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: P629084

Luminaire Tested: GWS-SA1A-830-U-T1-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:	P629084
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1A-830-U-T1-W
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2254.9 lumens
Efficiency:	N/A
Efficacy:	114.5 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type I - 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: P629084
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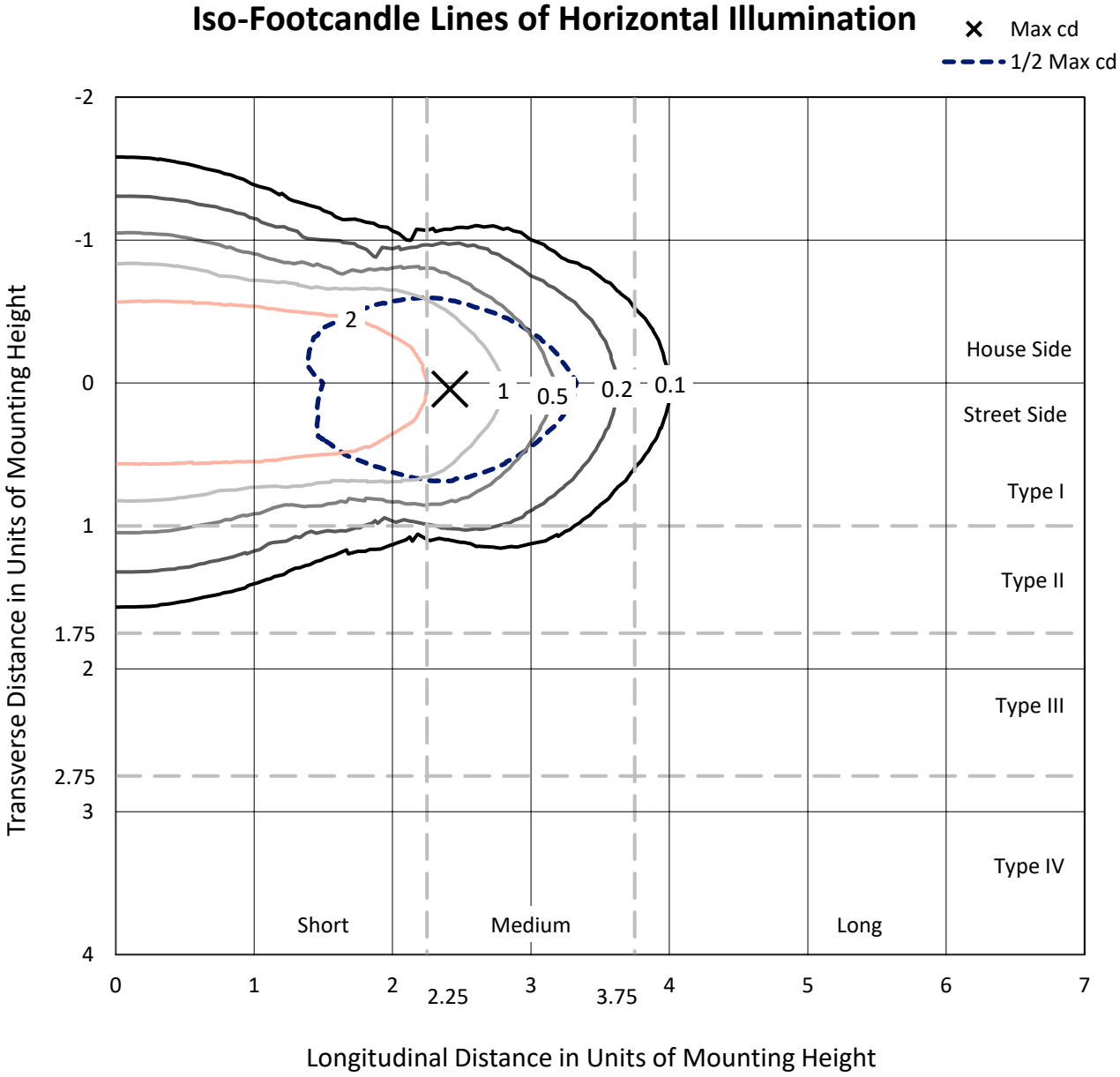
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 4.1 fc
Type I - Medium - N/A

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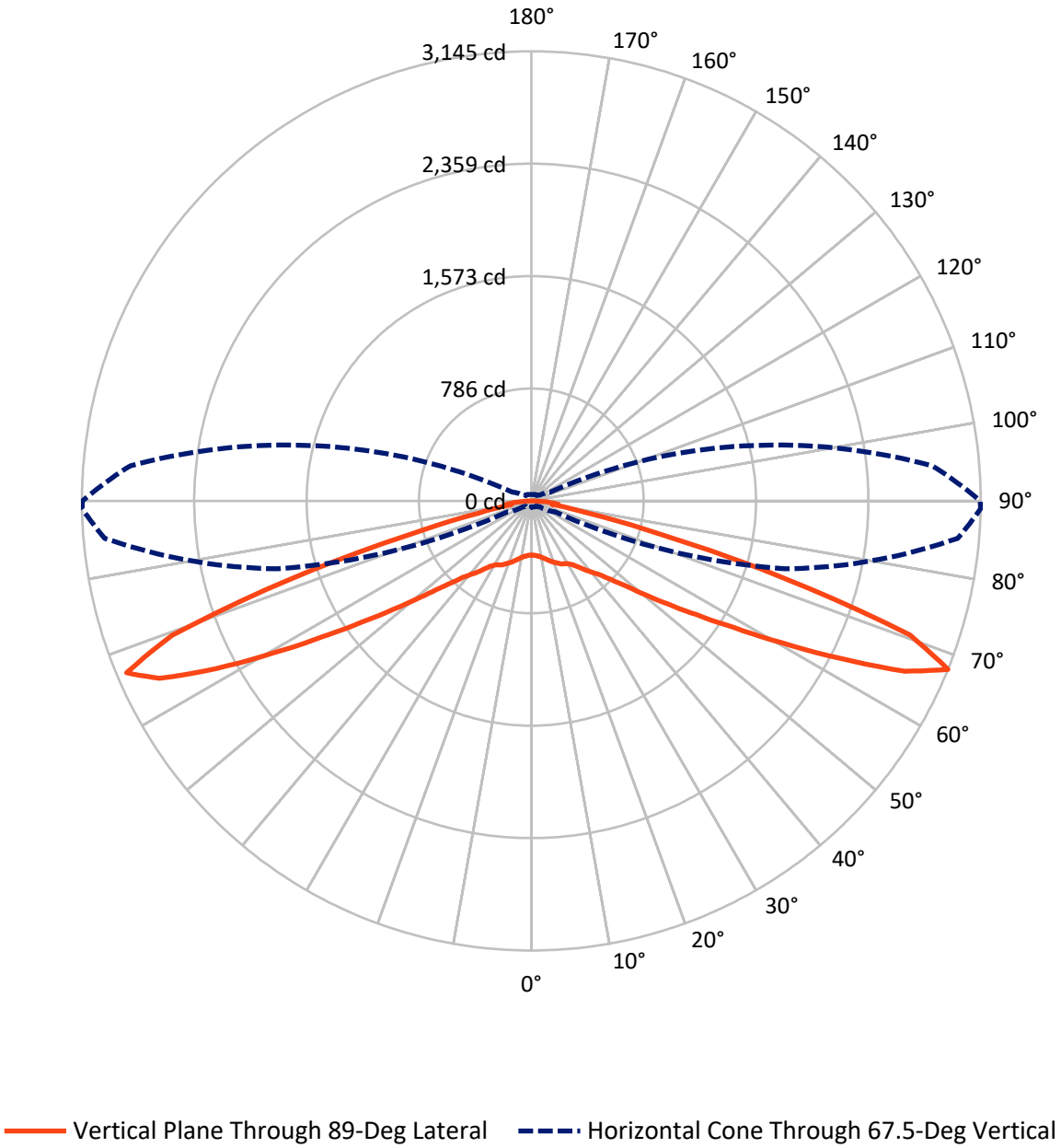
Luminous Intensity Polar Plot



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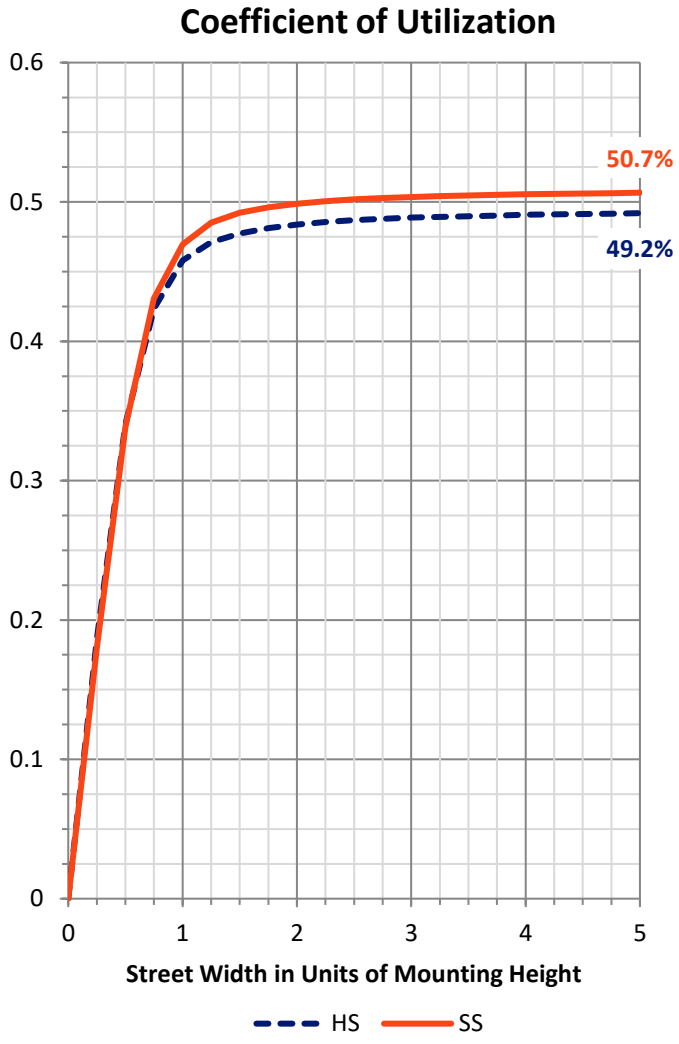
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1117.6	0.0	1117.6
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	1137.3	0.0	1137.3
	% Fixture	50.4	0.0	50.4
Total	Lumens	2254.9	0.0	2254.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.0	1.7
10°-20°	123.6	5.5
20°-30°	209.0	9.3
30°-40°	286.8	12.7
40°-50°	365.7	16.2
50°-60°	458.8	20.3
60°-70°	553.4	24.5
70°-80°	200.2	8.9
80°-90°	19.5	0.9
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°	2254.9	100.0
0°-180°	2254.9	100.0



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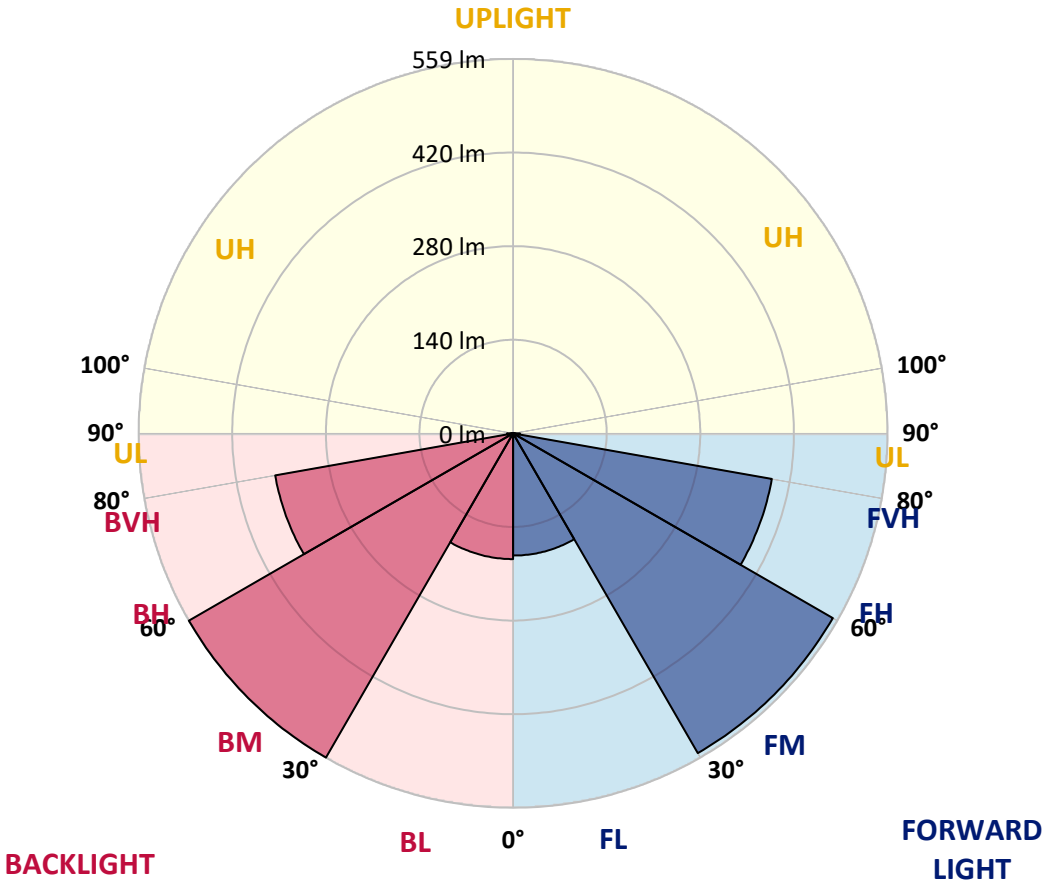
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	182.6	8.1			
FM	(30°-60°)	551.8	24.5			
FH	(60°-80°)	392.6	17.4			G0/660
FVH	(80°-90°)	10.3	0.5			G1/100
BL	(0°-30°)	187.9	8.3	B1/500		
BM	(30°-60°)	559.5	24.8	B1/1000		
BH	(60°-80°)	361.0	16.0	B1/500		G1/500
BVH	(80°-90°)	9.2	0.4			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 I Medium



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Scaled Data Report

REPORT NUMBER: P629084
CATALOG NUMBER: GWS-SA1A-830-U-T1-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	378.5	378.5	378.5	378.5	378.5	378.5	378.5	378.5	378.5	378.5	*378.5*
2.5°	379.6	379.3	378.5	380.9	380.4	380.6	381.5	380.9	379.8	377.8	*380.6*
5°	390.3	390.1	388.3	389.8	388.2	387.0	386.9	385.3	384.0	381.9	*384.8*
7.5°	400.7	400.5	399.0	401.6	400.3	399.0	397.6	394.3	391.3	388.2	*391.4*
10°	408.6	408.4	408.1	411.8	412.2	412.6	412.0	406.5	401.1	397.4	*400.7*
12.5°	413.1	413.6	414.4	421.2	424.6	427.9	428.7	424.1	415.2	409.9	*413.8*
15°	410.0	411.0	415.1	427.4	436.8	444.1	447.1	443.4	431.9	423.0	*427.4*
17.5°	395.3	396.1	404.1	422.8	443.6	460.4	465.4	463.2	450.4	439.5	*443.7*
20°	374.9	376.7	385.3	411.5	442.4	471.7	485.2	484.4	470.5	453.8	*458.8*
22.5°	356.4	358.5	367.6	396.6	434.8	474.7	505.1	507.2	488.8	468.0	*472.1*
25°	335.7	337.7	349.3	379.0	421.7	472.4	522.1	531.7	509.5	484.4	*488.1*
27.5°	314.5	316.0	327.5	359.0	404.5	468.2	535.6	558.6	529.9	495.7	*498.3*
30°	295.9	297.8	308.3	339.1	385.8	459.8	546.6	587.2	553.4	508.5	*510.6*
32.5°	277.9	279.5	291.0	319.5	365.8	446.8	556.4	620.9	588.2	532.3	*532.3*
35°	255.2	258.1	271.1	300.7	347.0	429.6	563.6	660.1	635.8	567.5	*567.6*
37.5°	234.3	236.0	249.6	279.5	327.3	410.2	564.2	700.7	696.0	612.2	*612.5*
40°	210.5	212.6	227.2	256.8	304.6	389.8	558.1	738.6	759.2	658.1	*656.4*
42.5°	186.4	189.5	203.4	232.4	280.2	364.9	541.7	774.7	839.4	711.4	*707.1*
45°	163.1	165.0	178.9	206.3	252.1	335.1	515.5	809.4	934.6	792.4	*786.1*
47.5°	136.8	137.7	152.1	178.3	223.2	301.9	477.9	840.3	1039.2	899.6	*888.8*
50°	113.5	114.7	126.0	148.5	187.7	262.5	431.1	858.5	1172.5	1045.8	*1027.1*
52.5°	91.8	93.0	102.0	120.0	155.1	217.7	373.1	854.3	1307.7	1227.4	*1200.0*
55°	74.2	75.0	81.1	95.2	122.1	173.1	304.6	816.5	1457.8	1464.5	*1405.5*
57.5°	62.7	63.0	67.2	75.8	95.4	133.4	235.1	727.5	1615.2	1767.0	*1670.1*
60°	56.0	56.2	58.1	63.5	75.3	101.9	172.3	585.6	1778.3	2145.5	*2012.7*
62.5°	51.8	51.8	53.4	56.5	62.5	78.4	126.6	420.6	1895.4	2557.3	*2425.3*
65°	47.8	47.8	48.9	51.5	54.7	64.0	95.1	271.3	1952.9	2901.6	*2872.3*
67.5°	*42.6*	*42.8*	*43.6*	*46.3*	*49.2*	*53.4*	*72.1*	*183.5*	*1833.5*	*2996.8*	*3145.1*
70°	37.7	37.9	39.0	40.8	43.2	46.2	56.4	126.5	1334.6	2495.9	*2812.2*
72.5°	32.4	33.0	33.8	35.8	37.2	39.4	46.0	81.9	776.5	1605.5	*1859.0*
75°	26.6	27.4	28.3	30.3	31.3	32.1	37.9	58.5	373.6	813.6	*926.5*
77.5°	20.6	21.4	22.5	24.3	24.9	25.9	29.0	42.3	178.9	360.7	*388.8*
80°	13.8	14.1	15.1	17.2	18.3	18.9	21.4	28.8	77.7	144.8	*143.5*
82.5°	8.4	8.6	8.9	10.2	10.7	11.3	13.9	17.7	37.1	164.5	*188.7*
85°	3.1	2.9	2.8	3.6	4.2	4.9	6.5	8.9	16.2	113.0	*126.5*
87.5°	0.0	0.0	0.0	0.2	0.3	0.3	0.6	1.3	3.9	42.3	*29.0*
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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Scaled Data Report

REPORT NUMBER: P629084
CATALOG NUMBER: GWS-SA1A-830-U-T1-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	378.5	378.5	378.5	378.5	378.5	378.5	378.5	378.5	378.5	378.5	378.5
2.5°	379.8	378.0	380.2	381.9	385.4	386.7	387.0	385.9	385.9	384.0	384.3
5°	384.1	383.0	386.7	389.5	394.7	396.6	397.9	397.1	397.6	396.3	396.6
7.5°	390.8	389.8	396.3	401.6	407.0	409.2	410.4	409.7	409.9	408.3	408.8
10°	400.0	400.3	408.1	415.1	422.2	424.5	424.9	423.0	421.4	418.5	418.6
12.5°	412.6	414.3	425.3	433.0	440.3	443.6	440.0	432.9	426.2	421.2	420.6
15°	426.4	429.3	445.2	455.1	463.0	461.4	450.9	434.8	421.7	414.3	412.8
17.5°	442.9	447.3	467.2	479.0	485.8	475.5	453.4	429.5	411.2	401.1	399.2
20°	458.5	465.4	490.5	505.9	506.7	483.4	452.3	418.6	395.6	383.3	380.7
22.5°	472.7	481.6	515.0	534.6	524.1	487.0	445.4	403.2	376.8	362.4	360.2
25°	488.3	500.9	543.5	561.8	541.4	485.5	430.8	384.1	354.2	339.4	337.8
27.5°	499.0	514.8	572.2	589.6	555.6	477.3	412.0	363.2	333.4	319.5	317.3
30°	511.3	531.5	603.7	619.9	564.4	465.1	391.9	343.8	314.2	299.1	297.5
32.5°	533.6	559.0	642.9	652.0	567.1	450.0	372.6	325.0	294.1	279.0	276.8
35°	569.6	599.4	698.0	687.8	565.0	433.5	354.3	303.0	273.5	259.4	257.2
37.5°	614.9	652.0	759.4	720.0	559.2	415.4	332.6	284.5	255.1	240.8	239.5
40°	657.2	702.8	828.2	747.9	547.4	393.0	311.7	265.3	235.1	220.1	217.2
42.5°	710.1	770.9	907.9	772.0	527.9	366.3	288.3	241.5	210.2	196.6	193.0
45°	790.6	866.1	1000.5	795.2	499.0	333.4	258.8	212.5	182.8	168.9	166.2
47.5°	891.0	985.1	1100.9	808.9	454.9	298.8	225.4	181.9	152.2	136.5	135.2
50°	1032.1	1158.2	1208.6	806.5	405.7	257.7	187.9	145.4	120.6	109.3	107.5
52.5°	1203.9	1375.6	1325.0	777.3	353.4	210.9	146.4	114.2	95.7	87.6	86.2
55°	1419.5	1635.8	1447.6	714.8	287.3	161.5	115.0	90.0	77.4	72.6	71.9
57.5°	1686.3	1972.8	1565.7	609.6	216.0	123.2	88.6	74.3	68.3	65.4	65.3
60°	2038.6	2330.6	1668.2	473.7	154.7	94.3	73.2	66.4	61.7	59.8	59.6
62.5°	2457.4	2655.4	1732.0	322.6	116.3	75.1	64.5	60.2	57.5	56.4	56.2
65°	2887.8	2860.8	1701.6	211.3	88.3	63.8	57.8	55.5	53.1	52.0	52.0
67.5°	*3142.1*	*2817.4*	*1467.9*	*146.7*	*70.0*	*56.0*	*52.1*	*50.0*	*46.0*	*45.0*	*45.0*
70°	2783.0	2282.9	962.1	107.4	56.7	49.1	45.3	42.4	40.8	39.8	39.7
72.5°	1840.7	1485.5	511.6	74.5	47.3	41.8	38.4	37.2	35.3	34.3	34.2
75°	916.1	780.3	262.2	53.8	39.4	33.5	32.1	31.6	30.0	28.7	28.3
77.5°	381.9	347.4	122.3	39.0	30.0	27.0	25.7	25.7	24.0	22.5	21.9
80°	144.0	128.3	57.8	26.7	22.2	20.1	19.3	18.6	17.2	15.4	14.4
82.5°	192.6	125.8	28.3	16.7	14.6	13.0	11.8	11.3	10.5	9.7	9.1
85°	124.7	89.4	12.8	8.6	7.3	5.5	4.9	4.5	4.0	3.6	3.2
87.5°	25.4	30.0	3.9	1.6	1.0	0.5	0.5	0.2	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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Peachtree City, GA 30269

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

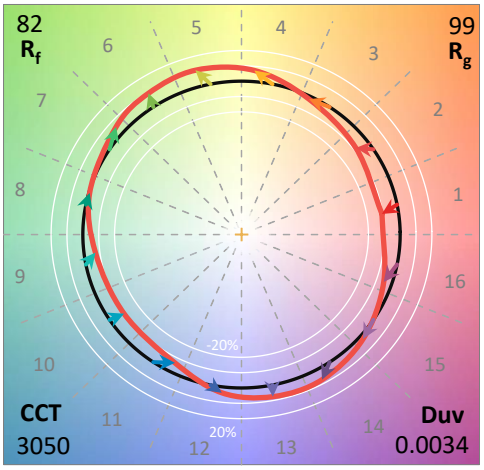
Test Information

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

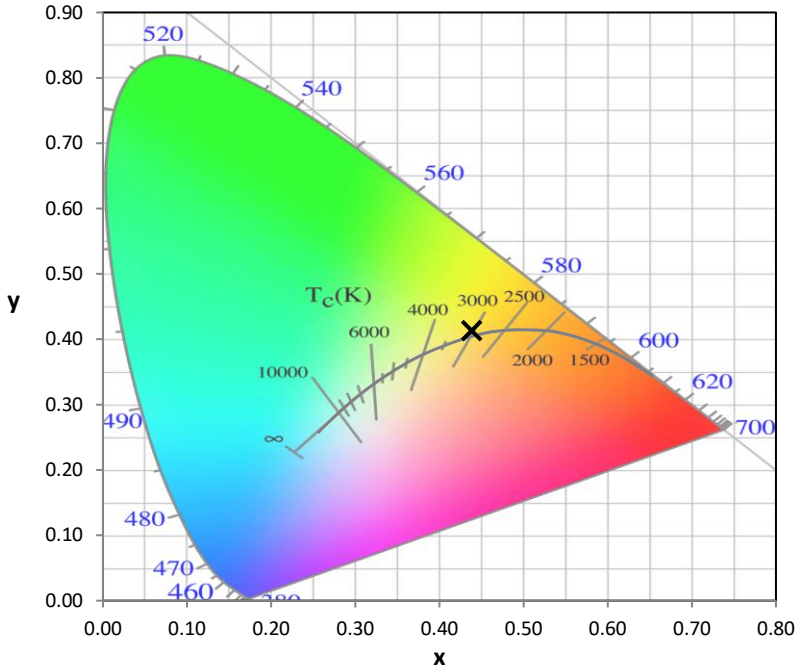
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

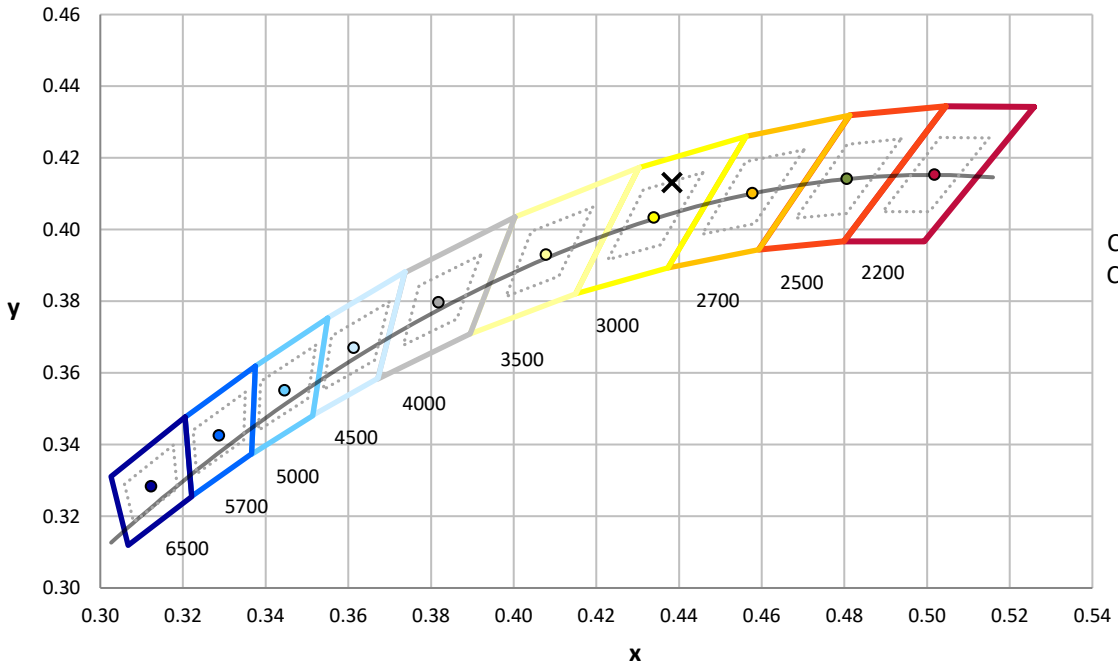
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

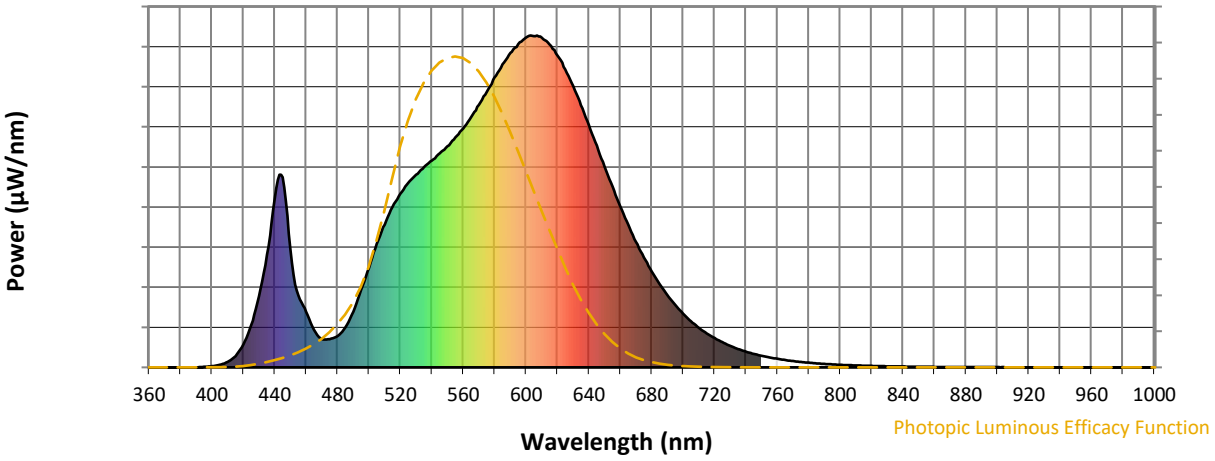


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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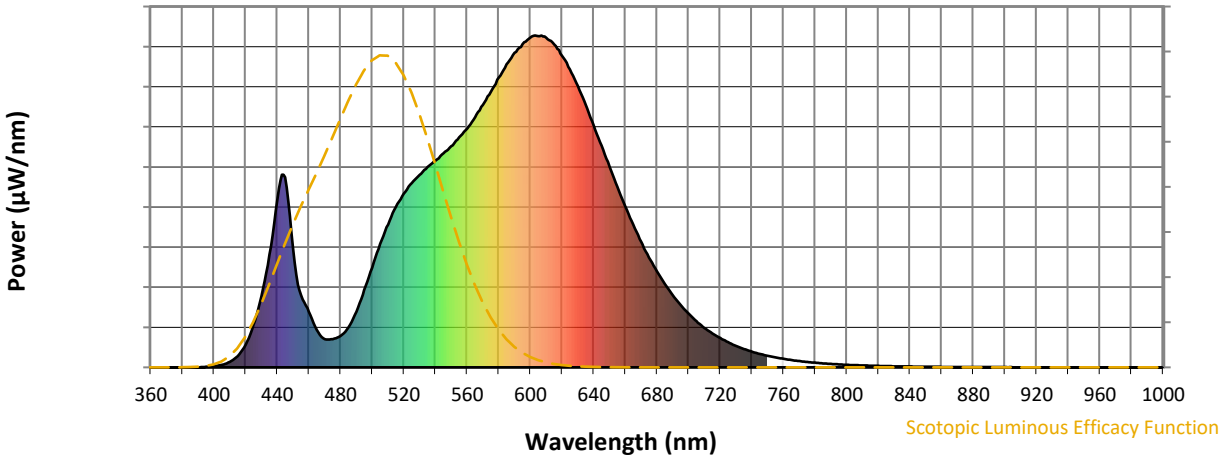
Scotopic Flux vs. Wavelength



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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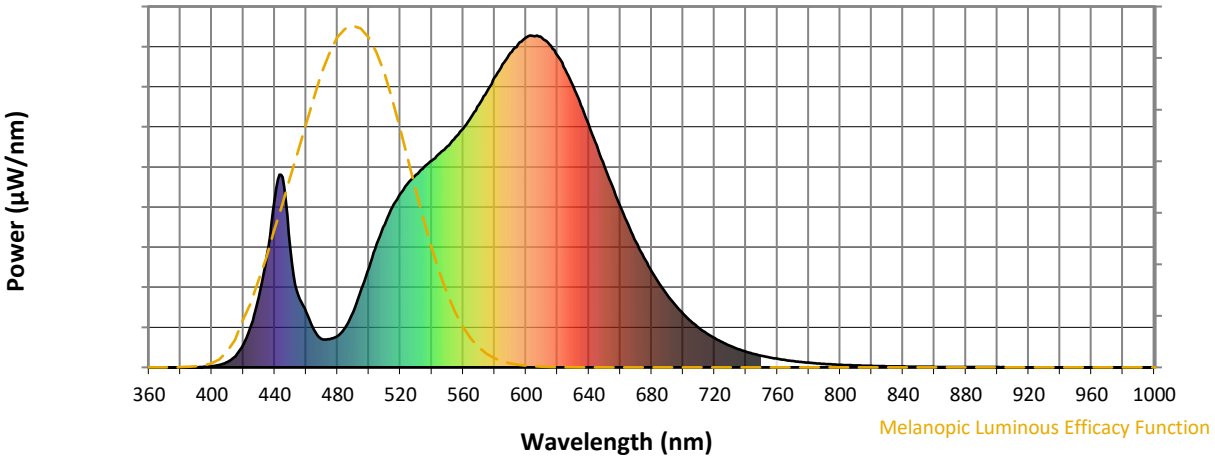
Melanopic Flux vs. Wavelength



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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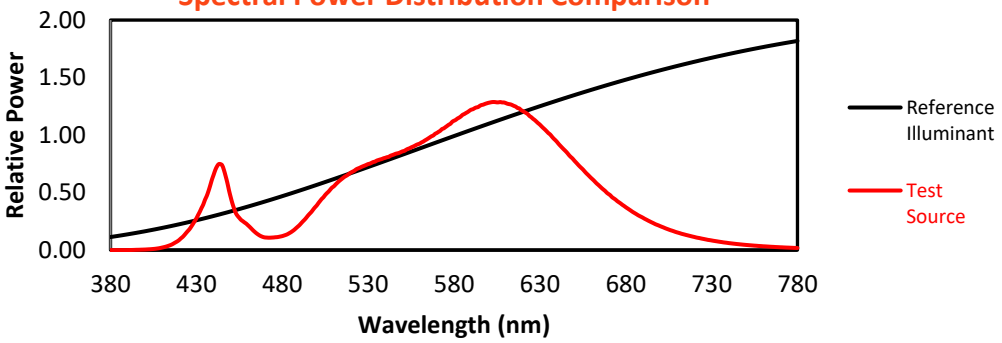
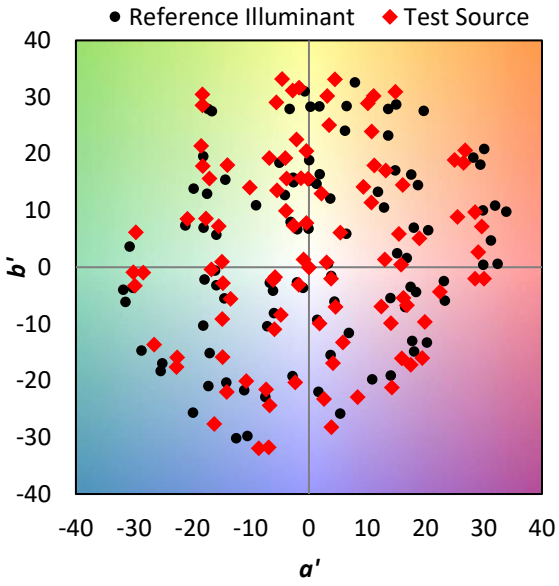
Summary

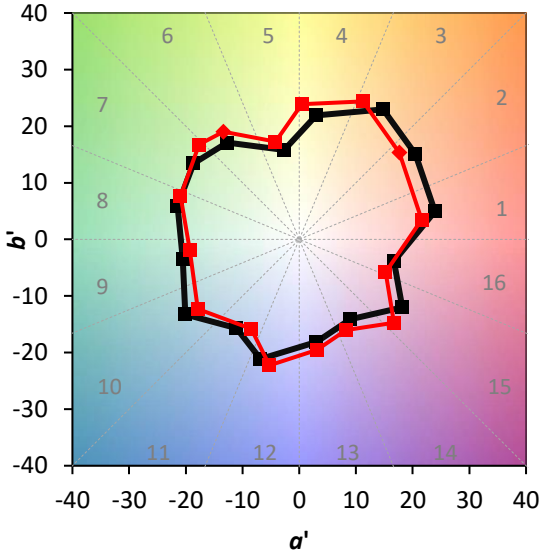
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

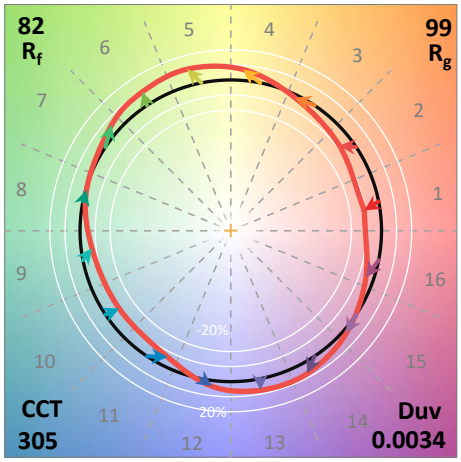
Spectral Power Distribution Comparison

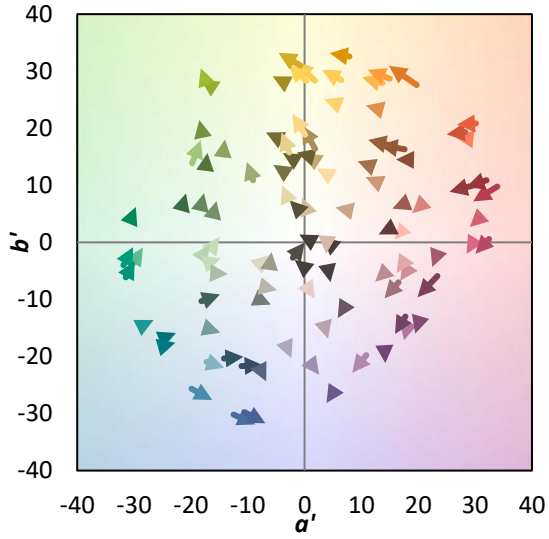


Color Vector Graphics









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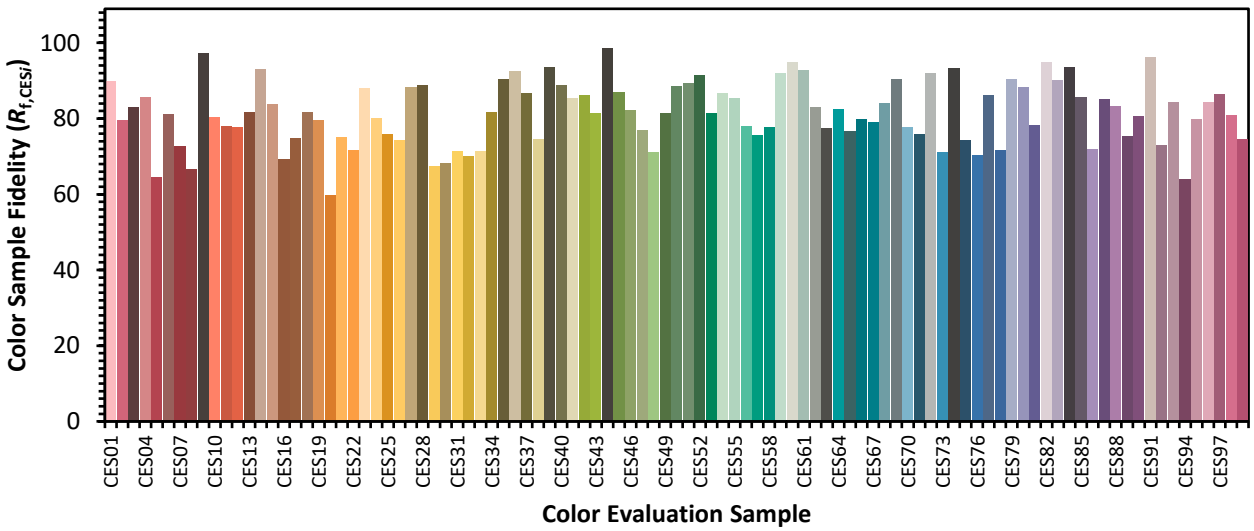
Individual Sample Fidelity Index ($R_{f,i}$)

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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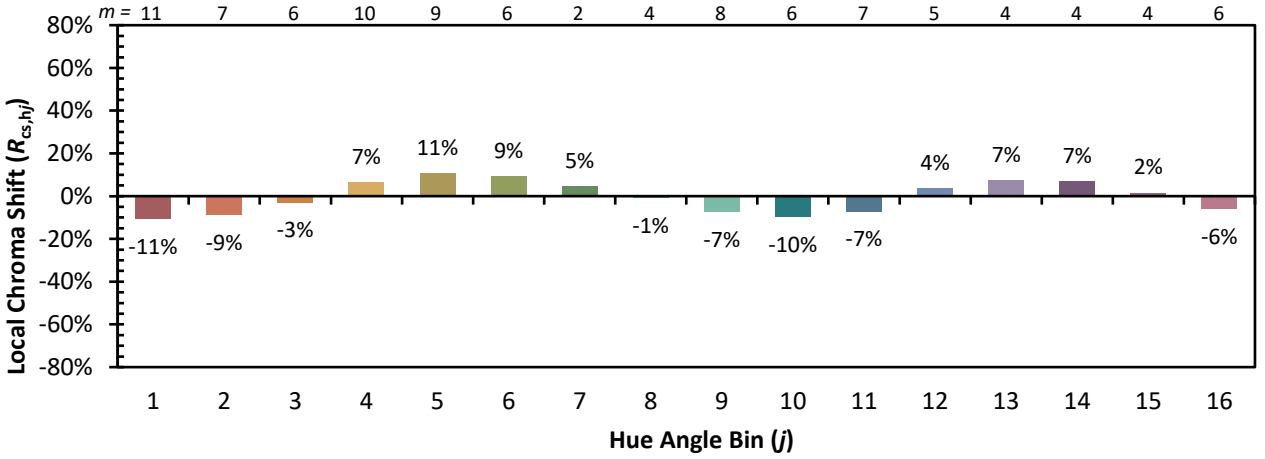
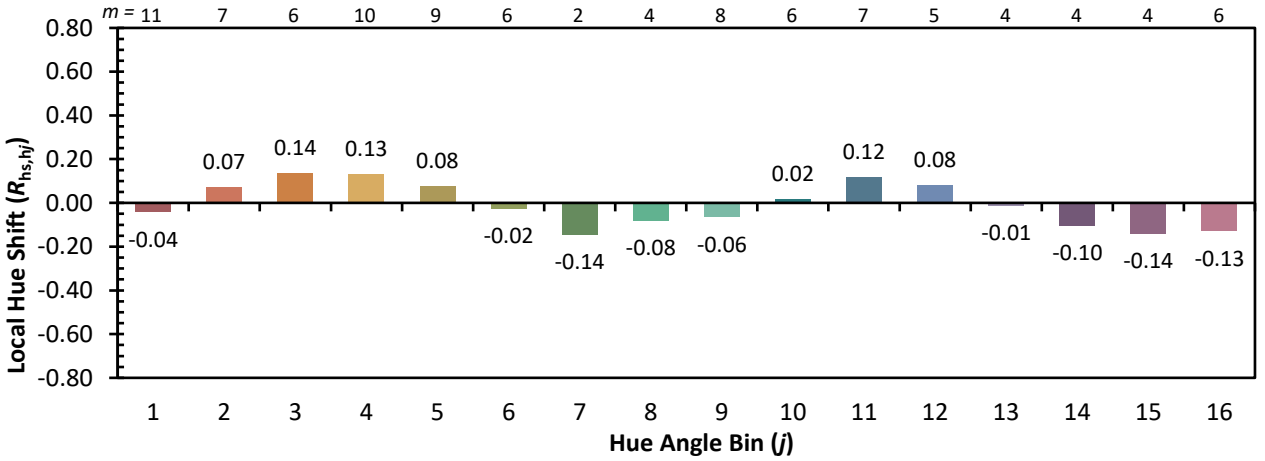
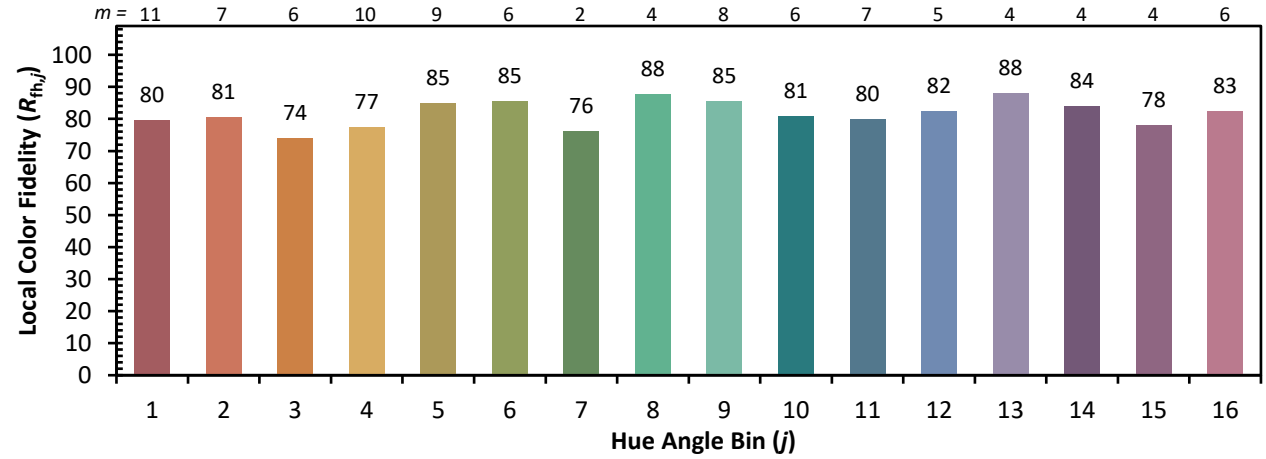
Color Rendition by Hue-Angle Bin







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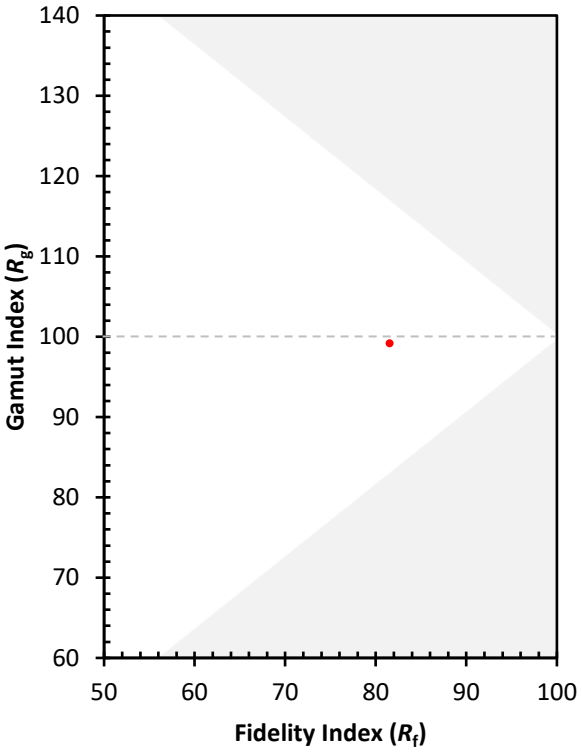
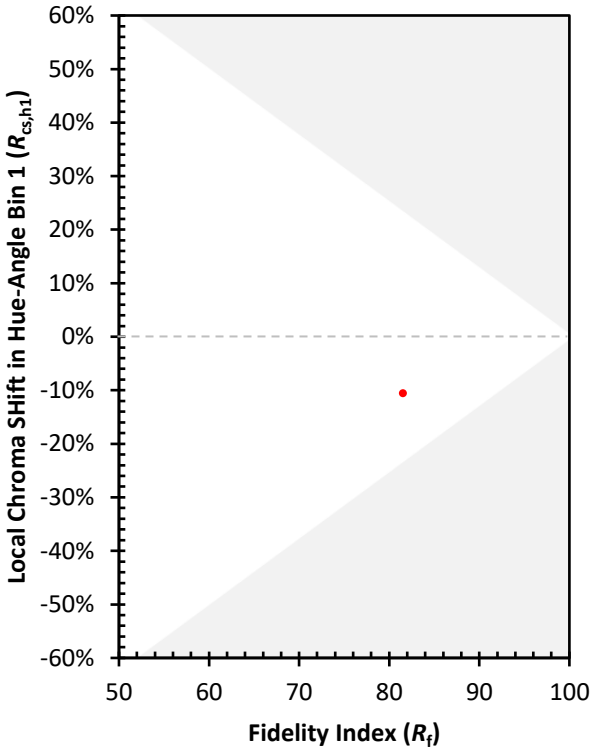
Measure Comparisons





(END OF REPORT)