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: P634532

Luminaire Tested: GWS-SA3B-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:	P634532
	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-SA3B-830-U-T2R-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5538.9 lumens
Efficiency:	N/A
Efficacy:	81.1 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G0

Input Watts (W):	68.3
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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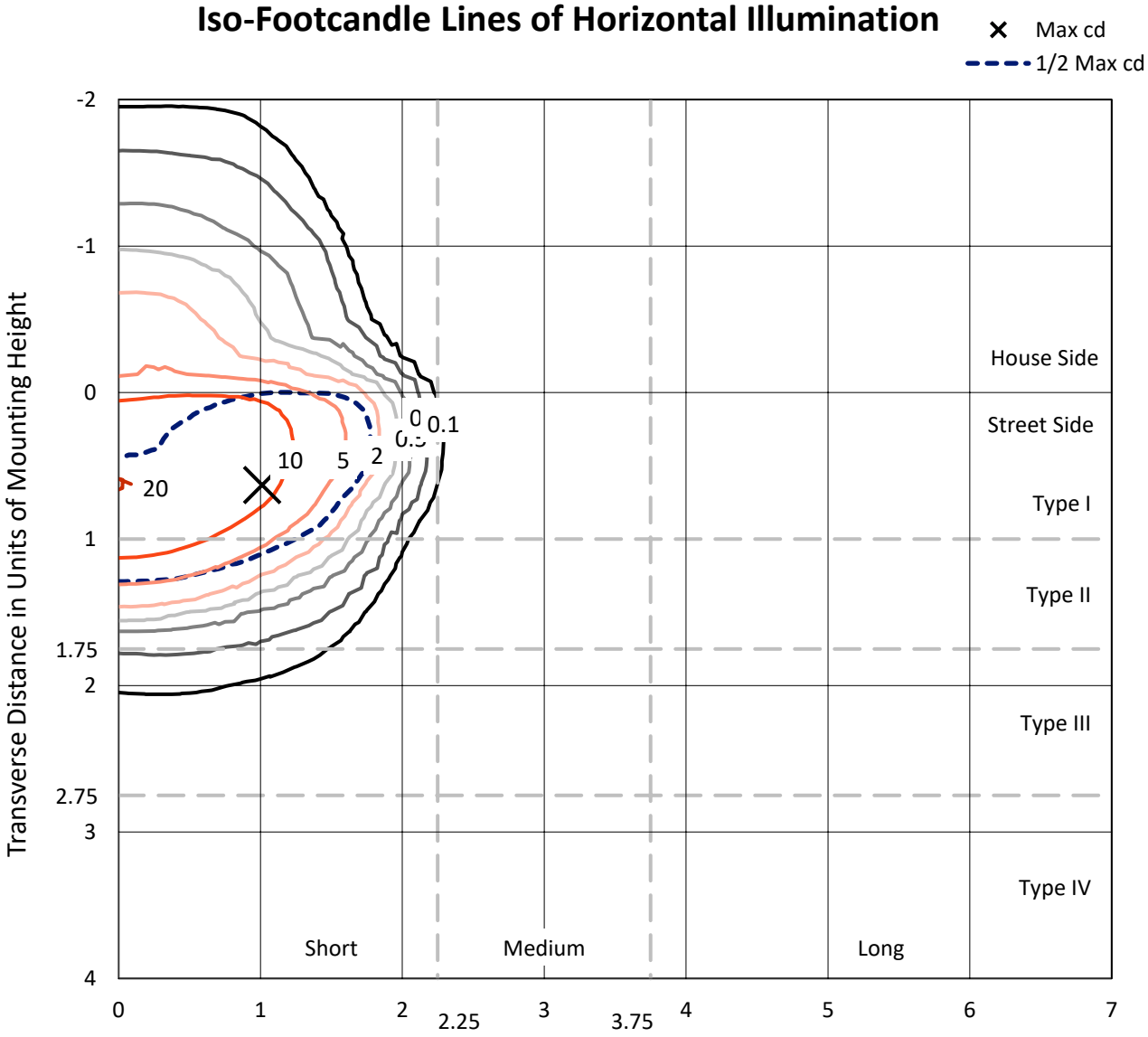
REPORT NUMBER: P634532
CATALOG NUMBER: GWS-SA3B-830-U-T2R-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 20.3 fc
Type II - Short - N/A

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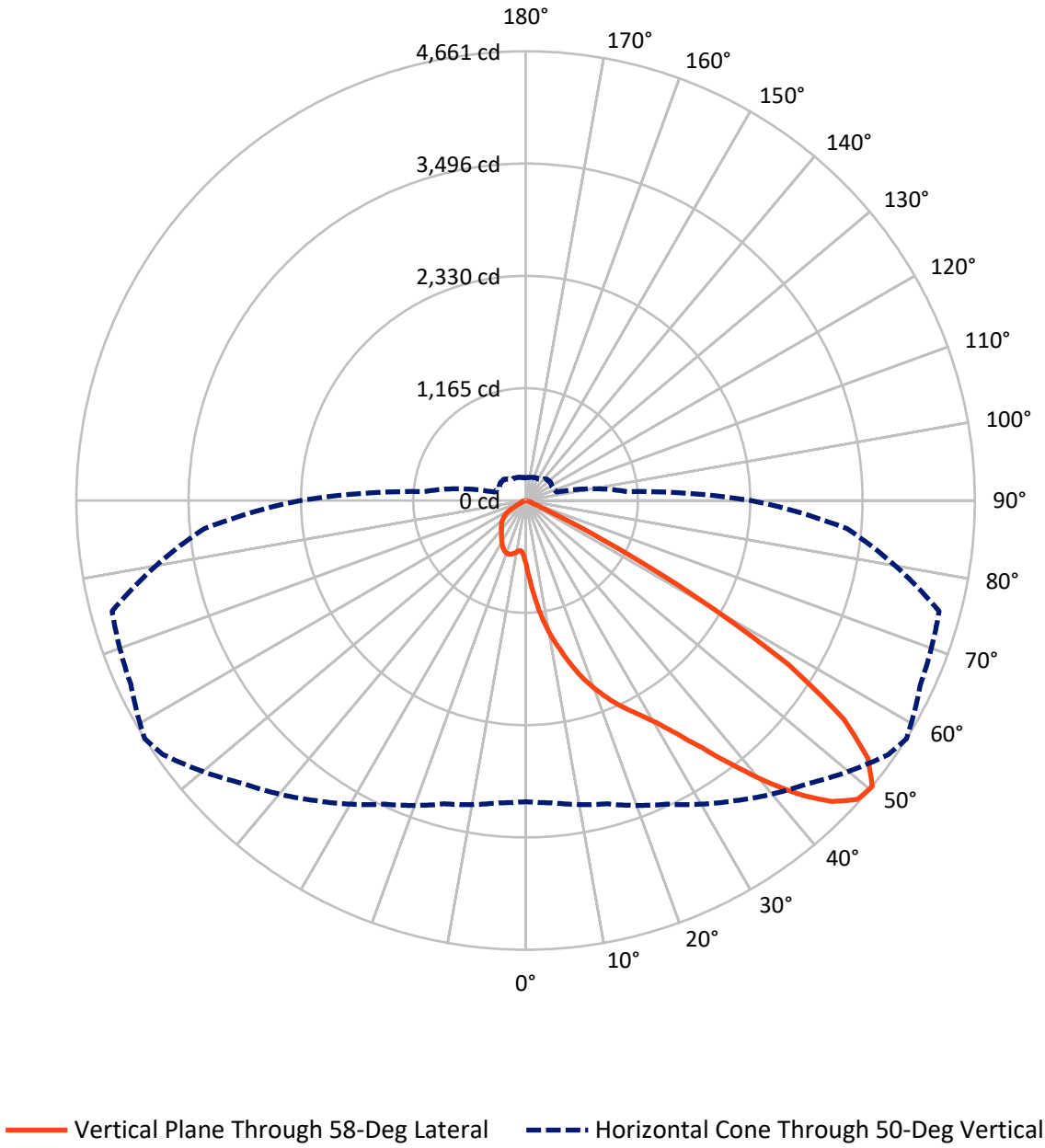
Luminous Intensity Polar Plot



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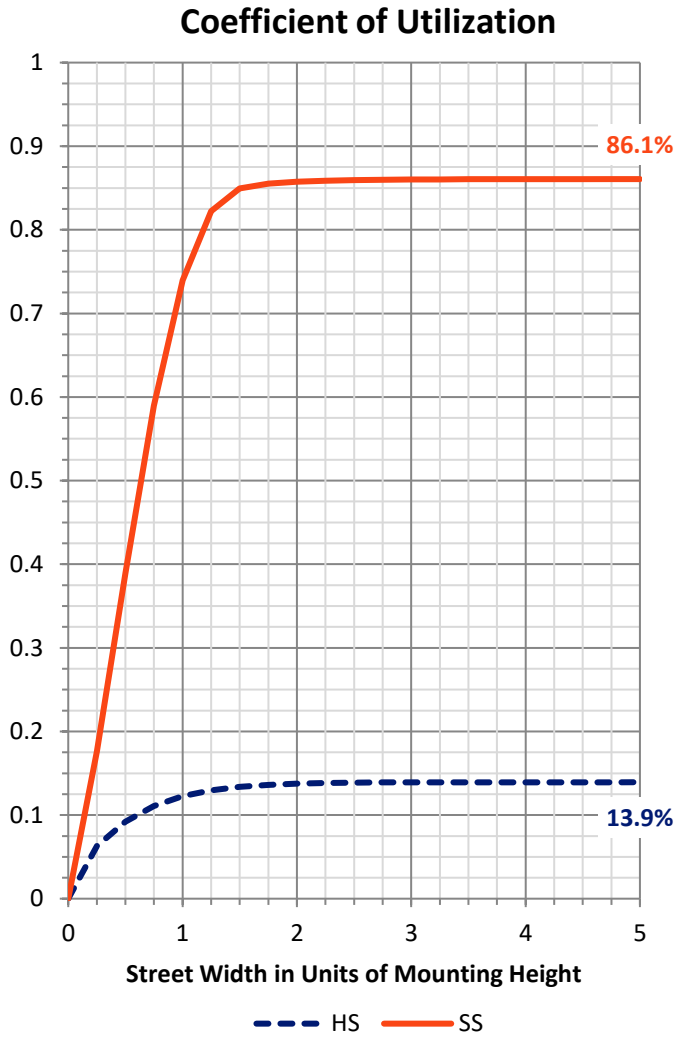
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	775.8	0.0	775.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	4763.1	0.0	4763.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	5538.9	0.0	5538.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.0	1.5
10°-20°	324.5	5.9
20°-30°	656.6	11.9
30°-40°	1161.6	21.0
40°-50°	1693.3	30.6
50°-60°	1357.2	24.5
60°-70°	244.5	4.4
70°-80°	19.3	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°	5538.9	100.0
0°-180°	5538.9	100.0



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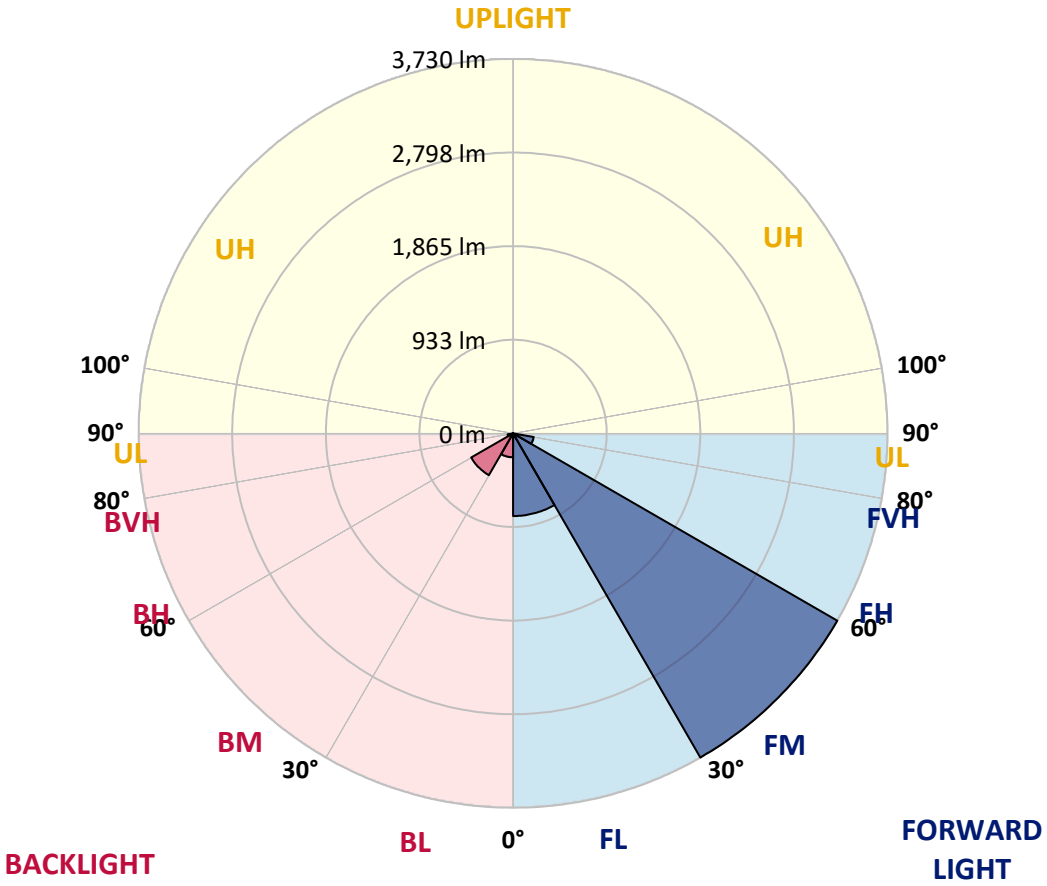
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	824.2	14.9			
FM	(30°-60°)	3730.3	67.3			
FH	(60°-80°)	208.7	3.8			G0/660
FVH	(80°-90°)	0.0	0.0			G0/10
BL	(0°-30°)	238.8	4.3	B1/500		
BM	(30°-60°)	481.8	8.7	B1/1000		
BH	(60°-80°)	55.1	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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Scaled Data Report

REPORT NUMBER: P634532
CATALOG NUMBER: GWS-SA3B-830-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	661.6	661.6	661.6	661.6	661.6	661.6	661.6	*661.6*	661.6	661.6	661.6
2.5°	979.1	963.7	954.8	947.7	916.3	866.6	834.0	*816.8*	788.4	740.4	698.9
5°	1277.6	1266.4	1245.6	1231.4	1191.1	1120.7	1047.8	*1018.8*	954.2	845.8	748.7
7.5°	1475.4	1467.2	1459.5	1440.5	1402.6	1338.6	1258.1	*1227.9*	1128.4	974.4	815.0
10°	1627.7	1621.2	1612.3	1611.7	1582.1	1524.6	1445.8	*1414.4*	1306.6	1114.1	893.2
12.5°	1761.5	1756.2	1754.4	1771.0	1752.1	1709.4	1624.1	*1585.0*	1470.7	1256.9	979.7
15°	1853.3	1852.2	1859.9	1892.4	1903.1	1883.6	1811.9	*1769.8*	1638.3	1400.2	1075.0
17.5°	1895.4	1899.0	1913.8	1970.0	2017.4	2034.0	1978.9	*1943.4*	1804.8	1545.3	1176.9
20°	1967.1	1965.9	1974.8	2028.1	2086.1	2145.4	2128.8	*2098.6*	1973.0	1698.7	1290.1
22.5°	2169.0	2151.9	2132.9	2141.2	2161.9	2231.2	2262.0	*2246.6*	2146.5	1856.3	1406.7
25°	2479.4	2461.6	2400.6	2341.4	2302.3	2333.7	2375.8	*2383.5*	2318.9	2018.0	1528.8
27.5°	2808.7	2792.7	2724.0	2635.2	2523.2	2468.8	2500.1	*2515.5*	2488.3	2210.5	1658.5
30°	3117.3	3096.0	3020.8	2910.6	2780.9	2697.4	2661.8	*2672.5*	2688.5	2438.5	1810.7
32.5°	3385.1	3369.1	3279.0	3162.9	3038.0	2950.9	2868.0	*2885.7*	2924.8	2717.5	2005.6
35°	3611.9	3603.6	3508.3	3392.8	3260.7	3216.3	3145.2	*3148.7*	3187.8	3054.6	2243.1
37.5°	3809.2	3794.9	3708.5	3601.3	3496.4	3489.3	3469.8	*3471.5*	3491.7	3447.3	2516.1
40°	3933.5	3920.5	3858.9	3792.6	3717.9	3719.1	3820.4	*3828.1*	3805.0	3832.8	2804.6
42.5°	3980.3	3970.9	3937.7	3938.3	3930.6	3965.5	4155.7	*4169.9*	4087.0	4135.5	3051.0
45°	3899.2	3895.0	3897.4	3982.7	4075.1	4182.9	4429.9	*4454.8*	4337.5	4336.3	3243.5
47.5°	3637.4	3629.1	3698.4	3843.5	4057.3	4267.0	4595.7	*4634.2*	4512.8	4451.2	3364.3
50°	*3124.4*	*3148.1*	*3257.7*	*3475.7*	*3800.9*	*4151.5*	*4594.0*	*4660.9*	*4519.3*	*4441.2*	*3344.2*
52.5°	2263.2	2258.5	2498.4	2798.1	3193.7	3781.9	4349.9	*4447.7*	4361.2	4342.2	3299.2
55°	1231.4	1274.7	1436.4	1833.2	2327.2	3082.4	3792.6	*4005.8*	4105.9	4306.1	3380.3
57.5°	452.5	471.5	572.8	853.5	1232.0	1916.7	2897.0	*3218.6*	3527.8	4205.4	3366.7
60°	182.4	186.0	226.3	313.9	517.7	975.5	1737.8	*2023.3*	2314.8	3219.2	2583.7
62.5°	132.7	137.4	153.4	183.6	261.8	426.5	749.3	*871.3*	952.4	1594.5	1272.9
65°	107.2	110.8	123.8	137.4	173.0	229.2	241.7	*232.8*	231.6	412.2	292.0
67.5°	88.8	92.4	101.9	111.4	124.4	114.3	82.9	*87.1*	71.1	70.5	57.5
70°	65.2	69.3	78.8	88.8	74.6	30.8	48.0	*71.1*	53.9	45.0	43.8
72.5°	49.2	52.1	61.0	58.0	21.9	11.8	32.0	*51.5*	41.5	33.2	32.6
75°	36.7	38.5	30.8	9.5	2.4	3.0	11.8	*21.3*	23.1	19.0	19.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	*1.8*	2.4	3.0	3.6
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: P634532
CATALOG NUMBER: GWS-SA3B-830-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6	661.6
2.5°	675.2	650.4	614.8	585.2	562.7	540.8	524.2	507.6	507.0	498.7	496.9
5°	703.7	658.7	593.5	546.7	518.3	501.1	489.2	483.3	480.4	477.4	476.2
7.5°	744.5	680.0	589.9	540.2	516.5	505.2	496.9	493.4	491.6	489.2	488.7
10°	794.9	710.8	603.0	552.6	531.9	521.2	512.3	507.0	504.1	499.9	498.7
12.5°	855.3	748.7	623.7	573.4	551.4	537.2	525.4	517.7	513.5	508.2	507.0
15°	920.5	789.6	646.8	592.3	566.2	547.9	533.1	521.2	513.5	507.0	505.2
17.5°	988.0	831.0	667.5	605.3	573.4	551.4	530.1	514.1	504.6	496.4	494.0
20°	1063.8	873.7	681.2	607.7	571.0	542.0	517.1	496.9	487.5	476.2	473.8
22.5°	1143.2	913.3	687.1	602.4	558.0	524.2	497.5	476.8	463.2	451.3	447.8
25°	1220.2	948.9	684.1	587.6	538.4	499.3	472.1	450.7	435.9	424.1	421.1
27.5°	1301.9	978.5	673.5	565.7	511.8	472.1	446.0	427.6	414.0	401.0	398.0
30°	1393.7	1005.7	656.3	539.0	480.4	444.2	424.1	411.7	396.8	383.2	379.1
32.5°	1504.5	1030.0	631.4	507.0	452.5	419.9	408.7	399.2	382.0	367.8	364.9
35°	1631.2	1050.2	600.0	473.8	425.3	404.5	402.2	389.7	367.2	350.6	347.1
37.5°	1778.1	1069.7	562.7	441.3	405.1	397.4	398.0	376.7	349.5	329.3	327.0
40°	1936.3	1089.3	521.2	412.8	386.8	393.3	388.0	357.8	313.3	293.8	291.4
42.5°	2100.9	1110.6	479.2	386.2	371.4	377.3	369.6	319.8	287.9	277.8	276.6
45°	2249.6	1136.1	433.6	359.5	356.0	354.2	341.2	289.6	276.0	268.9	268.3
47.5°	2356.8	1131.9	385.0	334.1	339.4	333.5	293.8	275.4	264.2	254.7	252.3
50°	*2337.3*	*1059.6*	*334.7*	*305.6*	*318.1*	*312.7*	*264.2*	*258.8*	*248.8*	*238.7*	*235.1*
52.5°	2287.5	961.3	290.8	275.4	295.0	282.5	244.0	238.7	229.8	216.8	212.6
55°	2314.2	868.9	256.5	251.1	271.3	234.0	221.5	213.2	203.8	189.5	187.8
57.5°	2228.3	709.0	206.1	209.7	239.9	199.6	194.3	181.2	165.3	155.8	154.6
60°	1542.4	380.9	129.1	133.3	173.5	167.6	174.1	162.3	142.7	133.9	132.1
62.5°	708.4	152.8	70.5	67.5	91.2	113.7	149.3	148.1	123.8	109.6	108.4
65°	171.8	69.9	50.3	47.4	51.5	68.1	97.1	116.7	100.1	83.5	81.7
67.5°	55.7	56.9	46.2	43.2	45.6	50.9	58.0	64.6	64.0	58.6	57.5
70°	44.4	51.5	42.6	39.1	39.1	40.9	39.1	31.4	27.2	29.6	30.8
72.5°	33.2	39.1	33.8	30.2	29.0	28.4	24.3	17.8	12.4	11.3	10.7
75°	19.5	21.9	20.7	17.8	16.6	14.8	11.8	7.7	4.1	3.0	1.8
77.5°	3.6	4.1	4.7	3.6	3.0	2.4	1.8	0.6	0.0	0.0	0.0
80°	0.0	0.6	0.6	0.6	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

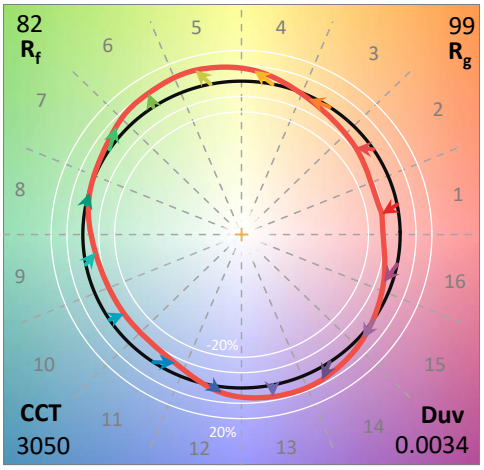
Test Information

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

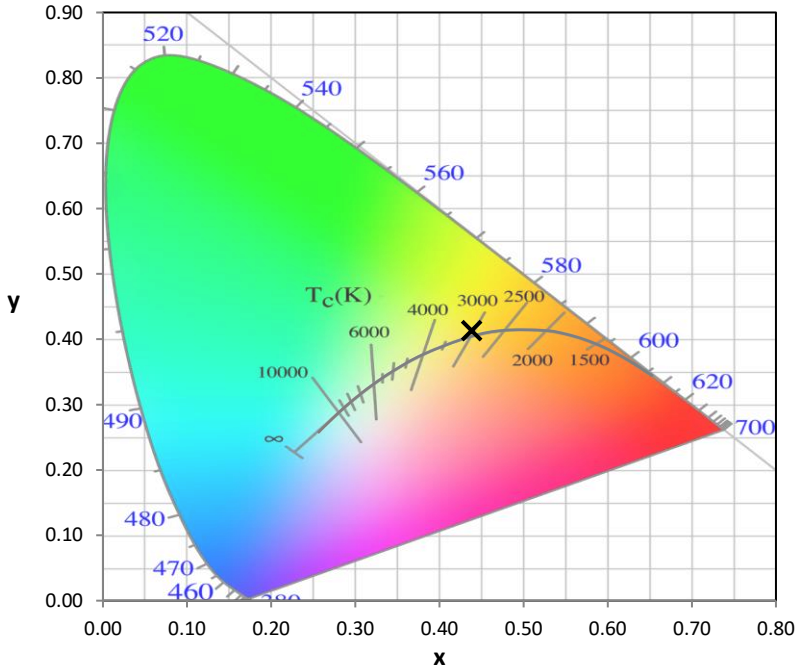
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

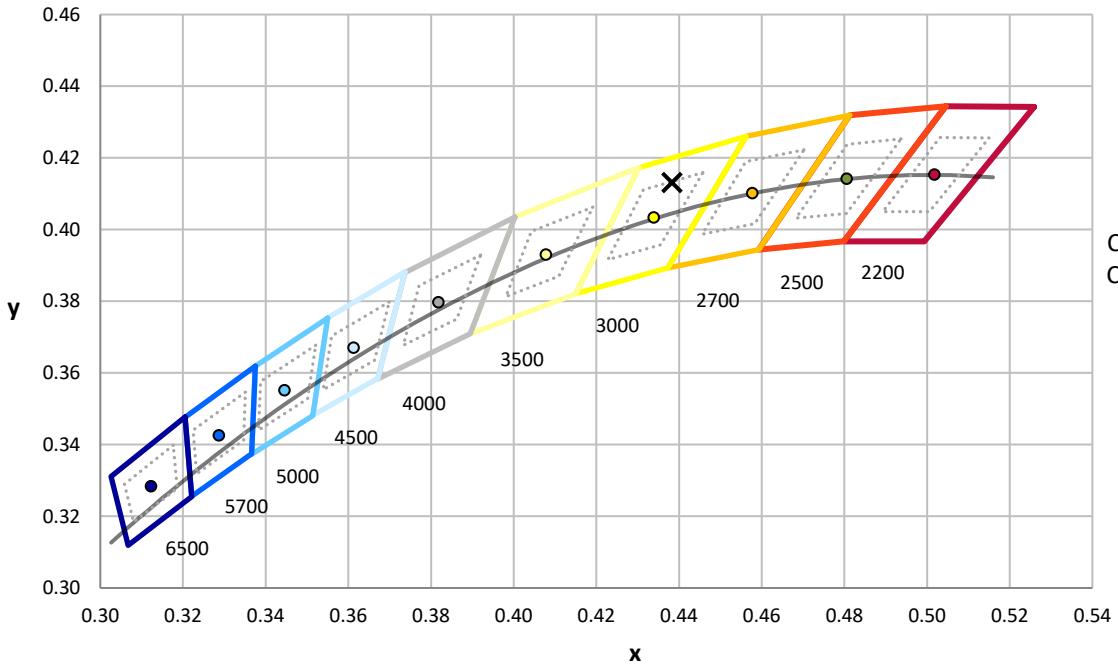
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

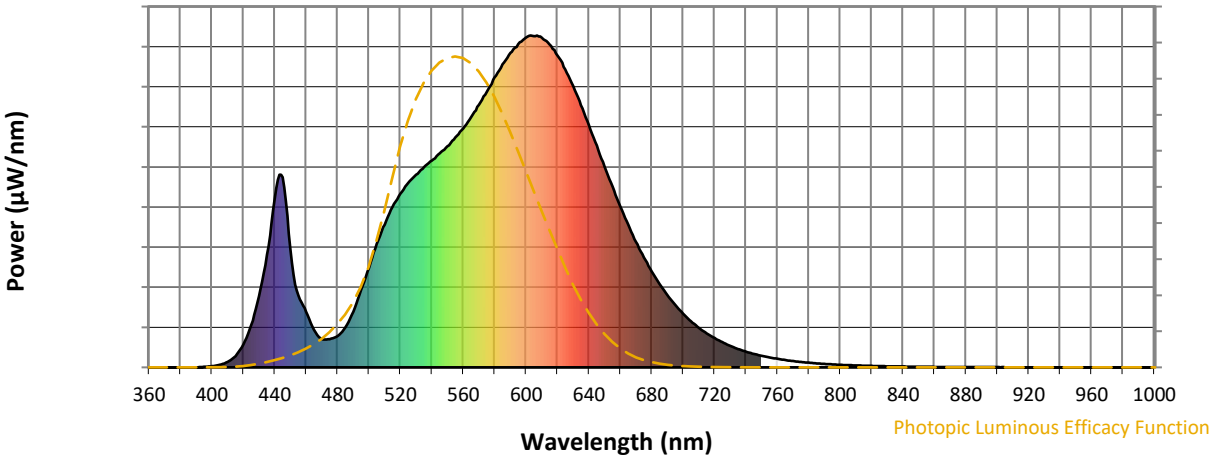


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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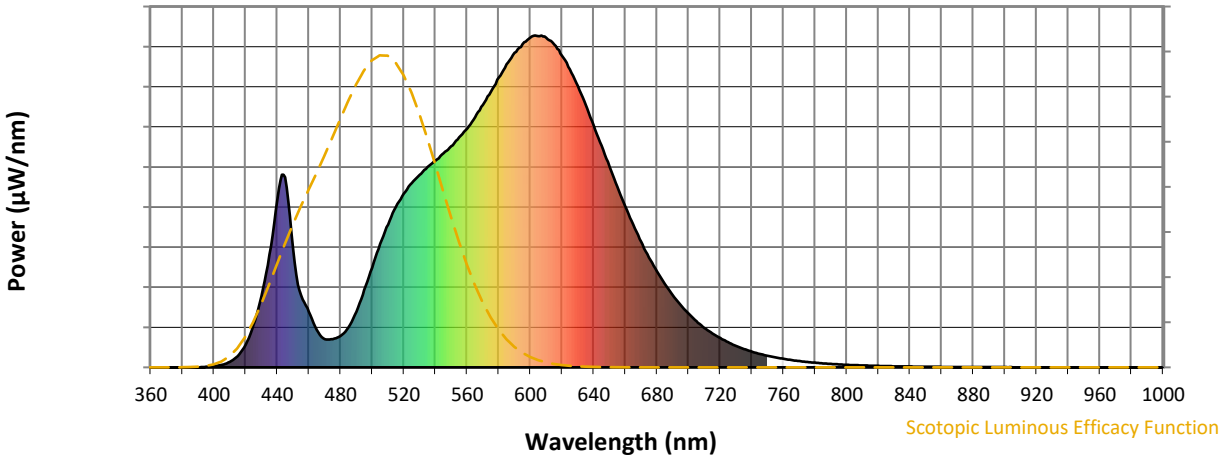
Scotopic Flux vs. Wavelength



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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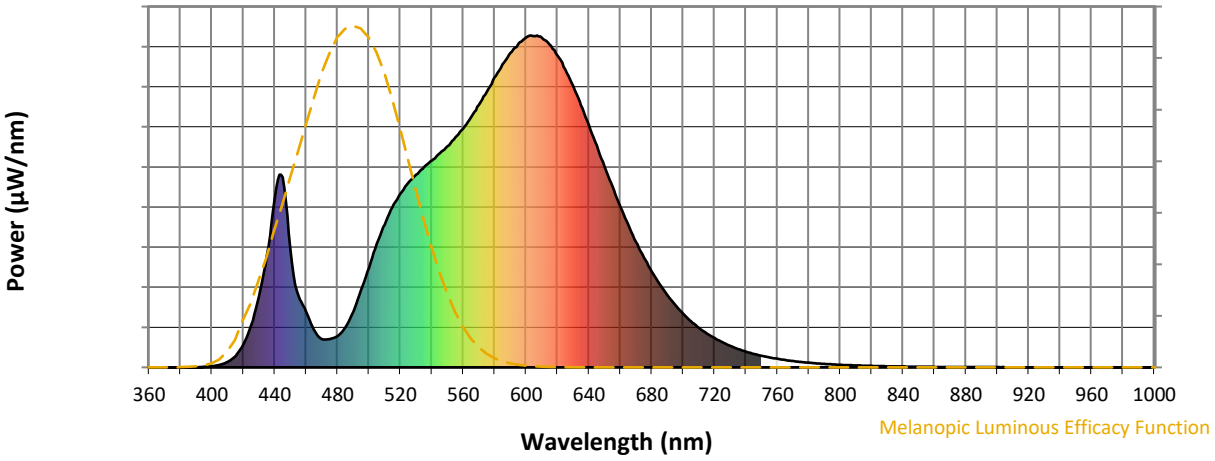
Melanopic Flux vs. Wavelength



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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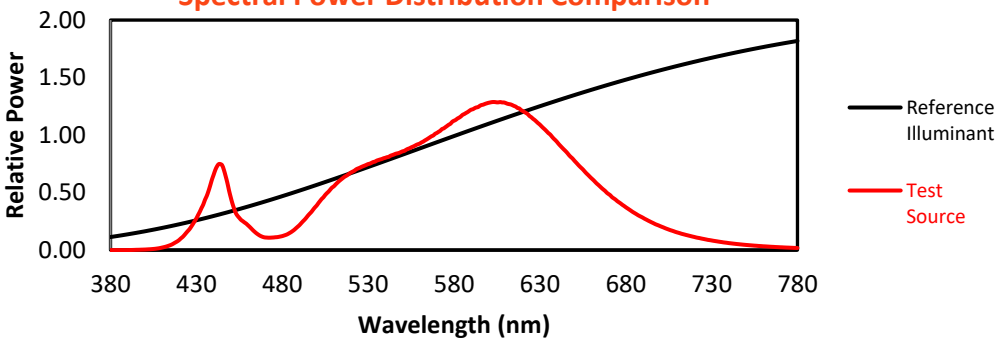
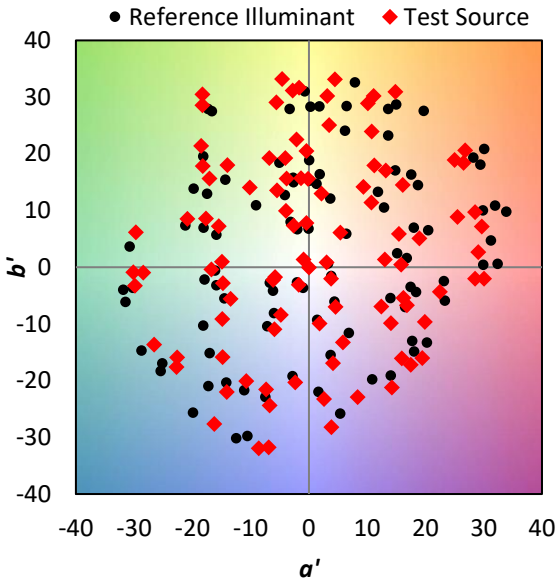
Summary

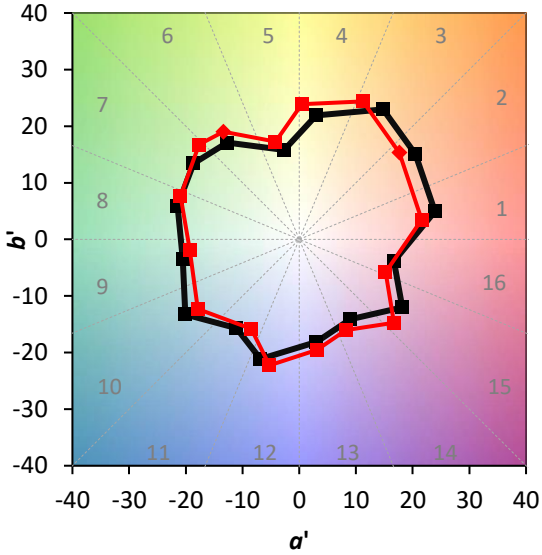
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

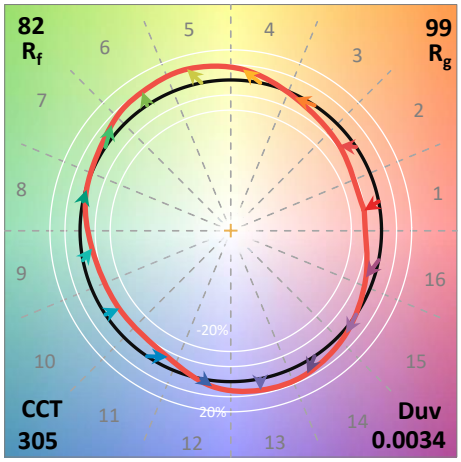
Spectral Power Distribution Comparison

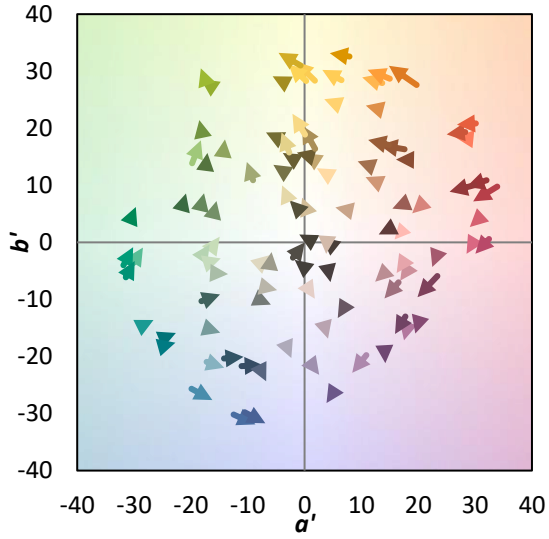


Color Vector Graphics









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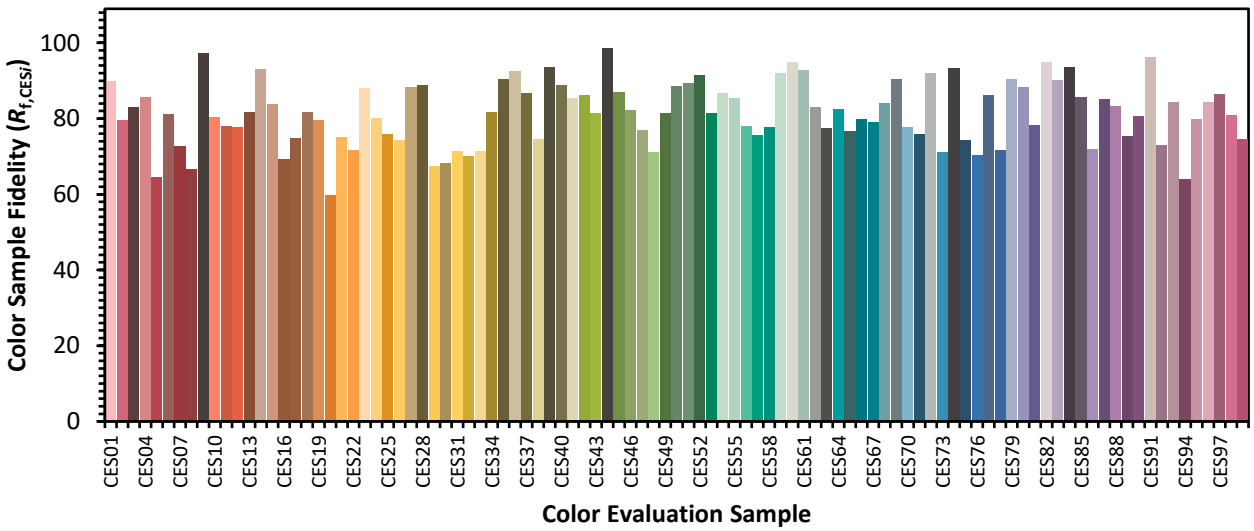
Individual Sample Fidelity Index ($R_{f,i}$)

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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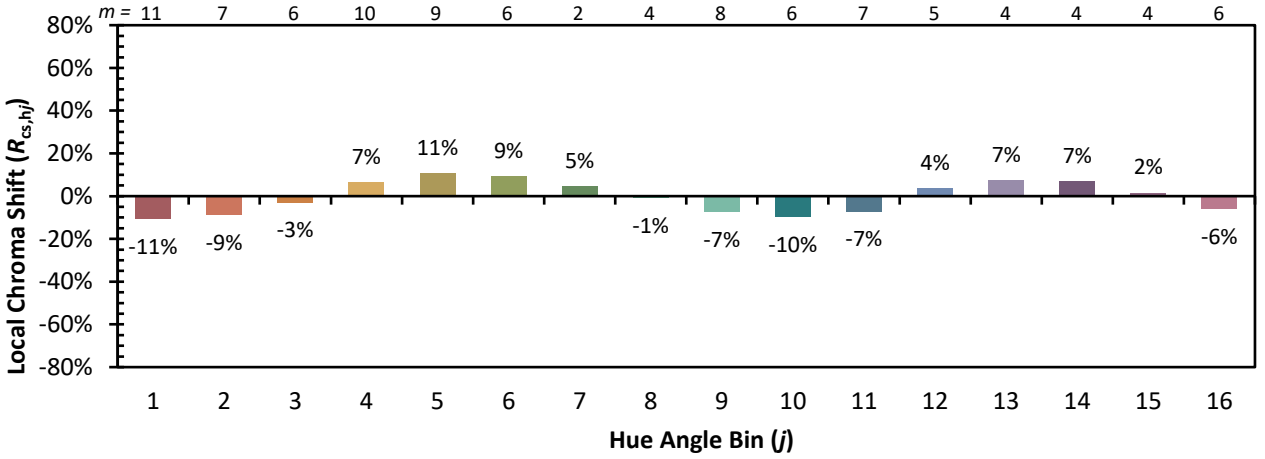
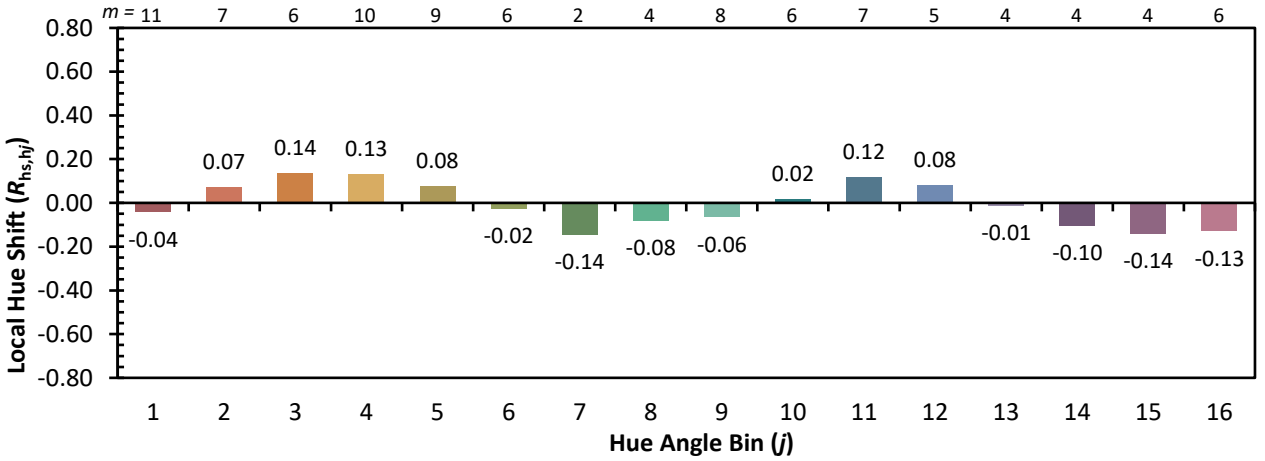
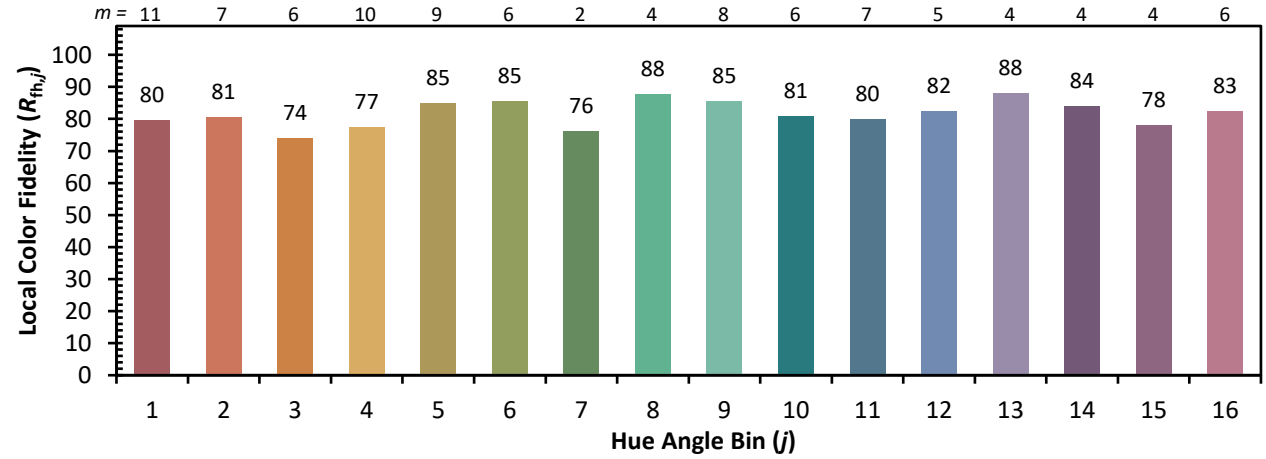
Color Rendition by Hue-Angle Bin







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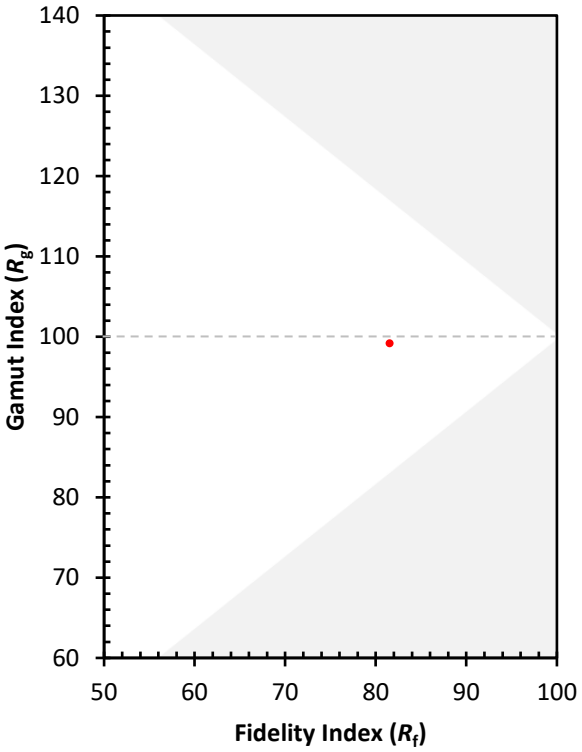
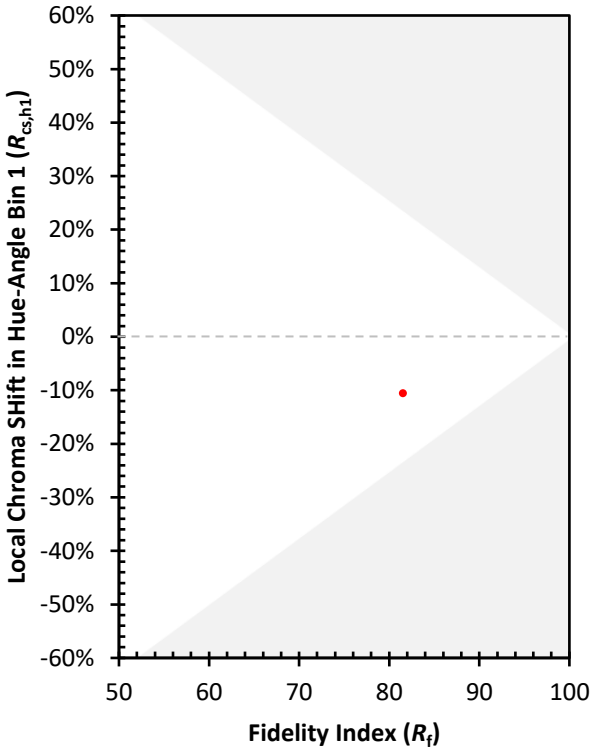
Measure Comparisons





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