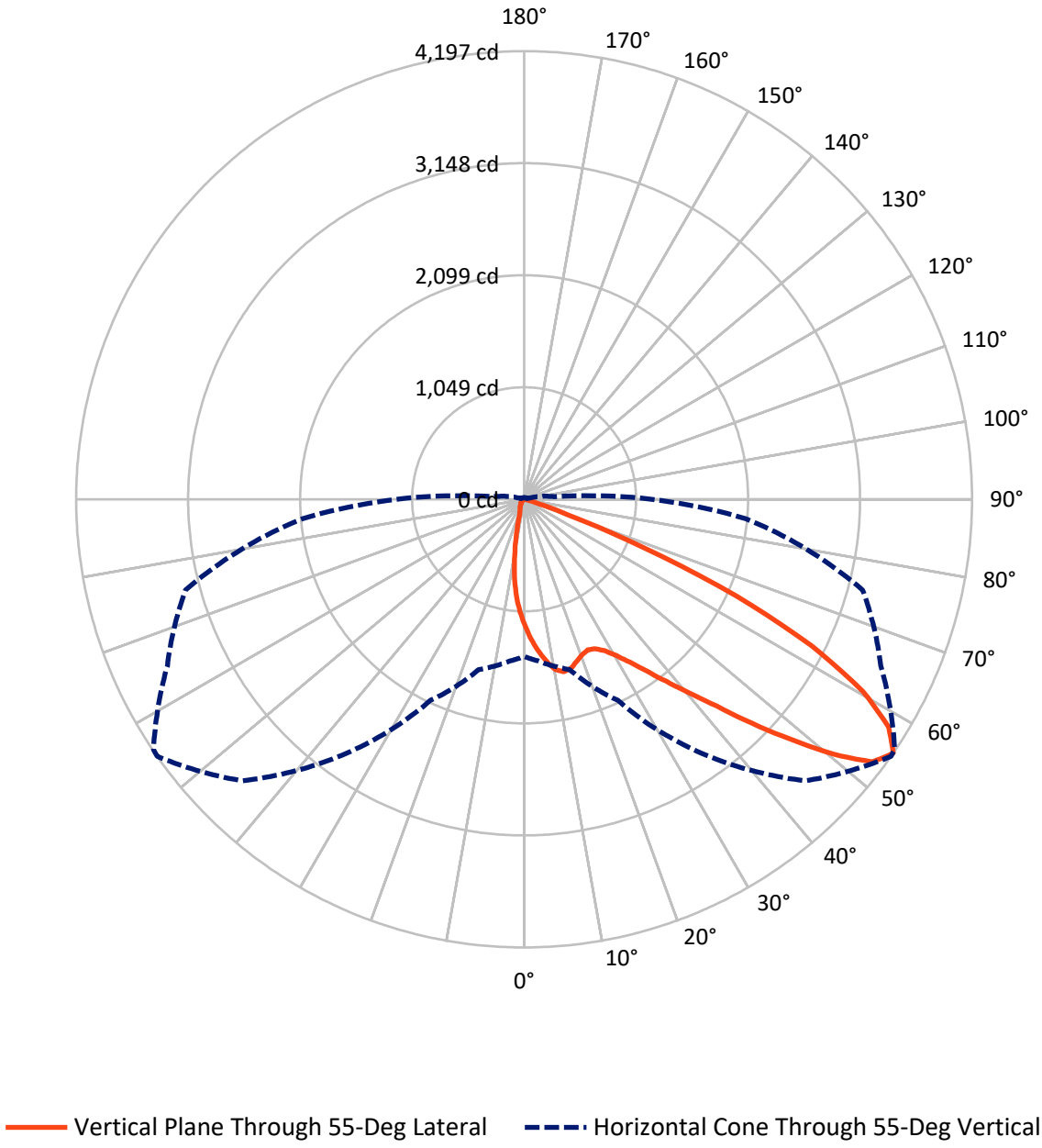
Luminous Intensity Polar Plot



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REPORT NUMBER: P632029
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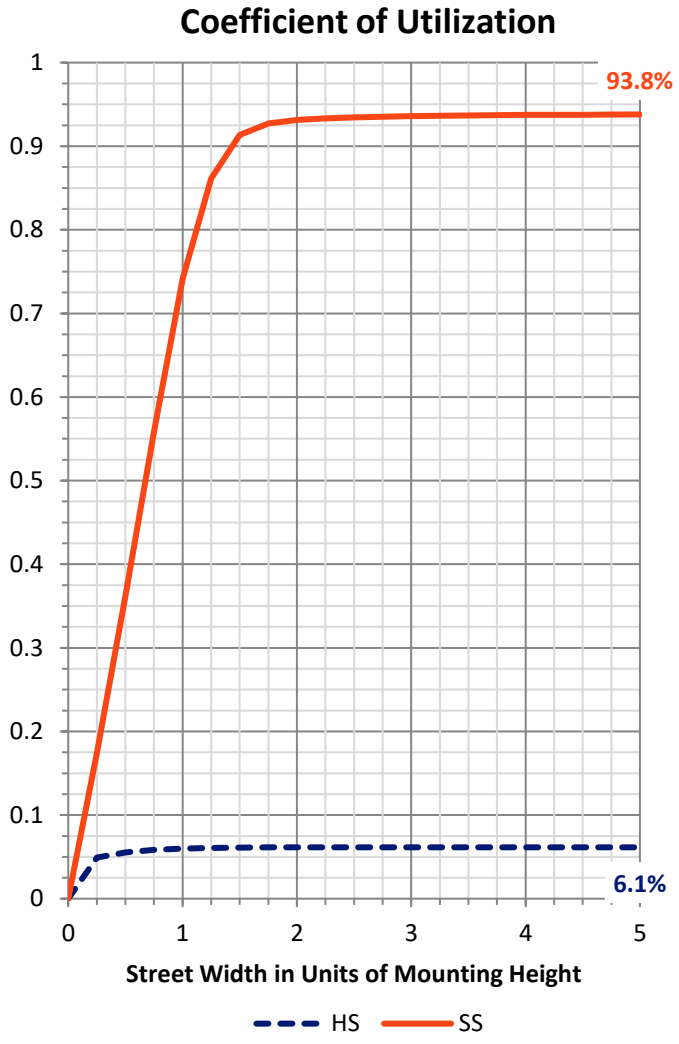
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	283.7	0.0	283.7
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	4313.7	0.0	4313.7
	% Fixture	93.8	0.0	93.8
Total	Lumens	4597.4	0.0	4597.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.0	2.3
10°-20°	253.1	5.5
20°-30°	421.4	9.2
30°-40°	718.2	15.6
40°-50°	1172.3	25.5
50°-60°	1227.3	26.7
60°-70°	619.0	13.5
70°-80°	78.2	1.7
80°-90°	3.0	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°	4597.4	100.0
0°-180°	4597.4	100.0



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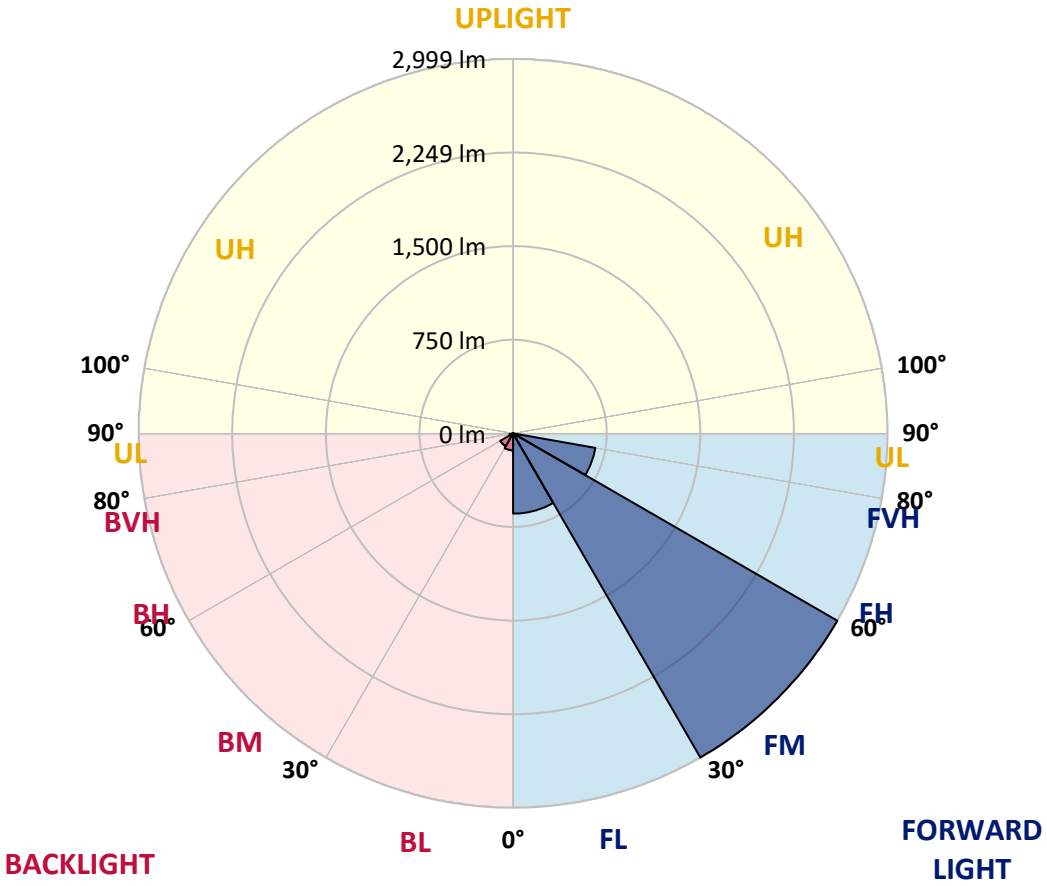
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	643.1	14.0			
FM	(30°-60°)	2999.1	65.2			
FH	(60°-80°)	668.8	14.5			G1/1800
FVH	(80°-90°)	2.7	0.1			G0/10
BL	(0°-30°)	136.3	3.0	B1/500		
BM	(30°-60°)	118.6	2.6	B0/220		
BH	(60°-80°)	28.5	0.6	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: B1-U0-G1
Type II Short



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Scaled Data Report

REPORT NUMBER: P632029
CATALOG NUMBER: GWS-SA2B-830-U-AFL-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1187.7	1187.7	1187.7	1187.7	1187.7	1187.7	1187.7	1187.7	1187.7	1187.7	1187.7
2.5°	1384.6	1377.9	1388.1	1376.3	1356.3	1339.4	1317.4	1309.5	1274.2	1240.8	1208.5
5°	1552.8	1554.8	1551.6	1535.1	1506.8	1475.4	1431.0	1421.2	1359.4	1295.8	1227.0
7.5°	1594.5	1593.3	1600.0	1606.3	1601.5	1585.8	1537.5	1527.7	1451.0	1355.5	1255.3
10°	1466.0	1466.7	1480.5	1522.9	1575.6	1630.2	1622.8	1617.3	1542.2	1423.1	1286.7
12.5°	1284.4	1291.5	1306.0	1366.5	1455.7	1579.9	1657.0	1662.5	1625.9	1497.4	1323.7
15°	1205.8	1207.3	1219.1	1255.7	1322.1	1475.4	1642.4	1657.7	1695.9	1572.1	1363.8
17.5°	1203.8	1205.8	1210.9	1227.0	1270.2	1393.2	1595.7	1622.4	1748.5	1652.2	1411.7
20°	1277.7	1276.5	1273.0	1264.3	1283.2	1366.1	1552.4	1581.9	1777.2	1730.5	1460.1
22.5°	1411.7	1410.1	1394.4	1358.7	1343.3	1390.9	1531.2	1557.9	1794.5	1800.0	1499.8
25°	1566.2	1577.2	1547.7	1493.5	1455.7	1454.2	1550.1	1568.9	1809.5	1861.7	1526.9
27.5°	1735.6	1739.1	1713.9	1653.0	1598.4	1555.6	1604.7	1618.8	1826.0	1916.7	1542.2
30°	1921.5	1920.3	1891.6	1820.9	1754.4	1692.7	1696.7	1702.2	1864.5	1979.6	1559.1
32.5°	2153.7	2158.8	2107.8	2011.5	1931.7	1846.4	1816.9	1817.7	1934.0	2060.6	1584.6
35°	2469.3	2456.8	2389.2	2252.0	2116.0	2024.0	1973.7	1969.4	2041.3	2169.5	1629.1
37.5°	2770.0	2771.2	2700.4	2549.5	2377.8	2232.7	2161.6	2149.8	2192.3	2320.4	1702.9
40°	2978.7	2982.6	2953.1	2874.1	2692.2	2487.0	2382.5	2370.3	2388.0	2511.4	1799.6
42.5°	3089.1	3100.1	3108.4	3126.8	2988.9	2804.6	2643.8	2642.6	2624.2	2729.1	1911.6
45°	3093.4	3109.9	3160.3	3286.4	3302.1	3166.9	2992.0	2965.7	2894.6	2962.2	2011.9
47.5°	2922.5	2960.6	3067.5	3317.5	3482.5	3527.3	3354.0	3337.9	3138.2	3146.5	2086.9
50°	2524.0	2563.7	2760.6	3158.3	3528.1	3813.4	3751.4	3717.9	3341.8	3268.3	2123.1
52.5°	2115.2	2151.4	2285.0	2779.4	3339.1	3903.4	4086.2	4046.5	3524.6	3310.8	2108.1
55°	1471.9	1520.2	1650.7	2077.5	2903.6	3728.2	4197.0	4188.8	3687.7	3284.1	2085.0
57.5°	721.6	769.5	899.6	1280.8	2151.0	3255.0	4027.6	4071.3	3785.2	3255.4	2066.1
60°	301.4	321.1	365.9	562.0	1203.4	2459.9	3645.2	3705.8	3725.4	3216.5	2064.1
62.5°	174.9	178.0	182.8	233.1	468.1	1410.1	3023.9	3109.9	3411.4	3165.0	2033.1
65°	132.1	133.2	131.3	143.1	193.4	534.9	2184.8	2301.9	2847.4	2963.7	1910.5
67.5°	108.5	108.5	103.4	105.7	121.4	200.4	1206.2	1369.7	2107.0	2435.9	1577.6
70°	86.5	88.4	86.1	82.9	86.9	110.8	429.2	532.1	1227.0	1438.4	920.1
72.5°	65.6	65.6	69.6	67.2	64.5	69.6	149.7	168.2	492.5	599.7	332.1
75°	50.7	52.3	55.0	52.7	48.7	41.3	71.9	76.2	148.6	139.5	74.3
77.5°	25.9	26.3	35.0	38.5	36.2	25.2	31.4	34.6	48.3	43.2	27.5
80°	15.7	16.5	19.7	30.3	24.0	13.4	13.0	13.8	22.8	19.7	11.4
82.5°	6.7	7.1	11.0	11.0	9.8	5.1	5.1	5.1	11.0	10.2	4.7
85°	0.0	0.0	2.0	1.6	1.6	2.0	2.0	2.0	2.8	3.9	2.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.2	1.2
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: P632029
CATALOG NUMBER: GWS-SA2B-830-U-AFL-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1187.7	1187.7	1187.7	1187.7	1187.7	1187.7	1187.7	1187.7	1187.7	1187.7	1187.7
2.5°	1187.7	1162.5	1128.7	1098.1	1056.8	1033.6	1001.4	975.1	952.7	945.6	942.5
5°	1188.1	1144.9	1072.5	1000.2	911.4	841.5	769.5	712.5	665.8	650.8	646.9
7.5°	1196.0	1132.3	1015.2	883.9	735.3	612.7	503.1	404.8	359.2	343.9	340.7
10°	1206.6	1121.7	948.7	744.4	531.0	373.4	264.5	201.6	171.7	155.2	157.6
12.5°	1220.3	1113.0	875.2	593.5	351.4	205.2	145.4	121.8	115.5	112.4	110.8
15°	1238.8	1102.8	784.1	443.7	215.4	132.1	112.0	105.7	103.4	101.8	101.4
17.5°	1257.7	1091.0	691.3	312.1	143.1	109.7	100.6	97.5	95.9	94.7	94.3
20°	1277.7	1071.0	582.5	215.0	112.8	98.6	92.8	89.2	87.2	85.3	84.9
22.5°	1286.3	1038.7	478.3	150.5	100.2	90.8	83.3	79.0	76.6	75.1	75.1
25°	1278.1	986.5	370.6	114.4	91.2	82.1	74.7	70.0	68.0	66.4	66.4
27.5°	1256.1	919.3	270.4	94.7	81.4	73.1	66.0	61.7	60.1	59.3	59.3
30°	1231.7	834.4	190.6	81.4	70.4	63.7	57.8	55.0	54.6	53.8	53.8
32.5°	1210.9	755.0	131.3	71.5	62.1	55.4	51.5	50.3	50.7	49.9	50.3
35°	1199.5	677.2	97.5	63.7	55.4	49.1	47.2	47.2	47.2	46.8	46.8
37.5°	1204.2	600.5	79.4	58.2	49.5	44.8	42.8	43.6	44.4	44.4	44.4
40°	1227.8	532.5	70.4	53.1	44.4	40.9	39.3	40.5	41.7	42.4	42.4
42.5°	1257.7	477.5	63.7	48.7	40.9	36.9	36.2	37.3	38.5	39.3	39.3
45°	1276.5	422.1	57.0	43.2	37.3	32.6	32.6	34.2	33.8	34.2	34.2
47.5°	1285.2	378.1	50.3	37.3	31.8	28.3	28.7	29.5	28.7	29.5	29.5
50°	1263.9	333.7	44.4	31.0	26.3	24.8	25.5	25.2	25.2	26.7	26.7
52.5°	1225.0	300.7	39.3	26.3	22.4	22.0	22.8	21.2	21.6	21.6	21.2
55°	*1196.3*	*281.8*	*35.0*	*22.8*	*19.3*	*19.7*	*19.3*	*16.5*	*14.9*	*13.4*	*13.0*
57.5°	1182.2	274.3	31.8	20.4	17.3	17.3	15.7	11.4	8.6	6.7	5.9
60°	1179.1	265.3	28.7	17.7	15.3	14.5	11.4	6.7	4.3	3.1	2.8
62.5°	1149.2	243.3	25.9	14.1	13.4	11.8	7.1	3.9	2.4	1.6	1.2
65°	1051.3	200.0	23.2	11.0	10.2	8.6	4.3	2.4	1.2	0.4	0.0
67.5°	836.3	141.9	20.4	8.3	7.1	5.5	2.8	1.6	0.4	0.0	0.0
70°	482.2	76.6	16.9	5.9	4.7	3.5	2.0	0.8	0.0	0.0	0.0
72.5°	161.1	35.8	13.0	3.9	3.5	2.8	1.2	0.4	0.0	0.0	0.0
75°	35.4	21.2	8.6	2.8	2.4	2.0	0.8	0.0	0.0	0.0	0.0
77.5°	13.4	14.9	4.3	2.0	1.6	1.2	0.4	0.0	0.0	0.0	0.0
80°	5.1	9.8	2.0	1.2	1.2	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	2.8	3.9	1.2	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.6	2.0	0.8	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.4	0.4	0.4	0.0	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

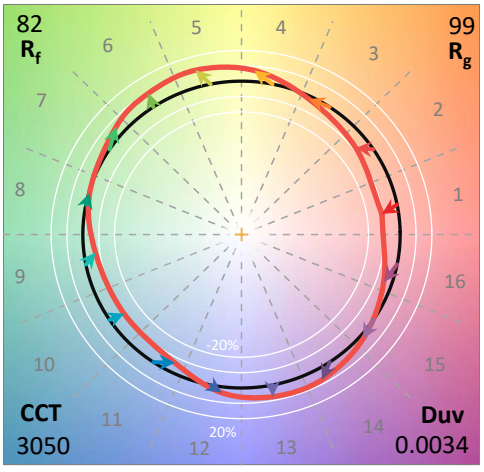
Test Information

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

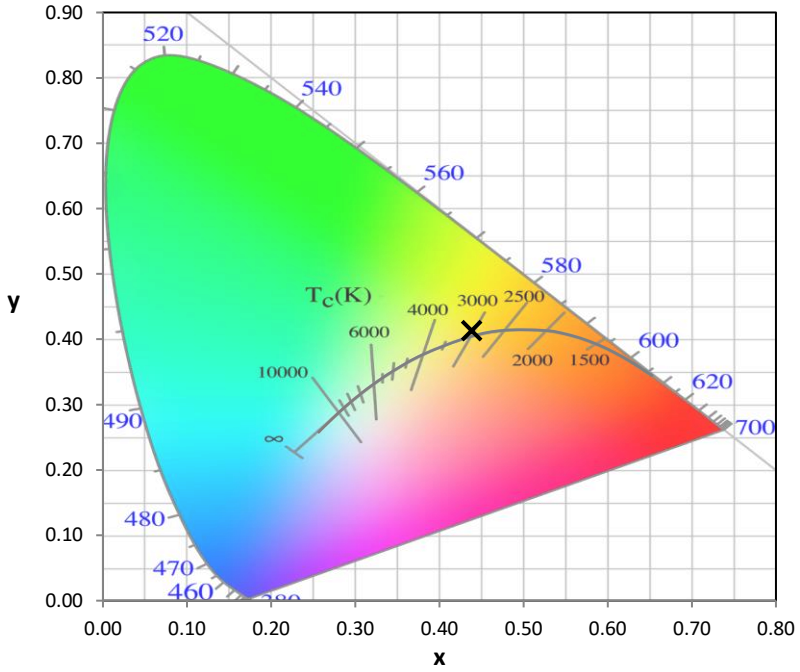
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

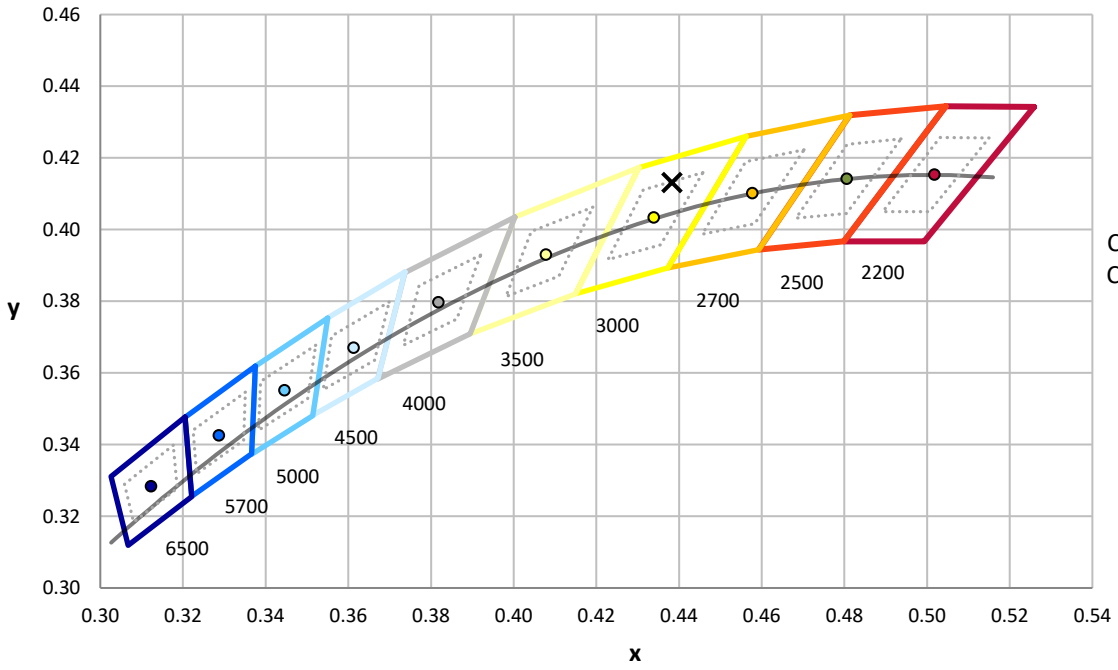
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

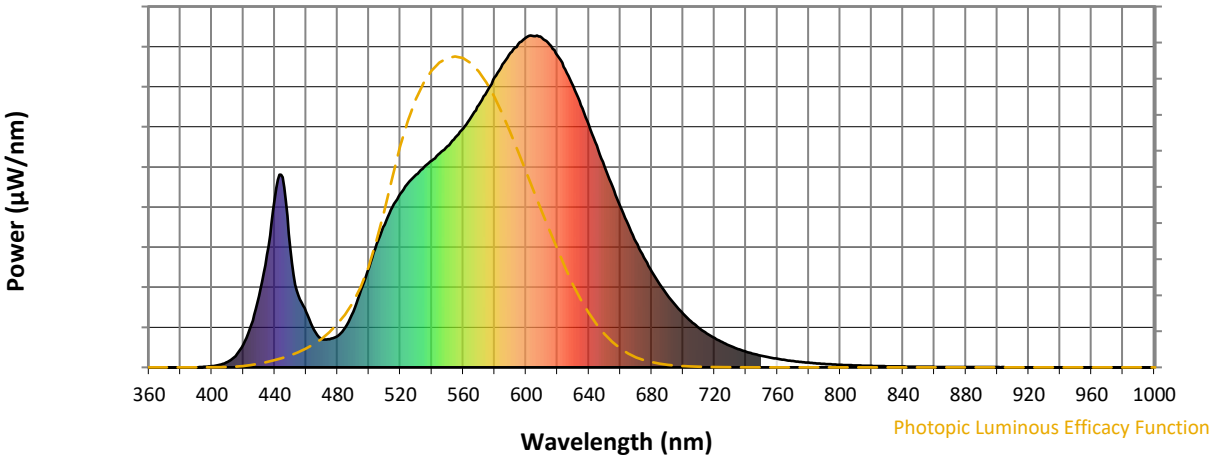


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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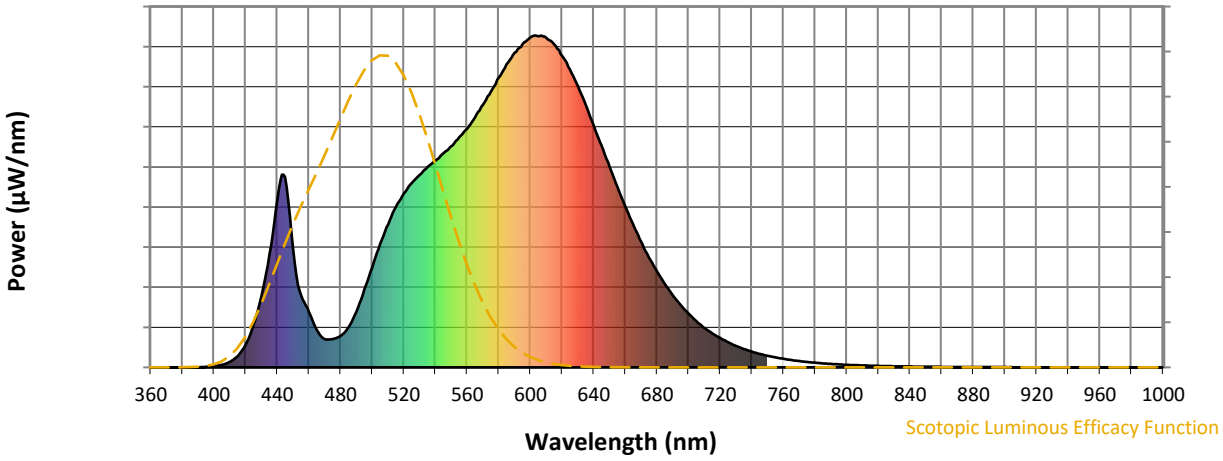
Scotopic Flux vs. Wavelength



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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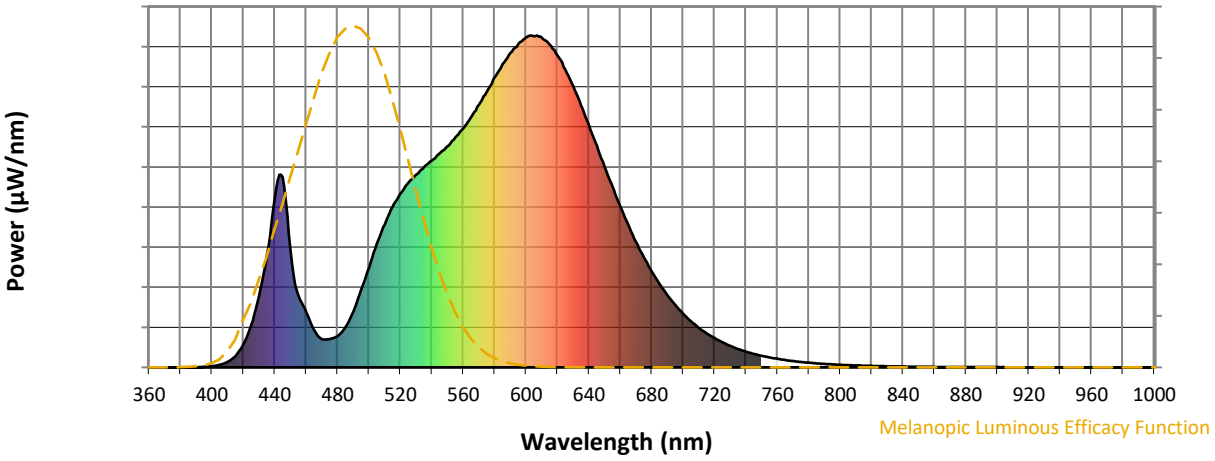
Melanopic Flux vs. Wavelength



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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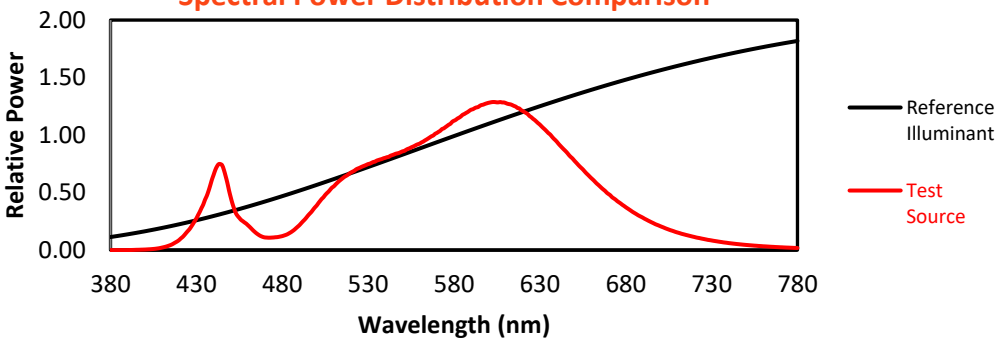
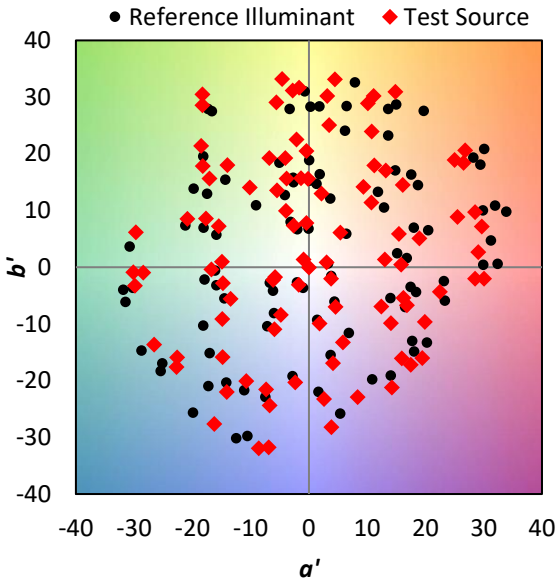
Summary

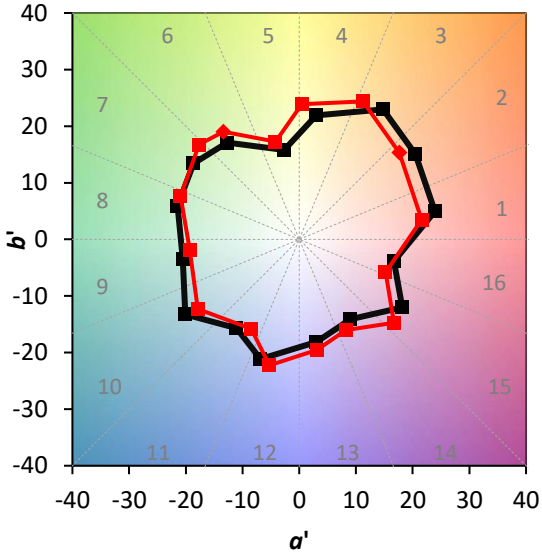
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

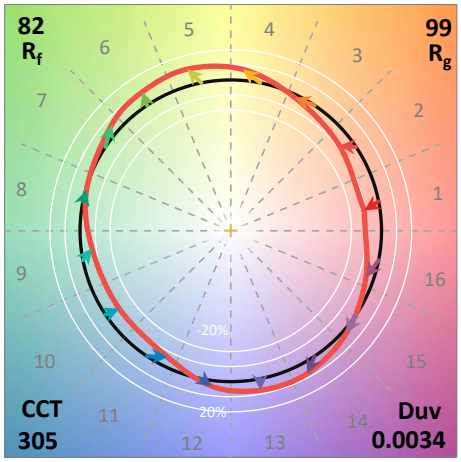
Spectral Power Distribution Comparison

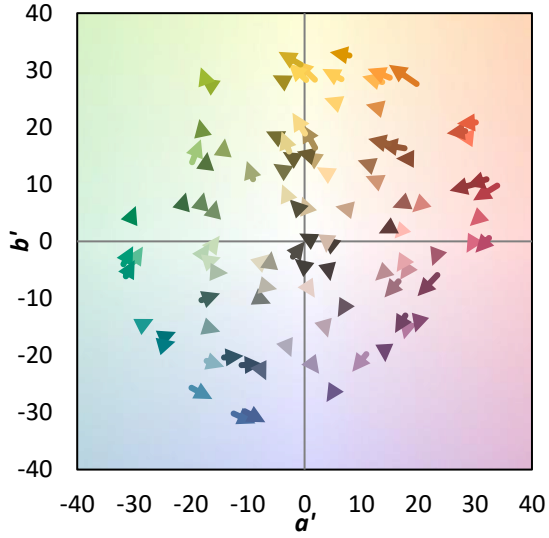


Color Vector Graphics









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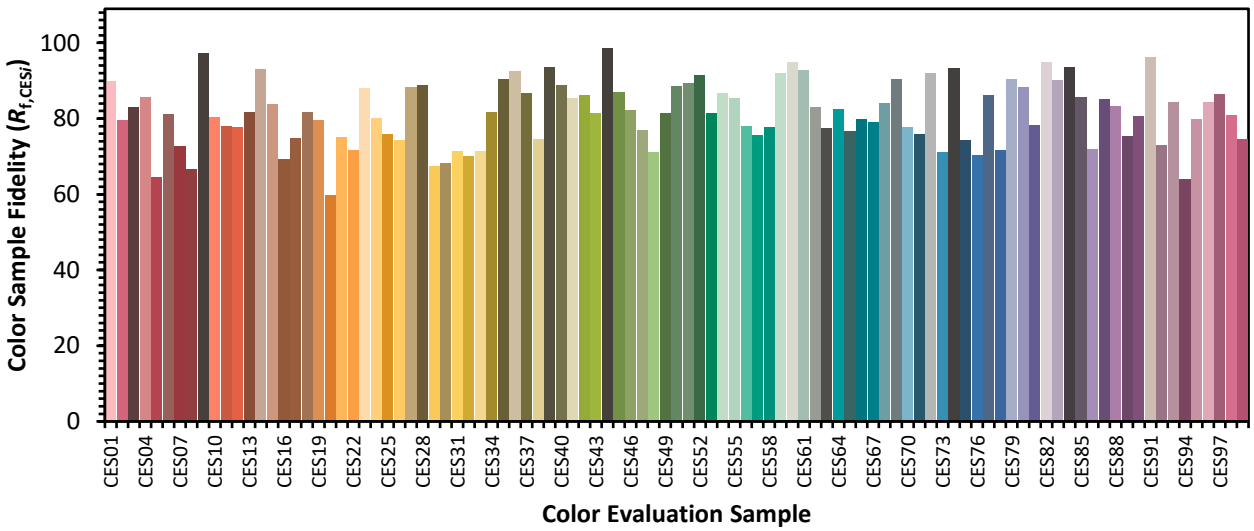
Individual Sample Fidelity Index ($R_{f,i}$)

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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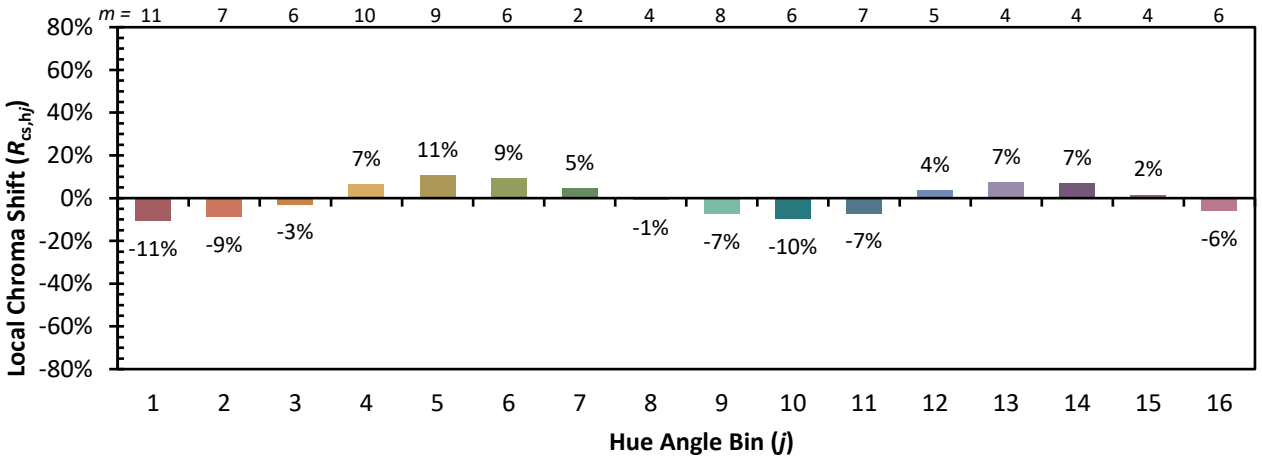
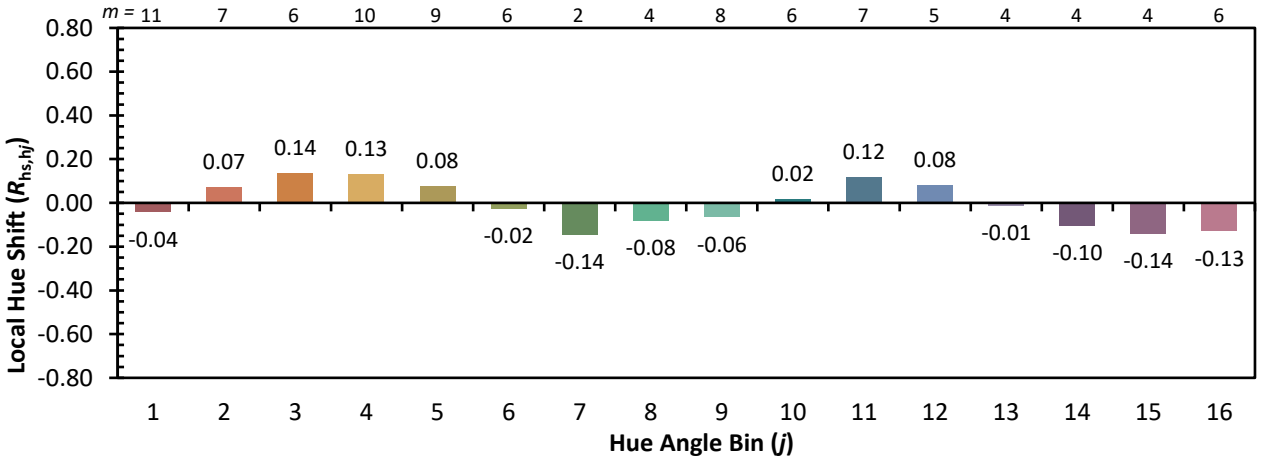
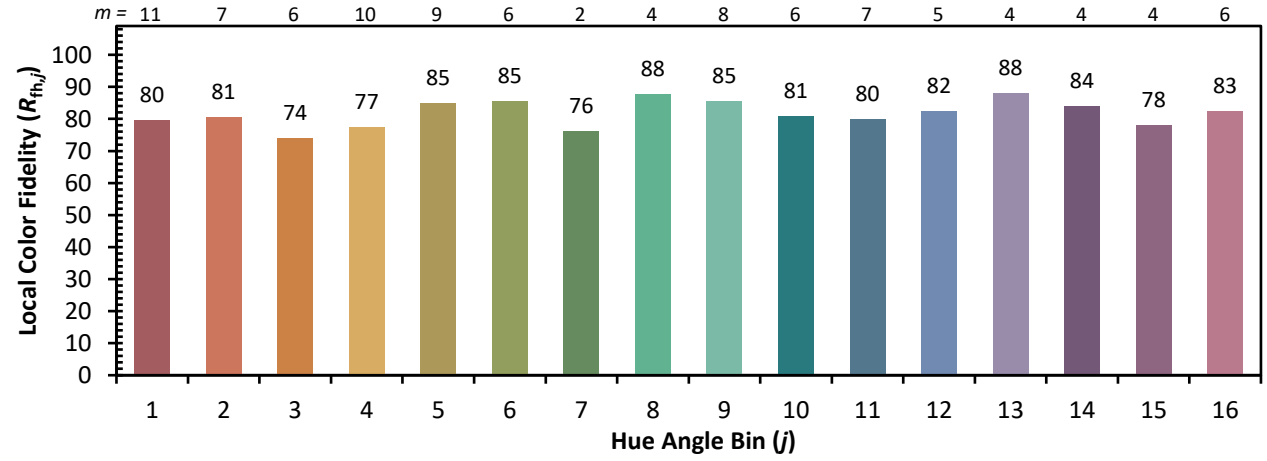
Color Rendition by Hue-Angle Bin







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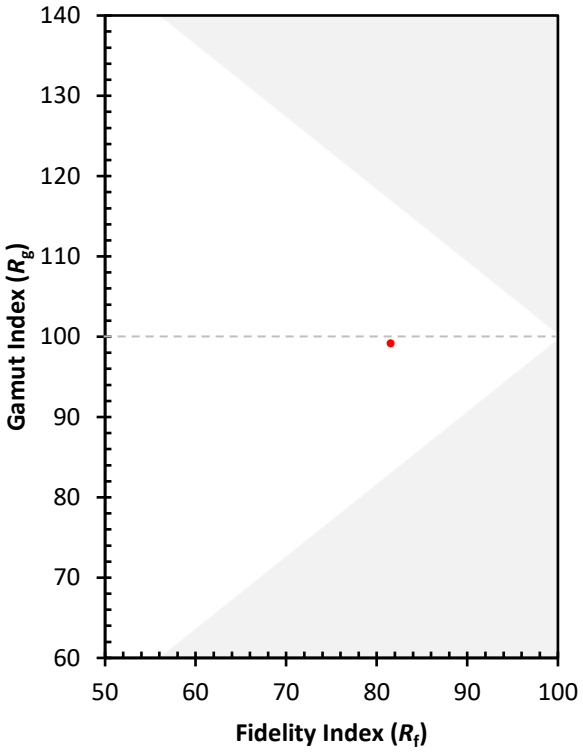
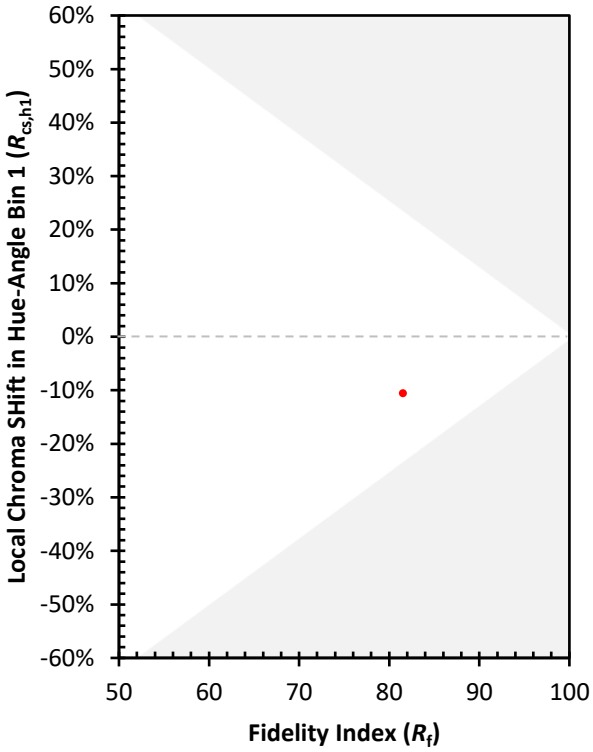
Measure Comparisons





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