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: P632552

Luminaire Tested: GWS-SA2C-830-U-T2R-W-GRSBK

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:	P632552
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2C-830-U-T2R-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4928.6 lumens
Efficiency:	N/A
Efficacy:	78.0 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G0

Input Watts (W):	63.2
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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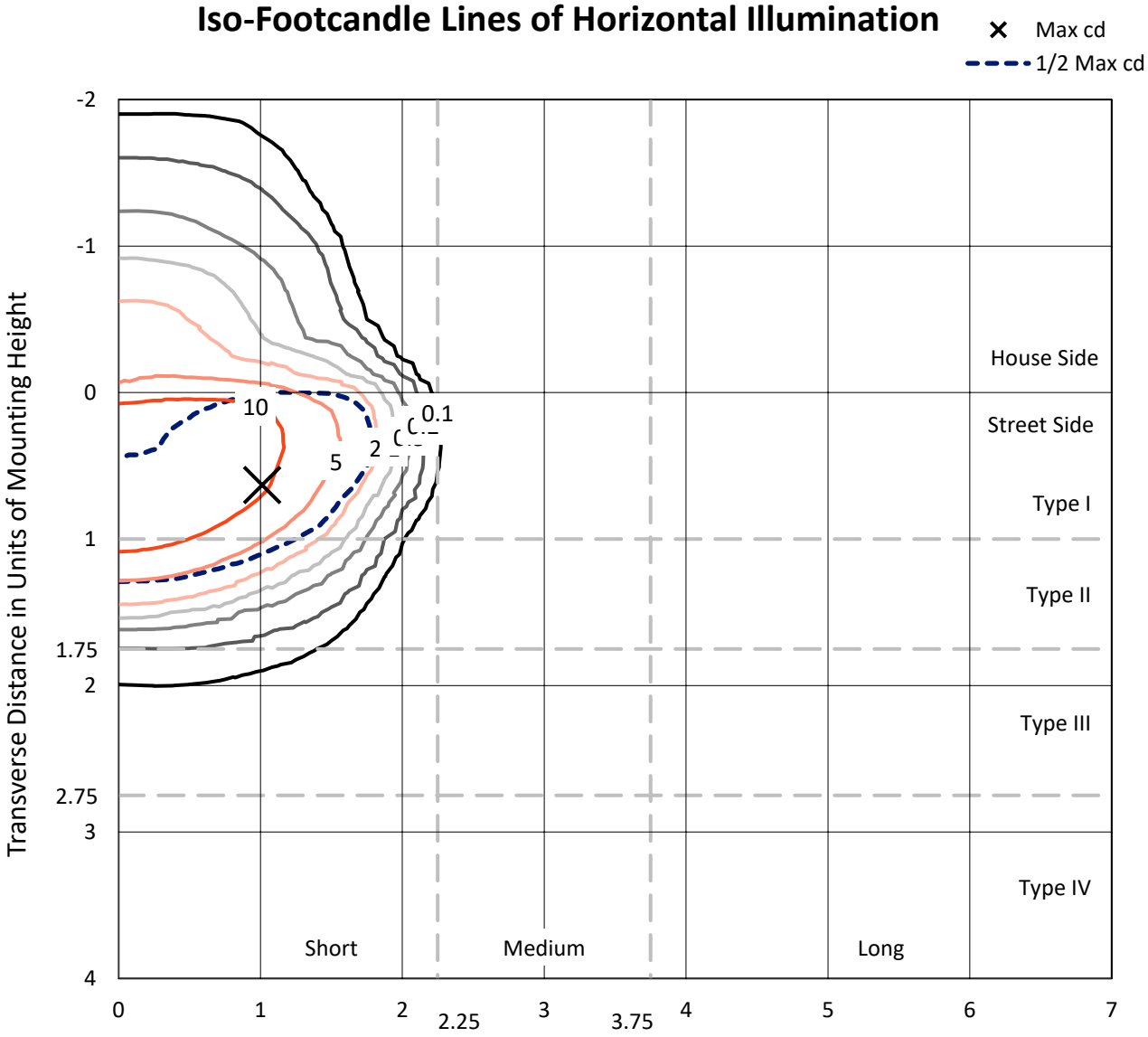
Scaled Data Report

REPORT NUMBER: P632552
CATALOG NUMBER: GWS-SA2C-830-U-T2R-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 18.1 fc
Type II - Short - N/A

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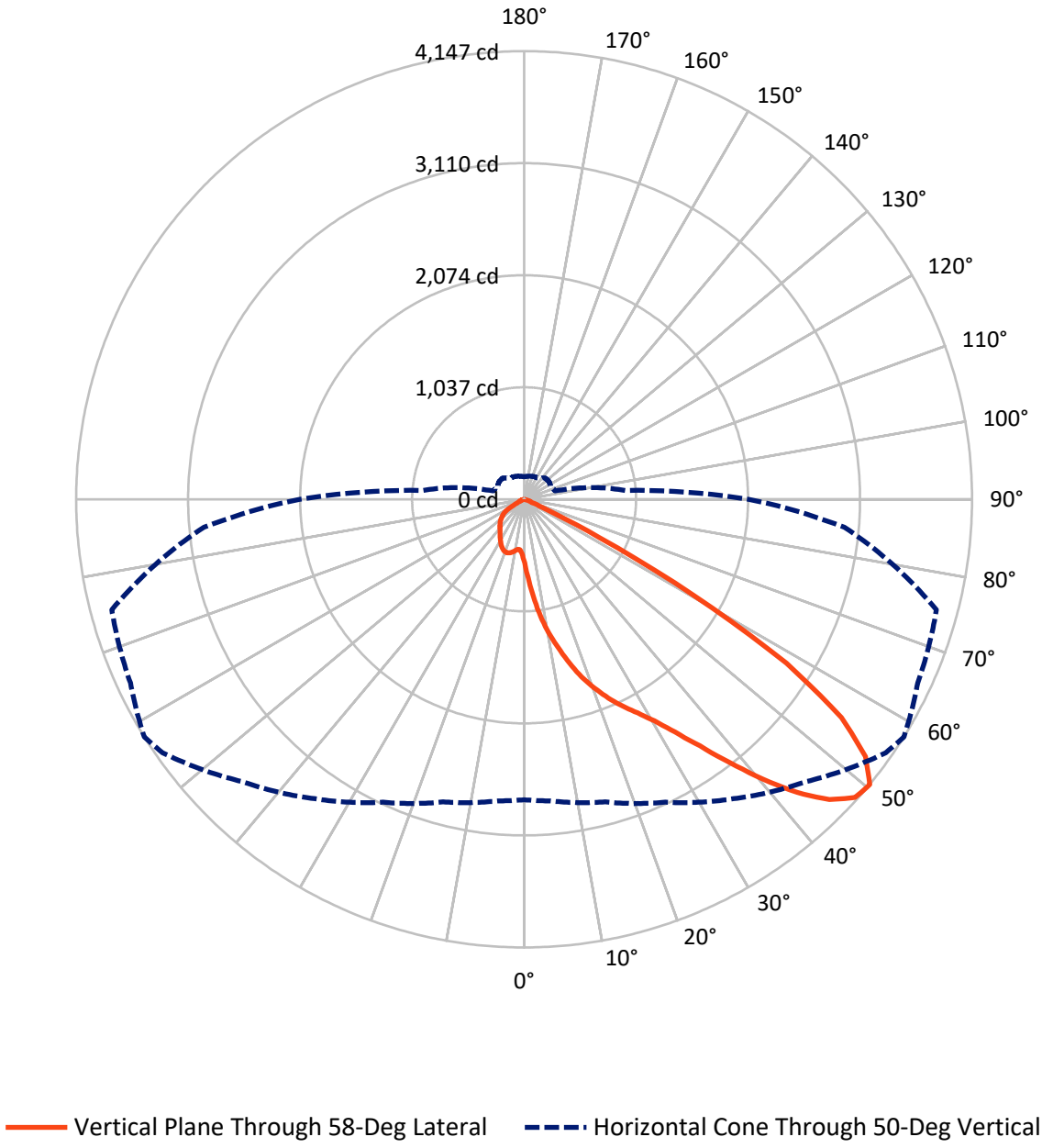
Luminous Intensity Polar Plot



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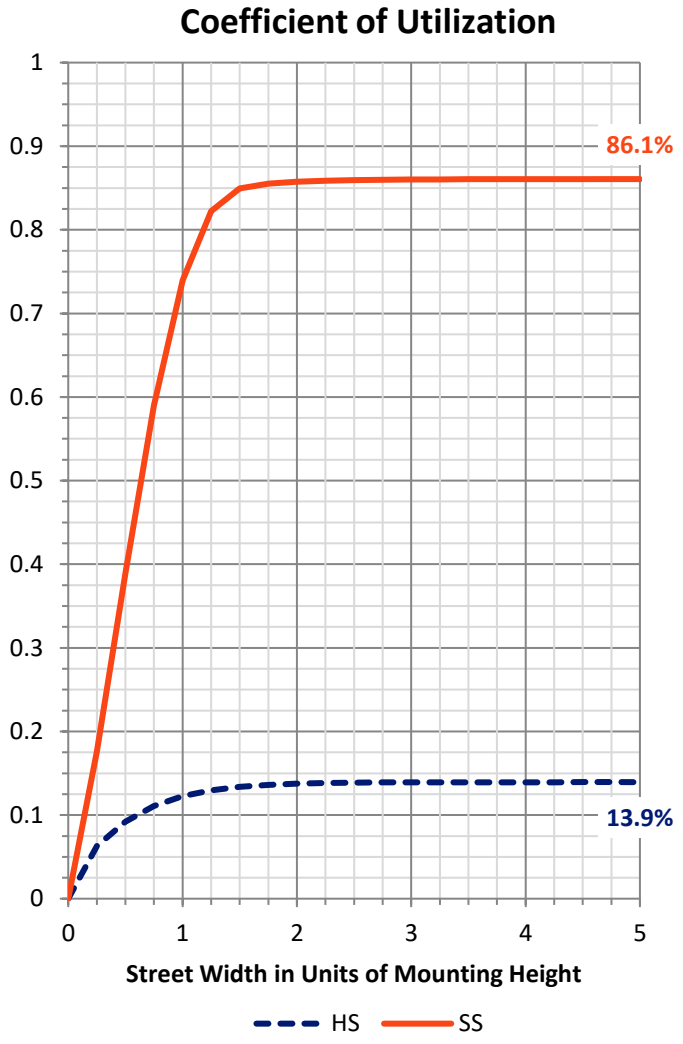
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	690.3	0.0	690.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	4238.3	0.0	4238.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	4928.6	0.0	4928.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.9	1.5
10°-20°	288.7	5.9
20°-30°	584.2	11.9
30°-40°	1033.6	21.0
40°-50°	1506.7	30.6
50°-60°	1207.7	24.5
60°-70°	217.6	4.4
70°-80°	17.1	0.3
80°-90°	0.0	0.0
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°	4928.6	100.0
0°-180°	4928.6	100.0



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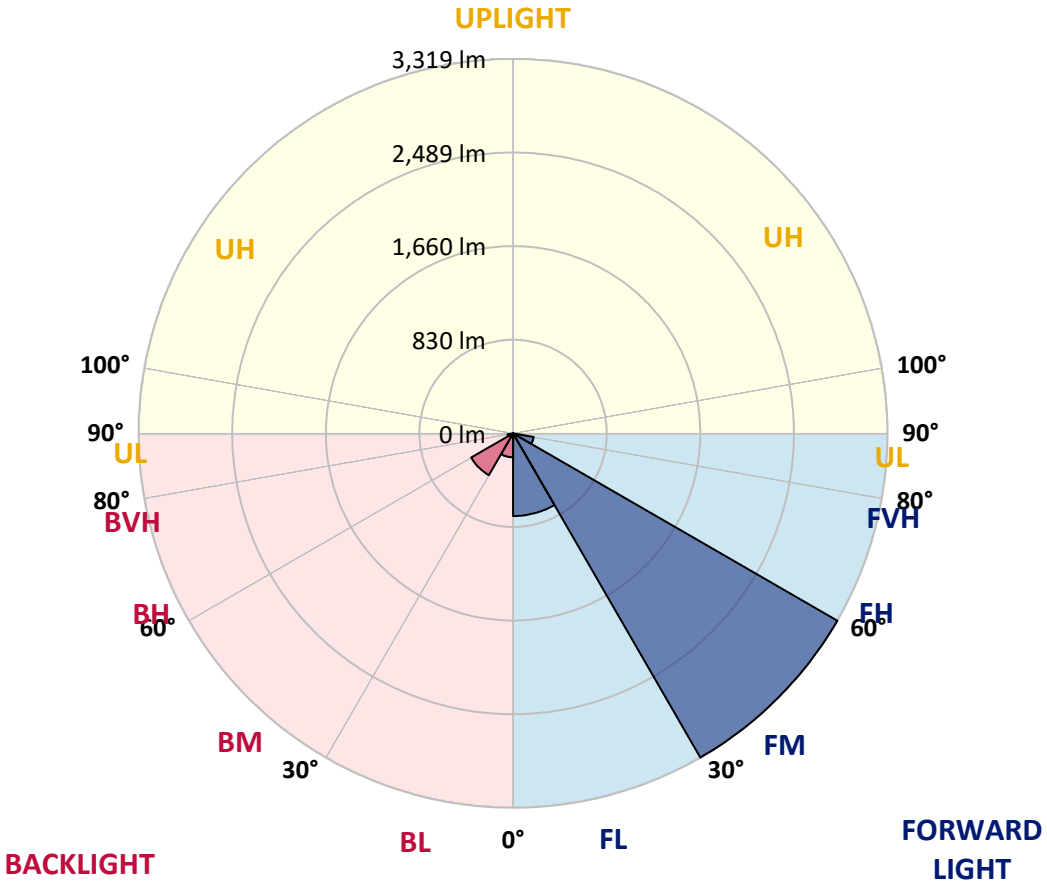
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	733.4	14.9			
FM	(30°-60°)	3319.3	67.3			
FH	(60°-80°)	185.7	3.8			G0/660
FVH	(80°-90°)	0.0	0.0			G0/10
BL	(0°-30°)	212.5	4.3	B1/500		
BM	(30°-60°)	428.7	8.7	B1/1000		
BH	(60°-80°)	49.1	1.0	B0/110		G0/110
BVH	(80°-90°)	0.0	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-G0
Type II Short



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REPORT NUMBER: P632552
CATALOG NUMBER: GWS-SA2C-830-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	588.7	588.7	588.7	588.7	588.7	588.7	588.7	*588.7*	588.7	588.7	588.7
2.5°	871.2	857.5	849.6	843.3	815.3	771.1	742.1	*726.8*	701.5	658.8	621.9
5°	1136.8	1126.8	1108.4	1095.7	1059.9	997.2	932.3	*906.5*	849.1	752.6	666.2
7.5°	1312.9	1305.5	1298.6	1281.8	1248.1	1191.1	1119.5	*1092.6*	1004.0	867.0	725.2
10°	1448.3	1442.5	1434.6	1434.1	1407.7	1356.6	1286.5	*1258.6*	1162.7	991.4	794.8
12.5°	1567.4	1562.7	1561.1	1575.9	1559.0	1521.1	1445.2	*1410.4*	1308.7	1118.4	871.7
15°	1649.1	1648.1	1654.9	1683.9	1693.4	1676.0	1612.2	*1574.8*	1457.8	1245.9	956.6
17.5°	1686.6	1689.7	1702.9	1753.0	1795.1	1809.9	1760.9	*1729.2*	1605.9	1375.1	1047.2
20°	1750.3	1749.3	1757.2	1804.6	1856.3	1909.0	1894.2	*1867.3*	1755.6	1511.6	1147.9
22.5°	1930.1	1914.8	1897.9	1905.3	1923.7	1985.4	2012.8	*1999.1*	1910.0	1651.8	1251.7
25°	2206.2	2190.4	2136.1	2083.4	2048.6	2076.6	2114.0	*2120.8*	2063.4	1795.7	1360.3
27.5°	2499.3	2485.0	2423.9	2344.8	2245.2	2196.7	2224.7	*2238.4*	2214.1	1966.9	1475.7
30°	2773.9	2754.9	2687.9	2589.9	2474.5	2400.2	2368.6	*2378.0*	2392.3	2169.9	1611.2
32.5°	3012.1	2997.8	2917.7	2814.4	2703.2	2625.8	2552.0	*2567.8*	2602.6	2418.1	1784.6
35°	3213.9	3206.6	3121.7	3018.9	2901.4	2861.9	2798.6	*2801.8*	2836.6	2718.0	1995.9
37.5°	3389.4	3376.8	3299.8	3204.5	3111.2	3104.8	3087.4	*3089.0*	3106.9	3067.4	2238.9
40°	3500.1	3488.5	3433.7	3374.7	3308.3	3309.3	3399.5	*3406.3*	3385.8	3410.5	2495.6
42.5°	3541.8	3533.3	3503.8	3504.3	3497.5	3528.6	3697.8	*3710.4*	3636.6	3679.9	2714.8
45°	3469.6	3465.9	3468.0	3543.9	3626.1	3722.0	3941.8	*3963.9*	3859.6	3858.5	2886.1
47.5°	3236.6	3229.2	3290.9	3420.0	3610.3	3796.9	4089.4	*4123.6*	4015.6	3960.8	2993.6
50°	*2780.2*	*2801.3*	*2898.8*	*3092.7*	*3382.1*	*3694.1*	*4087.8*	*4147.3*	*4021.4*	*3951.8*	*2975.7*
52.5°	2013.9	2009.6	2223.1	2489.8	2841.8	3365.2	3870.6	*3957.6*	3880.7	3863.8	2935.7
55°	1095.7	1134.2	1278.1	1631.2	2070.8	2742.8	3374.7	*3564.4*	3653.5	3831.6	3007.9
57.5°	402.7	419.5	509.7	759.5	1096.3	1705.5	2577.8	*2864.0*	3139.1	3742.0	2995.7
60°	162.3	165.5	201.3	279.3	460.6	868.0	1546.4	*1800.4*	2059.7	2864.5	2299.0
62.5°	118.1	122.3	136.5	163.4	233.0	379.5	666.7	*775.3*	847.5	1418.8	1132.6
65°	95.4	98.6	110.2	122.3	153.9	204.0	215.0	*207.1*	206.1	366.8	259.8
67.5°	79.1	82.2	90.7	99.1	110.7	101.7	73.8	*77.5*	63.2	62.7	51.1
70°	58.0	61.7	70.1	79.1	66.4	27.4	42.7	*63.2*	48.0	40.1	39.0
72.5°	43.7	46.4	54.3	51.7	19.5	10.5	28.5	*45.9*	36.9	29.5	29.0
75°	32.7	34.3	27.4	8.4	2.1	2.6	10.5	*19.0*	20.6	16.9	16.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	*1.6*	2.1	2.6	3.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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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REPORT NUMBER: P632552
CATALOG NUMBER: GWS-SA2C-830-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	588.7	588.7	588.7	588.7	588.7	588.7	588.7	588.7	588.7	588.7	588.7
2.5°	600.8	578.7	547.1	520.7	500.7	481.2	466.4	451.7	451.2	443.8	442.2
5°	626.1	586.1	528.1	486.5	461.2	445.9	435.3	430.1	427.4	424.8	423.7
7.5°	662.5	605.1	524.9	480.7	459.6	449.6	442.2	439.0	437.4	435.3	434.8
10°	707.3	632.5	536.5	491.7	473.3	463.8	455.9	451.2	448.5	444.8	443.8
12.5°	761.1	666.2	555.0	510.2	490.7	478.0	467.5	460.6	457.0	452.2	451.2
15°	819.0	702.6	575.5	527.0	503.9	487.5	474.3	463.8	457.0	451.2	449.6
17.5°	879.1	739.4	594.0	538.6	510.2	490.7	471.7	457.5	449.0	441.7	439.6
20°	946.6	777.4	606.1	540.8	508.1	482.2	460.1	442.2	433.8	423.7	421.6
22.5°	1017.2	812.7	611.4	536.0	496.5	466.4	442.7	424.3	412.2	401.6	398.4
25°	1085.7	844.3	608.7	522.8	479.1	444.3	420.1	401.1	387.9	377.4	374.7
27.5°	1158.5	870.7	599.3	503.3	455.4	420.1	396.9	380.5	368.4	356.8	354.2
30°	1240.1	894.9	584.0	479.6	427.4	395.3	377.4	366.3	353.1	341.0	337.3
32.5°	1338.7	916.5	561.8	451.2	402.7	373.7	363.7	355.2	339.9	327.3	324.7
35°	1451.5	934.5	533.9	421.6	378.4	360.0	357.9	346.8	326.8	312.0	308.9
37.5°	1582.2	951.8	500.7	392.7	360.5	353.6	354.2	335.2	311.0	293.0	290.9
40°	1722.9	969.2	463.8	367.4	344.2	350.0	345.2	318.3	278.8	261.4	259.3
42.5°	1869.4	988.2	426.4	343.6	330.5	335.7	328.9	284.6	256.1	247.2	246.1
45°	2001.7	1010.9	385.8	319.9	316.8	315.2	303.6	257.7	245.6	239.3	238.8
47.5°	2097.1	1007.2	342.6	297.3	302.0	296.7	261.4	245.1	235.1	226.6	224.5
50°	*2079.7*	*942.9*	*297.8*	*272.0*	*283.0*	*278.3*	*235.1*	*230.3*	*221.4*	*212.4*	*209.2*
52.5°	2035.5	855.4	258.8	245.1	262.5	251.4	217.1	212.4	204.5	192.9	189.2
55°	2059.2	773.2	228.2	223.5	241.4	208.2	197.1	189.7	181.3	168.7	167.1
57.5°	1982.8	630.9	183.4	186.6	213.5	177.6	172.9	161.3	147.0	138.6	137.6
60°	1372.4	338.9	114.9	118.6	154.4	149.2	155.0	144.4	127.0	119.1	117.5
62.5°	630.3	136.0	62.7	60.1	81.2	101.2	132.8	131.8	110.2	97.5	96.4
65°	152.8	62.2	44.8	42.2	45.9	60.6	86.4	103.8	89.1	74.3	72.7
67.5°	49.5	50.6	41.1	38.5	40.6	45.3	51.7	57.4	56.9	52.2	51.1
70°	39.5	45.9	37.9	34.8	34.8	36.4	34.8	27.9	24.2	26.4	27.4
72.5°	29.5	34.8	30.0	26.9	25.8	25.3	21.6	15.8	11.1	10.0	9.5
75°	17.4	19.5	18.4	15.8	14.8	13.2	10.5	6.9	3.7	2.6	1.6
77.5°	3.2	3.7	4.2	3.2	2.6	2.1	1.6	0.5	0.0	0.0	0.0
80°	0.0	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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

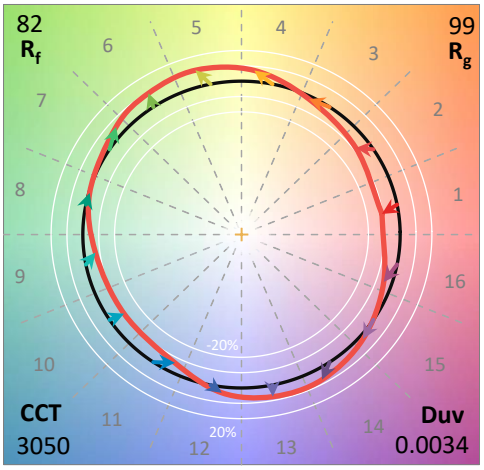
Test Information

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

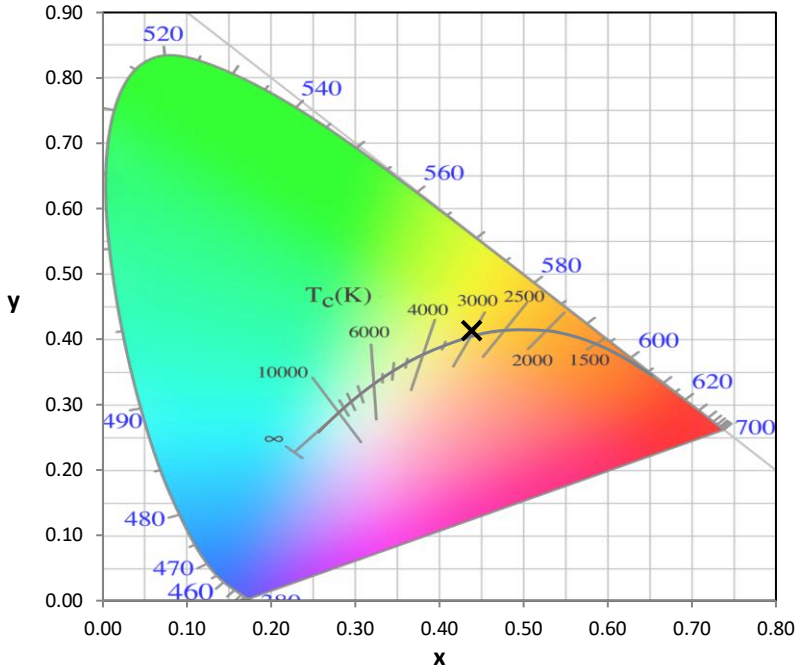
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

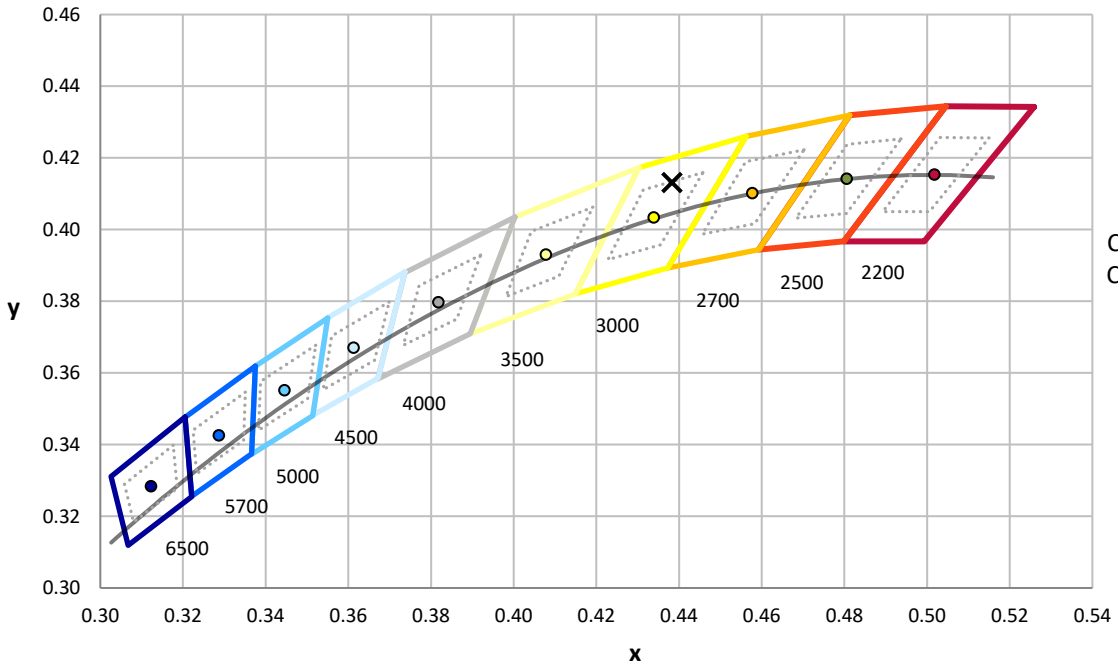
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

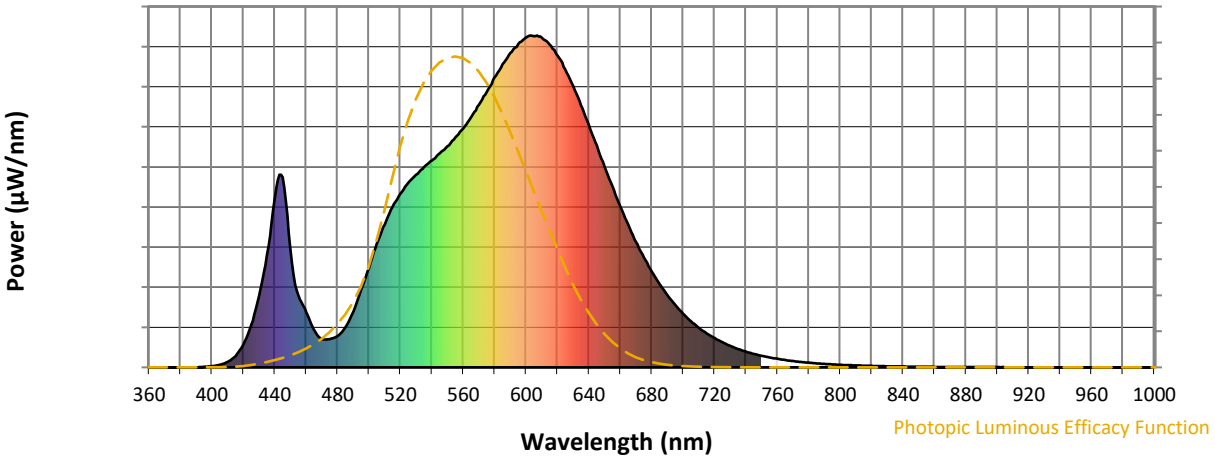


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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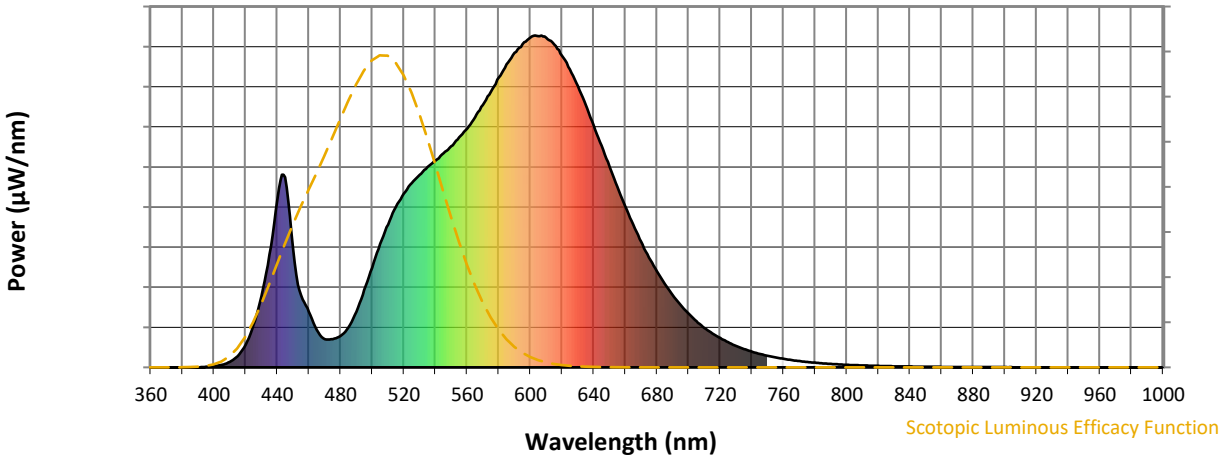
Scotopic Flux vs. Wavelength



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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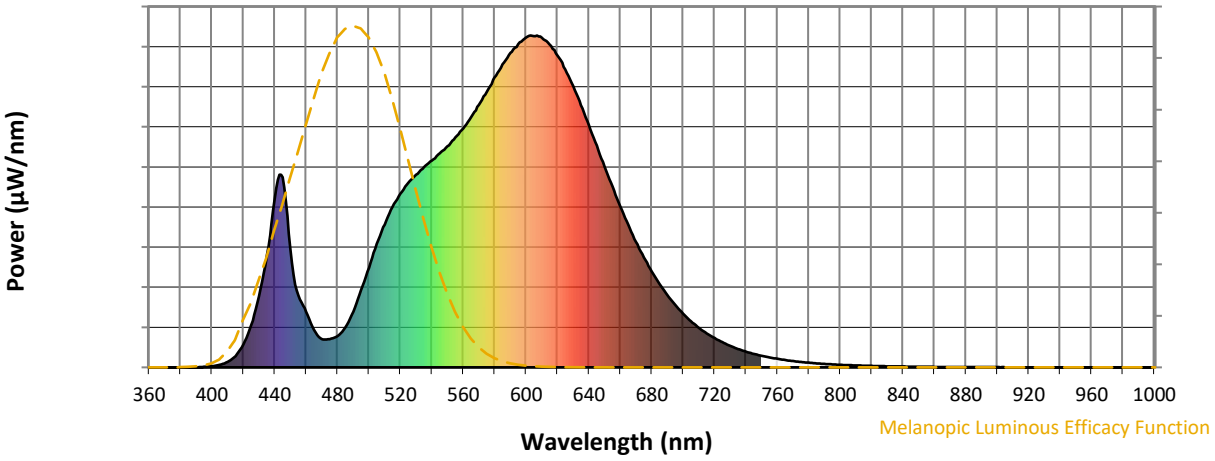
Melanopic Flux vs. Wavelength



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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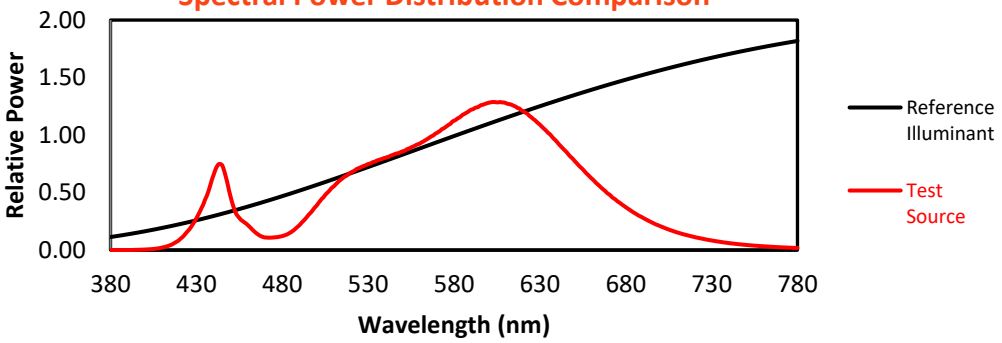
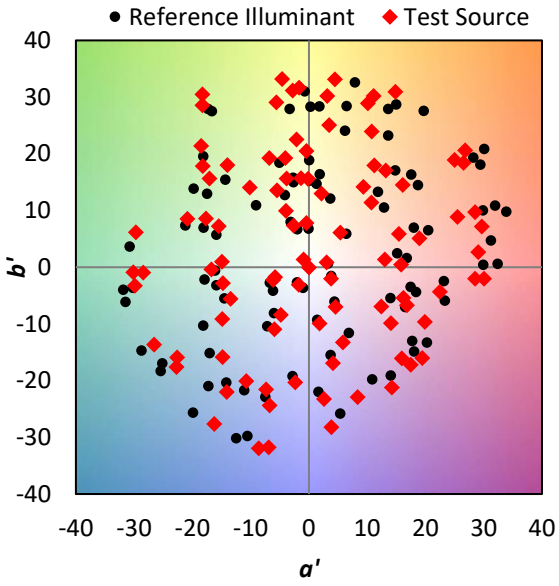
Summary

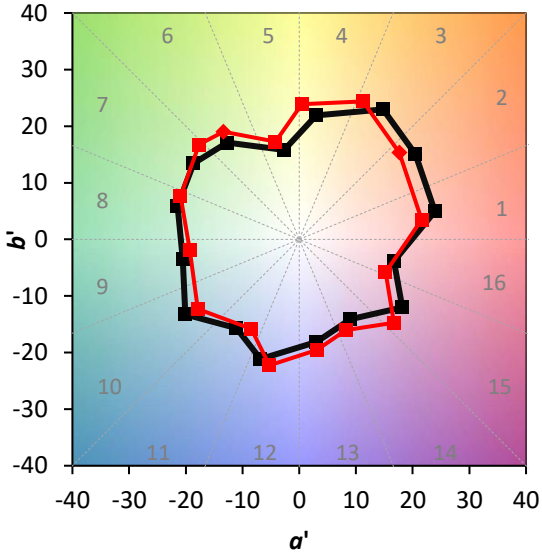
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

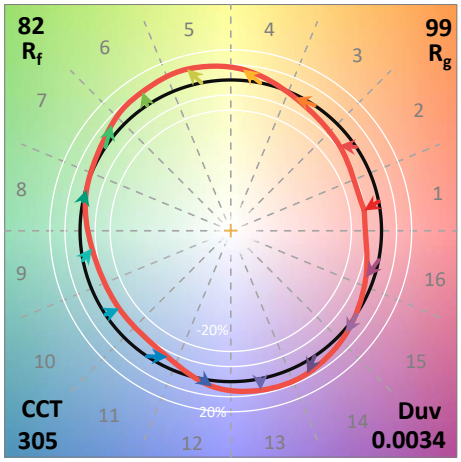
Spectral Power Distribution Comparison

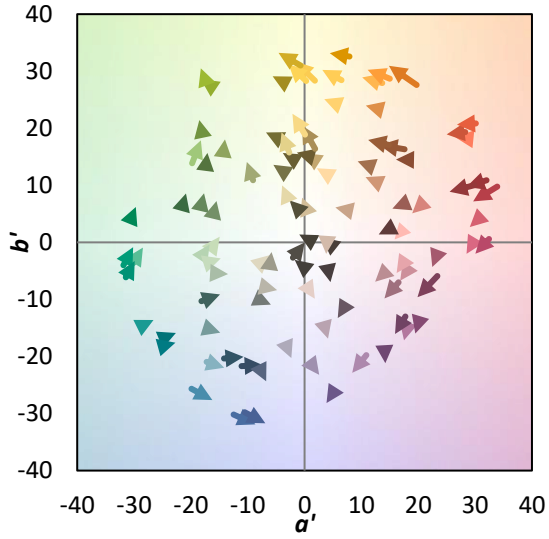


Color Vector Graphics









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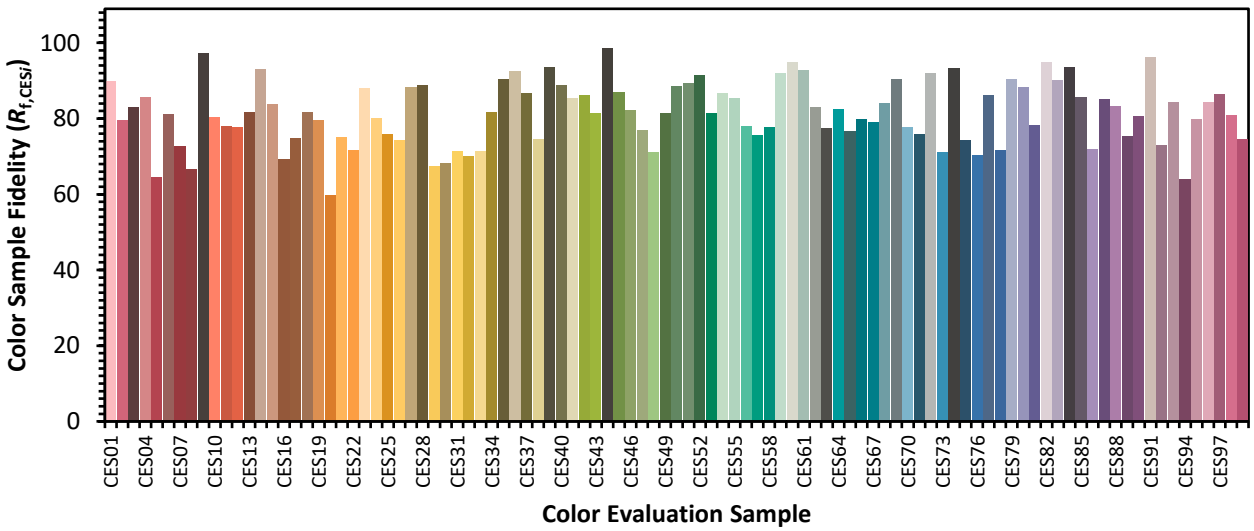
Individual Sample Fidelity Index ($R_{f,i}$)

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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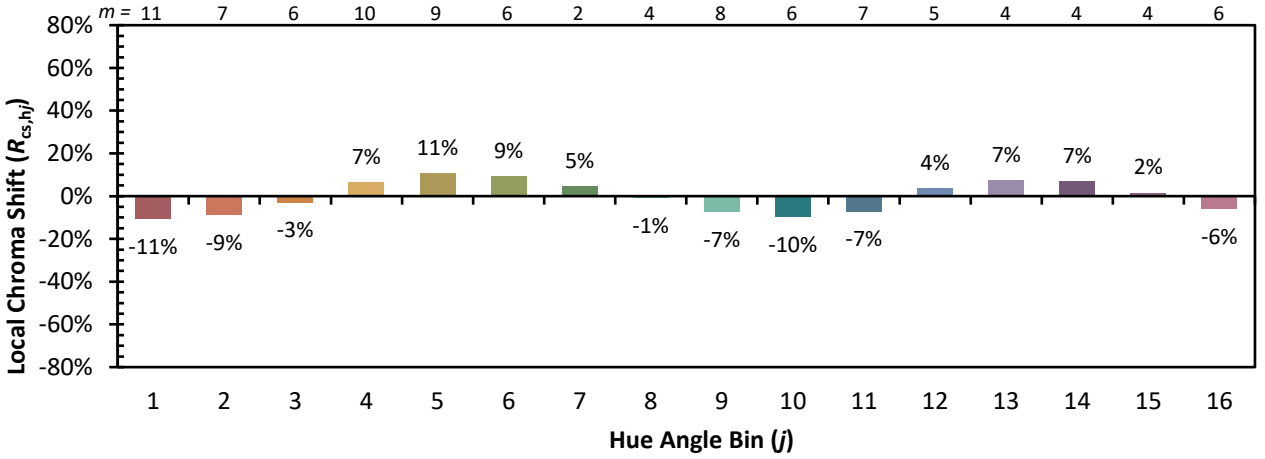
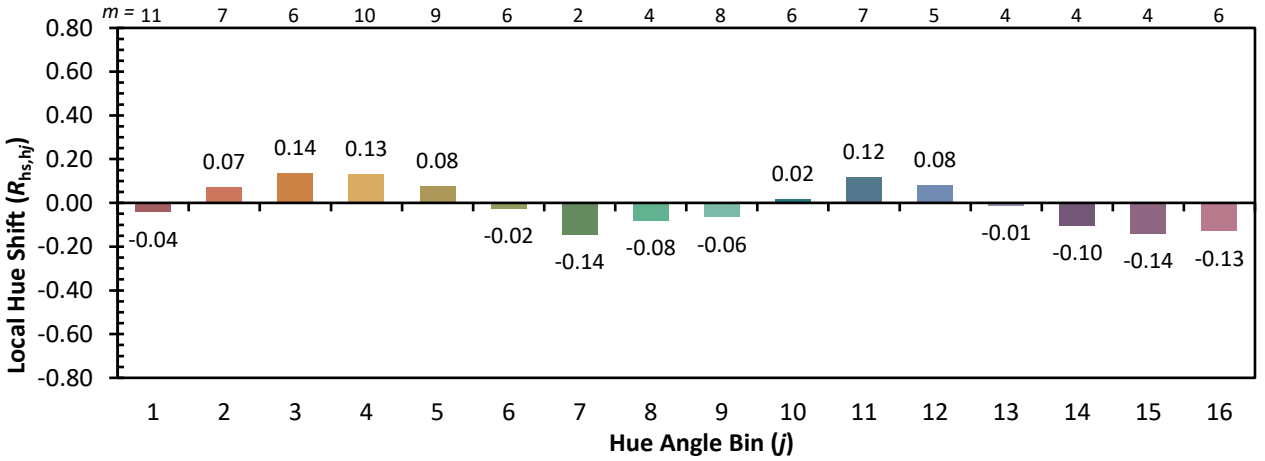
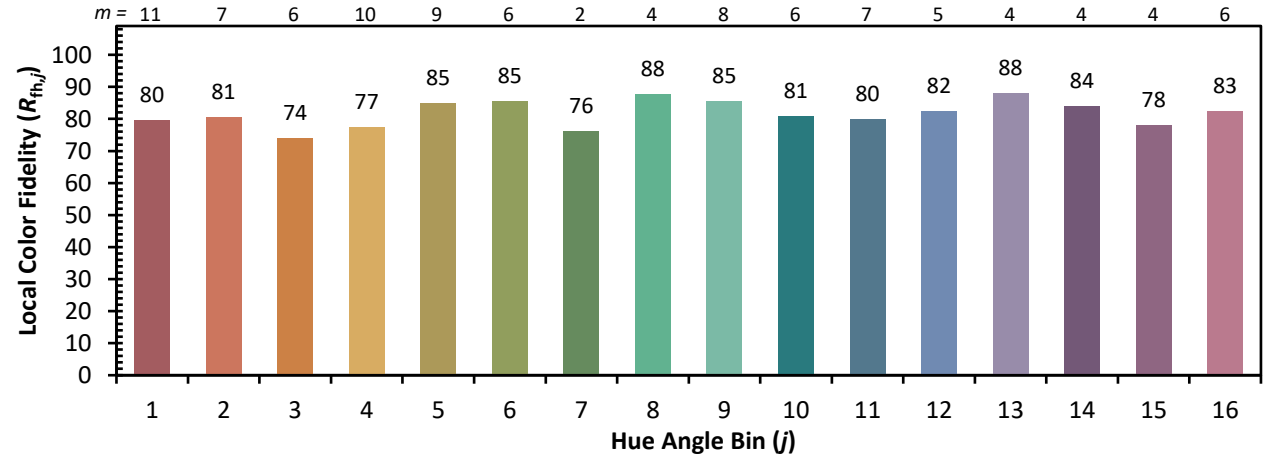
Color Rendition by Hue-Angle Bin







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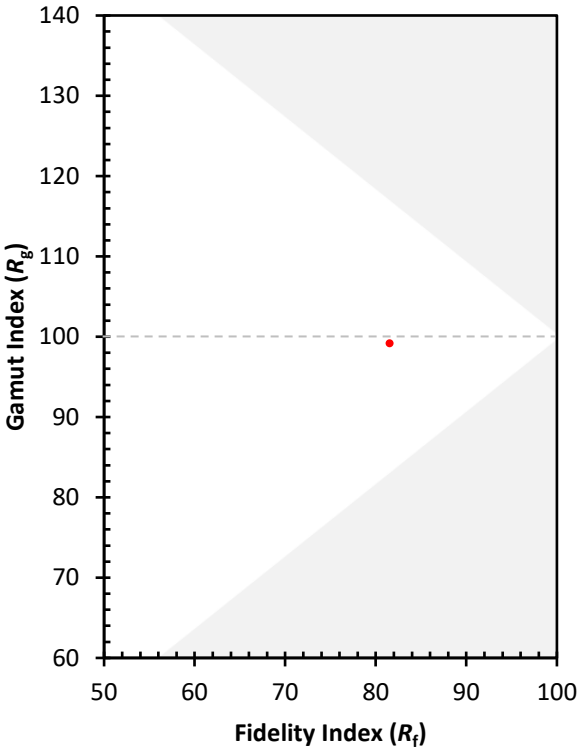
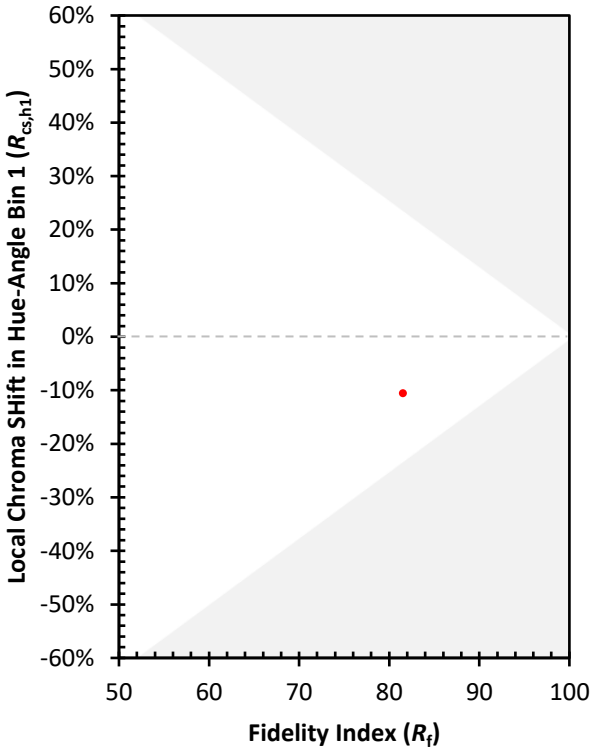
Measure Comparisons





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