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: P629071

Luminaire Tested: GWS-SA1A-830-U-SL3-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:	P629071
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1A-830-U-SL3-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III 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:	1891.8 lumens
Efficiency:	N/A
Efficacy:	96.0 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G0

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: P629071
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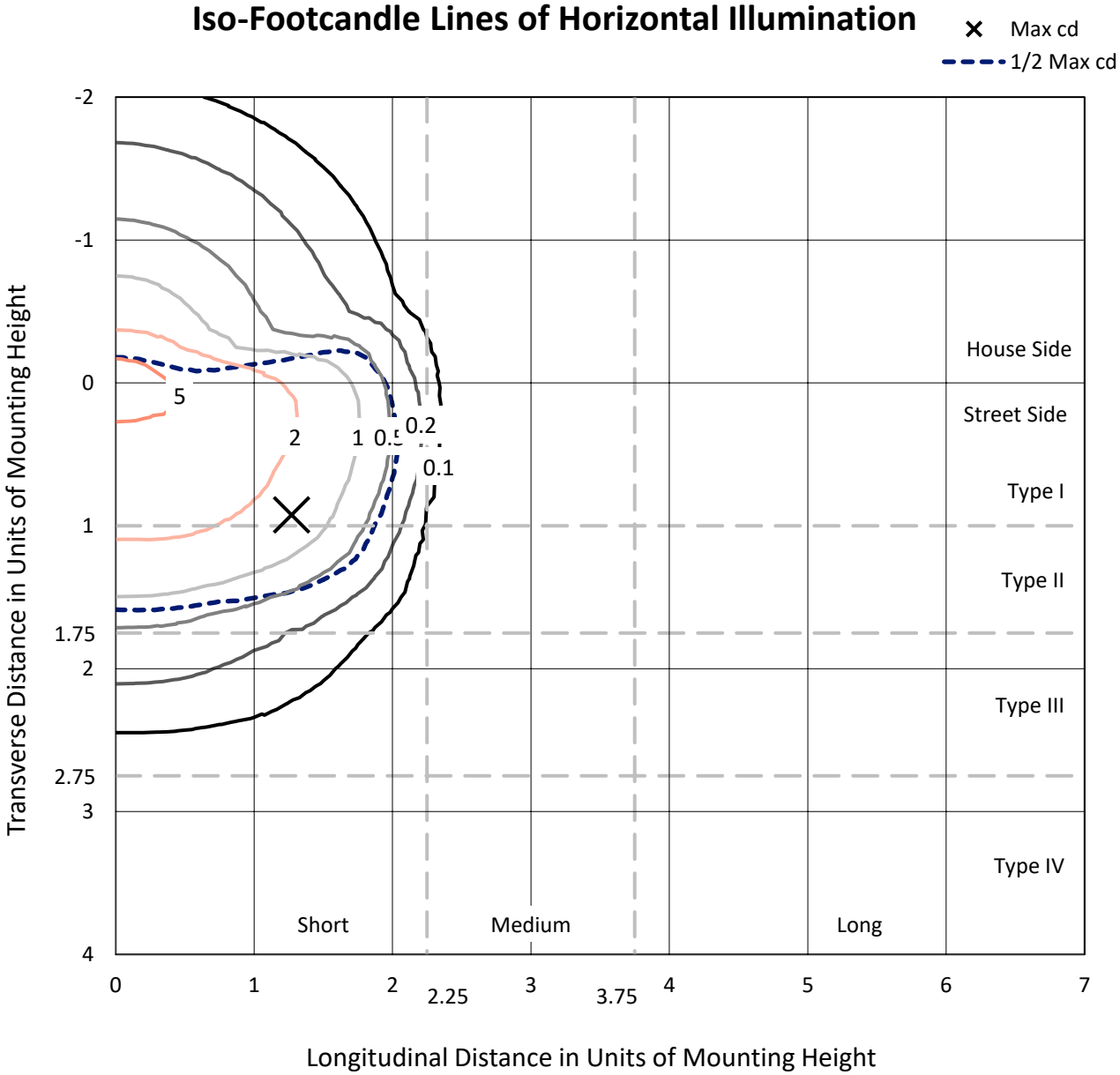
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 7.3 fc
Type II - Short - N/A

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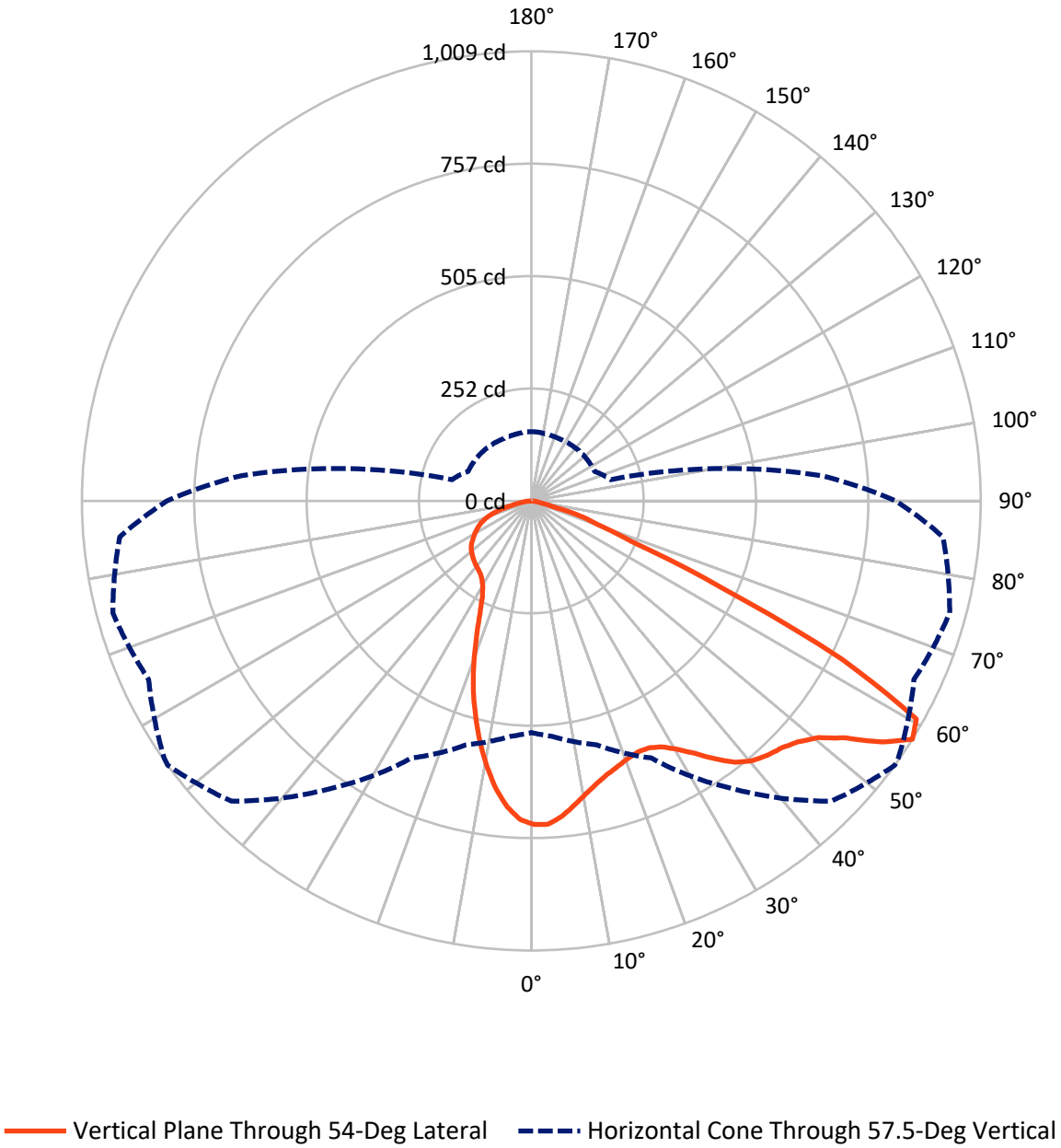
Luminous Intensity Polar Plot



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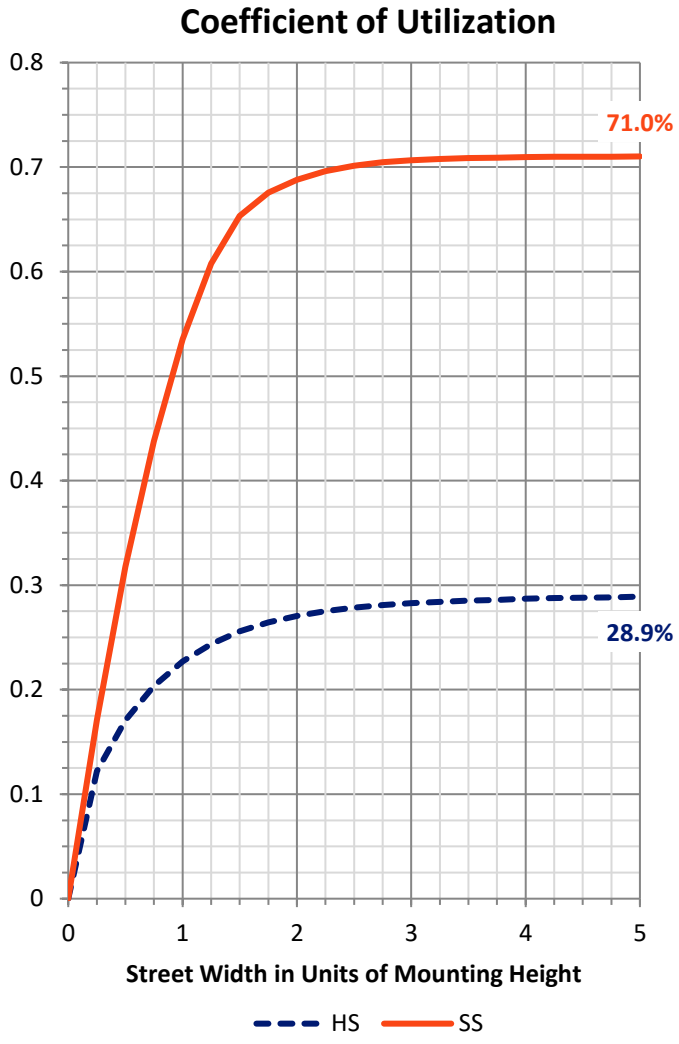
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	550.0	0.0	550.0
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	1341.8	0.0	1341.8
	% Fixture	70.9	0.0	70.9
Total	Lumens	1891.8	0.0	1891.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.8	3.4
10°-20°	152.3	8.1
20°-30°	210.8	11.1
30°-40°	292.9	15.5
40°-50°	386.9	20.4
50°-60°	459.7	24.3
60°-70°	254.7	13.5
70°-80°	63.4	3.4
80°-90°	7.2	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°	1891.8	100.0
0°-180°	1891.8	100.0



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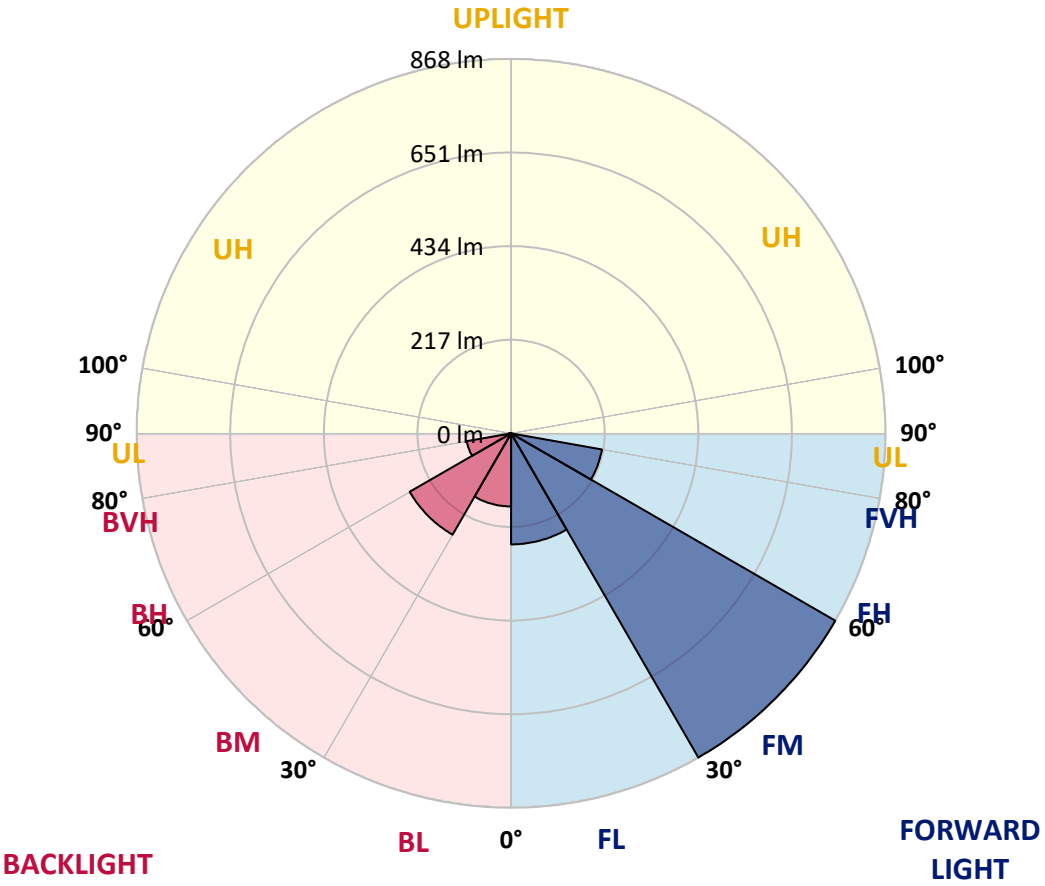
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	257.5	13.6			
FM	(30°-60°)	868.2	45.9			
FH	(60°-80°)	213.9	11.3			G0/660
FVH	(80°-90°)	2.3	0.1			G0/10
BL	(0°-30°)	169.5	9.0	B1/500		
BM	(30°-60°)	271.3	14.3	B1/1000		
BH	(60°-80°)	104.2	5.5	B0/110		G0/110
BVH	(80°-90°)	5.0	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-G0
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	726.3	726.3	726.3	726.3	726.3	726.3	726.3	726.3	726.3	726.3	726.3
2.5°	712.7	714.2	715.1	718.5	721.4	724.0	726.8	726.8	726.6	726.1	725.2
5°	684.5	686.1	688.4	693.1	699.4	704.0	711.4	712.1	715.3	716.6	715.9
7.5°	651.8	652.3	655.2	661.4	671.4	679.5	690.2	691.5	699.3	703.8	703.0
10°	616.0	614.4	619.6	628.7	641.8	655.4	669.1	670.3	682.7	691.3	690.7
12.5°	583.3	583.5	588.7	599.7	616.0	632.9	651.3	653.9	669.3	680.3	679.2
15°	555.9	556.6	562.9	575.4	594.0	614.1	637.1	639.5	658.9	673.5	670.3
17.5°	534.1	534.7	540.2	554.5	574.4	598.7	626.7	629.1	653.3	670.6	664.0
20°	519.0	518.7	524.0	537.6	558.2	584.6	617.6	621.2	651.5	671.7	659.7
22.5°	512.9	512.7	516.6	527.8	547.0	573.8	612.1	617.0	653.4	676.8	657.2
25°	515.9	515.3	518.7	527.0	542.3	569.5	613.8	618.9	661.7	687.1	657.6
27.5°	525.5	524.7	527.6	535.1	546.7	573.9	625.1	631.1	679.2	706.1	664.1
30°	540.1	539.6	542.5	549.6	559.8	588.5	646.8	653.6	706.2	735.5	678.2
32.5°	557.1	556.3	561.4	569.7	581.5	615.1	675.9	684.8	738.3	773.4	701.9
35°	576.2	575.5	582.7	594.6	611.7	652.0	711.2	721.0	771.0	816.3	733.3
37.5°	594.8	594.8	608.6	626.4	647.8	692.1	744.4	750.6	793.7	854.4	767.0
40°	611.3	612.3	633.0	659.7	687.0	728.4	766.3	771.5	803.7	880.6	796.3
42.5°	629.6	630.4	654.6	689.5	721.9	757.7	779.6	782.2	805.7	893.8	817.0
45°	644.2	645.3	675.3	712.7	752.4	779.7	790.1	792.4	808.4	900.9	832.1
47.5°	651.8	653.4	687.8	731.3	772.9	799.5	807.4	808.4	819.7	913.3	850.2
50°	650.5	653.8	692.5	740.6	788.2	819.4	835.3	836.9	842.9	931.6	871.4
52.5°	662.0	663.5	702.5	751.6	809.9	856.2	883.7	886.0	883.2	945.4	884.0
55°	642.9	649.9	690.0	749.9	842.9	913.0	955.5	954.3	919.8	960.8	905.1
57.5°	520.0	530.2	567.0	636.6	788.5	952.9	1009.1	1006.3	948.2	972.6	927.9
60°	360.0	361.6	394.8	444.2	608.6	841.8	993.3	999.3	953.3	957.7	885.7
62.5°	287.9	287.4	290.5	291.8	387.0	591.7	784.1	806.0	792.1	746.2	627.7
65°	245.8	247.6	256.7	252.0	252.6	333.3	468.5	471.6	461.9	445.3	332.0
67.5°	192.4	195.5	211.5	229.8	224.0	214.6	243.1	241.6	190.4	147.4	121.8
70°	120.5	122.4	139.6	180.4	195.0	176.2	156.3	155.6	102.0	83.9	92.0
72.5°	70.3	70.6	75.5	100.6	129.4	120.5	115.0	110.8	65.6	66.9	73.4
75°	38.7	38.7	38.5	43.4	51.0	45.2	43.7	42.6	43.9	49.7	54.6
77.5°	8.1	8.3	8.7	11.5	14.9	18.1	22.8	23.0	28.7	33.2	37.1
80°	3.7	3.9	4.9	6.2	7.9	10.5	13.9	14.1	17.3	20.9	23.5
82.5°	1.9	2.1	2.6	3.2	4.2	5.5	7.8	7.8	10.4	12.3	13.9
85°	0.6	0.6	1.0	1.3	1.8	2.3	3.1	3.1	4.5	6.0	7.0
87.5°	0.0	0.0	0.0	0.0	0.2	0.3	0.6	0.6	0.8	1.0	1.6
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: P629071
CATALOG NUMBER: GWS-SA1A-830-U-SL3-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	726.3	726.3	726.3	726.3	726.3	726.3	726.3	726.3	726.3	726.3	726.3
2.5°	723.1	718.0	718.2	719.2	716.1	711.4	708.3	704.4	702.0	701.5	703.3
5°	712.7	706.9	702.8	698.6	689.9	679.5	671.4	664.8	660.4	658.8	656.8
7.5°	698.5	690.8	680.6	668.8	652.9	634.5	621.5	609.4	601.0	598.5	597.4
10°	684.2	673.2	655.1	633.0	606.6	581.7	558.2	540.2	526.0	517.9	520.5
12.5°	669.5	655.9	627.5	593.7	556.9	519.3	488.6	458.8	435.8	424.3	420.9
15°	656.5	638.0	598.5	552.7	503.8	456.5	412.0	367.3	338.1	322.3	317.9
17.5°	645.5	621.5	567.9	510.9	452.5	385.1	330.4	288.9	269.0	260.2	259.6
20°	634.6	605.3	537.6	465.9	393.2	317.7	268.8	249.4	242.3	239.2	239.0
22.5°	624.9	588.3	505.7	420.9	334.2	267.0	240.2	231.7	229.8	229.8	229.5
25°	616.7	571.3	473.0	373.1	281.0	237.7	225.3	221.7	222.5	224.0	224.1
27.5°	613.3	558.0	441.5	324.0	244.2	220.7	215.1	214.6	216.8	219.1	219.4
30°	616.8	549.0	409.1	277.1	222.2	210.4	207.8	208.7	211.5	213.8	213.8
32.5°	627.8	544.4	376.0	242.7	209.4	203.1	202.3	203.2	205.3	206.6	206.8
35°	646.5	546.2	341.9	219.6	201.1	197.7	197.6	198.2	199.0	199.8	200.0
37.5°	669.9	554.2	305.3	206.2	195.8	193.8	193.5	193.4	193.5	193.5	193.7
40°	692.9	566.1	272.5	198.2	192.1	190.4	189.6	188.5	188.3	188.0	187.9
42.5°	709.9	575.4	246.5	192.5	188.7	186.7	185.7	184.0	183.8	183.6	183.5
45°	722.7	583.1	224.8	187.0	185.1	183.3	181.2	179.6	179.9	180.2	180.2
47.5°	737.2	590.0	208.9	181.9	180.7	178.9	176.4	175.2	176.4	177.5	177.5
50°	754.6	599.5	195.9	176.7	176.2	174.1	171.8	171.3	172.6	174.2	174.2
52.5°	767.4	607.8	186.7	171.5	171.5	168.7	166.8	166.6	168.1	169.7	169.9
55°	791.4	627.0	183.5	165.5	164.9	162.8	161.3	160.2	161.9	163.4	163.4
57.5°	*818.4*	*652.6*	*184.3*	*156.9*	*156.1*	*155.5*	*154.3*	*153.0*	*153.5*	*155.1*	*155.3*
60°	761.1	603.1	175.4	148.3	147.9	147.5	146.1	143.8	144.5	145.7	145.9
62.5°	531.7	400.8	141.9	137.6	139.3	139.1	137.2	134.6	134.7	136.5	136.5
65°	275.9	216.8	124.5	127.9	130.4	129.4	126.2	123.9	123.6	125.8	125.3
67.5°	119.0	118.4	113.4	117.7	120.3	118.2	114.8	111.1	111.4	112.2	111.6
70°	95.9	98.8	100.9	105.6	107.7	103.8	100.1	98.0	96.2	96.0	94.9
72.5°	76.6	80.6	85.3	90.2	90.8	87.0	82.3	80.3	77.6	77.4	76.3
75°	57.7	61.1	64.8	68.7	68.7	64.9	61.9	60.9	57.7	56.7	55.7
77.5°	39.4	41.5	44.4	45.3	46.3	44.9	41.8	40.2	36.4	35.5	34.2
80°	24.8	26.2	28.0	28.7	29.6	27.9	25.4	23.6	21.1	20.2	19.6
82.5°	14.9	15.9	17.0	17.3	18.1	16.8	14.6	13.3	11.8	11.2	10.7
85°	7.6	8.1	8.7	8.9	8.7	7.4	6.6	6.0	5.0	4.9	4.5
87.5°	1.9	2.3	2.4	2.3	2.1	1.6	1.1	0.8	0.3	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

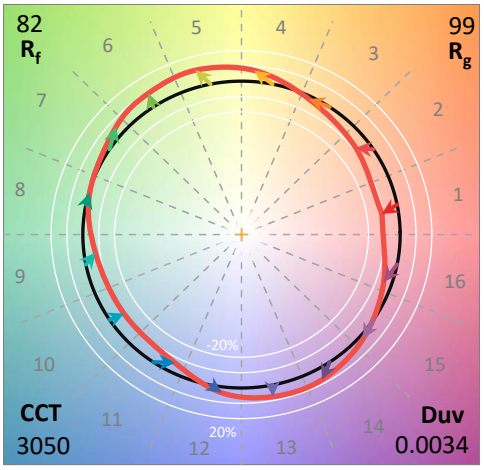
Test Information

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

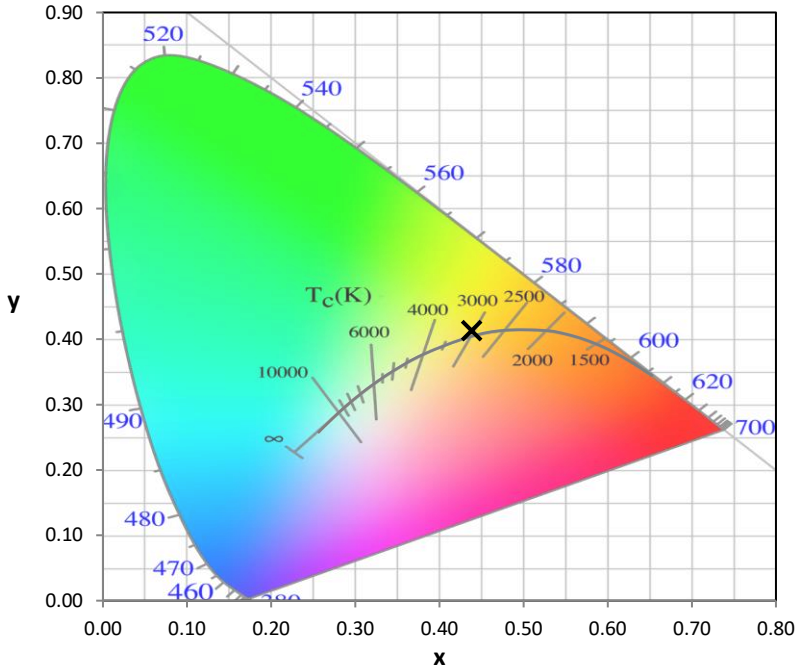
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

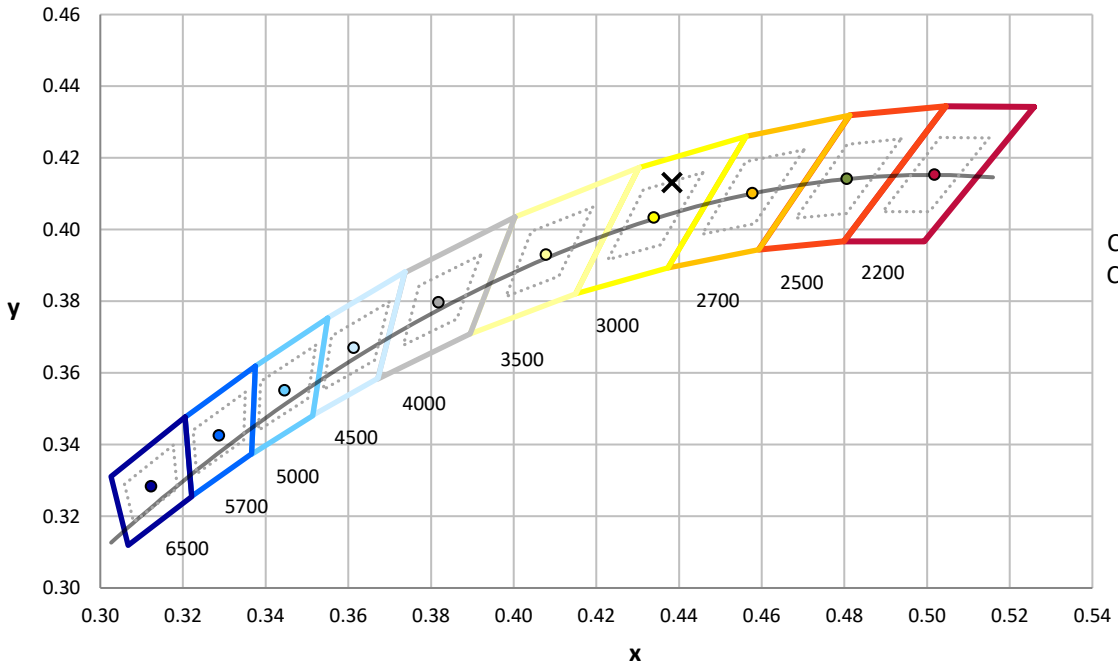
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

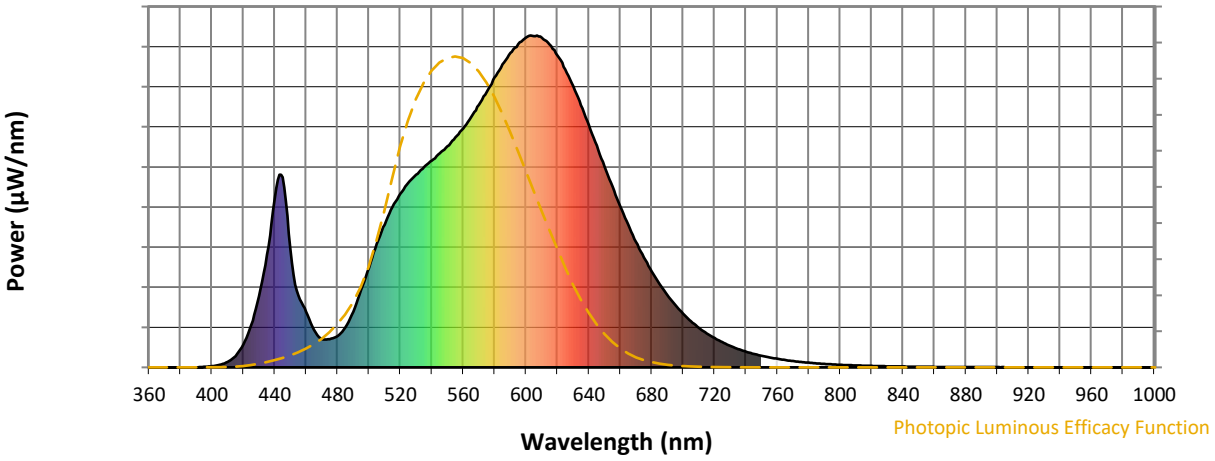


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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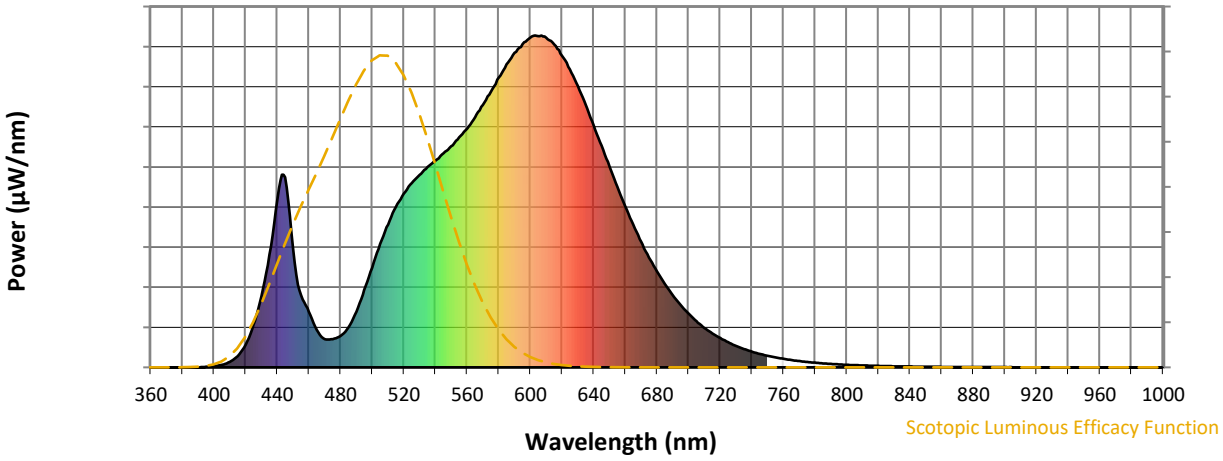
Scotopic Flux vs. Wavelength



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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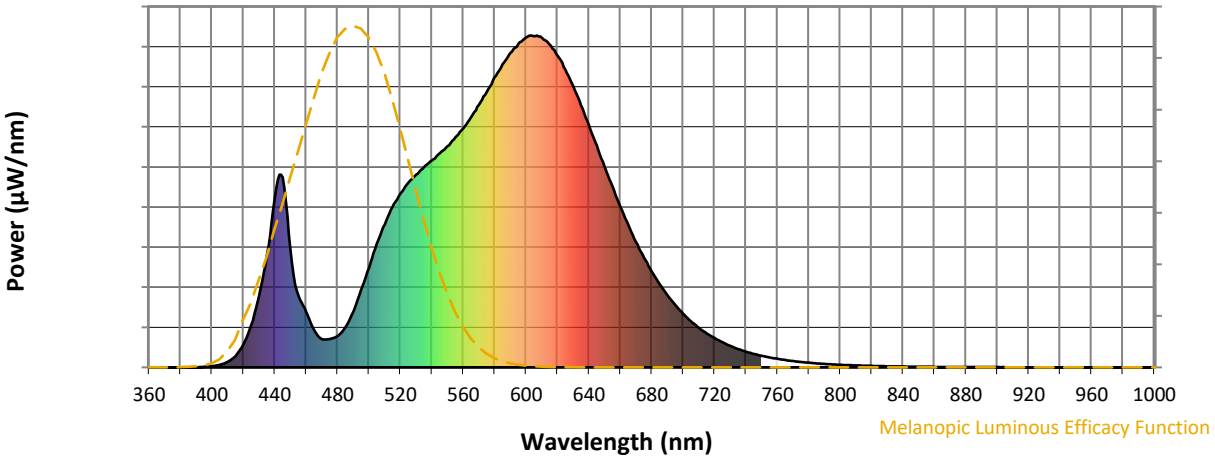
Melanopic Flux vs. Wavelength



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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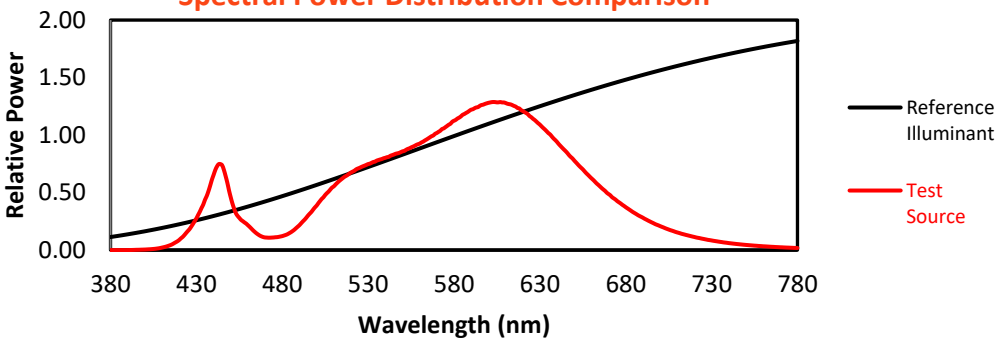
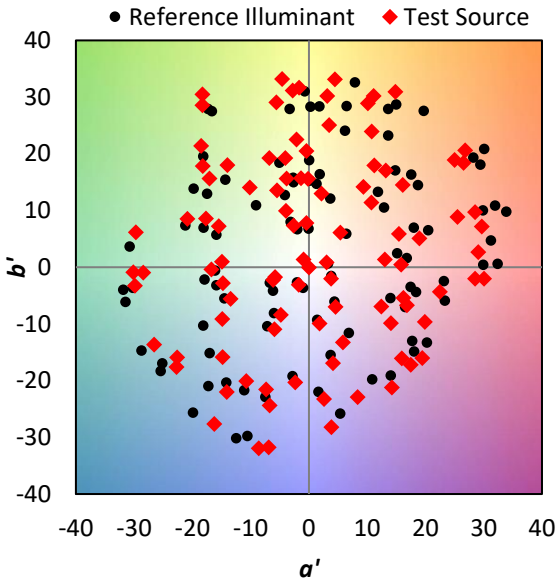
Summary

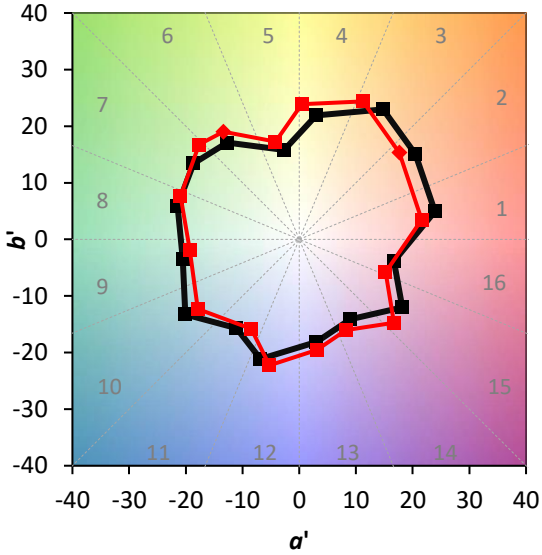
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

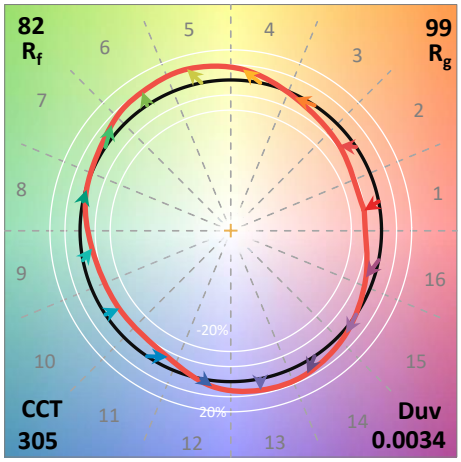
Spectral Power Distribution Comparison

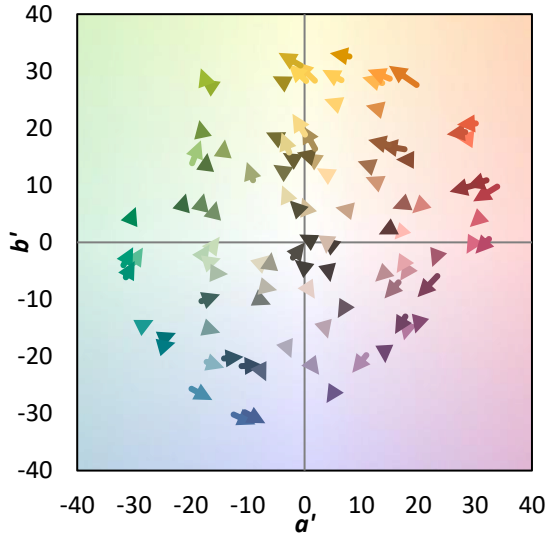


Color Vector Graphics









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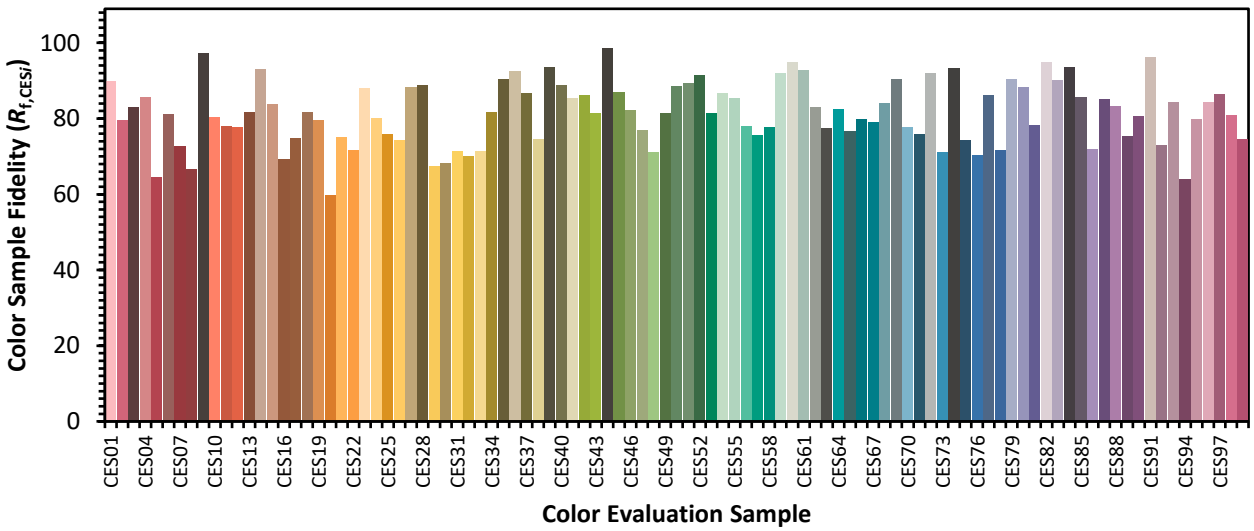
Individual Sample Fidelity Index ($R_{f,i}$)

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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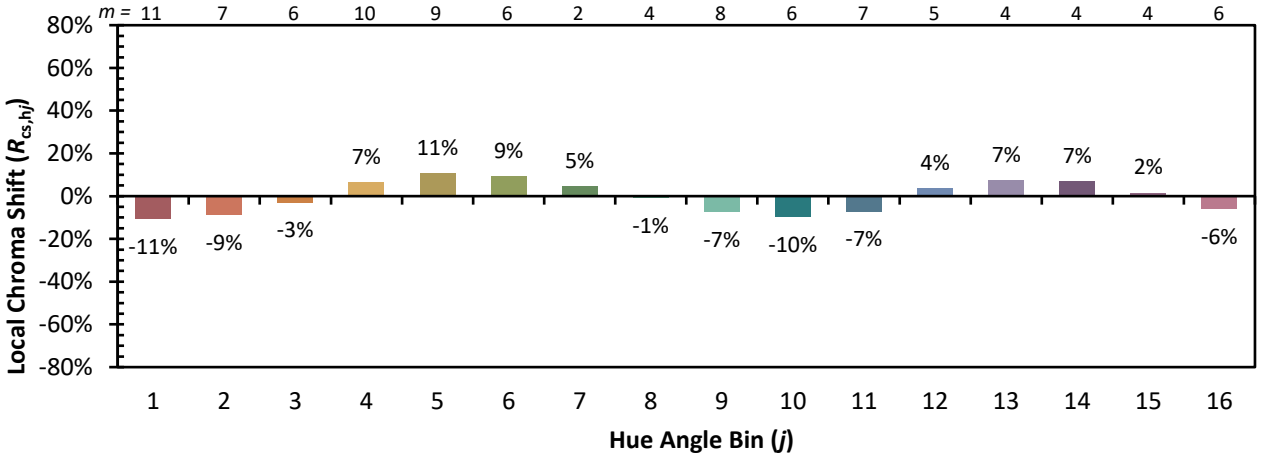
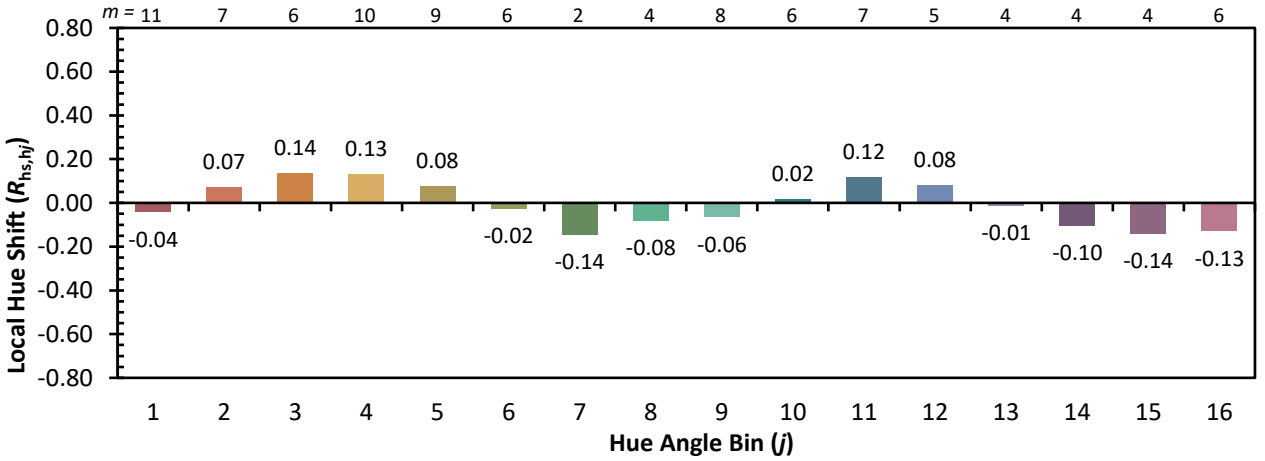
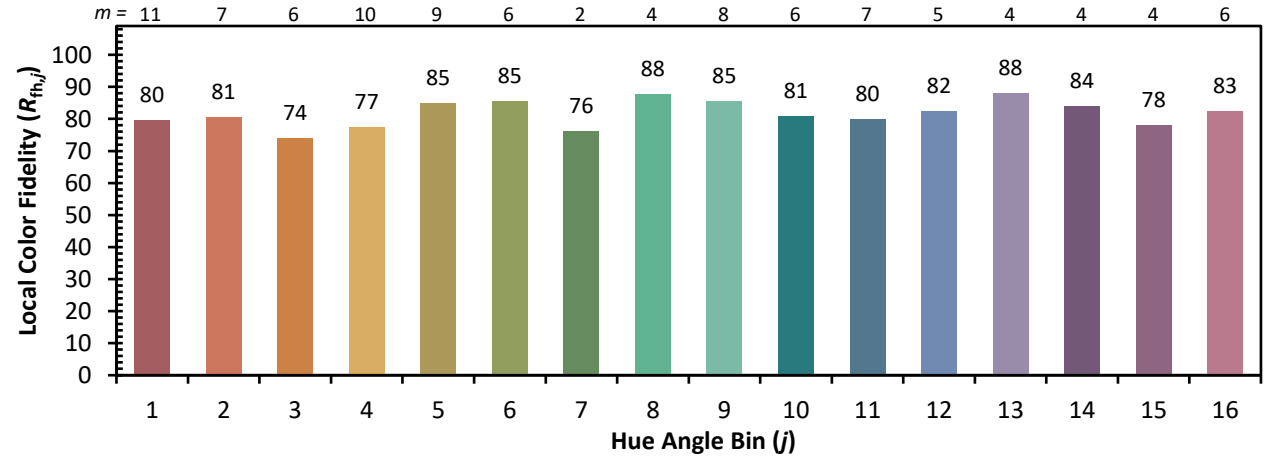
Color Rendition by Hue-Angle Bin







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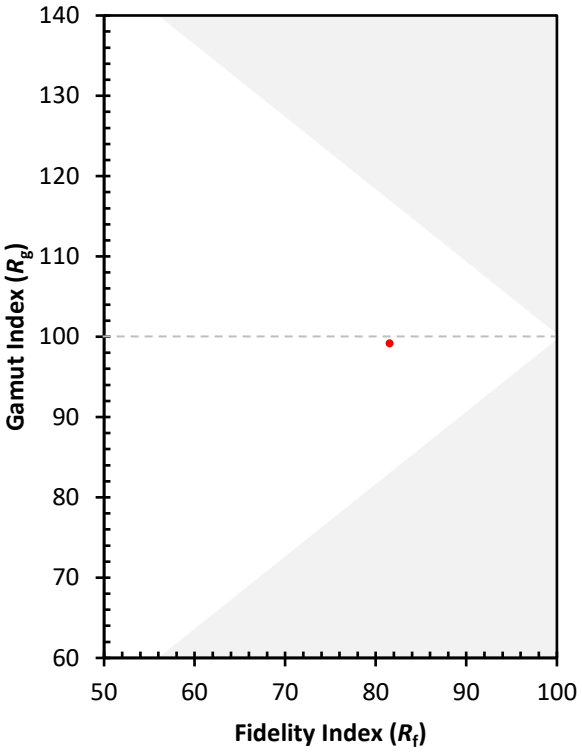
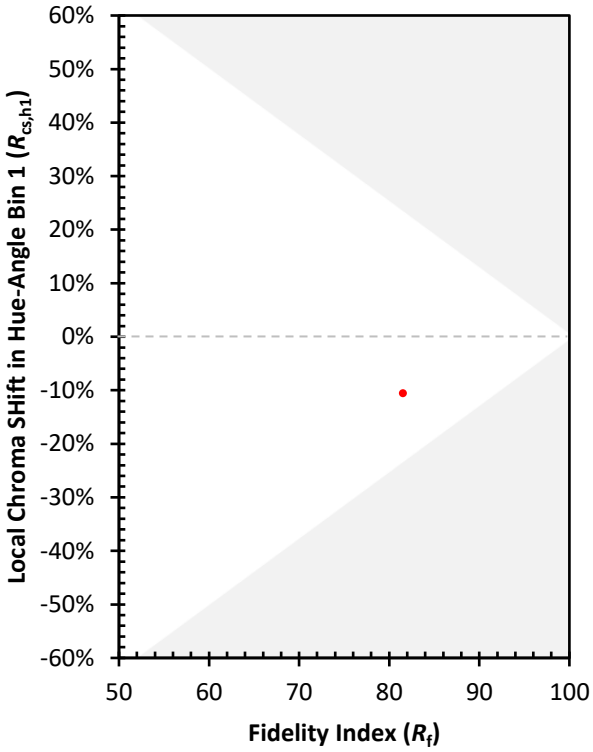
Measure Comparisons





(END OF REPORT)