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: P629100

Luminaire Tested: GWS-SA1A-830-U-T3R-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:	P629100
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1A-830-U-T3R-W
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2296.5 lumens
Efficiency:	N/A
Efficacy:	116.6 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type III - Medium
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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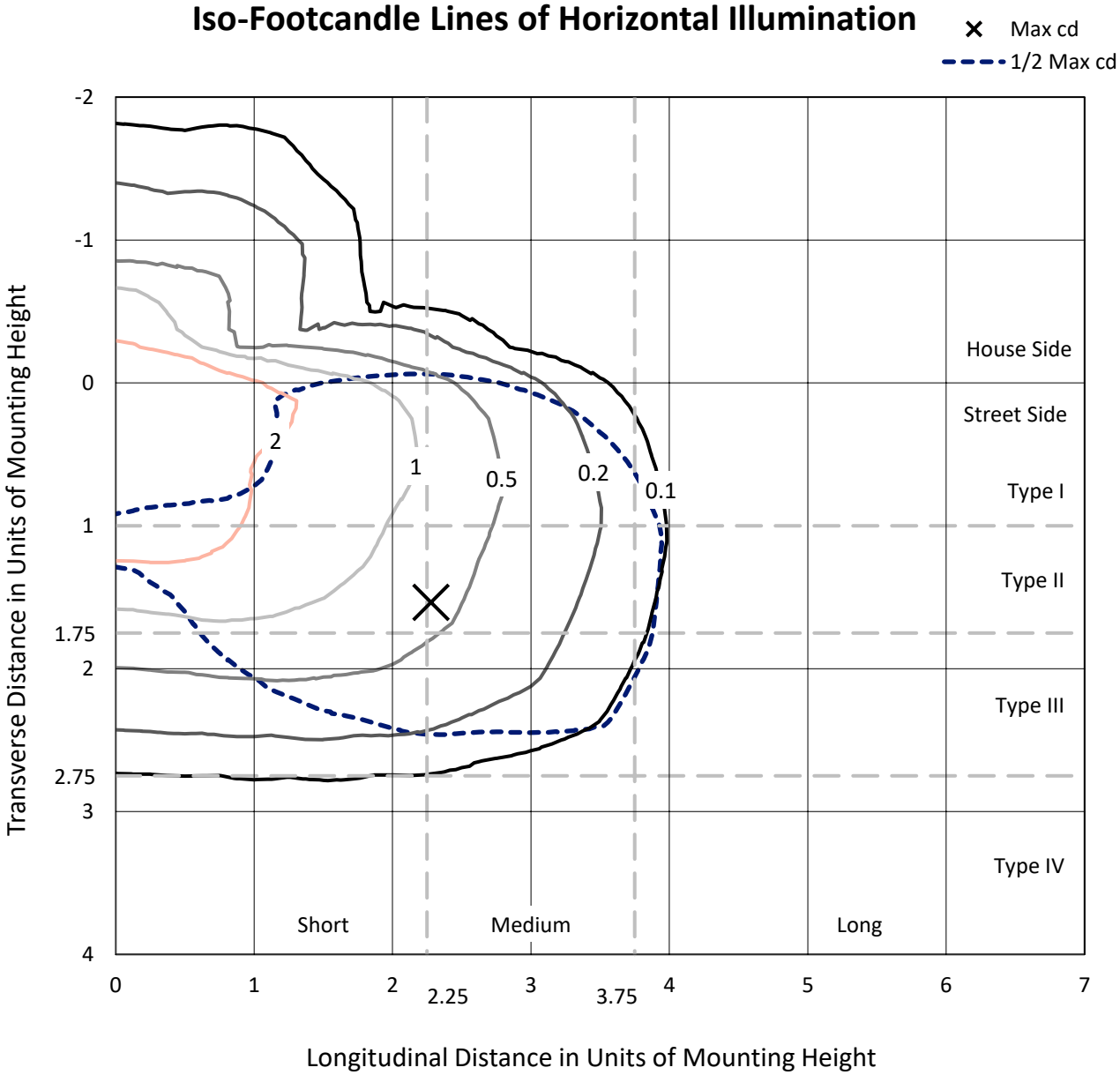
REPORT NUMBER: P629100
CATALOG NUMBER: GWS-SA1A-830-U-T3R-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 3.8 fc
Type III - Medium - N/A

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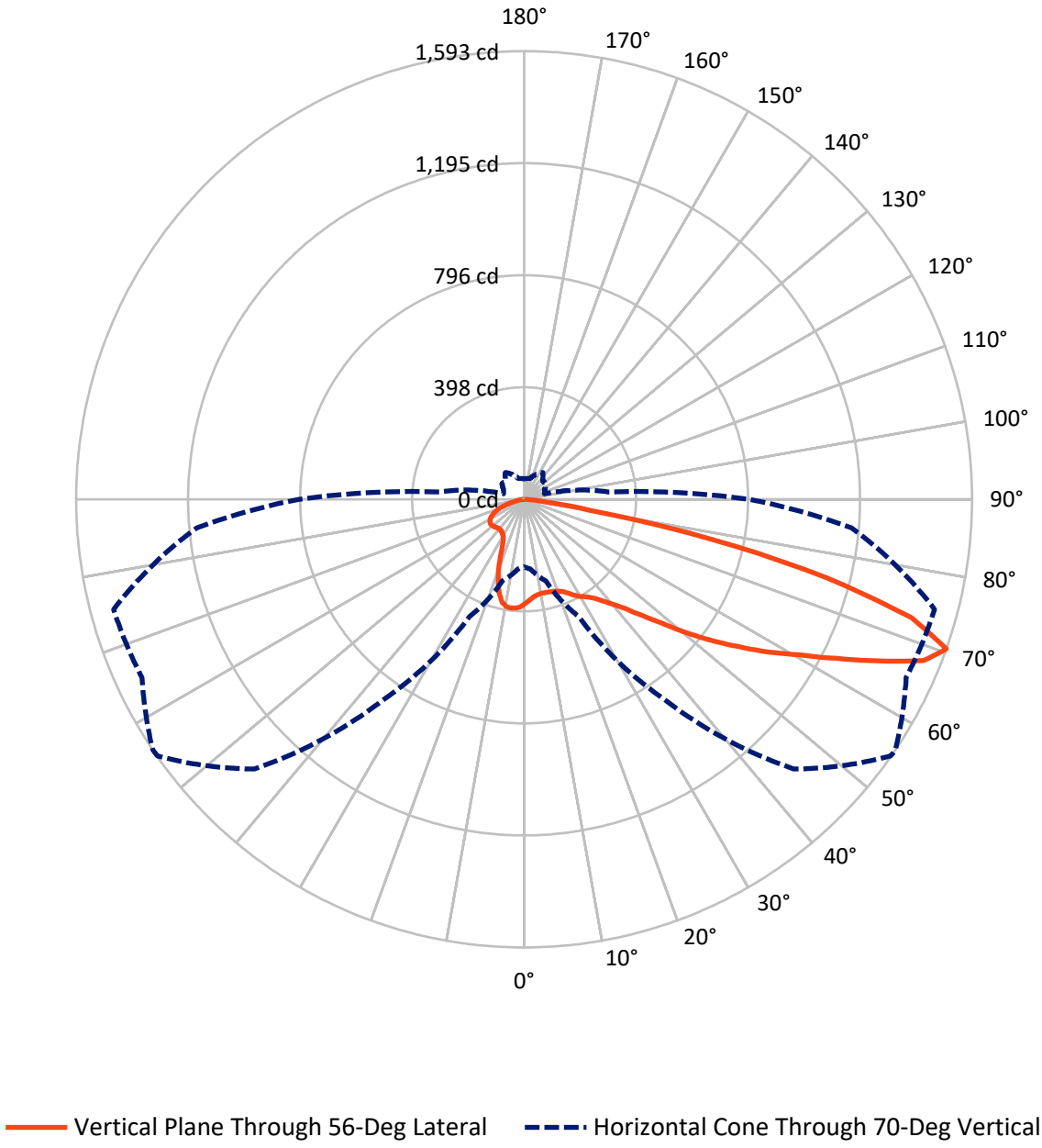
Luminous Intensity Polar Plot



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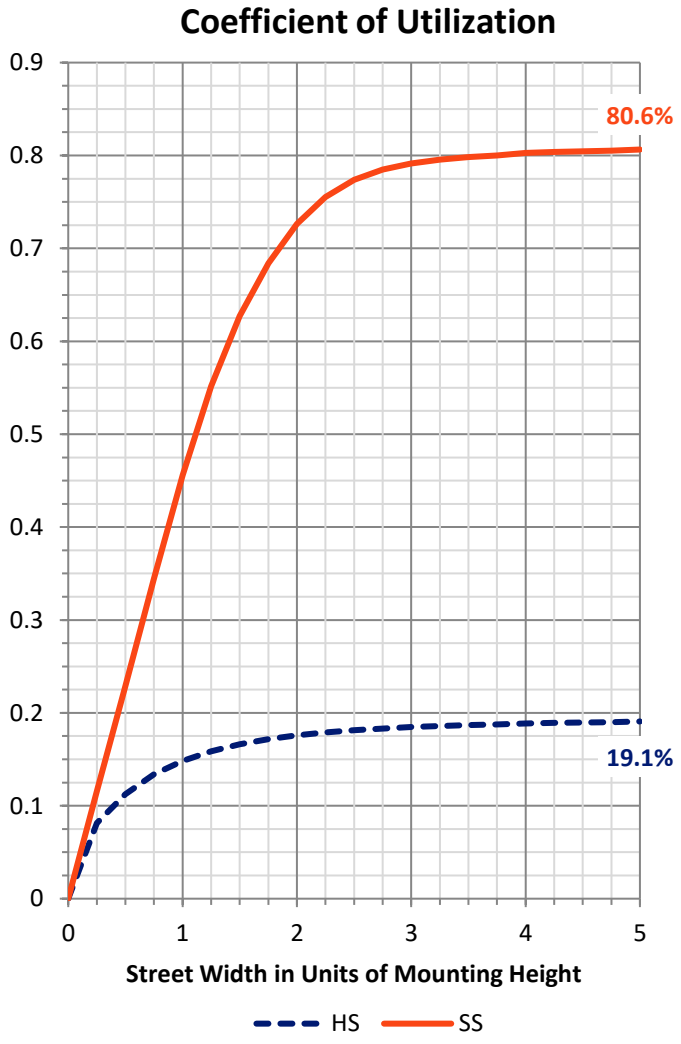
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	441.5	0.0	441.5
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	1855.0	0.0	1855.0
	% Fixture	80.8	0.0	80.8
Total	Lumens	2296.5	0.0	2296.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.3	1.5
10°-20°	92.9	4.0
20°-30°	153.7	6.7
30°-40°	229.7	10.0
40°-50°	341.9	14.9
50°-60°	486.1	21.2
60°-70°	602.0	26.2
70°-80°	332.4	14.5
80°-90°	23.4	1.0
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°	2296.5	100.0
0°-180°	2296.5	100.0



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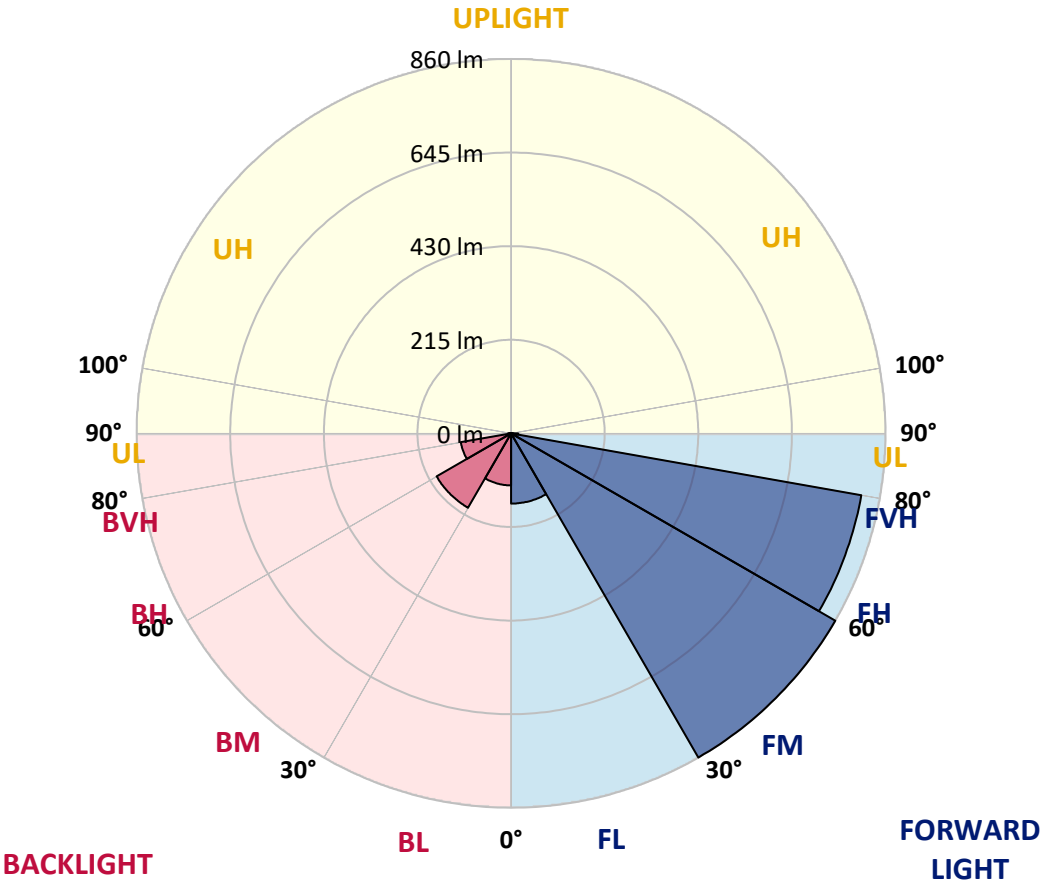
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	161.4	7.0			
FM	(30°-60°)	860.2	37.5			
FH	(60°-80°)	817.1	35.6			G1/1800
FVH	(80°-90°)	16.3	0.7			G1/100
BL	(0°-30°)	119.5	5.2	B1/500		
BM	(30°-60°)	197.5	8.6	B0/220		
BH	(60°-80°)	117.3	5.1	B1/500		G1/500
BVH	(80°-90°)	7.1	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 III Medium



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REPORT NUMBER: P629100
CATALOG NUMBER: GWS-SA1A-830-U-T3R-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	370.7	370.7	370.7	370.7	370.7	370.7	370.7	370.7	370.7	370.7	370.7
2.5°	346.9	344.9	347.2	348.3	351.3	355.5	359.2	359.4	361.3	366.0	370.5
5°	331.2	330.2	330.9	334.3	337.3	342.7	348.3	348.8	354.3	363.6	372.6
7.5°	319.0	317.7	320.2	324.5	328.4	334.4	341.9	342.5	350.3	364.2	378.1
10°	301.5	300.6	305.1	310.9	319.4	329.2	339.1	339.9	350.1	368.4	387.9
12.5°	293.9	293.9	295.9	301.4	310.6	323.7	338.6	339.9	352.7	374.9	400.3
15°	305.8	306.6	304.9	304.6	308.3	320.8	339.3	341.2	357.6	381.5	412.6
17.5°	329.6	330.4	326.2	319.5	315.8	323.6	341.7	343.8	362.8	388.8	425.9
20°	362.9	363.9	354.7	344.5	331.7	331.5	346.4	348.3	369.4	396.8	440.0
22.5°	401.9	402.6	390.9	374.7	355.1	346.2	354.5	356.4	378.0	407.8	455.2
25°	447.1	449.1	435.0	411.5	384.9	366.5	367.9	370.2	393.4	422.5	473.2
27.5°	495.4	497.8	481.6	455.7	419.1	388.8	385.3	387.2	409.7	431.6	482.8
30°	544.8	546.6	530.4	500.7	455.9	414.1	399.8	401.0	416.8	436.0	492.5
32.5°	599.7	598.2	582.7	548.5	498.3	444.4	413.4	413.1	424.8	444.7	506.4
35°	651.2	653.3	636.8	599.0	544.9	481.8	433.8	432.6	441.6	459.0	526.0
37.5°	713.5	712.9	693.1	652.3	591.7	517.6	462.5	460.2	463.5	481.1	553.4
40°	758.1	762.6	749.8	711.7	646.5	561.6	496.0	491.0	491.8	508.5	590.0
42.5°	794.5	798.7	800.0	775.7	709.2	616.0	537.8	532.8	533.3	556.9	635.0
45°	822.5	828.2	846.5	839.4	779.8	678.9	594.3	589.2	589.5	615.7	689.4
47.5°	834.0	840.2	877.3	894.3	854.7	754.0	664.6	657.0	658.1	687.1	751.6
50°	830.3	838.5	888.8	936.5	917.6	830.5	748.7	743.3	739.0	781.1	819.1
52.5°	798.2	807.3	887.6	963.4	968.9	902.7	835.5	832.4	831.4	880.8	894.6
55°	703.8	719.0	848.6	970.5	1009.1	970.7	929.6	924.4	929.4	987.7	970.9
57.5°	651.5	662.8	772.2	962.6	1041.9	1035.5	1023.5	1024.0	1029.6	1103.8	1063.3
60°	621.7	635.0	729.7	940.9	1073.5	1114.2	1121.8	1121.8	1132.0	1229.0	1157.3
62.5°	582.2	595.6	690.0	899.1	1102.7	1206.8	1245.4	1244.9	1248.9	1363.2	1249.1
65°	502.0	514.5	610.4	833.2	1116.9	1308.8	1385.8	1384.3	1376.2	1482.8	1309.8
67.5°	364.5	376.4	467.5	707.9	1065.6	1391.1	1530.4	1531.0	1482.6	1558.1	1313.0
70°	240.3	248.4	300.6	459.8	866.6	1355.6	1590.9	1592.9	1499.0	1511.1	1168.6
72.5°	150.0	155.6	187.7	274.2	512.1	1073.0	1435.5	1440.8	1348.5	1327.9	960.2
75°	99.6	103.5	124.9	159.8	236.9	580.7	1091.2	1108.3	1080.8	1041.0	669.0
77.5°	59.9	63.2	79.5	101.5	104.9	226.9	636.9	681.3	685.2	543.5	280.2
80°	27.4	31.1	43.9	58.0	55.9	79.0	224.6	235.0	277.2	172.6	88.4
82.5°	16.2	17.8	29.1	28.8	23.8	38.4	80.8	82.9	70.4	63.2	37.7
85°	6.5	7.6	12.3	10.9	8.7	12.5	30.4	31.9	30.6	27.5	13.9
87.5°	0.0	0.0	0.0	0.0	0.2	0.3	2.8	2.9	4.2	7.6	4.2
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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REPORT NUMBER: P629100
CATALOG NUMBER: GWS-SA1A-830-U-T3R-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	370.7	370.7	370.7	370.7	370.7	370.7	370.7	370.7	370.7	370.7	370.7
2.5°	373.4	372.5	377.3	381.1	382.7	384.3	382.8	382.4	382.4	379.1	377.5
5°	377.5	378.0	384.6	387.7	387.7	386.4	382.5	379.8	378.8	374.6	373.4
7.5°	385.1	387.2	393.4	393.2	388.7	381.5	371.8	364.4	357.6	354.7	352.9
10°	397.6	400.3	404.5	397.7	385.1	366.3	345.8	329.6	319.8	312.1	312.1
12.5°	411.8	414.4	413.6	397.9	371.8	336.7	307.0	288.4	274.8	267.7	267.7
15°	426.1	428.2	419.4	390.4	344.1	297.3	264.9	242.6	230.8	224.1	224.1
17.5°	440.5	440.3	421.9	373.3	308.0	253.8	222.0	204.7	200.6	199.5	199.4
20°	454.4	450.7	418.8	344.6	266.1	209.9	189.8	190.9	196.9	199.5	199.8
22.5°	470.1	460.9	409.7	308.0	218.5	179.4	180.7	190.1	198.9	202.8	203.2
25°	486.2	469.6	394.5	265.1	178.6	168.3	178.3	188.8	198.7	203.7	204.2
27.5°	492.6	469.6	368.6	215.4	157.4	163.6	174.6	184.8	195.1	201.0	202.1
30°	498.0	465.6	332.3	170.5	148.7	159.0	168.6	178.0	188.2	195.3	196.6
32.5°	505.4	462.0	288.4	143.3	144.6	154.7	161.3	169.2	178.5	183.2	182.7
35°	514.2	456.5	235.5	130.4	141.2	150.9	155.6	160.3	156.1	156.0	156.4
37.5°	526.6	451.7	189.3	124.5	138.9	148.3	152.2	142.2	136.4	133.9	133.0
40°	544.6	449.7	149.3	121.1	138.6	148.2	145.4	129.9	121.9	113.5	113.4
42.5°	567.3	448.3	123.4	119.5	139.8	151.9	136.0	121.8	105.4	101.7	101.4
45°	596.4	446.0	110.4	119.2	142.5	154.8	135.1	110.6	99.4	97.8	97.8
47.5°	631.6	442.4	104.6	119.2	145.6	153.5	132.1	108.2	96.7	98.5	99.6
50°	671.9	437.9	101.5	118.9	148.7	153.5	126.0	107.7	96.0	105.3	109.0
52.5°	715.0	432.7	99.4	117.6	150.8	153.7	126.3	109.3	96.7	106.9	110.0
55°	762.6	431.9	96.5	114.8	151.4	149.5	127.1	112.9	97.7	96.8	97.0
57.5°	822.7	441.6	94.4	110.8	148.8	140.9	128.7	115.5	96.5	96.7	97.8
60°	885.5	459.9	96.2	106.9	143.5	132.8	129.9	114.2	91.0	88.4	88.7
62.5°	939.0	473.8	97.7	105.1	135.7	125.7	128.7	111.3	87.9	87.3	88.7
65°	961.3	462.4	94.1	101.4	124.4	116.9	126.3	107.5	85.3	82.9	83.1
67.5°	936.5	408.4	87.1	93.1	111.6	105.7	122.4	102.7	81.8	78.9	78.2
70°	*800.0*	*300.1*	*75.1*	*80.0*	*96.0*	*92.6*	*116.4*	*96.4*	*76.1*	*74.0*	*72.6*
72.5°	644.7	212.5	62.3	63.6	75.3	78.1	106.1	88.4	69.6	63.6	61.5
75°	448.7	133.4	52.0	50.7	54.4	59.6	82.8	73.4	60.1	53.8	51.8
77.5°	193.0	68.5	40.6	40.0	36.3	41.3	63.5	61.2	50.4	43.1	41.9
80°	64.6	39.7	29.3	28.2	24.1	29.0	44.7	48.9	39.5	31.9	30.0
82.5°	32.4	23.0	18.6	16.8	16.2	18.3	26.4	30.4	27.4	22.0	18.6
85°	15.9	13.1	10.2	10.0	8.4	7.9	11.0	13.0	12.3	9.1	8.6
87.5°	5.8	5.2	3.2	2.6	1.6	1.1	0.6	0.6	0.5	0.5	0.5
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

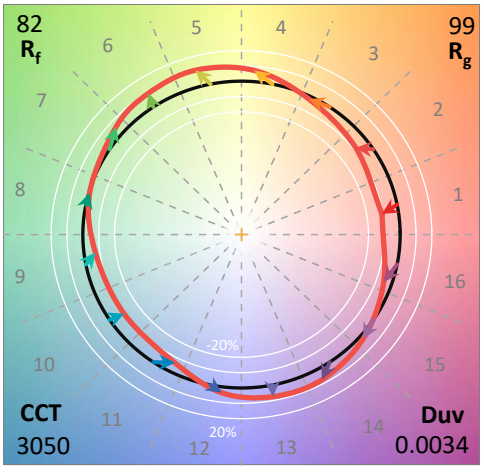
Test Information

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

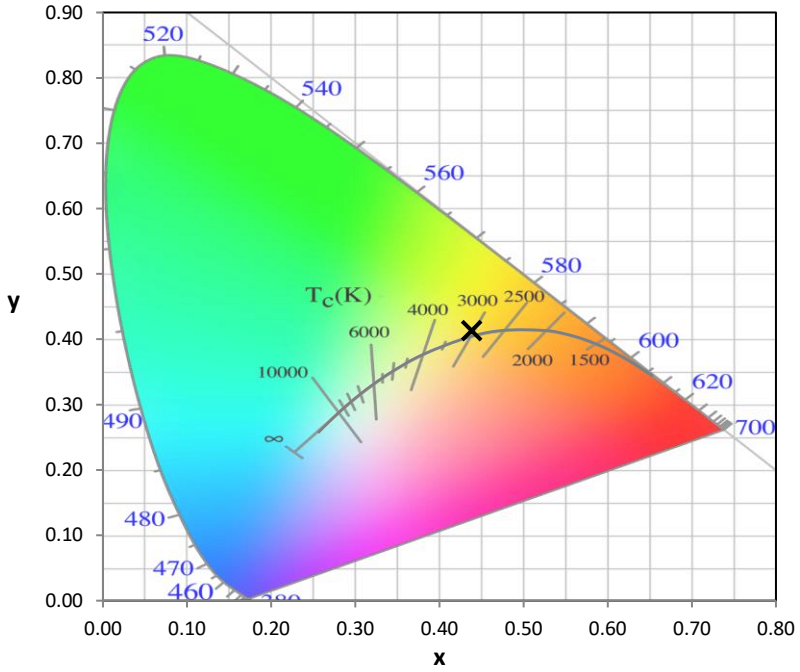
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

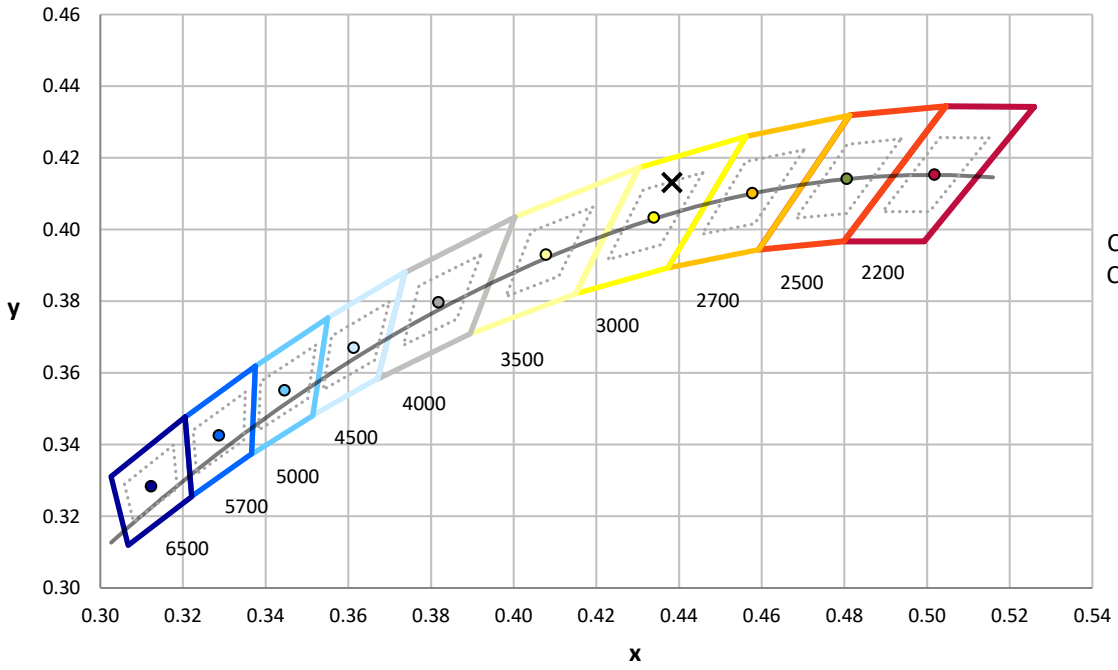
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

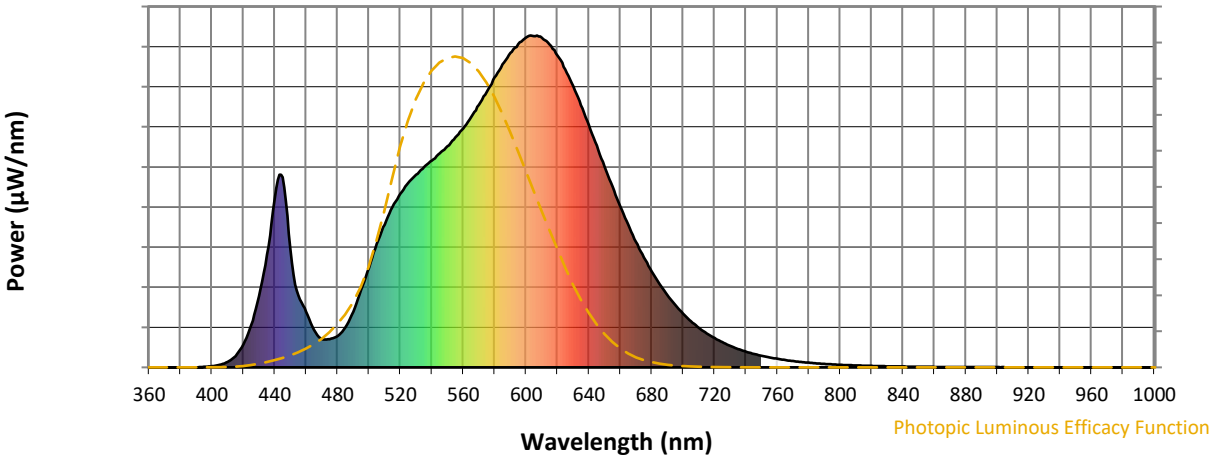


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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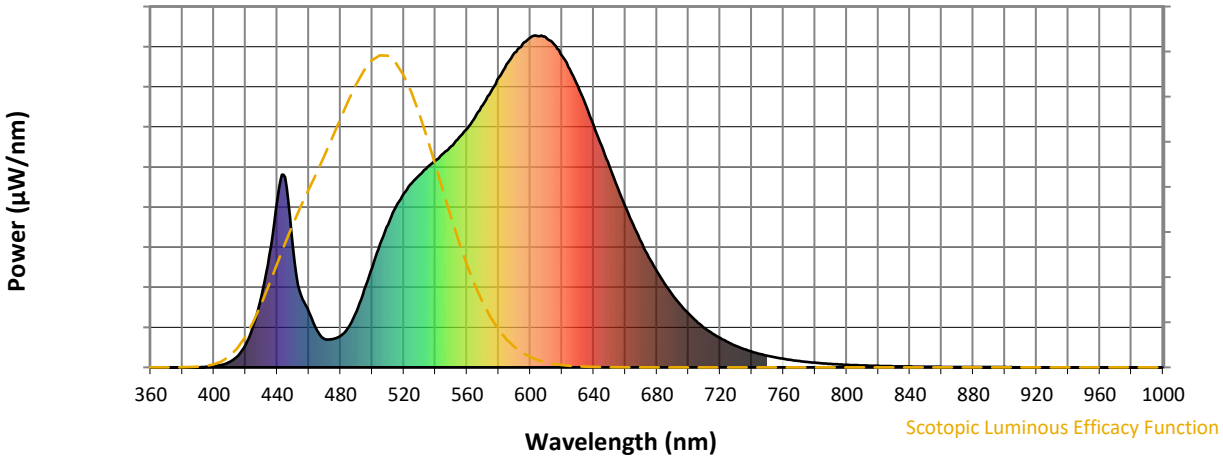
Scotopic Flux vs. Wavelength



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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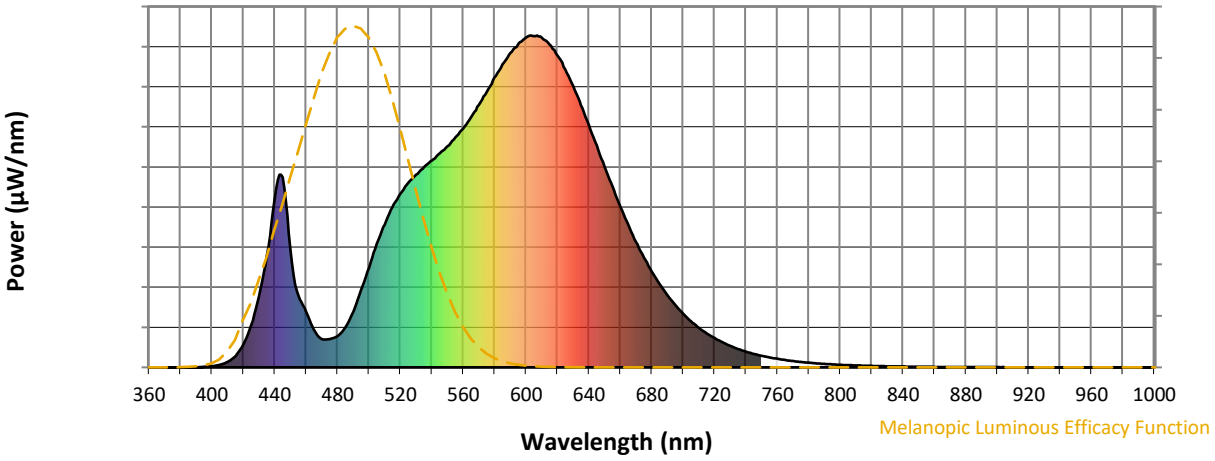
Melanopic Flux vs. Wavelength



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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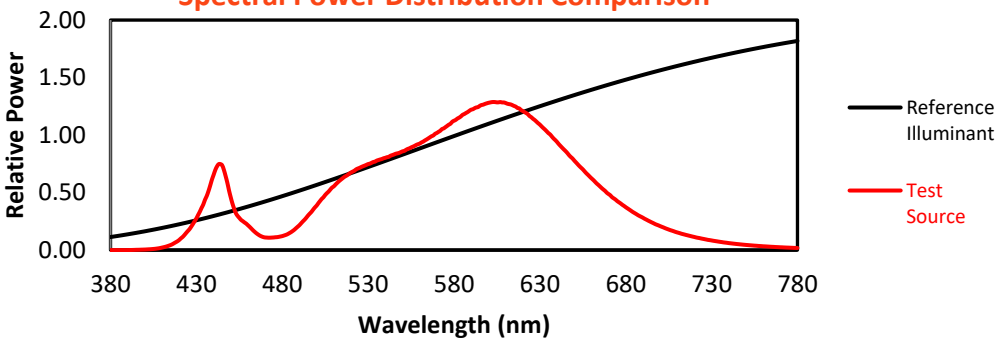
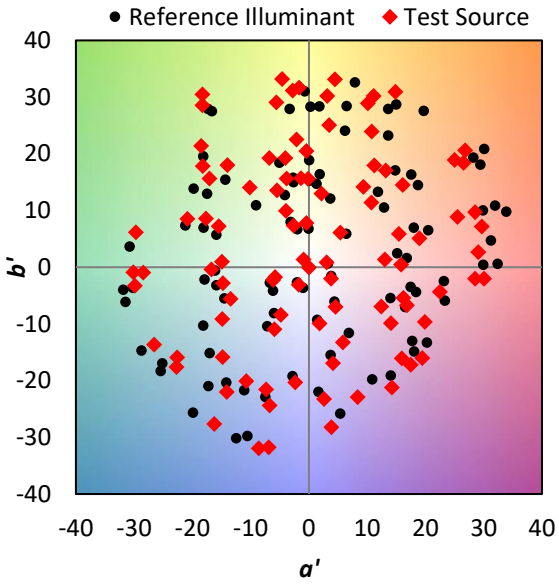
Summary

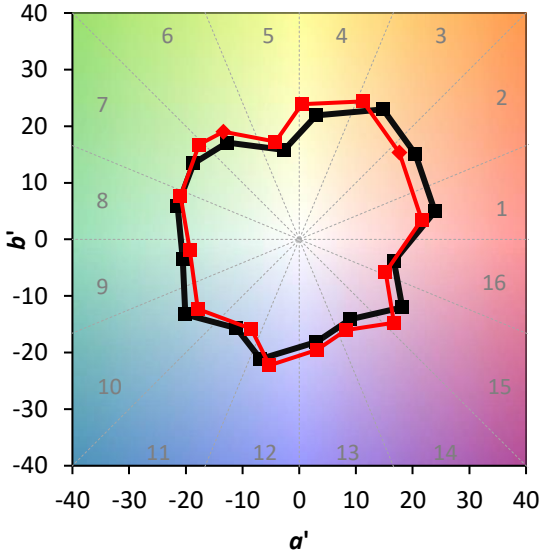
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

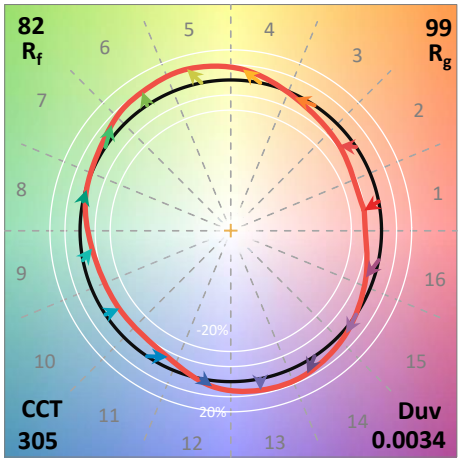
Spectral Power Distribution Comparison

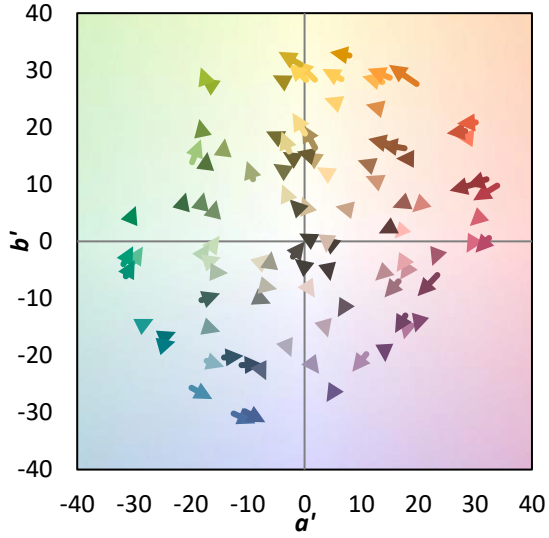


Color Vector Graphics









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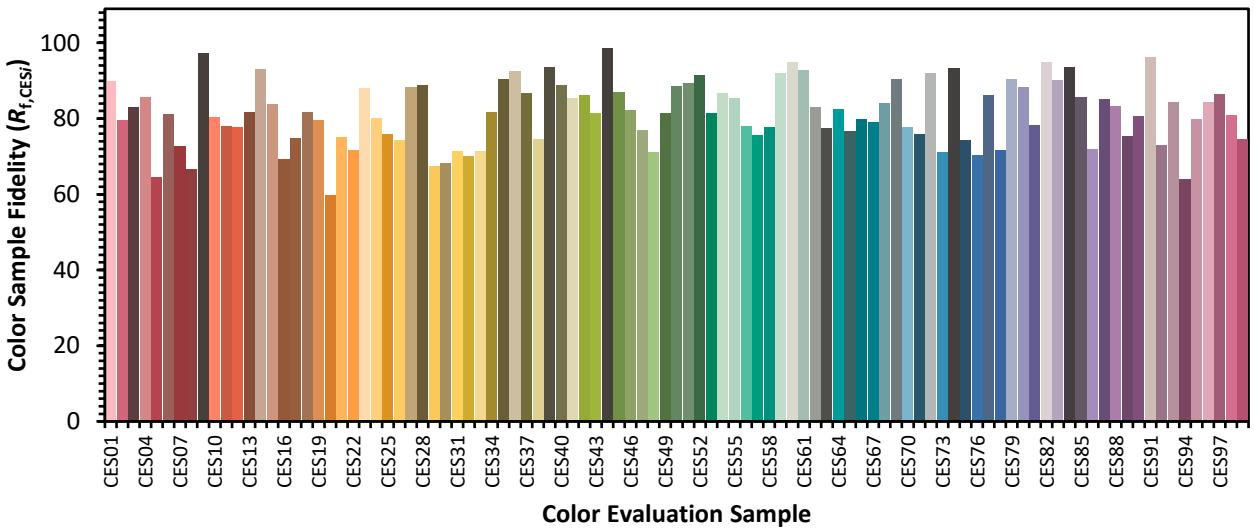
Individual Sample Fidelity Index ($R_{f,i}$)

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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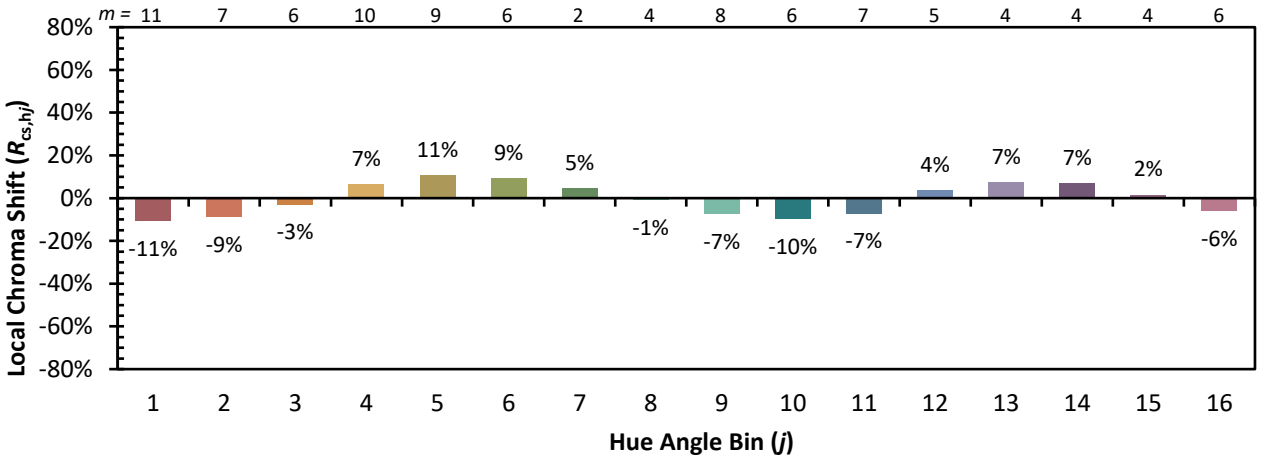
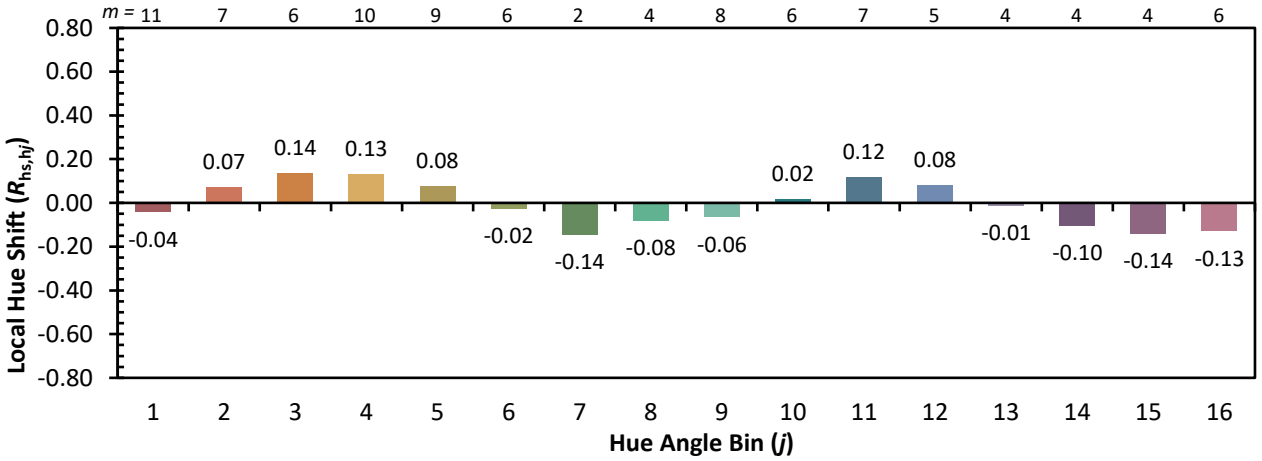
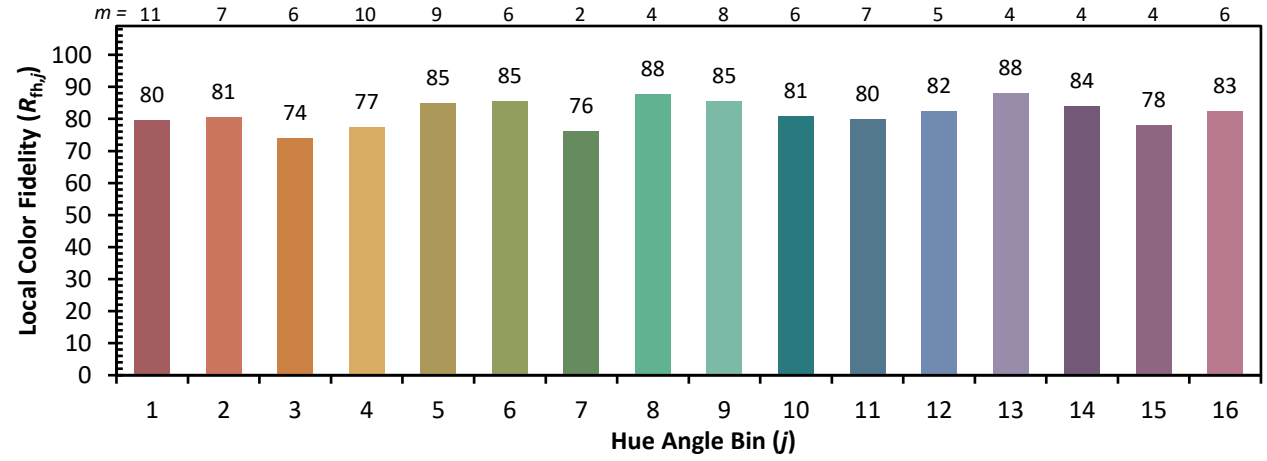
Color Rendition by Hue-Angle Bin







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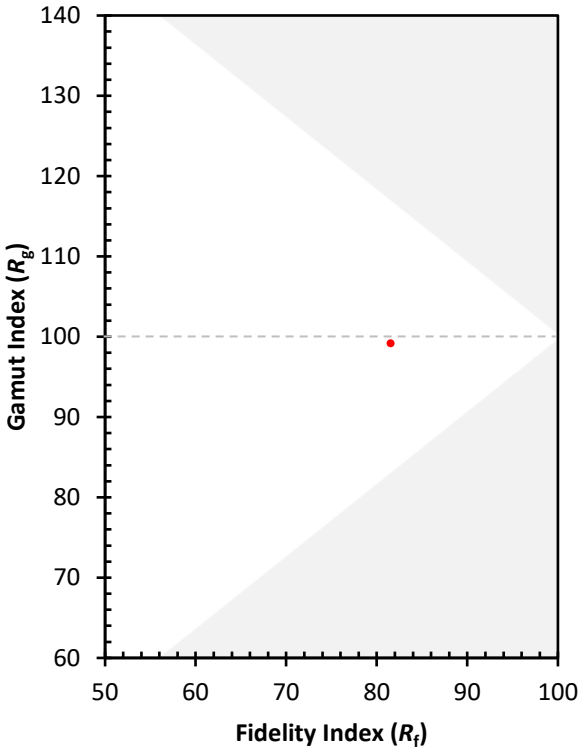
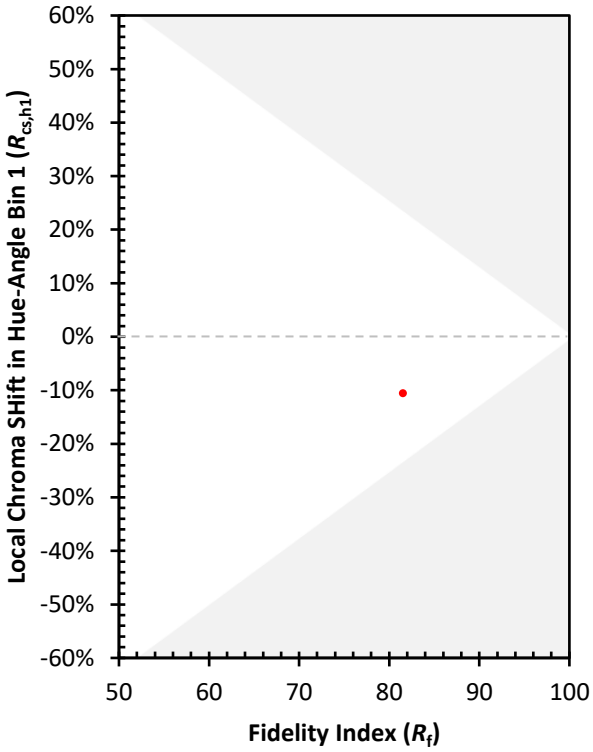
Measure Comparisons





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