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: P629068

Luminaire Tested: GWS-SA1A-830-U-SL2-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:	P629068
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1A-830-U-SL2-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	1790.8 lumens
Efficiency:	N/A
Efficacy:	90.9 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B0 - 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: P629068
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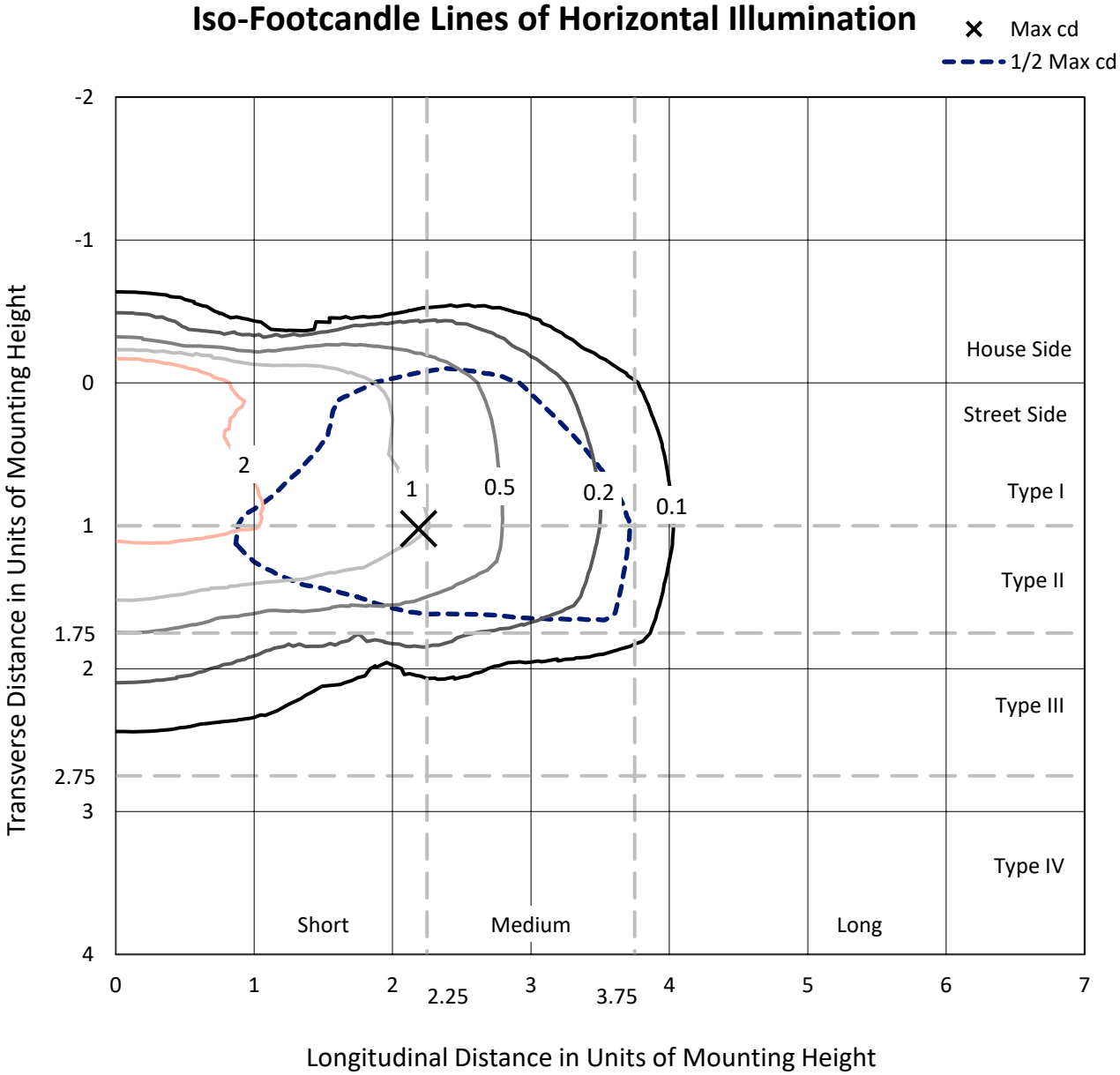
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 4.3 fc
Type II - Short - N/A

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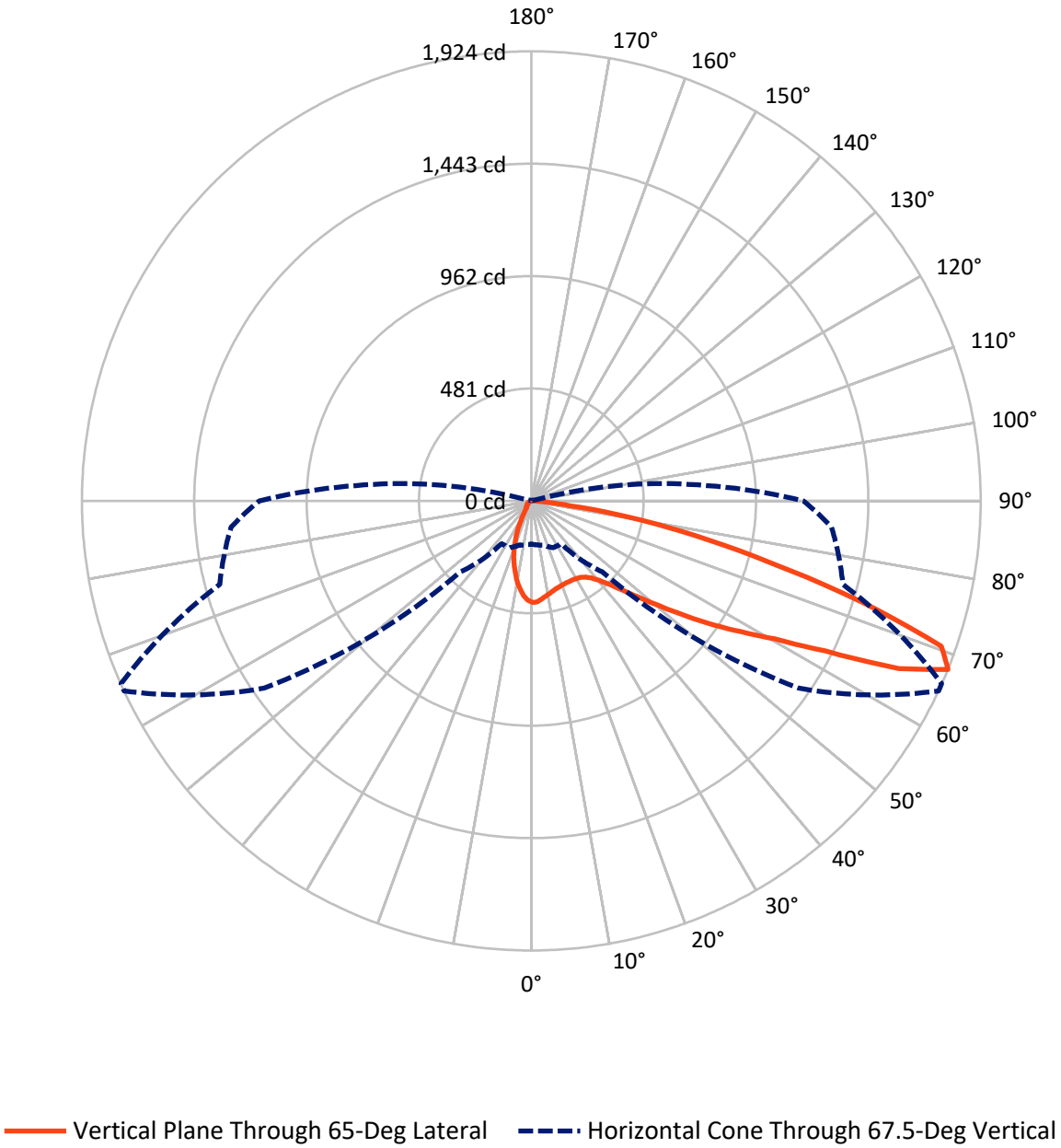
Luminous Intensity Polar Plot



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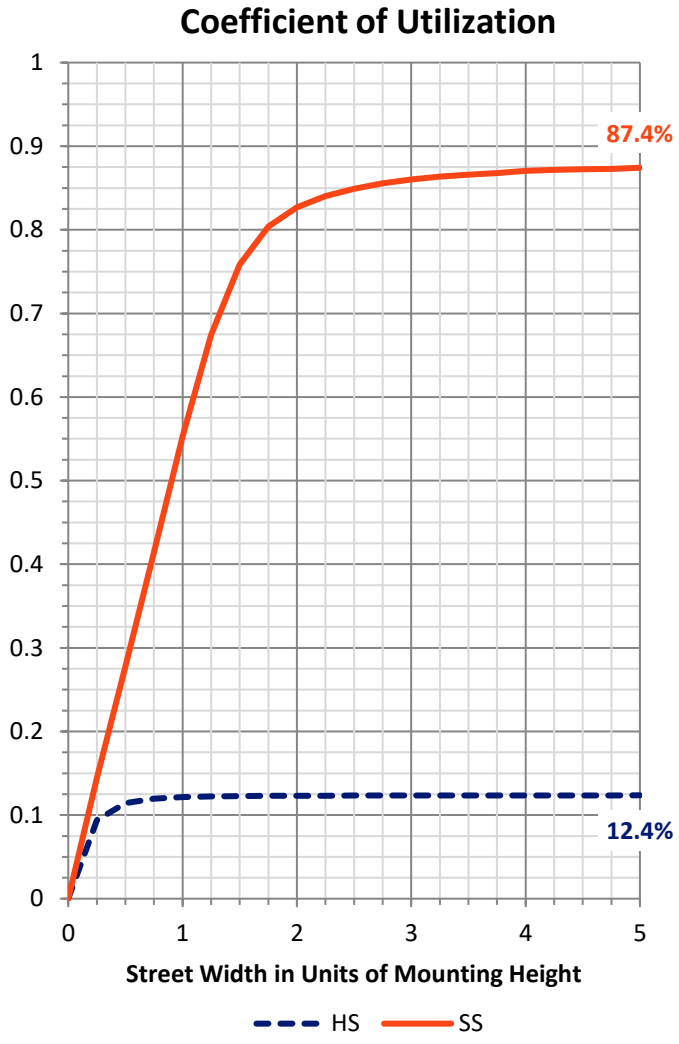
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	223.6	0.0	223.6
	% Fixture	12.5	0.0	12.5
Street Side	Lumens	1567.2	0.0	1567.2
	% Fixture	87.5	0.0	87.5
Total	Lumens	1790.8	0.0	1790.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.1	2.0
10°-20°	81.1	4.5
20°-30°	115.9	6.5
30°-40°	168.6	9.4
40°-50°	264.0	14.7
50°-60°	411.9	23.0
60°-70°	452.4	25.3
70°-80°	240.8	13.4
80°-90°	20.0	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°	1790.8	100.0
0°-180°	1790.8	100.0



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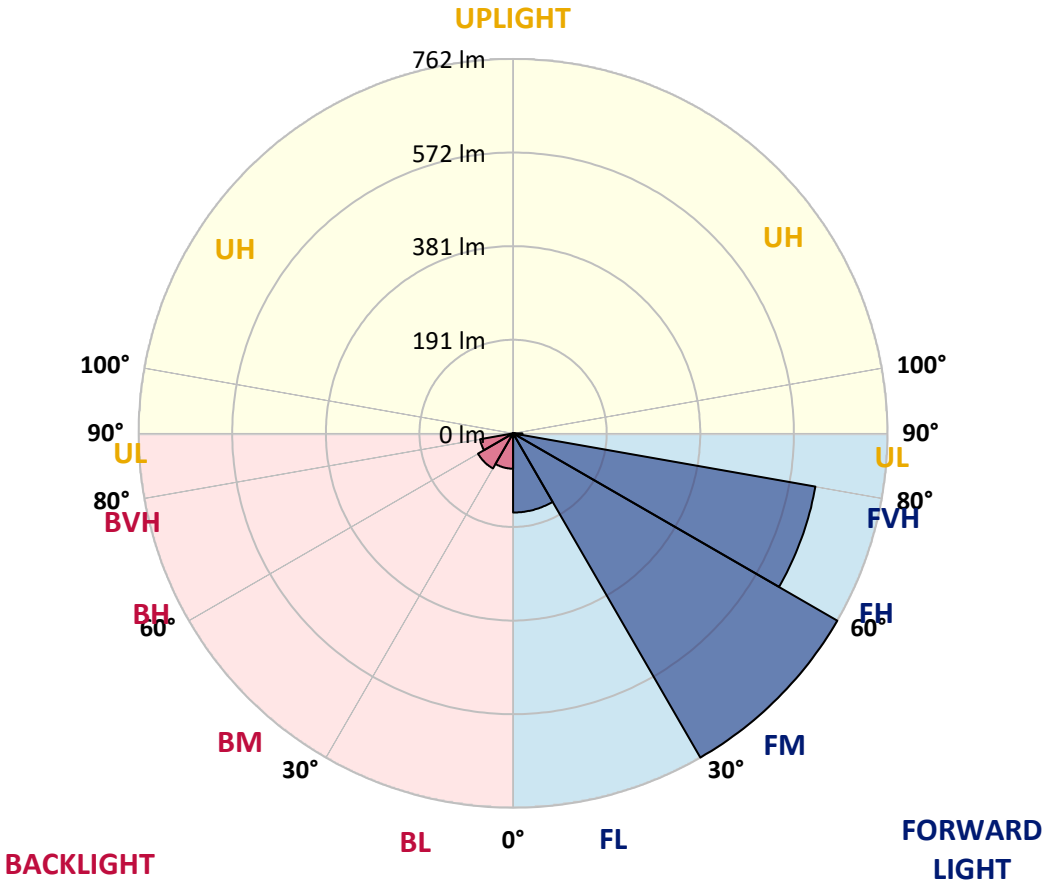
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	161.2	9.0			
FM	(30°-60°)	762.1	42.6			
FH	(60°-80°)	624.9	34.9			G0/660
FVH	(80°-90°)	19.0	1.1			G1/100
BL	(0°-30°)	71.9	4.0	B0/110		
BM	(30°-60°)	82.4	4.6	B0/220		
BH	(60°-80°)	68.3	3.8	B0/110		G0/110
BVH	(80°-90°)	1.1	0.1			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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	434.3	434.3	434.3	434.3	434.3	434.3	434.3	434.3	434.3	434.3	434.3
2.5°	419.3	420.6	418.8	423.2	424.0	428.8	431.6	433.5	433.4	435.8	435.8
5°	394.6	395.9	395.0	399.7	403.4	411.0	417.3	424.6	424.9	432.4	435.1
7.5°	373.8	373.9	373.9	379.8	384.6	394.0	403.4	414.6	415.9	427.4	434.6
10°	356.6	357.1	357.2	363.9	369.2	380.6	392.5	406.0	407.4	423.0	434.3
12.5°	344.8	344.9	345.6	352.5	358.4	370.2	382.3	397.7	399.7	418.0	432.9
15°	339.1	338.8	339.1	344.9	350.8	362.1	374.6	391.1	393.2	413.8	433.0
17.5°	338.8	338.3	338.0	342.3	346.1	356.1	368.7	386.7	389.0	411.8	434.8
20°	343.5	343.2	341.5	343.5	344.3	352.5	365.0	383.3	385.6	411.5	438.7
22.5°	355.8	355.0	352.5	350.8	346.4	351.2	362.4	380.9	383.5	412.3	443.7
25°	374.1	373.8	370.7	366.3	355.1	353.2	362.6	380.9	383.3	413.3	449.1
27.5°	401.6	399.7	395.8	388.2	372.1	360.8	365.8	381.9	384.3	414.6	453.4
30°	429.6	429.5	428.2	420.4	396.6	375.4	372.6	384.4	386.7	415.7	457.5
32.5°	458.6	459.1	462.3	456.3	430.3	397.1	384.9	389.8	391.4	418.0	461.0
35°	486.1	487.1	495.7	497.8	471.2	430.0	405.0	400.5	400.6	423.0	465.7
37.5°	512.5	515.8	529.5	539.7	522.3	469.8	434.0	418.6	417.3	433.0	472.9
40°	542.5	548.7	566.0	583.3	577.8	522.4	473.5	446.5	443.7	451.5	485.7
42.5°	575.7	582.3	605.3	629.6	632.2	586.1	522.9	487.1	482.4	482.6	509.6
45°	611.3	620.2	647.0	681.9	697.6	657.0	583.8	542.0	537.3	530.4	548.2
47.5°	658.1	665.9	691.6	732.0	762.1	733.1	663.6	612.6	604.0	593.8	608.1
50°	698.5	705.3	727.4	778.0	840.6	831.2	754.2	700.9	692.6	675.3	687.1
52.5°	707.4	712.7	733.1	789.9	900.7	955.1	865.1	807.6	801.8	769.7	774.2
55°	667.4	675.5	693.8	756.9	916.4	1076.3	1009.1	927.9	915.8	864.6	872.7
57.5°	566.3	580.7	597.9	680.0	873.8	1140.7	1210.2	1055.4	1044.4	955.9	956.1
60°	415.1	426.7	438.2	513.4	772.8	1136.3	1392.7	1198.5	1178.4	1030.6	1027.8
62.5°	301.9	307.8	307.7	334.4	530.7	1061.5	1488.6	1414.2	1367.4	1110.4	1094.7
65°	237.4	237.2	244.2	253.0	296.4	819.4	1500.4	1729.2	1678.7	1217.5	1184.8
67.5°	184.8	188.3	195.3	221.0	222.7	428.8	1396.4	1924.0	1923.0	1380.9	1290.2
70°	142.5	147.4	157.2	194.8	205.7	240.0	1044.8	1862.3	1878.0	1453.9	1215.5
72.5°	91.5	91.2	105.7	157.4	197.6	200.0	577.8	1479.3	1497.1	1316.9	982.8
75°	51.2	51.5	59.8	96.4	184.1	188.2	286.1	1054.9	1069.0	1026.7	755.1
77.5°	20.1	20.7	28.0	50.7	121.5	168.1	170.0	719.3	721.4	636.3	463.2
80°	8.1	8.6	14.3	31.4	74.0	113.2	121.5	423.8	415.2	246.3	134.7
82.5°	2.4	2.6	5.7	17.8	38.7	80.5	81.9	162.6	153.5	53.0	34.3
85°	0.2	0.2	1.3	5.5	13.8	20.2	54.6	53.0	47.0	13.3	15.2
87.5°	0.0	0.0	0.2	0.2	0.3	0.6	5.8	9.7	9.9	2.4	6.8
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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CATALOG NUMBER: GWS-SA1A-830-U-SL2-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	434.3	434.3	434.3	434.3	434.3	434.3	434.3	434.3	434.3	434.3	434.3
2.5°	435.8	430.0	429.5	424.9	420.4	414.7	408.1	403.2	399.8	393.8	392.7
5°	435.1	427.4	420.1	407.1	392.7	377.2	363.6	350.9	343.0	337.6	335.4
7.5°	433.8	424.0	407.1	382.7	358.5	331.3	310.1	290.7	277.4	269.6	266.2
10°	432.9	419.6	392.2	355.1	317.7	280.2	247.9	219.1	203.1	190.4	188.3
12.5°	430.9	413.3	373.1	322.9	274.7	224.8	183.6	148.3	123.9	112.9	109.0
15°	429.0	406.6	354.0	288.9	227.7	166.2	116.3	82.3	65.4	60.2	59.9
17.5°	428.7	400.6	333.3	256.7	178.5	108.8	66.2	53.3	49.7	48.4	48.4
20°	429.6	395.6	312.9	219.6	130.0	66.2	49.4	46.2	44.0	42.9	42.9
22.5°	430.6	390.4	293.3	182.2	86.3	48.4	43.6	40.8	38.4	37.1	36.4
25°	431.2	384.8	271.6	144.6	56.4	42.1	38.2	34.7	31.7	30.1	30.1
27.5°	431.1	378.0	249.7	107.9	43.7	37.4	32.7	29.0	26.1	24.3	24.5
30°	429.8	370.5	227.0	75.3	38.2	32.7	28.0	24.1	21.2	19.8	19.6
32.5°	428.8	362.6	200.8	53.0	34.3	28.7	23.8	20.1	17.7	16.5	16.4
35°	427.7	354.8	175.9	40.3	30.9	24.8	20.1	17.0	15.1	14.1	14.1
37.5°	428.0	346.7	148.8	34.7	27.5	21.5	17.2	14.6	13.0	12.0	11.8
40°	433.0	341.9	122.3	31.4	24.5	18.6	14.9	12.6	11.0	10.0	9.9
42.5°	445.5	342.0	96.8	29.0	21.7	15.9	13.0	10.9	9.4	8.3	8.1
45°	470.4	348.8	74.3	26.4	18.8	13.8	11.2	9.2	7.8	6.8	6.6
47.5°	511.2	369.1	56.4	24.1	16.4	12.0	9.6	7.8	6.5	5.7	5.5
50°	576.2	405.7	44.4	21.4	13.8	10.4	8.1	6.5	5.3	4.5	4.4
52.5°	654.2	460.6	38.1	18.9	11.8	9.1	7.0	5.3	4.4	3.7	3.6
55°	744.0	526.1	35.1	16.5	10.0	7.8	5.7	4.4	3.6	3.1	2.8
57.5°	826.2	585.3	35.0	14.1	8.6	6.6	4.7	3.7	3.1	2.4	2.3
60°	906.4	634.6	32.9	11.7	7.4	5.5	4.0	3.1	2.6	2.1	1.9
62.5°	979.1	674.8	27.5	9.4	6.3	4.5	3.4	2.8	2.3	1.8	1.8
65°	1070.4	726.0	21.1	7.6	5.2	3.7	2.9	2.4	2.1	1.6	1.6
67.5°	*1164.8*	*753.0*	*15.1*	*6.3*	*4.2*	*3.2*	*2.6*	*2.3*	*1.8*	*1.5*	*1.5*
70°	1055.0	636.3	10.9	5.2	3.6	2.8	2.3	2.1	1.8	1.5	1.3
72.5°	824.0	458.8	8.1	4.0	3.1	2.6	2.1	1.9	1.6	1.3	1.3
75°	611.0	267.5	6.2	3.2	2.4	2.1	2.1	1.9	1.6	1.3	1.1
77.5°	332.1	93.3	4.7	2.6	1.9	1.6	1.8	1.8	1.5	1.1	1.0
80°	87.9	25.6	3.2	1.9	1.6	1.3	1.3	1.6	1.3	1.0	1.0
82.5°	25.6	7.4	2.3	1.6	1.3	1.1	1.1	1.1	1.0	0.8	0.6
85°	12.5	2.8	1.6	1.3	1.1	1.0	0.8	0.8	0.6	0.5	0.5
87.5°	5.5	1.1	1.3	1.1	1.1	0.8	0.6	0.5	0.5	0.3	0.2
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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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

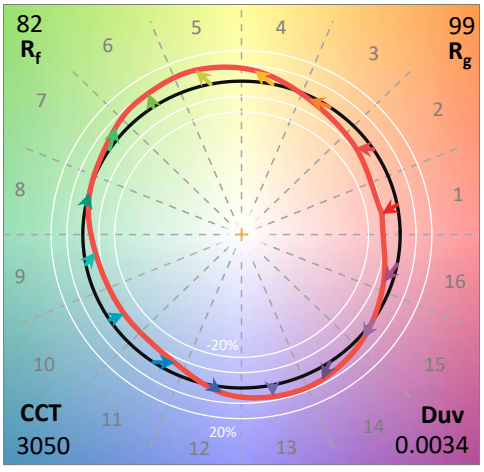
Test Information

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

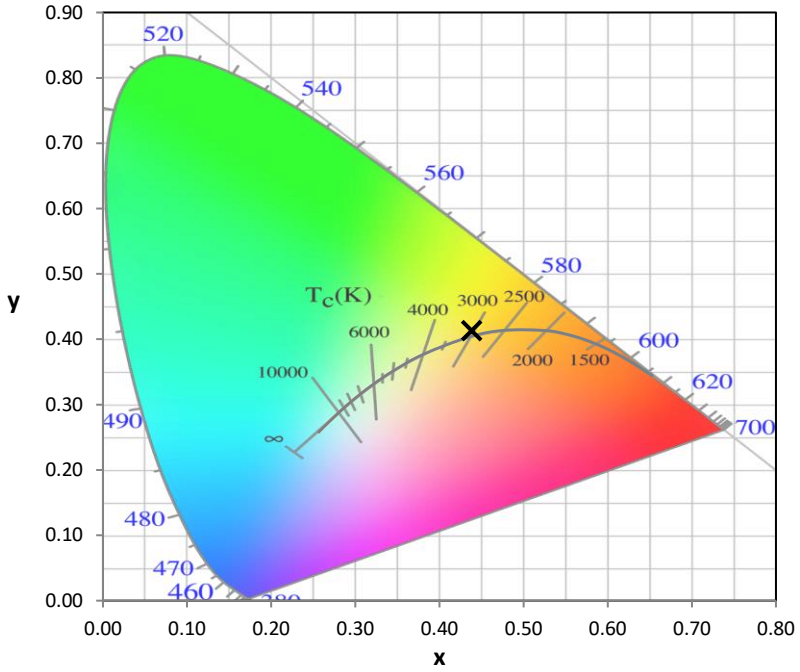
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

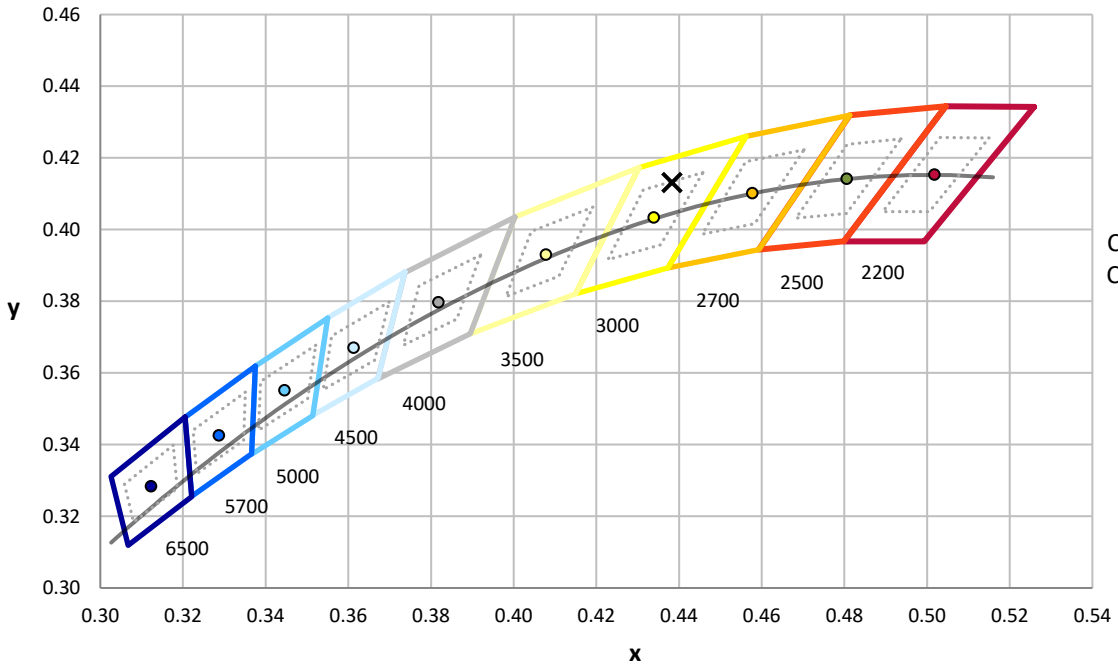
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

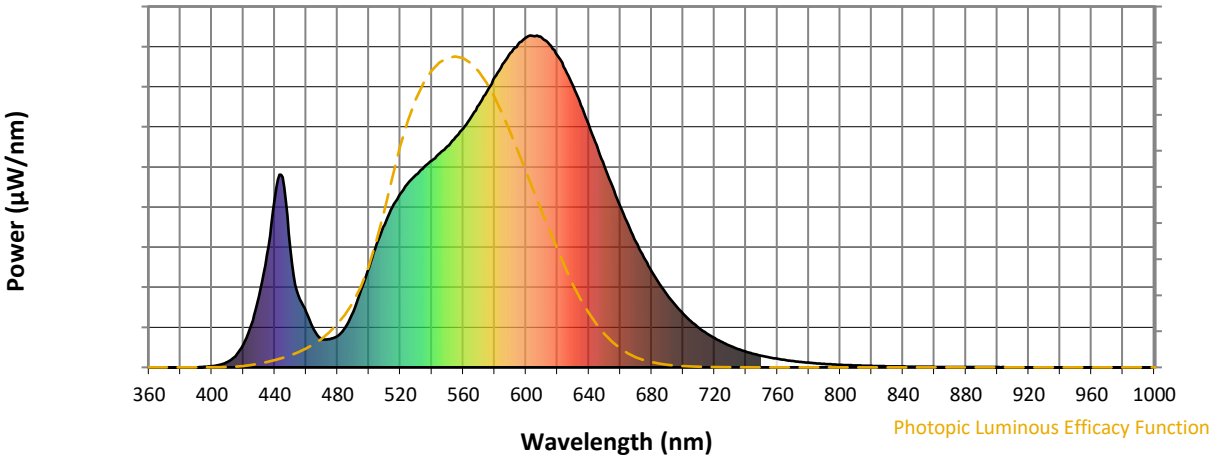


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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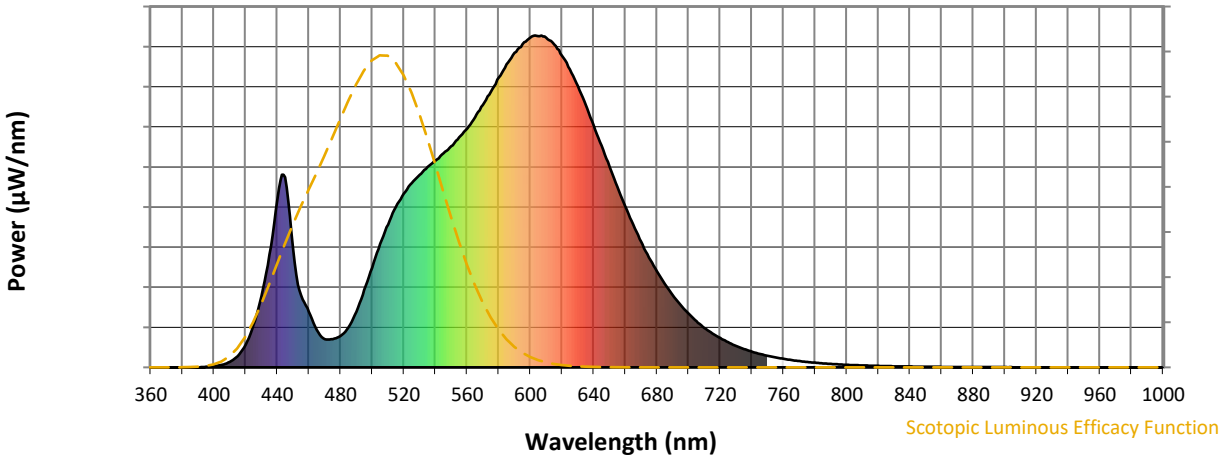
Scotopic Flux vs. Wavelength



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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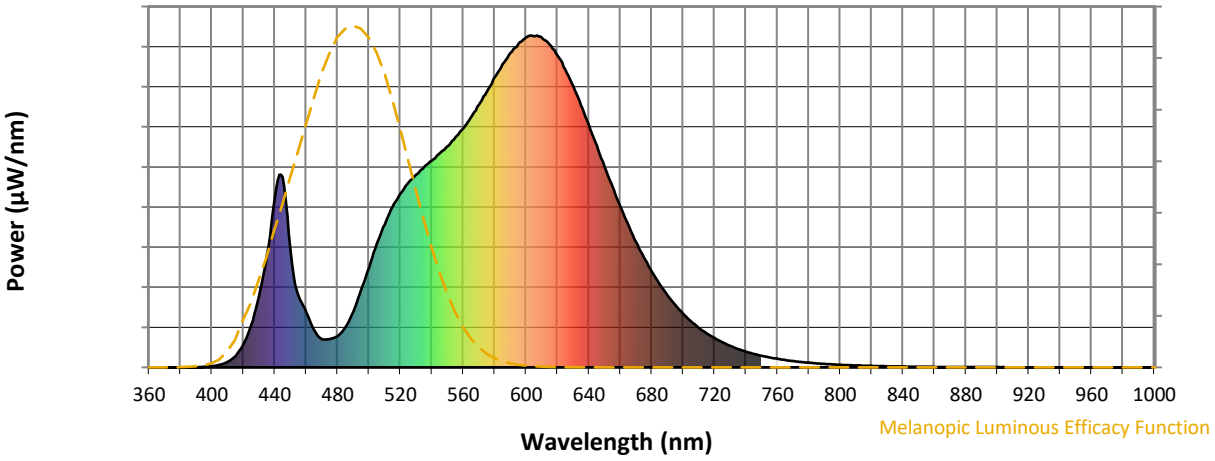
Melanopic Flux vs. Wavelength



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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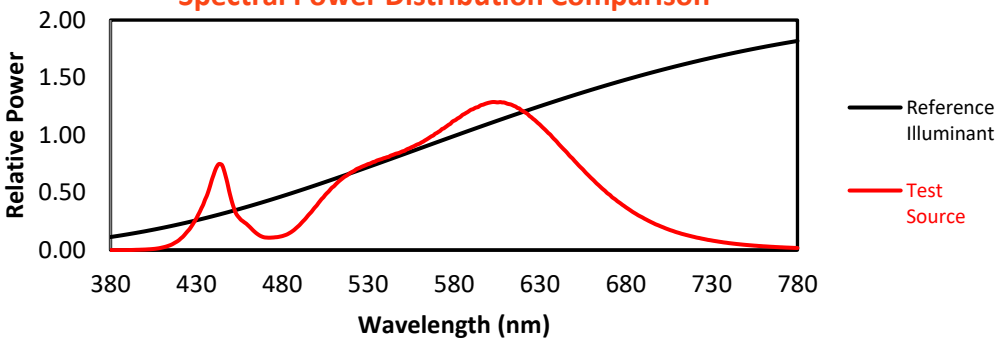
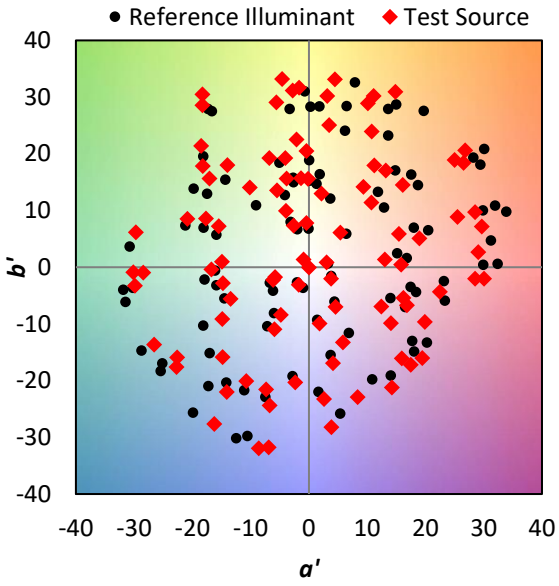
Summary

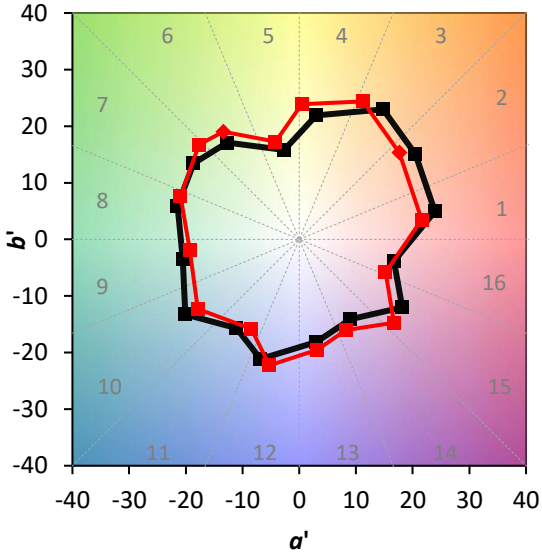
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

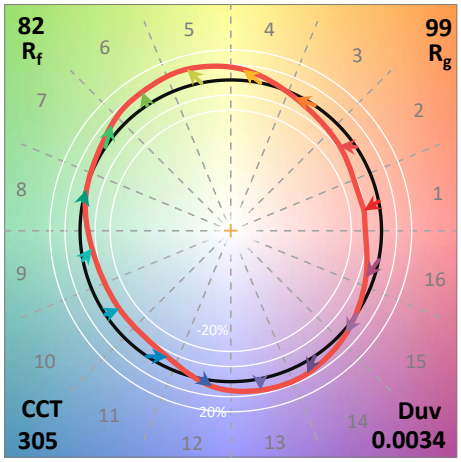
Spectral Power Distribution Comparison

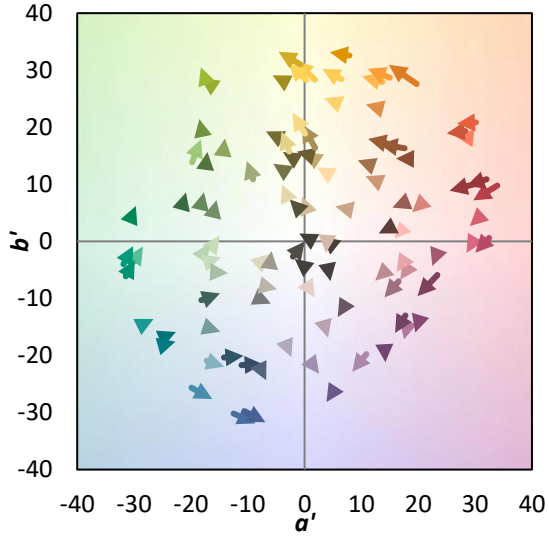


Color Vector Graphics









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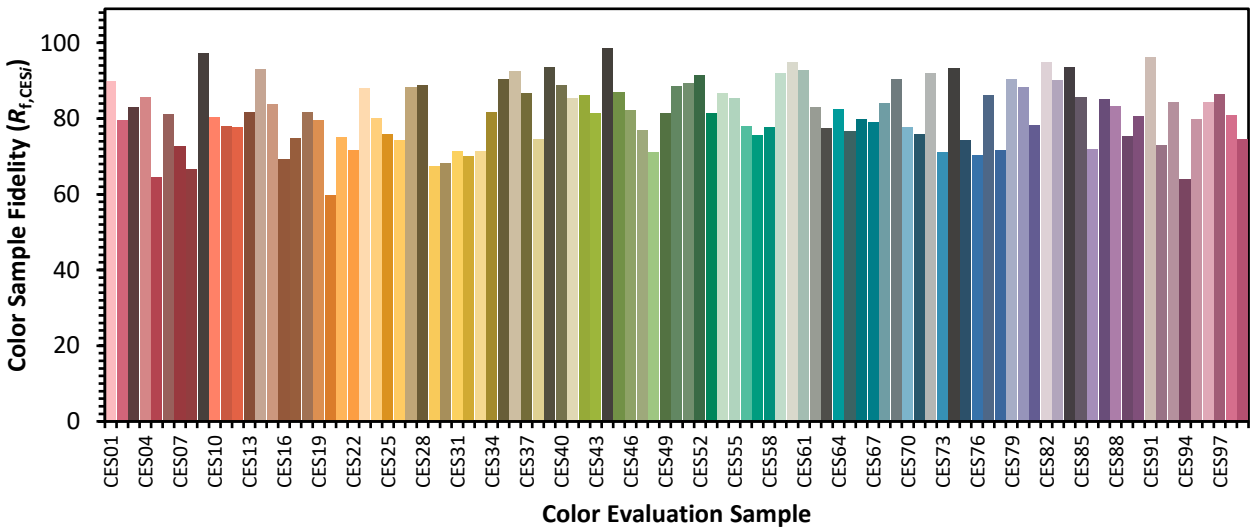
Individual Sample Fidelity Index ($R_{f,i}$)

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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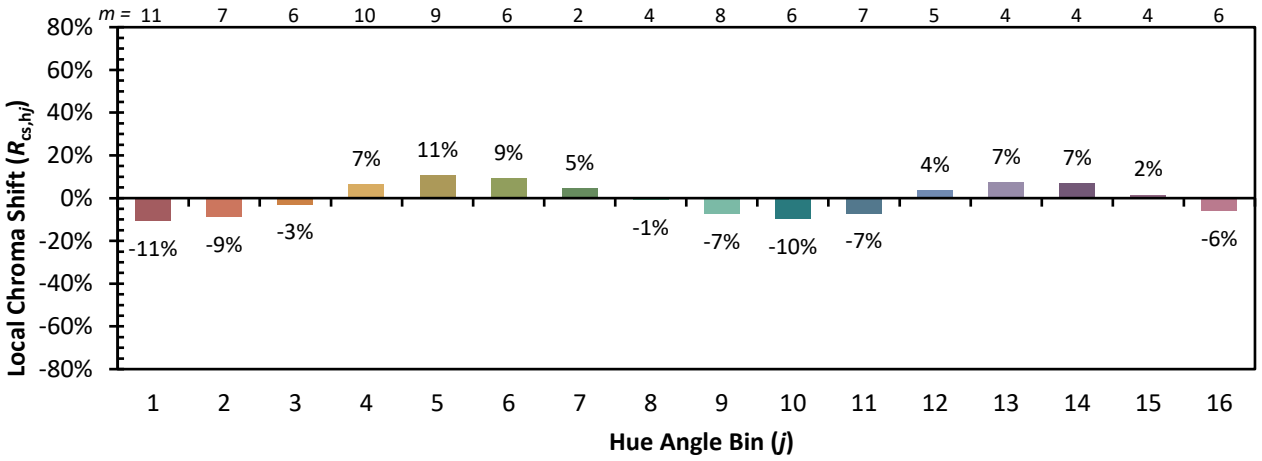
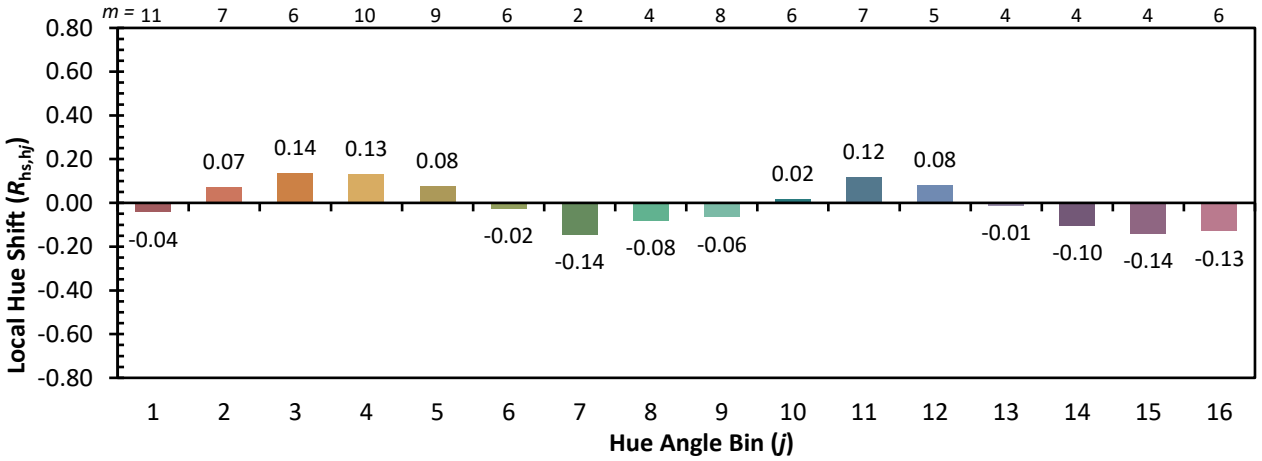
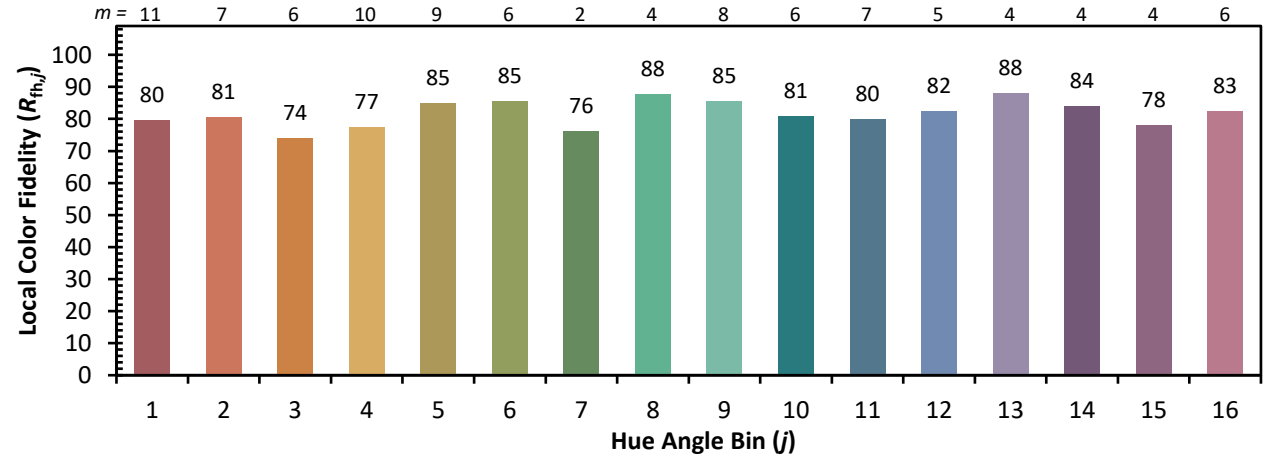
Color Rendition by Hue-Angle Bin







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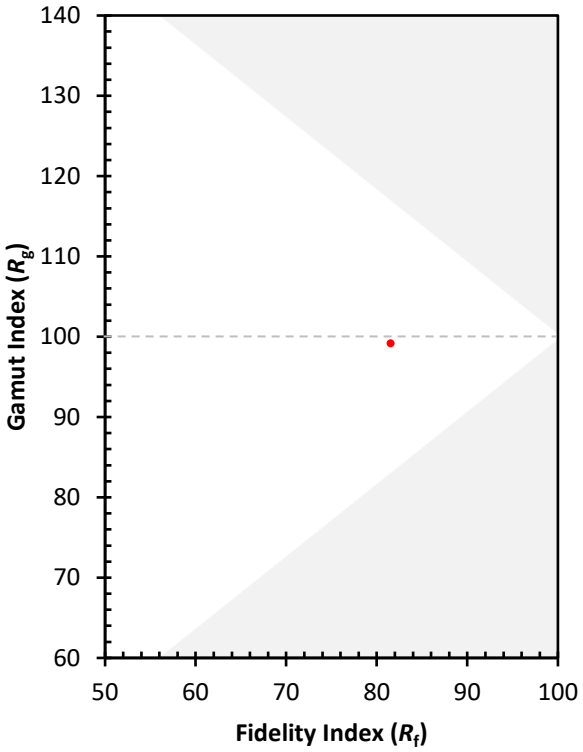
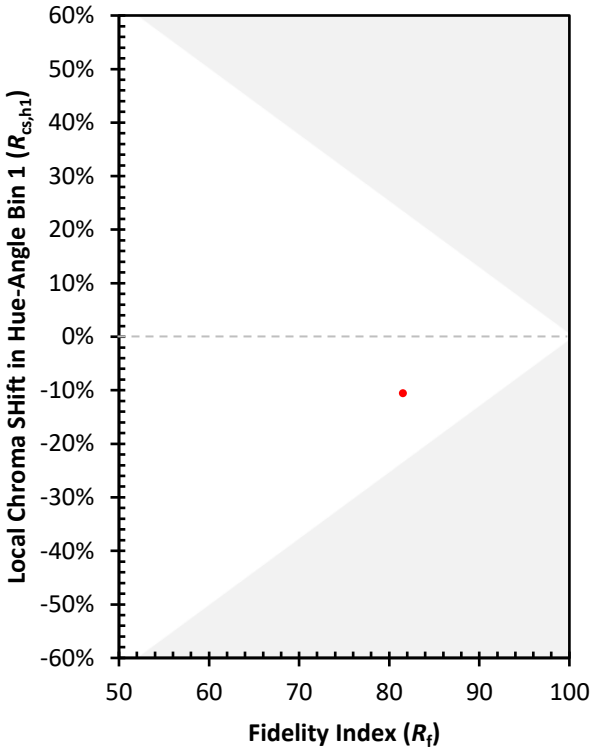
Measure Comparisons





(END OF REPORT)