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: P629067

Luminaire Tested: GWS-SA1A-830-U-SL2-W-GRSWH

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:	P629067
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)
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-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	1924.1 lumens
Efficiency:	N/A
Efficacy:	97.7 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type II - 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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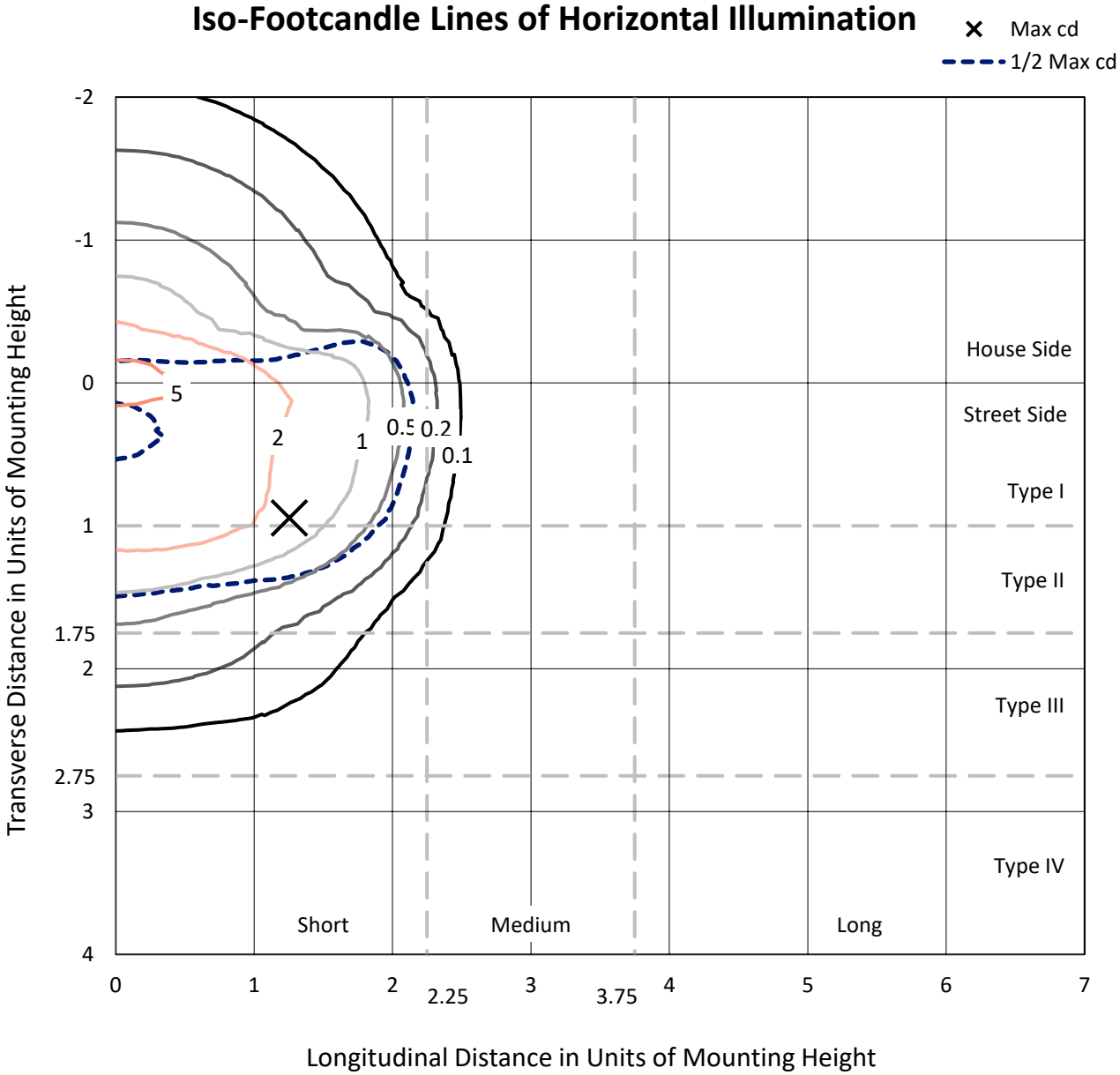
REPORT NUMBER: P629067
CATALOG NUMBER: GWS-SA1A-830-U-SL2-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 6.1 fc
Type II - Short - N/A

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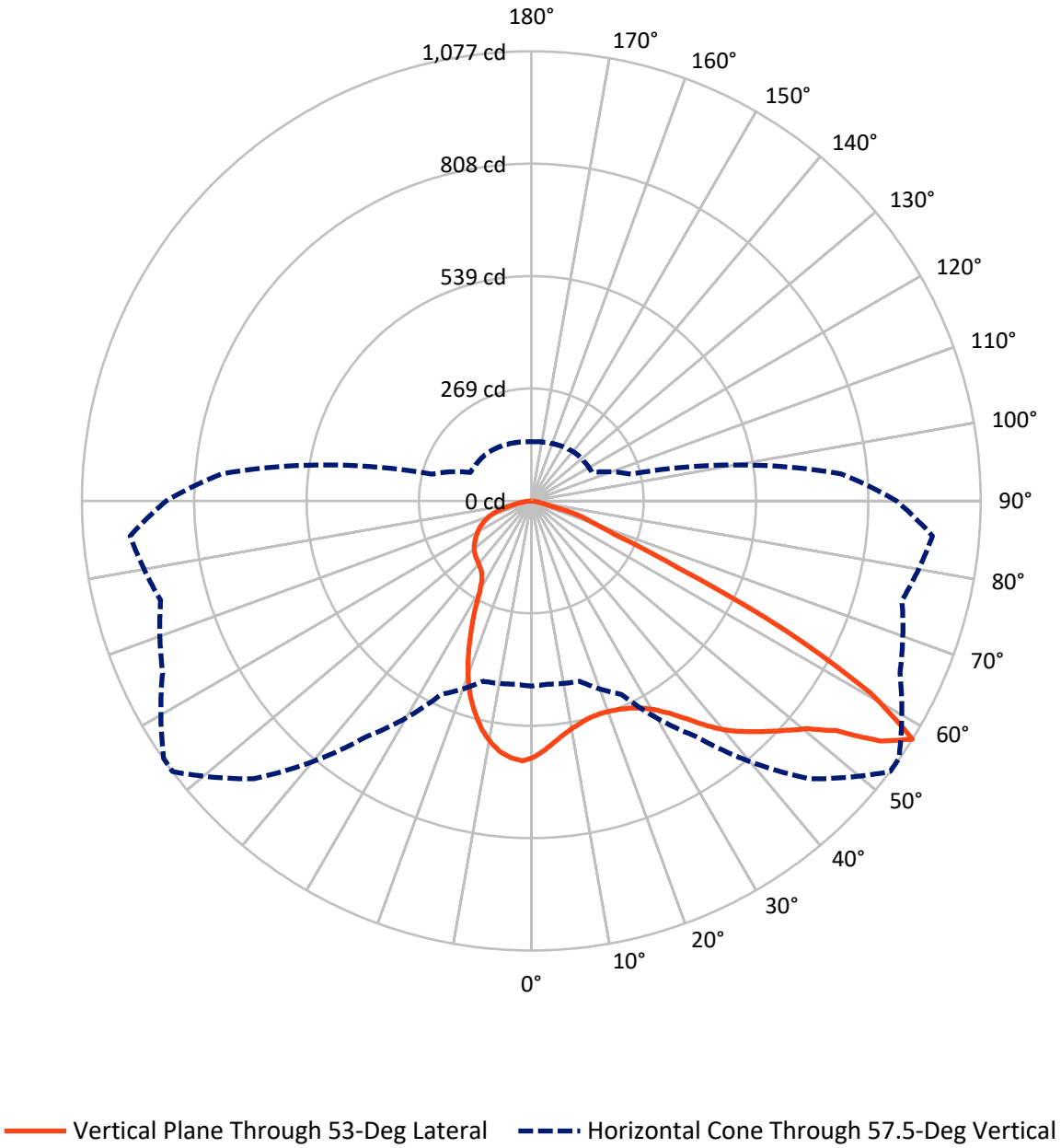
Luminous Intensity Polar Plot



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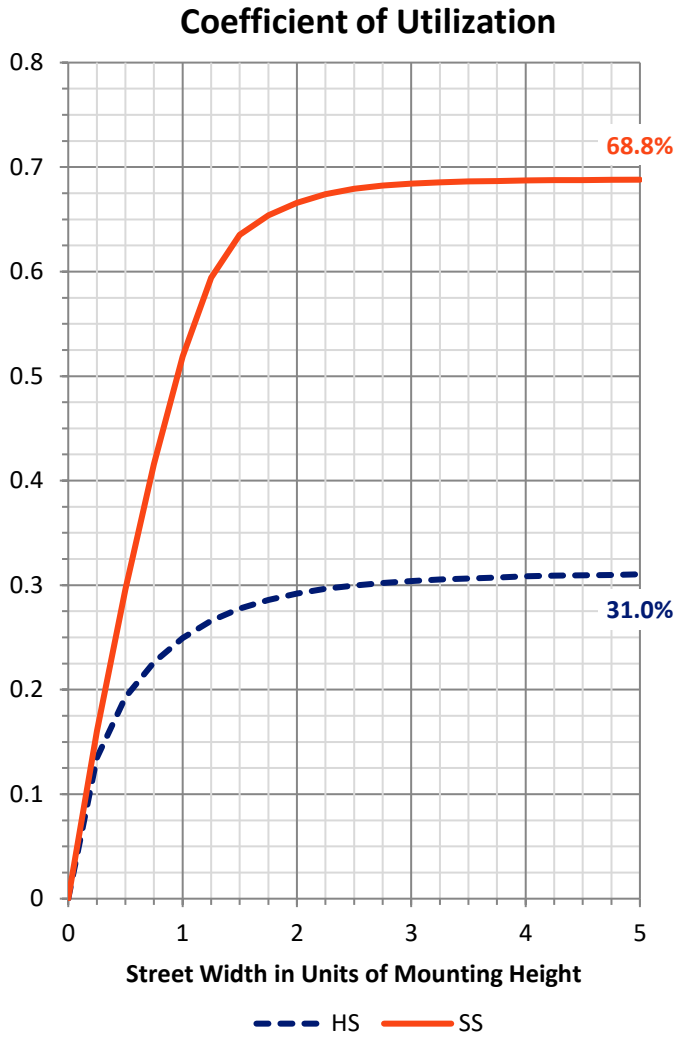
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	601.6	0.0	601.6
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	1322.5	0.0	1322.5
	% Fixture	68.7	0.0	68.7
Total	Lumens	1924.1	0.0	1924.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.6	2.9
10°-20°	145.8	7.6
20°-30°	214.8	11.2
30°-40°	300.6	15.6
40°-50°	395.2	20.5
50°-60°	463.4	24.1
60°-70°	273.0	14.2
70°-80°	67.9	3.5
80°-90°	8.0	0.4
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°	1924.1	100.0
0°-180°	1924.1	100.0



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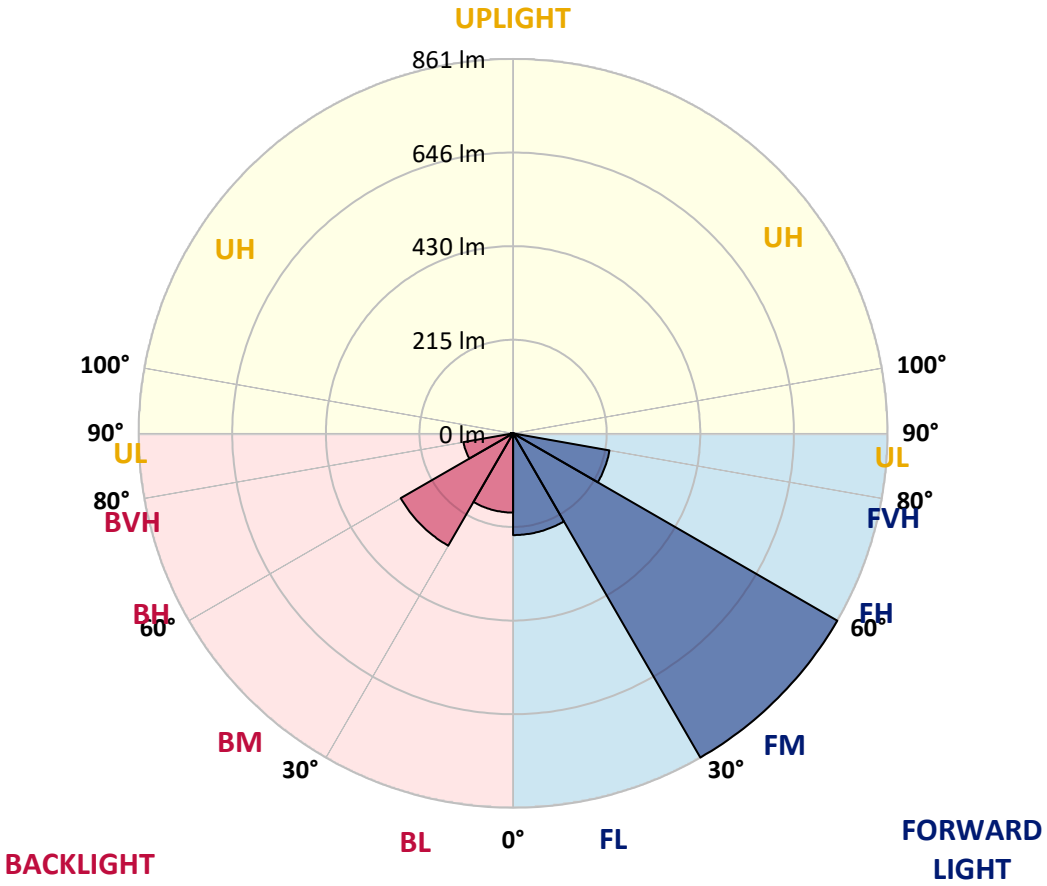
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	233.9	12.2			
FM	(30°-60°)	860.9	44.7			
FH	(60°-80°)	225.0	11.7			G0/660
FVH	(80°-90°)	2.7	0.1			G0/10
BL	(0°-30°)	182.2	9.5	B1/500		
BM	(30°-60°)	298.3	15.5	B1/1000		
BH	(60°-80°)	115.8	6.0	B1/500		G1/500
BVH	(80°-90°)	5.3	0.3			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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REPORT NUMBER: P629067
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	614.4	614.4	614.4	614.4	614.4	614.4	*614.4*	614.4	614.4	614.4	614.4
2.5°	579.1	580.7	581.1	586.1	586.4	593.7	*598.5*	597.6	602.6	608.7	613.6
5°	551.4	551.6	553.2	559.2	562.4	572.0	*580.1*	580.1	589.8	602.4	613.3
7.5°	528.6	528.4	529.9	536.5	541.9	553.4	*564.4*	565.7	579.3	597.7	615.4
10°	507.4	508.5	510.1	518.2	525.0	539.3	*552.4*	554.5	571.7	594.5	618.3
12.5°	493.8	493.9	496.4	505.4	514.2	529.4	*543.2*	545.8	565.5	591.4	620.4
15°	485.0	485.2	487.8	497.8	508.0	523.4	*537.5*	540.4	561.9	590.9	624.5
17.5°	481.1	481.0	483.4	493.4	504.6	520.7	*535.7*	539.3	563.6	594.7	631.6
20°	481.1	481.3	482.6	491.7	503.0	520.0	*537.5*	541.9	569.9	603.1	642.6
22.5°	487.9	488.6	489.2	495.4	504.3	521.0	*542.2*	548.0	583.5	617.2	657.0
25°	501.2	501.4	502.0	507.0	511.1	523.7	*550.0*	558.7	604.7	637.7	675.1
27.5°	519.0	521.3	521.9	525.2	525.2	530.5	*562.1*	574.7	633.4	667.4	698.3
30°	544.0	544.8	545.9	549.5	545.6	543.3	*579.9*	596.1	666.6	703.2	726.2
32.5°	565.8	567.6	573.8	579.6	572.6	565.5	*606.2*	625.3	698.5	740.4	755.8
35°	584.5	588.8	600.7	613.6	608.7	601.6	*641.0*	660.9	724.7	767.1	782.0
37.5°	607.0	610.4	626.6	647.6	652.0	648.6	*683.4*	697.7	742.2	773.9	796.3
40°	629.8	635.0	655.9	685.0	701.7	704.1	*722.6*	732.2	748.2	760.7	793.5
42.5°	653.1	662.0	690.7	724.7	754.3	759.8	*755.6*	759.7	746.2	742.4	780.7
45°	681.6	692.2	724.5	767.9	807.0	815.6	*788.0*	784.3	745.9	735.4	772.8
47.5°	715.3	725.8	756.8	807.3	857.2	863.5	*821.2*	814.4	757.3	746.1	783.5
50°	745.1	752.4	780.1	836.6	904.0	907.7	*857.8*	849.6	785.4	775.7	816.8
52.5°	714.8	714.0	743.2	812.8	928.3	973.1	*914.2*	906.2	839.8	824.9	868.5
55°	606.5	597.3	623.3	691.8	860.4	1031.3	*1015.2*	999.4	912.4	874.5	916.9
57.5°	*443.4*	*440.8*	*447.1*	*511.4*	*689.2*	*941.2*	*1077.1*	*1075.6*	*975.1*	*919.8*	*965.2*
60°	346.7	342.8	326.0	327.8	469.8	735.2	*934.7*	977.7	1013.9	947.1	998.9
62.5°	307.9	304.9	296.2	272.1	279.8	493.0	*685.2*	724.5	886.0	836.4	858.0
65°	254.9	254.1	261.4	260.4	234.5	272.2	*386.7*	426.4	557.1	564.1	557.1
67.5°	185.3	183.8	202.3	238.7	225.8	205.5	*215.5*	229.3	285.7	256.5	230.9
70°	120.5	118.4	129.1	172.5	202.1	179.1	*155.3*	153.0	157.1	97.7	105.6
72.5°	80.8	78.4	78.2	94.9	122.1	120.6	*120.3*	119.2	106.4	77.1	85.5
75°	45.0	43.1	42.6	41.0	43.7	44.5	*47.4*	49.1	53.1	58.5	64.8
77.5°	7.6	7.4	9.4	12.0	16.5	21.2	*26.2*	27.7	34.2	40.5	44.5
80°	4.2	4.4	5.7	7.0	9.2	12.6	*16.2*	17.2	21.1	24.5	27.7
82.5°	2.3	2.3	2.9	3.7	5.0	6.6	*8.7*	9.6	12.1	14.3	16.5
85°	0.8	0.8	1.1	1.5	2.1	2.8	*3.4*	3.9	5.3	7.3	8.3
87.5°	0.0	0.0	0.0	0.0	0.2	0.3	*0.6*	0.6	0.8	1.5	2.1
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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Scaled Data Report

REPORT NUMBER: P629067
CATALOG NUMBER: GWS-SA1A-830-U-SL2-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	614.4	614.4	614.4	614.4	614.4	614.4	614.4	614.4	614.4	614.4	614.4
2.5°	617.7	613.3	619.3	622.0	623.0	623.6	619.4	616.5	615.6	612.5	610.7
5°	619.9	617.0	622.7	622.7	618.6	614.4	605.8	599.8	595.6	590.6	589.8
7.5°	623.8	621.7	624.8	618.5	608.3	596.9	582.0	570.4	561.0	554.8	555.0
10°	629.0	626.4	624.0	609.9	591.3	570.4	547.5	530.5	515.0	507.9	504.0
12.5°	632.4	628.7	618.5	595.1	567.8	539.8	507.5	482.3	459.8	449.6	448.7
15°	636.6	629.8	609.4	576.0	538.0	499.8	458.3	423.2	392.7	376.8	376.0
17.5°	642.1	630.9	598.5	554.2	506.6	450.2	398.1	353.8	321.5	309.2	311.3
20°	649.9	632.2	586.2	529.9	467.5	393.8	328.9	288.3	275.8	275.0	273.4
22.5°	658.6	633.0	572.6	502.7	420.2	333.8	271.7	254.4	254.3	258.3	259.3
25°	668.5	633.7	557.3	470.9	369.1	273.8	240.3	235.1	239.2	246.8	247.8
27.5°	681.1	635.0	538.6	436.1	314.7	236.6	223.0	221.7	226.6	233.7	233.4
30°	699.8	639.7	518.9	396.1	258.8	218.9	212.5	212.6	214.6	218.0	218.5
32.5°	718.7	647.0	499.6	351.1	226.7	208.9	206.0	205.7	205.7	207.1	207.5
35°	736.7	655.2	478.7	304.1	211.2	203.1	201.1	200.2	199.7	199.4	198.9
37.5°	746.7	659.3	458.3	257.8	202.9	199.2	197.2	196.0	194.2	192.9	192.6
40°	742.4	654.6	434.7	223.2	197.9	195.5	193.2	191.4	189.0	187.9	187.2
42.5°	727.8	640.0	408.9	206.8	193.8	191.4	188.7	185.8	184.1	183.2	183.0
45°	712.4	622.4	377.8	197.2	190.0	187.0	183.8	180.6	178.8	178.3	178.1
47.5°	711.9	613.6	344.8	189.6	185.3	182.3	178.3	175.1	173.1	172.5	171.8
50°	733.3	622.5	307.5	183.0	180.4	177.3	172.8	169.2	166.8	166.0	165.8
52.5°	777.7	656.0	274.2	176.4	173.9	170.4	166.6	163.1	160.2	158.7	158.5
55°	825.6	698.6	253.4	169.6	166.3	163.2	159.8	156.0	152.7	150.4	150.1
57.5°	*875.1*	*745.1*	*247.1*	*161.0*	*158.5*	*156.4*	*152.4*	*148.2*	*144.5*	*142.3*	*141.9*
60°	916.0	785.1	258.9	151.9	150.6	147.9	144.1	140.1	137.5	135.9	135.5
62.5°	766.8	639.2	209.1	142.0	142.0	139.1	134.9	132.0	130.2	129.1	128.7
65°	486.6	395.8	142.7	132.1	132.0	128.1	124.5	122.6	121.8	120.0	119.7
67.5°	212.0	180.9	121.9	122.1	121.5	117.2	113.7	112.2	110.6	108.7	108.5
70°	110.0	112.1	109.2	110.9	109.8	104.8	101.4	99.1	95.7	93.8	93.9
72.5°	88.7	91.0	94.3	97.0	94.6	90.5	85.2	82.4	78.1	76.0	76.1
75°	67.7	70.1	73.2	76.1	74.2	69.2	65.7	63.0	58.0	55.5	56.0
77.5°	46.6	47.9	51.7	51.5	50.9	49.4	44.4	41.1	36.0	33.0	33.4
80°	29.0	29.8	31.6	32.4	32.1	30.1	26.1	23.6	20.6	18.8	18.9
82.5°	17.5	18.0	19.6	19.8	19.6	18.1	15.1	13.3	11.3	10.4	10.4
85°	8.9	9.2	10.2	10.2	9.2	7.8	7.0	6.2	5.0	4.5	4.5
87.5°	2.4	2.4	3.1	2.6	2.1	1.9	1.0	0.8	0.3	0.2	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

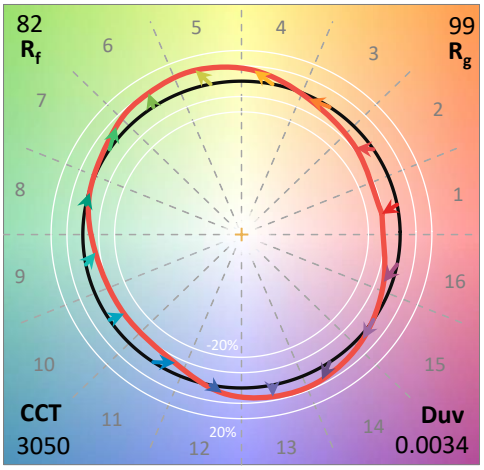
Test Information

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

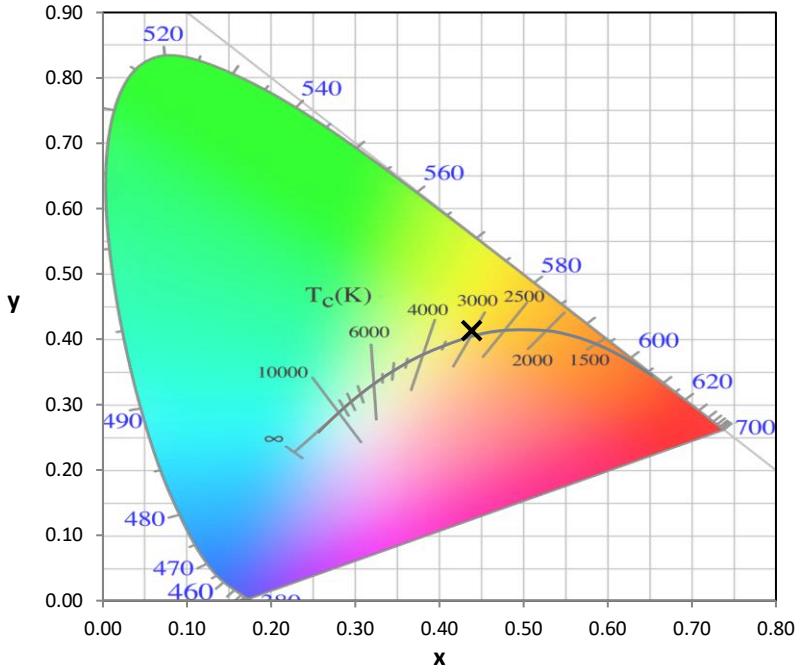
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

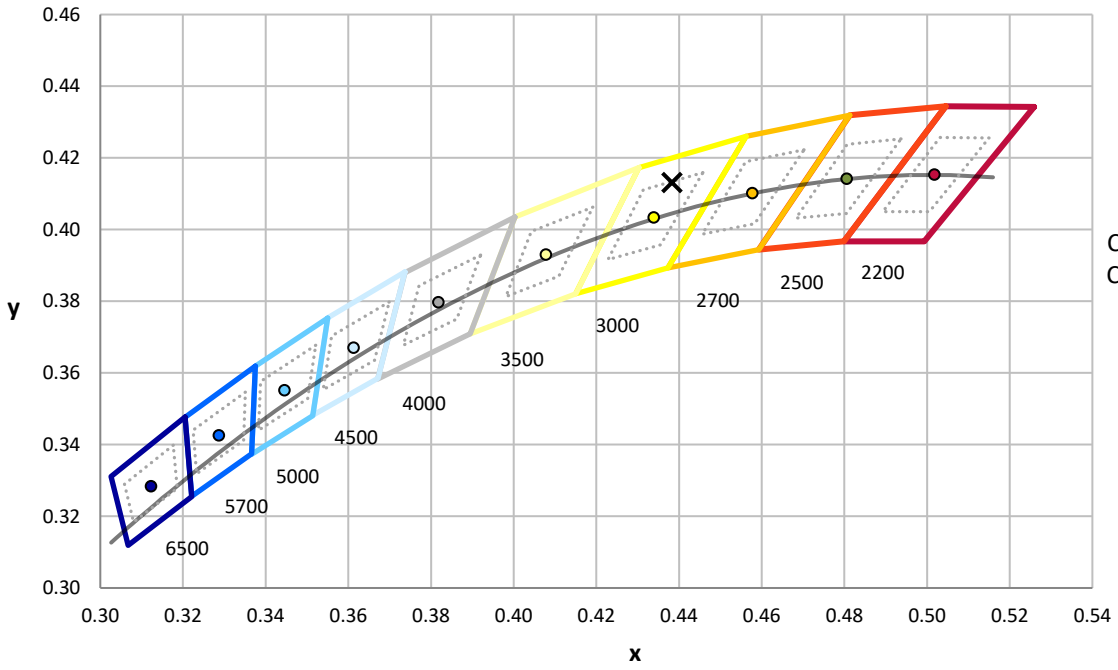
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

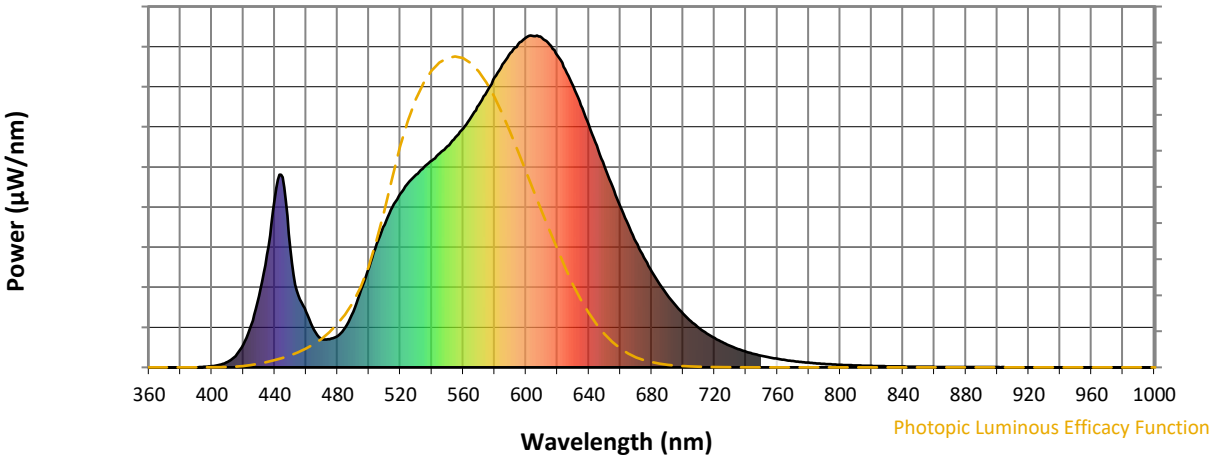


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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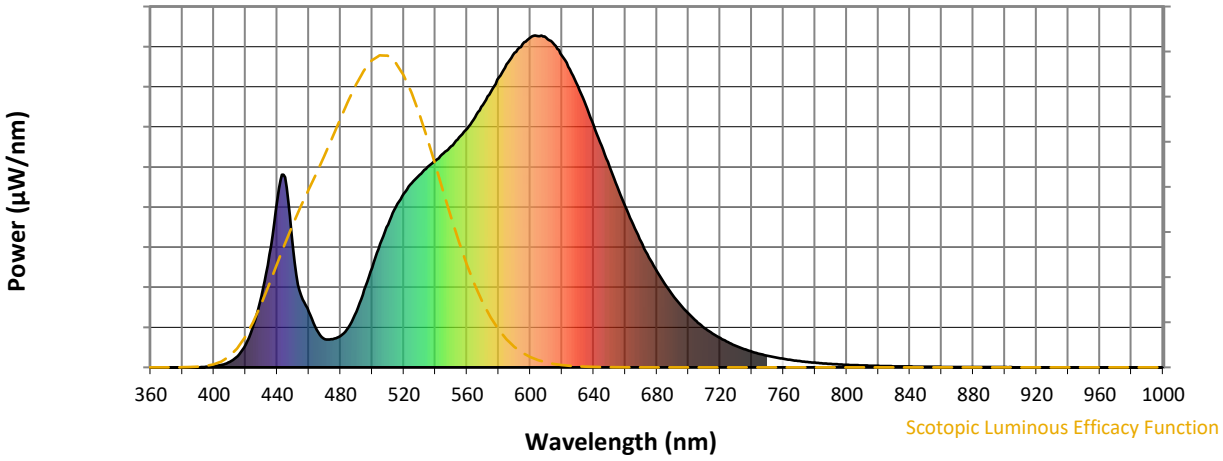
Scotopic Flux vs. Wavelength



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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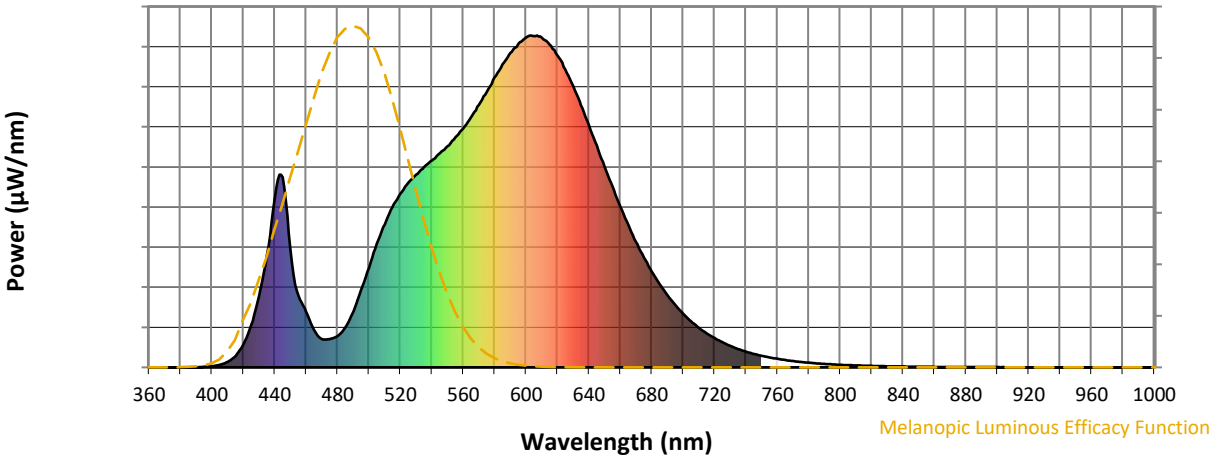
Melanopic Flux vs. Wavelength



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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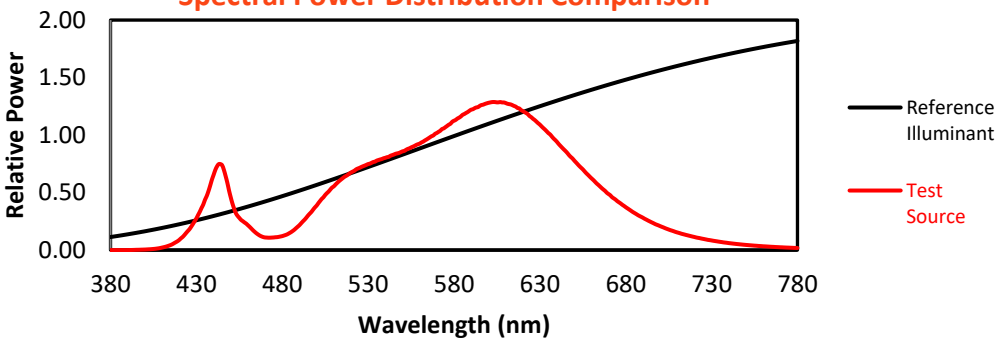
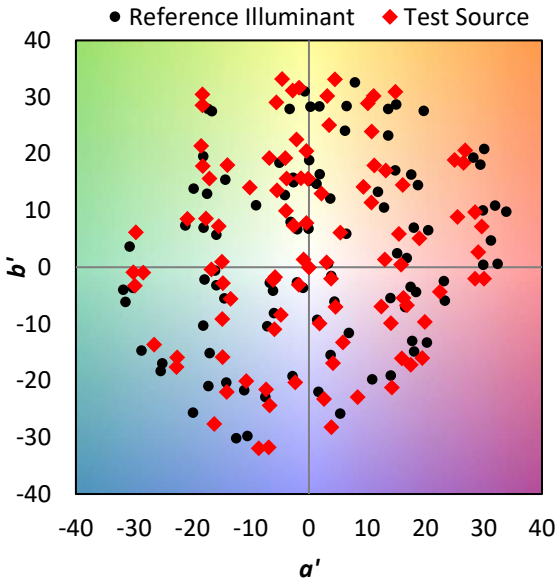
Summary

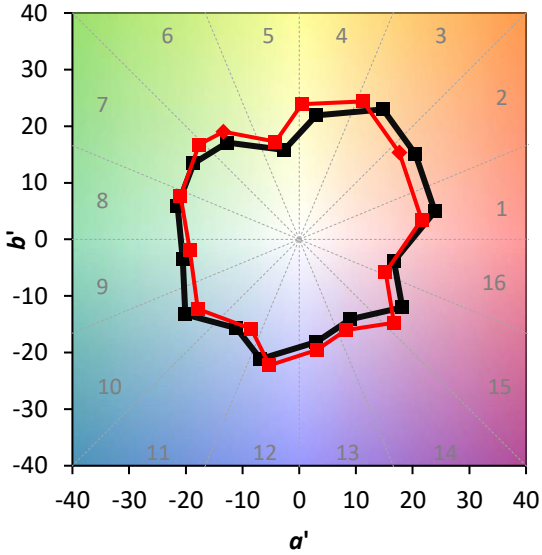
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

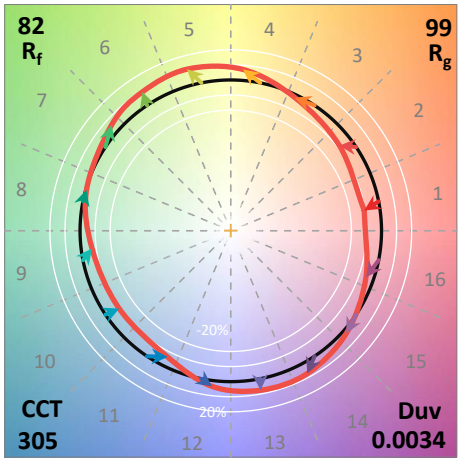
Spectral Power Distribution Comparison

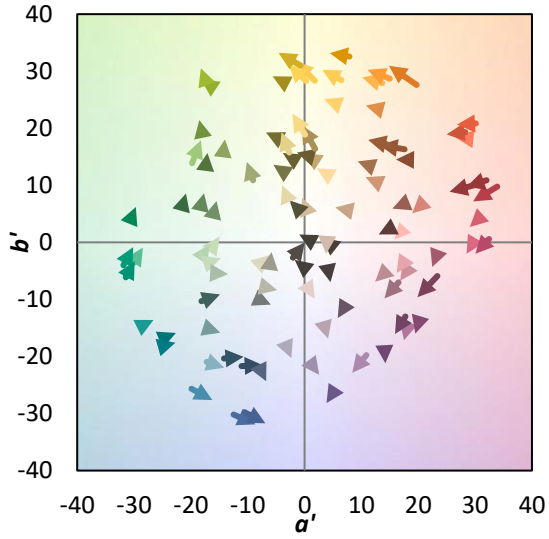


Color Vector Graphics









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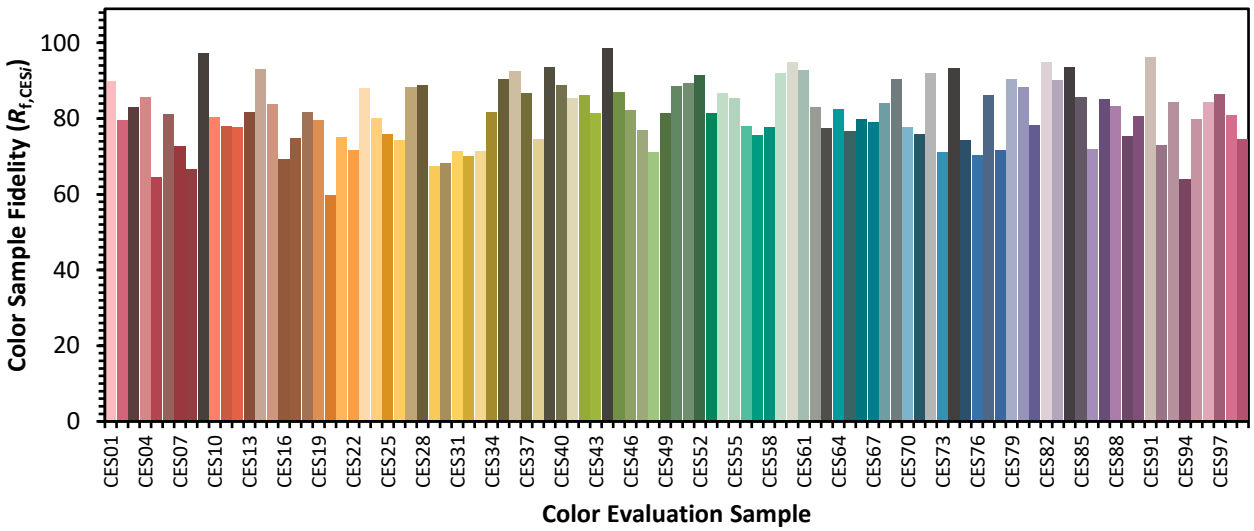
Individual Sample Fidelity Index ($R_{f,i}$)

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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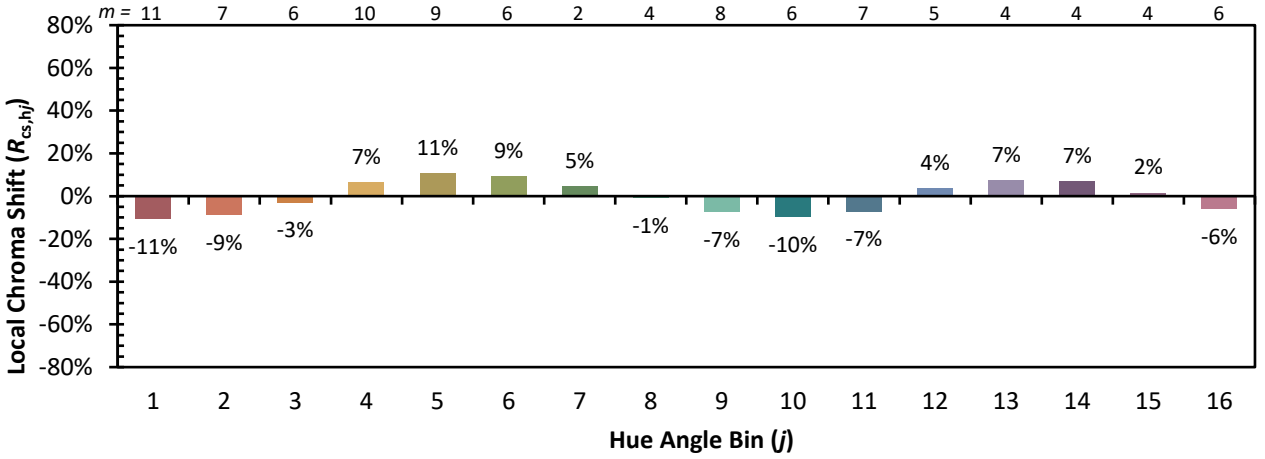
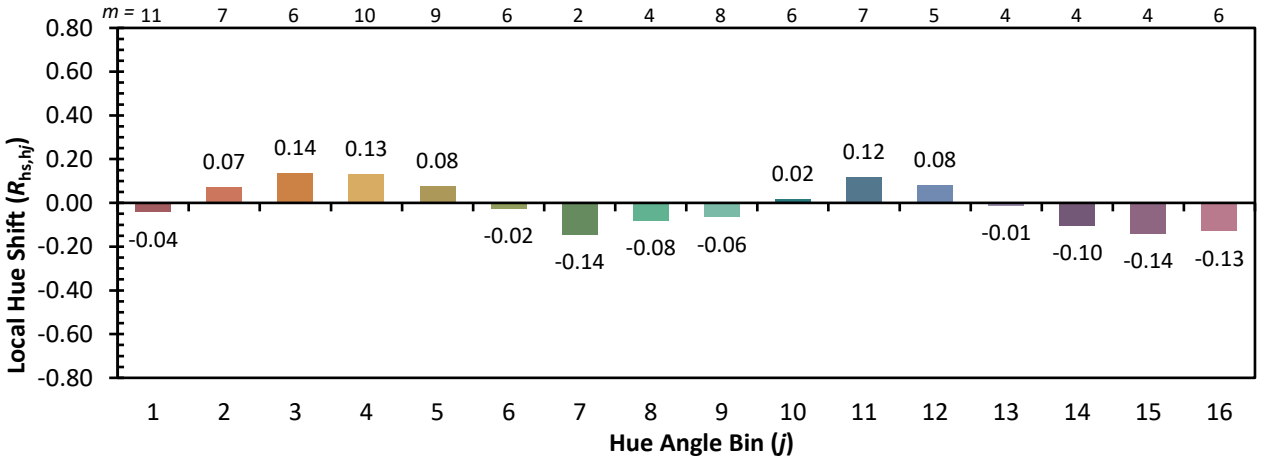
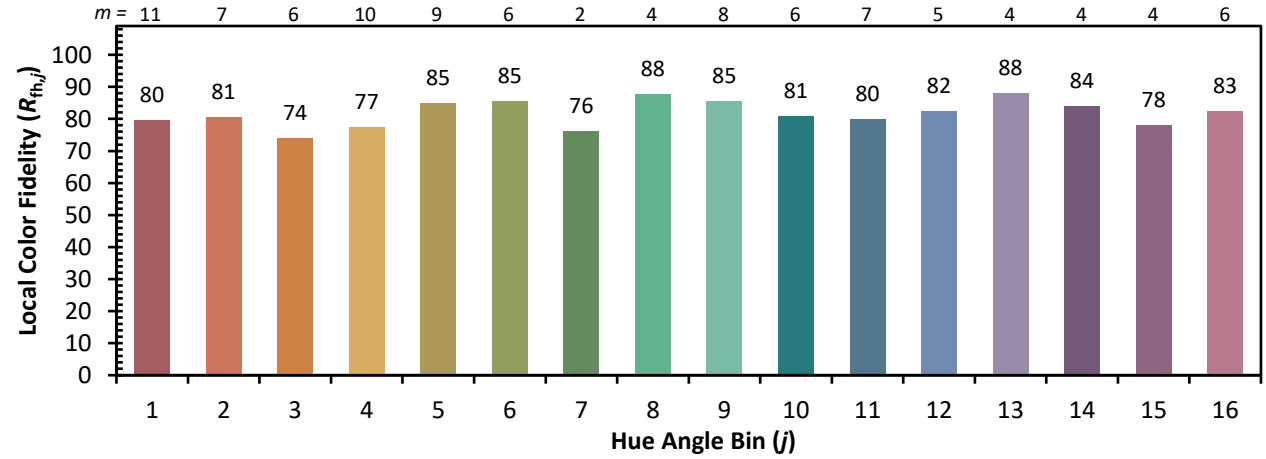
Color Rendition by Hue-Angle Bin







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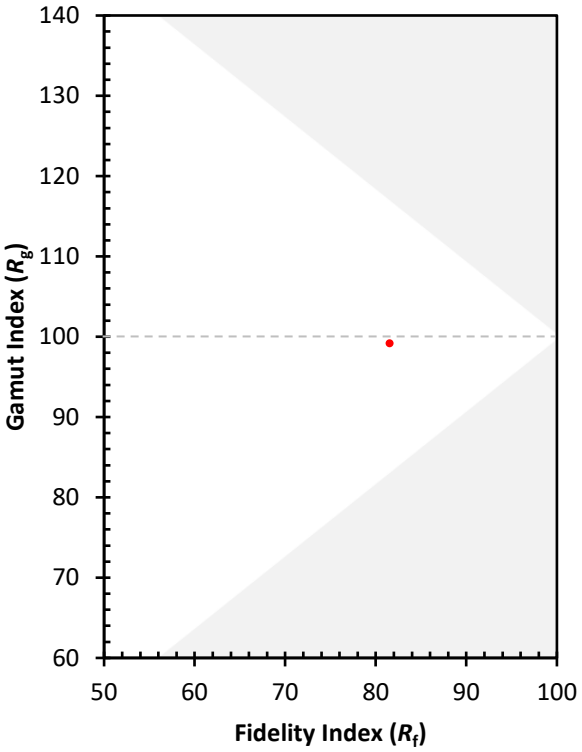
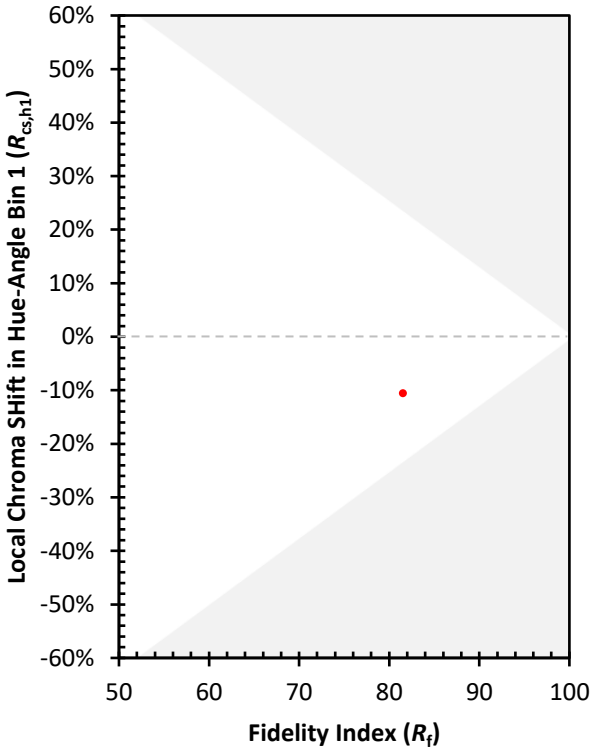
Measure Comparisons





(END OF REPORT)