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: P629096

Luminaire Tested: GWS-SA1A-830-U-T3-W

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:	P629096
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1A-830-U-T3-W
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2260.6 lumens
Efficiency:	N/A
Efficacy:	114.8 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B1 - U0 - G1

Input Watts (W):	19.7
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: P629096
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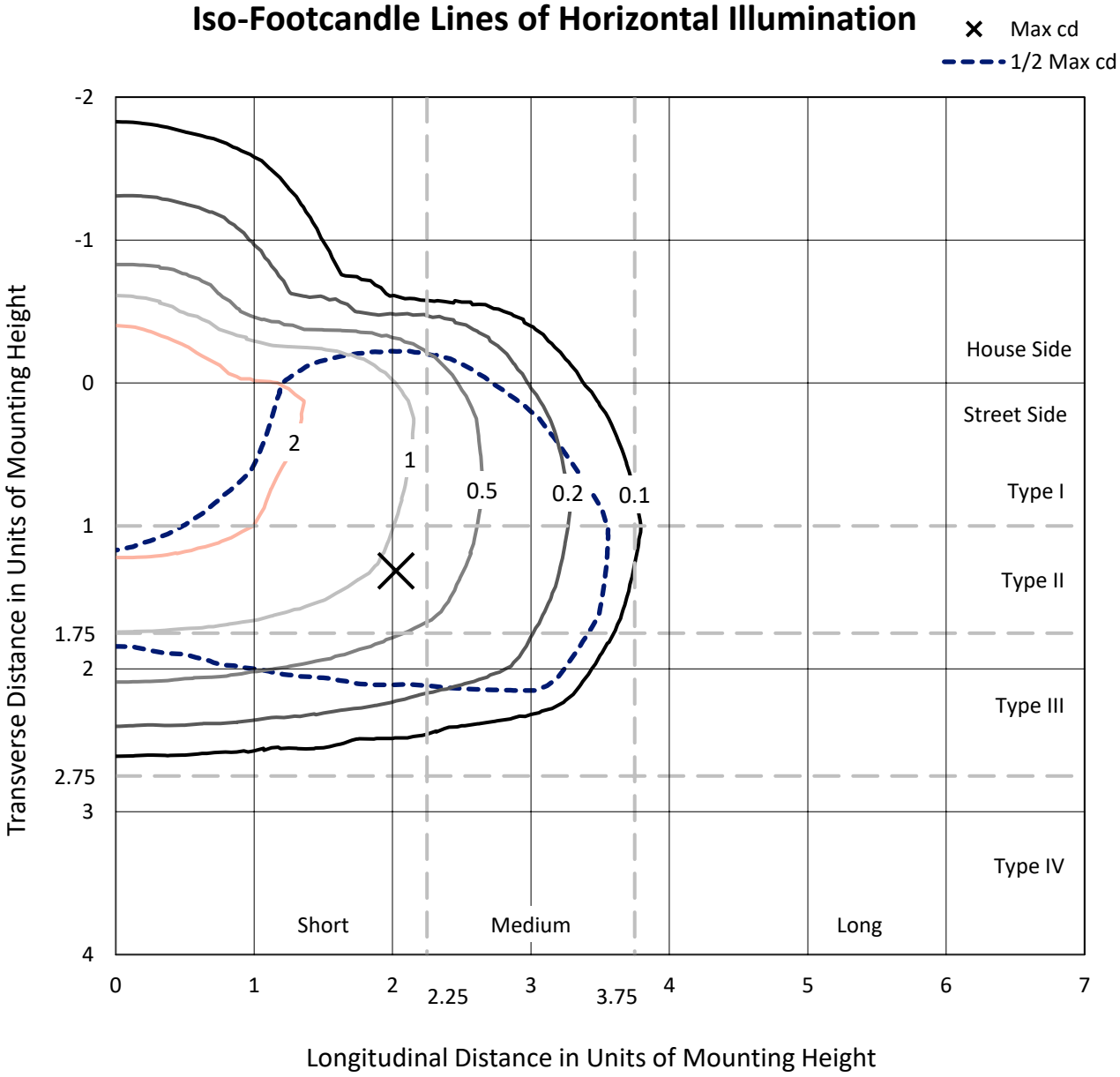
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 3.2 fc
Type III - Short - N/A

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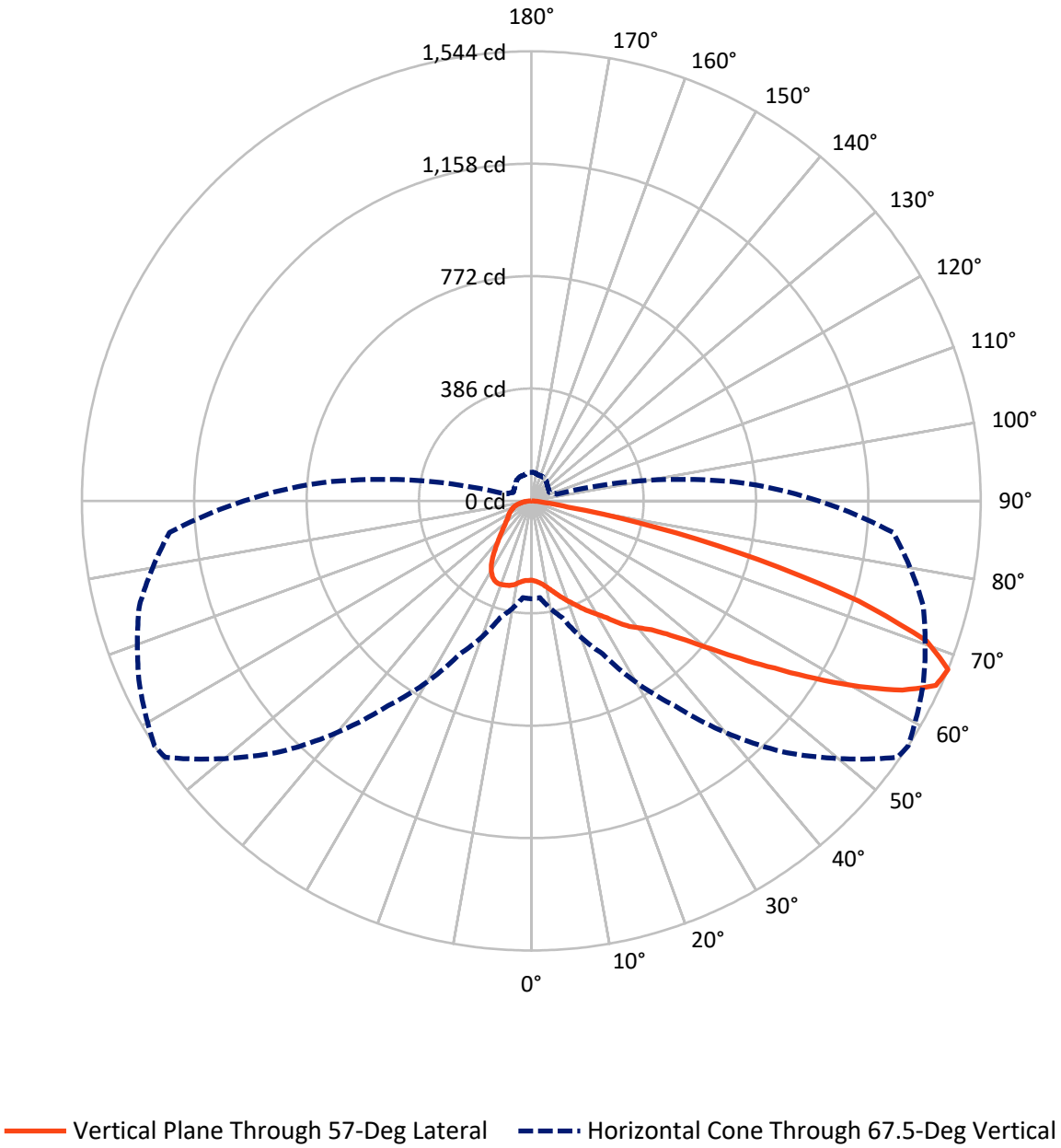
Luminous Intensity Polar Plot



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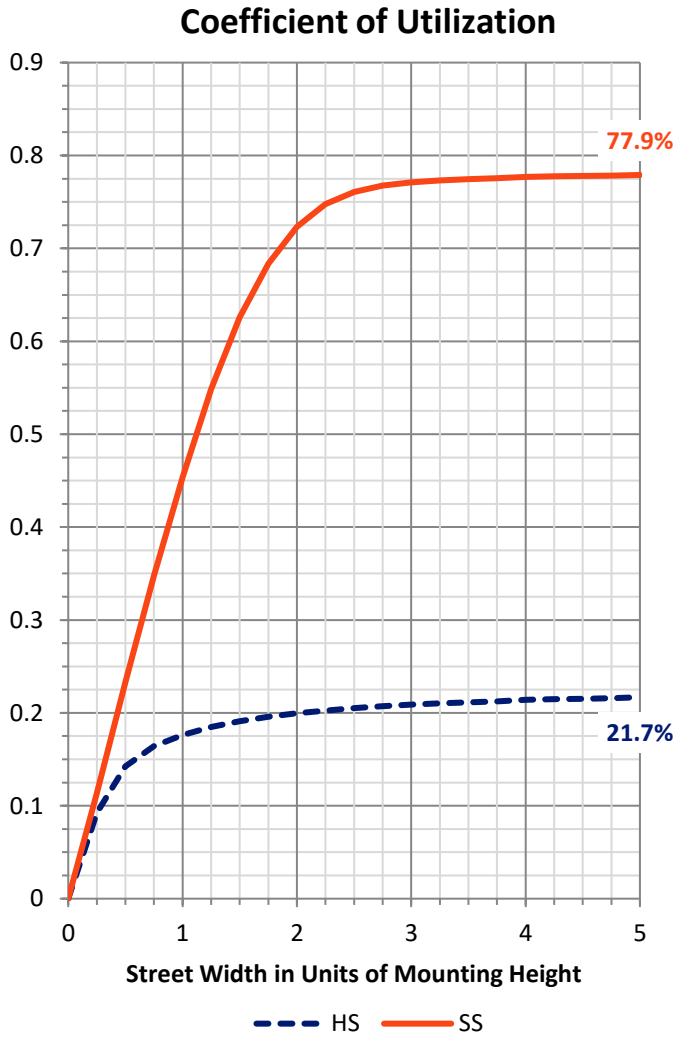
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	497.0	0.0	497.0
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	1763.6	0.0	1763.6
	% Fixture	78.0	0.0	78.0
Total	Lumens	2260.6	0.0	2260.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.0	1.2
10°-20°	89.4	4.0
20°-30°	159.4	7.1
30°-40°	231.8	10.3
40°-50°	335.5	14.8
50°-60°	525.1	23.2
60°-70°	612.5	27.1
70°-80°	255.7	11.3
80°-90°	24.1	1.1
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°	2260.6	100.0
0°-180°	2260.6	100.0



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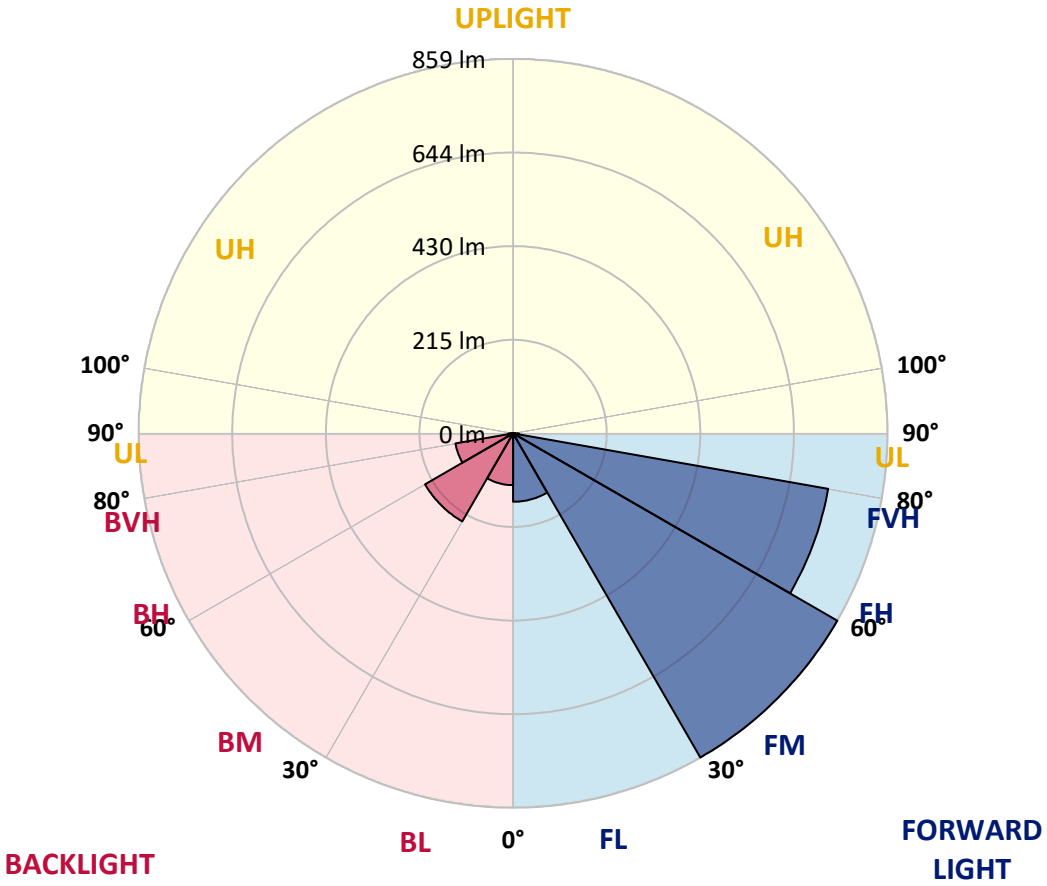
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	157.0	6.9			
FM	(30°-60°)	859.1	38.0			
FH	(60°-80°)	734.1	32.5			G1/1800
FVH	(80°-90°)	13.4	0.6			G1/100
BL	(0°-30°)	118.9	5.3	B1/500		
BM	(30°-60°)	233.3	10.3	B1/1000		
BH	(60°-80°)	134.1	5.9	B1/500		G1/500
BVH	(80°-90°)	10.7	0.5			G1/100
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	272.4	272.4	272.4	272.4	272.4	272.4	272.4	272.4	272.4	272.4	272.4
2.5°	276.3	275.9	275.8	276.8	276.4	276.3	276.3	276.1	275.8	274.5	272.7
5°	283.9	283.2	282.6	283.4	282.8	282.1	281.9	281.6	280.5	278.5	275.8
7.5°	291.8	291.2	291.3	291.8	291.3	291.0	290.5	290.2	288.4	285.3	281.6
10°	303.0	303.0	303.3	303.8	304.0	303.5	302.5	302.0	299.9	296.0	290.8
12.5°	319.2	318.9	318.9	318.5	319.0	318.5	317.6	316.8	314.2	309.1	301.7
15°	340.6	339.3	338.1	336.0	335.4	333.6	333.9	333.4	331.0	324.2	314.8
17.5°	363.4	363.2	361.5	357.2	353.0	350.1	350.8	350.6	349.3	340.1	328.1
20°	383.5	384.3	382.7	379.4	373.8	368.3	367.9	368.7	367.1	357.9	341.2
22.5°	406.0	405.3	403.7	399.5	395.3	389.5	387.5	386.9	386.2	375.7	354.7
25°	427.4	429.3	427.2	423.3	416.8	410.5	408.9	409.6	407.8	393.8	369.1
27.5°	454.4	455.2	453.9	448.6	443.1	434.2	431.1	431.1	430.4	410.8	380.4
30°	483.2	485.5	483.2	478.9	473.2	460.4	453.8	453.1	451.2	428.3	393.7
32.5°	512.2	513.8	512.2	508.0	501.5	490.4	480.8	479.3	476.8	447.4	407.3
35°	538.0	539.4	539.1	540.1	534.7	520.6	514.8	514.2	507.4	472.4	425.7
37.5°	566.2	567.9	565.5	567.4	565.3	552.1	550.3	547.0	537.3	495.9	445.2
40°	598.2	599.8	595.9	596.8	594.3	586.9	577.8	573.4	559.0	521.3	475.8
42.5°	632.5	636.3	638.1	636.6	630.9	626.7	610.8	605.3	593.4	567.1	526.2
45°	682.3	687.8	690.4	686.6	684.2	678.2	658.8	652.1	645.8	631.7	596.4
47.5°	735.9	740.9	749.1	750.8	752.7	748.2	720.8	714.3	715.5	713.8	682.9
50°	778.6	782.8	801.5	821.4	837.9	839.2	804.2	797.2	803.4	808.6	787.0
52.5°	809.7	813.4	838.1	879.2	916.6	944.3	906.6	898.6	903.6	915.3	905.4
55°	835.0	840.2	865.9	929.1	1004.7	1048.4	1024.3	1014.2	1012.1	1026.6	1032.2
57.5°	848.3	849.9	886.0	968.1	1069.3	1150.6	1161.1	1149.8	1129.7	1137.6	1167.1
60°	818.0	820.7	870.1	978.1	1120.3	1252.0	1304.8	1295.4	1252.6	1257.0	1289.5
62.5°	734.2	738.1	797.6	930.4	1124.5	1319.7	1437.4	1431.4	1374.1	1350.4	1360.2
65°	589.0	590.3	651.8	812.1	1040.8	1328.1	1529.9	1528.4	1458.9	1403.6	1361.9
67.5°	335.9	333.6	415.9	579.3	858.9	1218.6	1535.9	1544.4	1486.5	1394.8	1248.6
70°	145.6	145.9	183.8	285.8	555.9	984.9	1426.5	1441.3	1406.8	1249.2	993.4
72.5°	67.4	68.3	84.7	123.7	237.4	611.0	1163.2	1176.5	1146.9	999.8	722.7
75°	47.6	48.4	56.5	70.9	109.1	238.1	778.1	806.0	820.4	747.8	476.3
77.5°	36.1	37.2	41.3	49.2	67.4	84.4	372.3	438.7	522.6	465.3	245.3
80°	23.0	23.0	27.4	32.9	41.1	43.9	107.5	127.4	255.7	191.7	96.4
82.5°	15.5	16.0	18.6	20.9	23.6	24.9	46.2	49.2	73.8	65.3	39.7
85°	8.3	8.6	9.7	9.6	11.3	9.9	19.4	19.3	27.0	29.6	15.1
87.5°	0.0	0.0	0.2	0.2	0.3	0.5	2.1	2.3	5.7	9.1	5.0
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: P629096
CATALOG NUMBER: GWS-SA1A-830-U-T3-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	272.4	272.4	272.4	272.4	272.4	272.4	272.4	272.4	272.4	272.4	272.4
2.5°	273.7	271.7	272.7	272.4	273.4	273.4	271.6	271.1	271.3	269.3	268.7
5°	276.1	273.8	274.3	273.7	274.7	275.5	274.7	274.7	275.6	274.2	273.4
7.5°	281.6	279.0	279.0	278.2	279.4	280.0	279.4	280.3	282.1	280.6	279.8
10°	290.4	287.3	287.4	286.5	287.0	286.6	284.0	283.2	283.7	282.4	281.8
12.5°	301.7	297.5	297.5	295.5	294.4	291.0	285.7	283.7	284.0	282.9	282.4
15°	312.5	308.7	307.9	304.0	298.8	292.5	287.6	286.3	286.6	285.5	284.7
17.5°	325.3	320.3	317.4	310.3	300.7	294.2	289.4	286.3	283.7	281.1	280.5
20°	337.2	330.8	325.5	314.5	302.8	293.9	284.9	277.2	270.9	267.5	266.7
22.5°	349.3	341.2	331.8	317.4	302.7	288.1	271.4	259.9	250.5	245.5	246.5
25°	360.8	350.6	337.8	320.2	297.5	275.1	252.5	235.3	224.6	220.7	219.6
27.5°	370.4	357.7	343.3	318.9	286.8	256.5	226.6	207.4	197.1	192.7	191.6
30°	381.1	366.8	351.3	312.9	270.0	230.4	197.2	181.7	174.2	170.0	170.2
32.5°	393.4	378.5	362.4	301.4	248.4	202.3	173.1	162.4	156.4	152.2	151.6
35°	409.9	395.1	369.9	284.0	221.1	176.4	156.6	147.9	140.4	134.9	133.8
37.5°	430.3	420.2	370.7	260.9	191.7	158.5	144.8	135.4	126.3	119.0	118.2
40°	465.3	453.8	364.0	231.9	166.8	147.0	134.9	124.0	113.5	105.4	104.3
42.5°	515.1	491.5	349.8	199.2	148.0	138.0	125.5	111.7	101.1	95.4	94.6
45°	578.6	533.6	328.4	168.4	134.1	129.1	115.6	101.2	95.5	91.5	90.7
47.5°	656.4	582.7	303.8	144.5	123.2	121.0	105.6	97.7	92.6	89.2	88.4
50°	749.3	645.2	283.6	125.7	113.5	111.6	102.3	95.5	91.5	88.7	88.1
52.5°	855.4	714.7	273.7	112.2	105.1	103.2	101.2	95.1	91.7	89.6	88.7
55°	965.5	787.8	264.5	101.9	98.0	99.1	101.4	96.7	94.1	91.3	90.5
57.5°	1071.9	856.5	241.8	93.8	92.8	97.2	102.2	98.3	95.2	92.5	91.5
60°	1145.3	894.1	203.4	87.3	88.9	94.7	100.1	95.9	92.0	90.8	90.4
62.5°	1165.0	889.5	157.9	80.6	84.2	89.4	94.6	91.8	87.8	89.6	89.7
65°	1118.9	841.0	118.5	74.2	78.1	82.4	88.9	87.8	86.3	91.2	91.3
67.5°	*988.2*	*721.6*	*90.4*	*68.5*	*71.7*	*77.1*	*87.1*	*91.8*	*92.1*	*98.3*	*97.7*
70°	747.7	539.1	70.8	63.2	66.9	77.1	92.8	94.9	91.0	96.7	95.4
72.5°	516.9	355.8	60.2	58.5	60.9	73.5	92.6	92.6	88.4	88.4	86.0
75°	321.1	209.2	52.5	52.5	52.5	64.3	90.0	85.3	77.9	74.5	72.6
77.5°	158.5	101.7	44.0	45.7	43.9	53.8	73.5	69.8	65.3	61.7	60.4
80°	67.7	50.8	35.6	37.4	35.3	40.5	58.3	57.5	53.1	48.4	47.0
82.5°	31.1	26.2	28.5	29.3	25.7	30.4	42.6	42.6	40.2	33.7	31.3
85°	13.3	13.9	19.8	19.8	16.2	17.2	22.8	21.7	19.4	15.9	14.6
87.5°	4.5	6.8	10.0	8.7	3.4	1.5	0.8	0.3	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

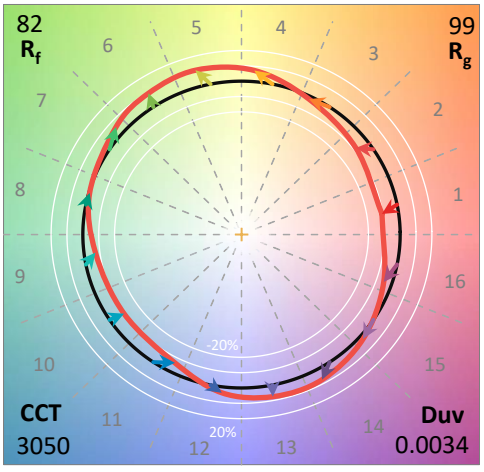
Test Information

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

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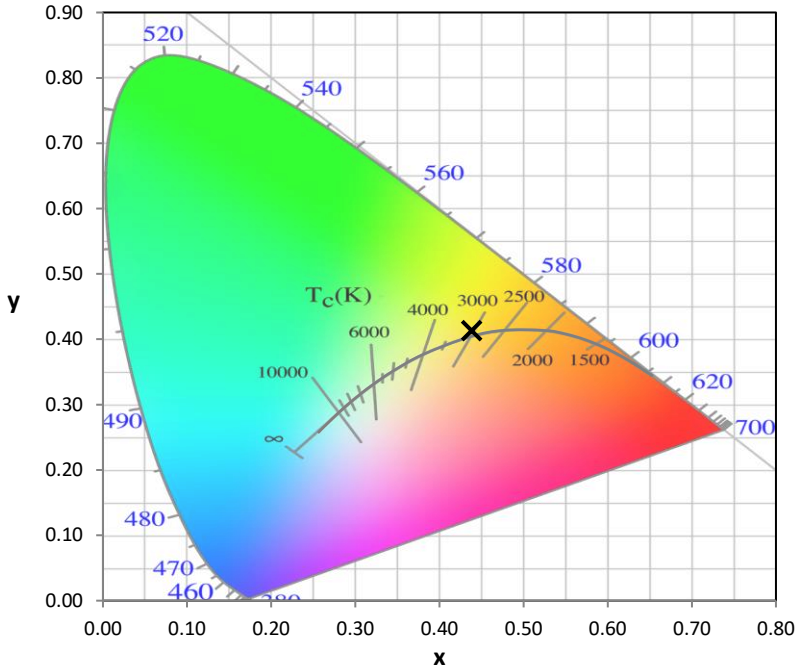
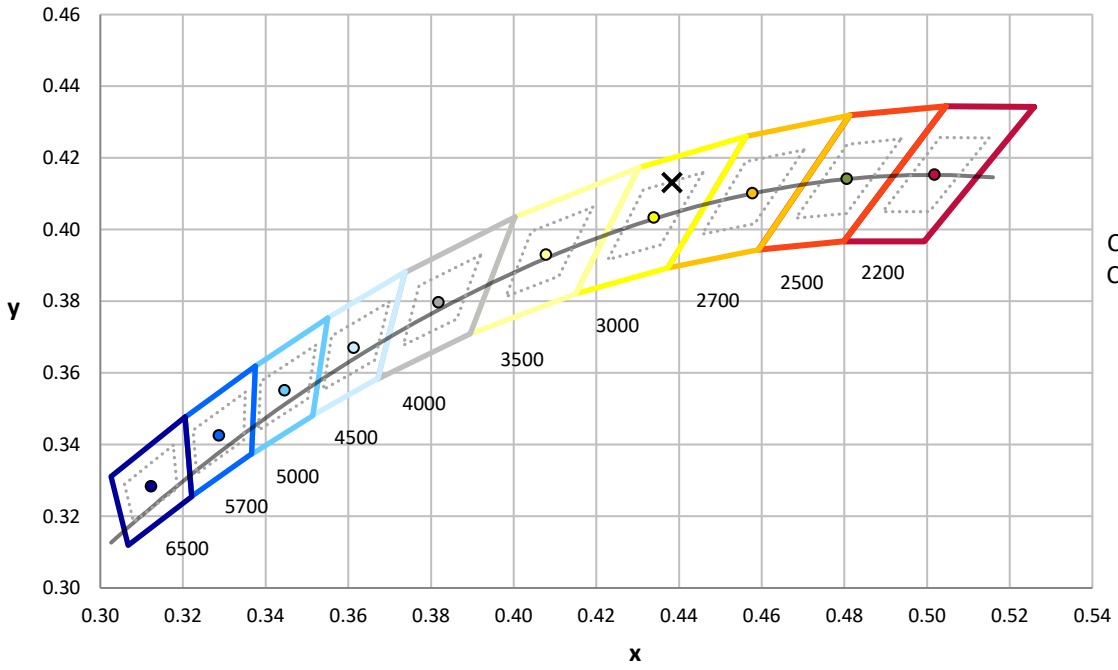
CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles

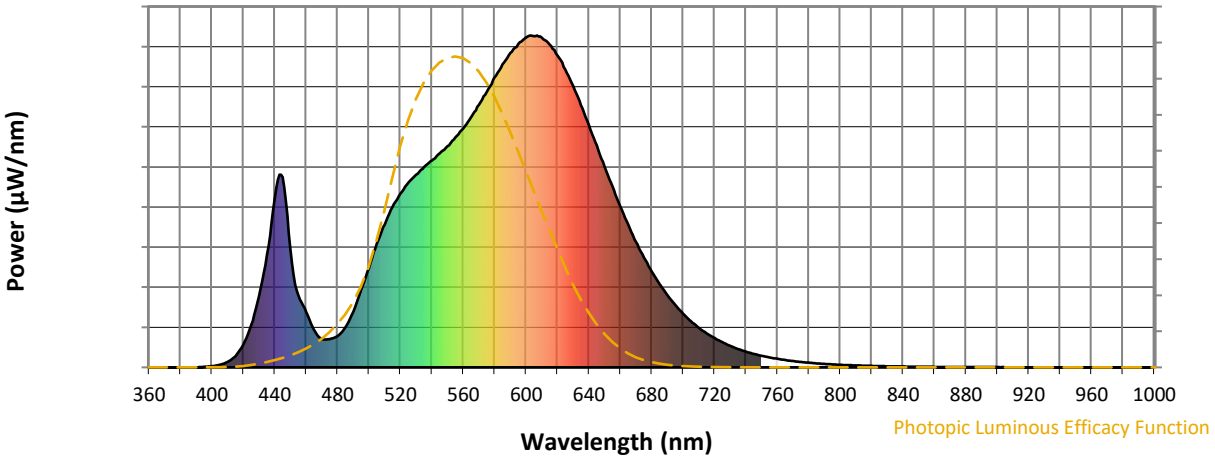


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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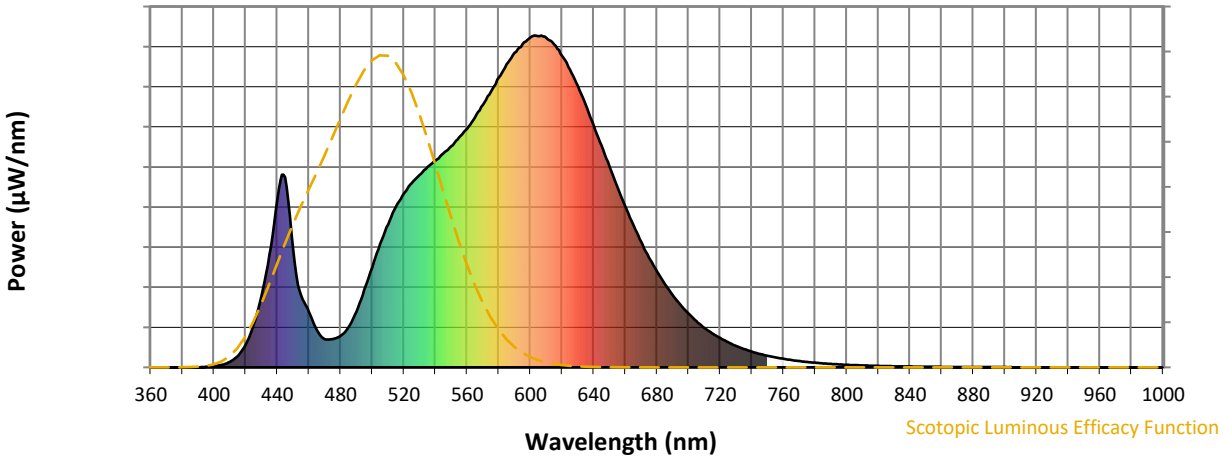
Scotopic Flux vs. Wavelength



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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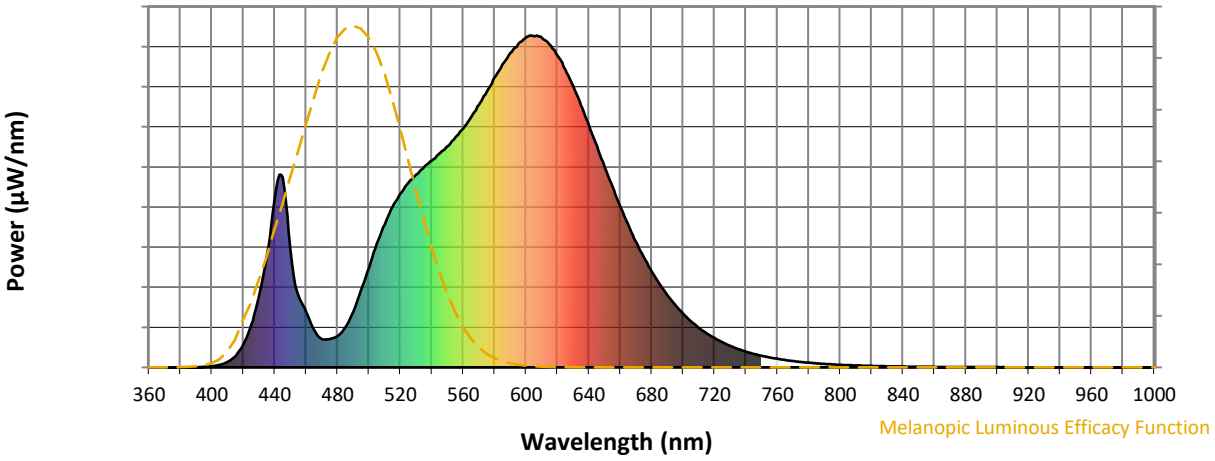
Melanopic Flux vs. Wavelength



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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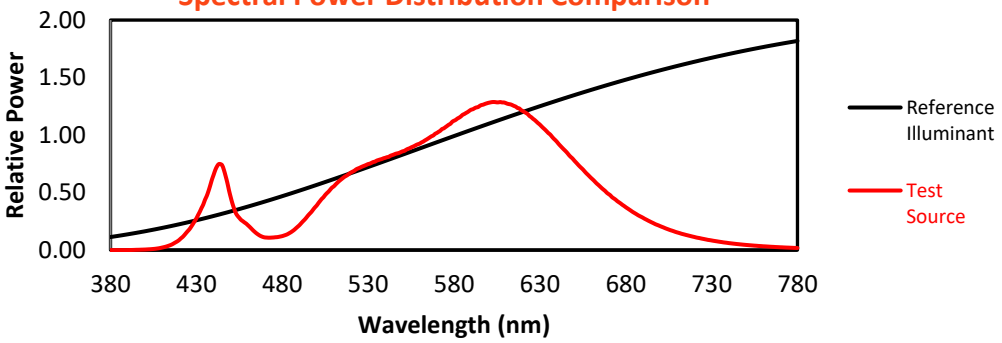
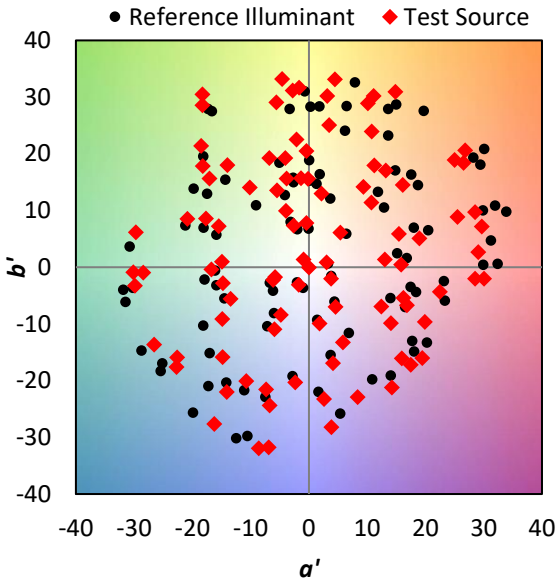
Summary

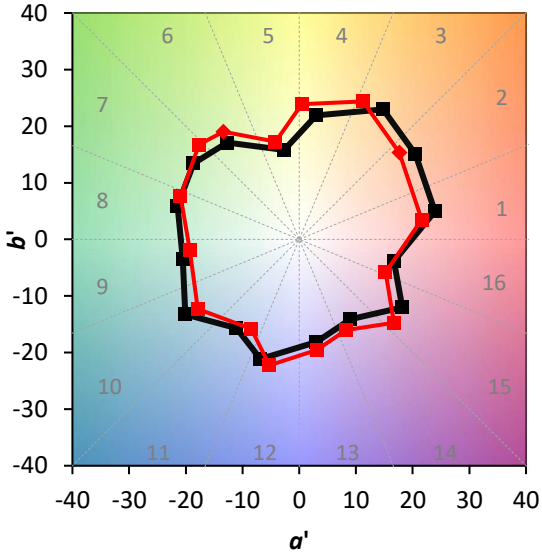
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

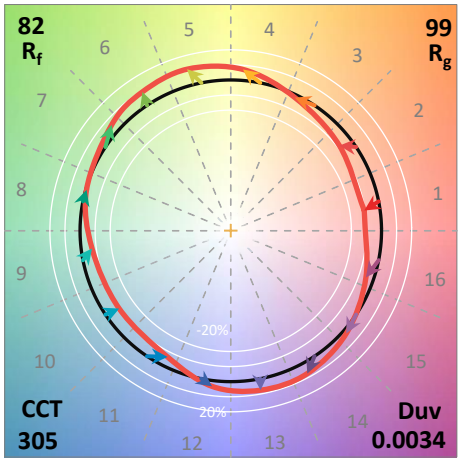
Spectral Power Distribution Comparison

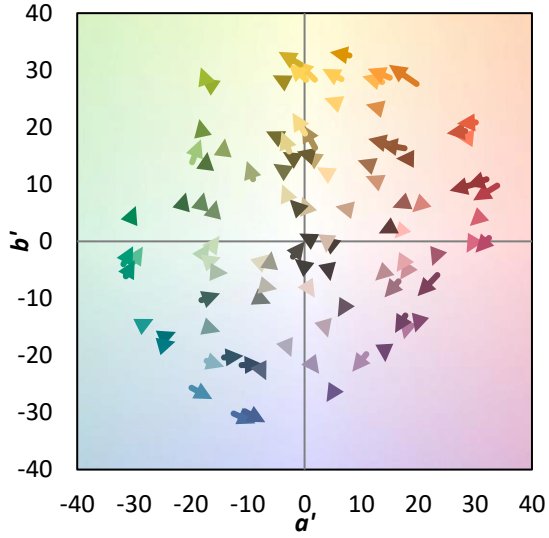


Color Vector Graphics









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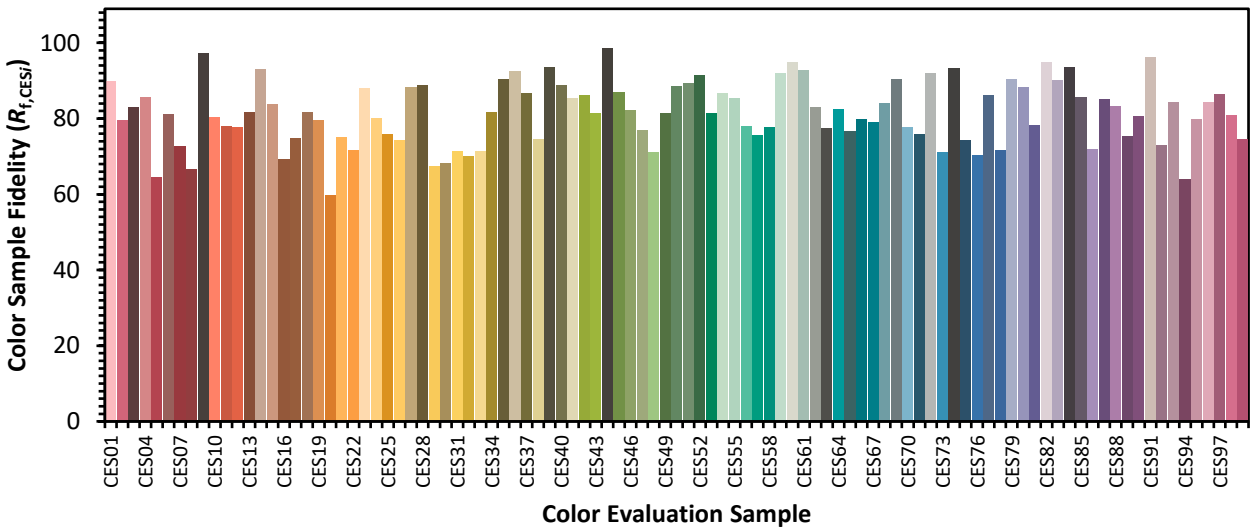
Individual Sample Fidelity Index ($R_{f,i}$)

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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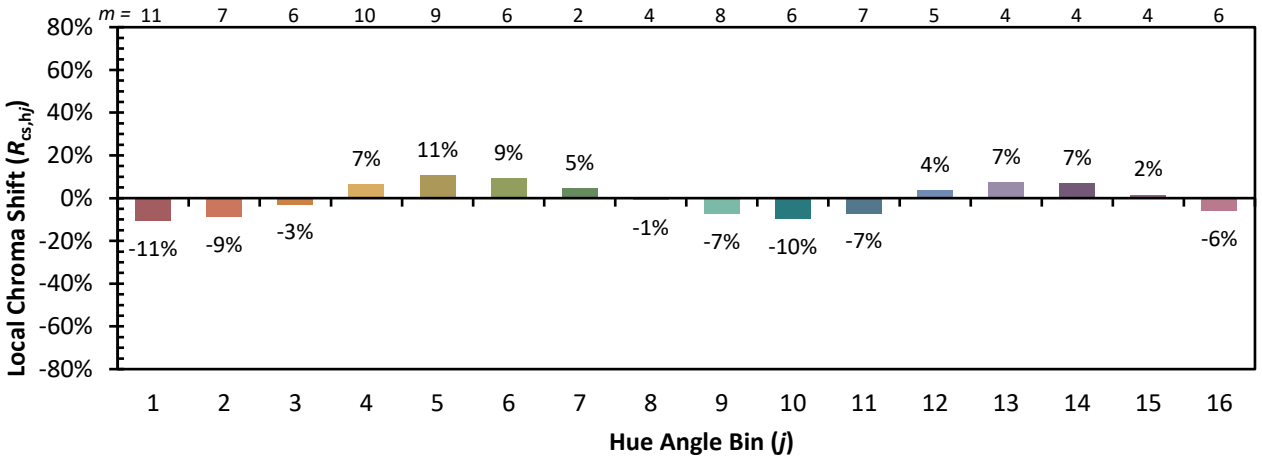
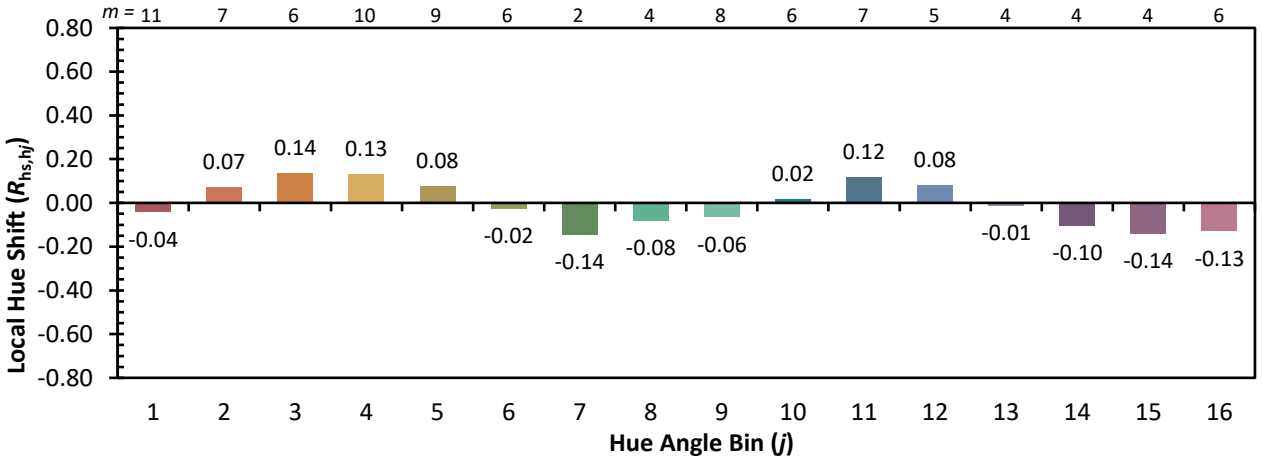
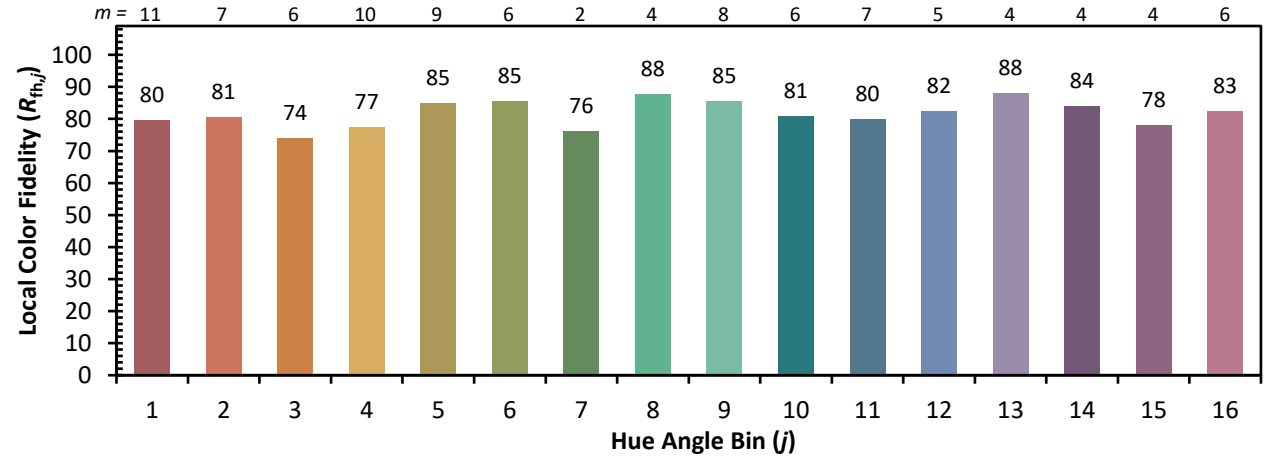
Color Rendition by Hue-Angle Bin







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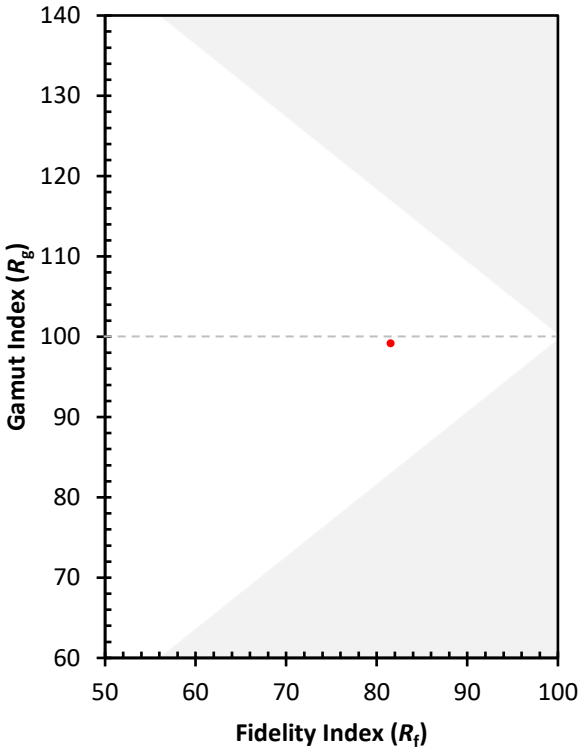
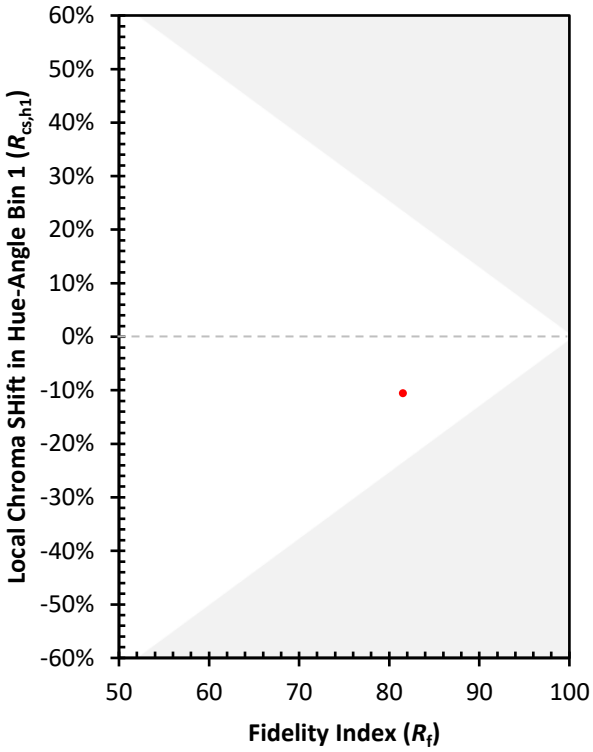
Measure Comparisons





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