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: P629102

Luminaire Tested: GWS-SA1A-830-U-T4FT-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:	P629102
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1A-830-U-T4FT-W
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2182 lumens
Efficiency:	N/A
Efficacy:	110.8 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type IV - 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: P629102
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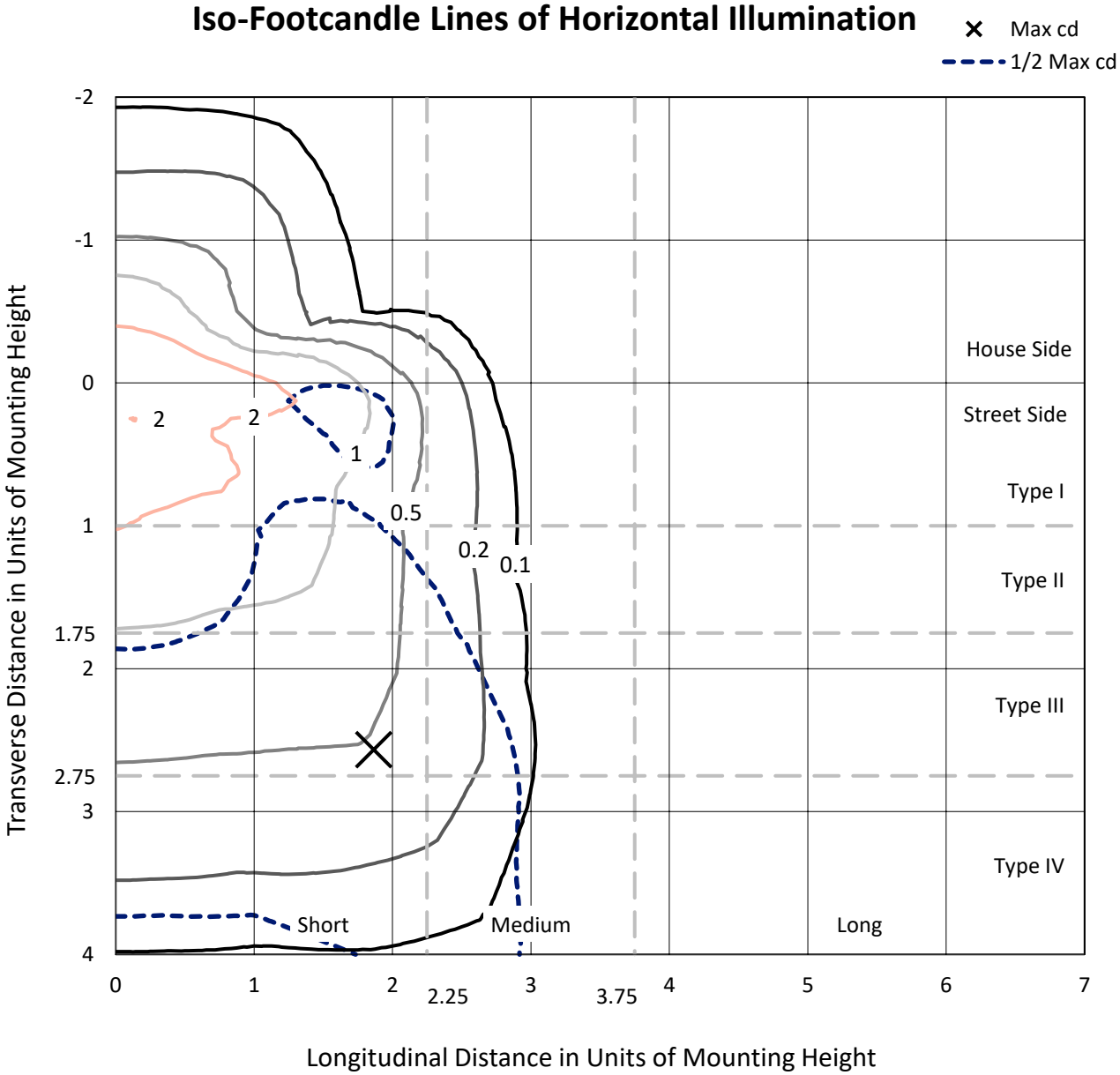
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
Type IV - Short - N/A

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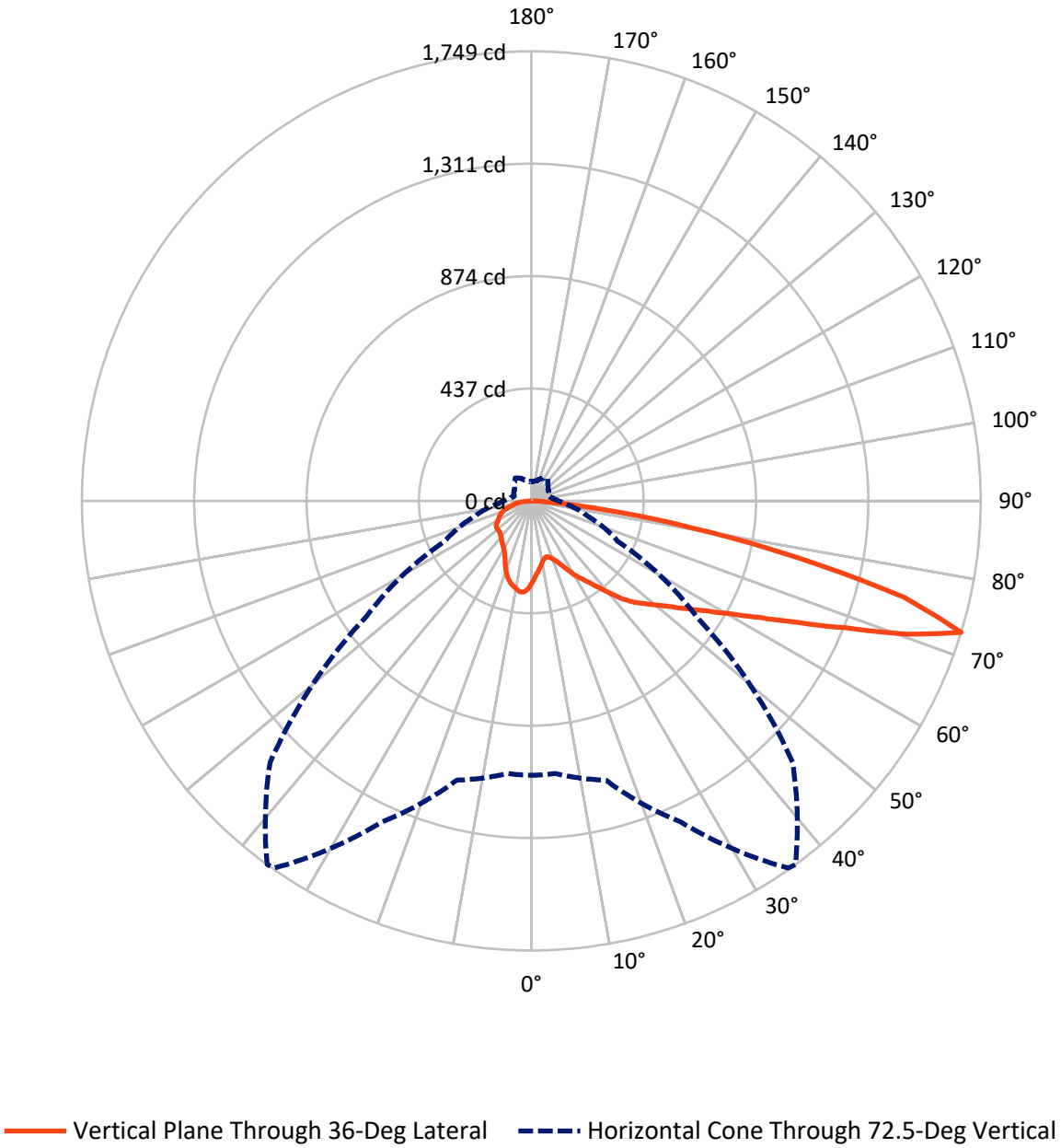
Luminous Intensity Polar Plot



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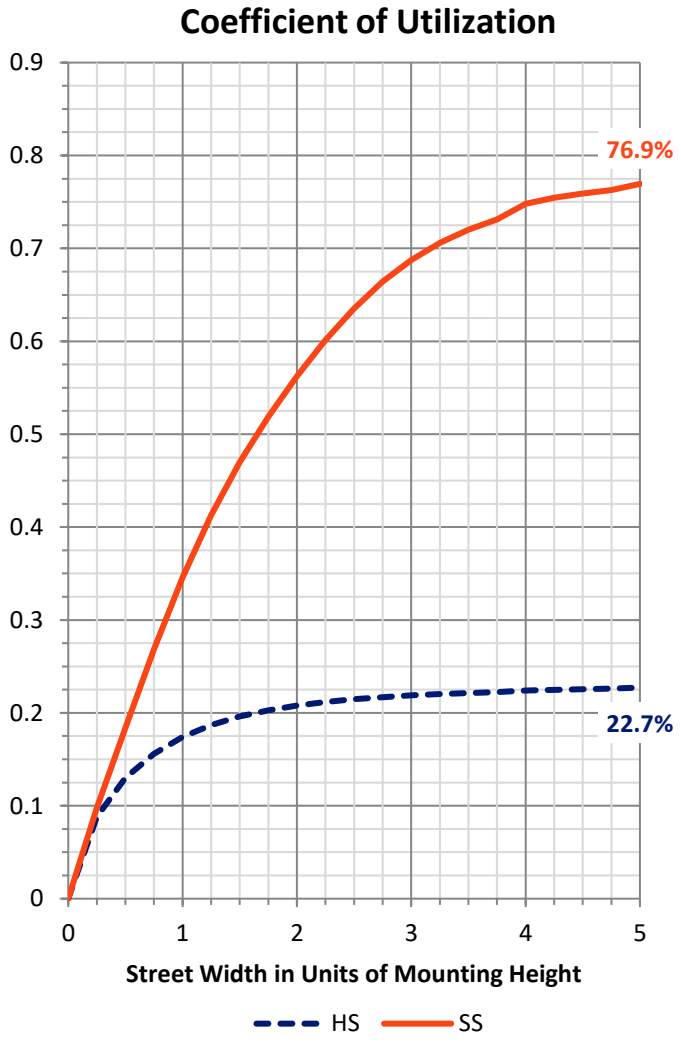
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	503.1	0.0	503.1
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	1678.9	0.0	1678.9
	% Fixture	76.9	0.0	76.9
Total	Lumens	2182.0	0.0	2182.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.8	1.4
10°-20°	84.2	3.9
20°-30°	139.5	6.4
30°-40°	208.9	9.6
40°-50°	304.7	14.0
50°-60°	433.7	19.9
60°-70°	548.0	25.1
70°-80°	390.5	17.9
80°-90°	42.6	2.0
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°	2182.0	100.0
0°-180°	2182.0	100.0



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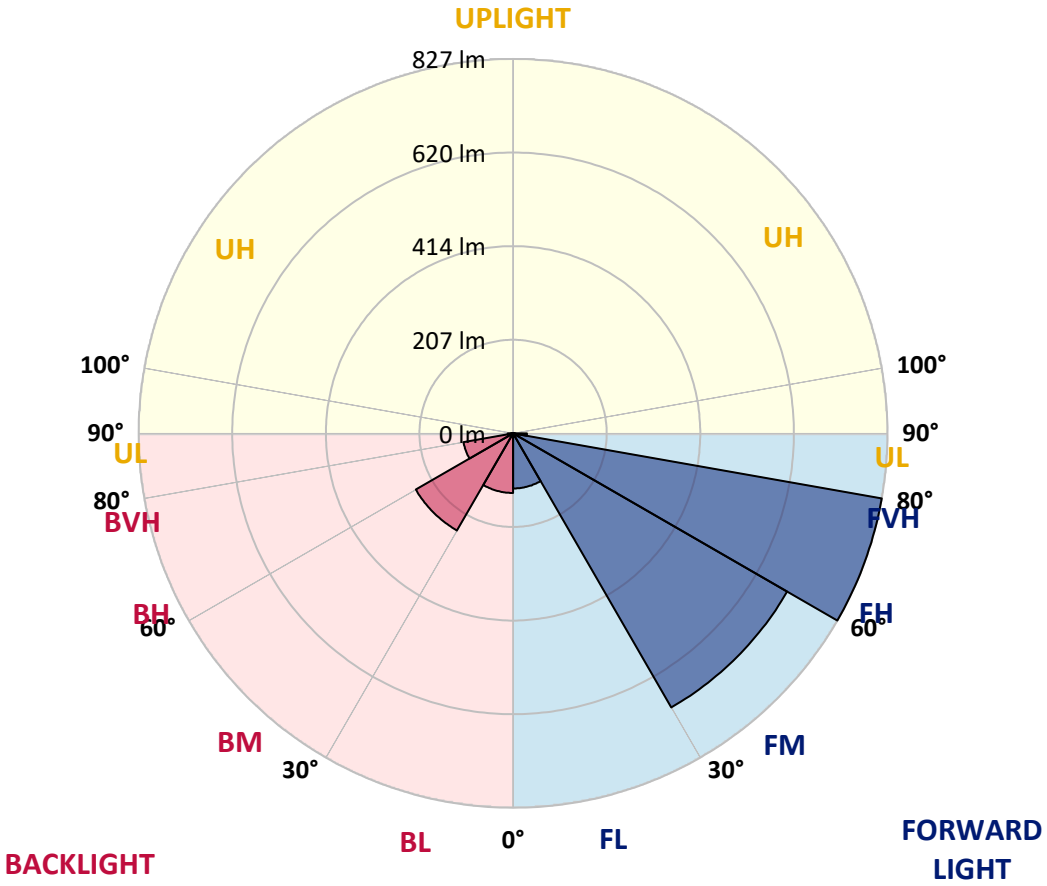
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	121.8	5.6			
FM	(30°-60°)	699.3	32.0			
FH	(60°-80°)	827.3	37.9			G1/1800
FVH	(80°-90°)	30.6	1.4			G1/100
BL	(0°-30°)	131.7	6.0	B1/500		
BM	(30°-60°)	248.1	11.4	B1/1000		
BH	(60°-80°)	111.2	5.1	B1/500		G1/500
BVH	(80°-90°)	12.0	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
Type IV Short



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REPORT NUMBER: P629102
CATALOG NUMBER: GWS-SA1A-830-U-T4FT-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3
2.5°	291.3	290.8	289.9	292.8	295.7	295.4	299.4	303.3	307.5	311.9	317.7
5°	268.0	267.7	266.9	271.2	275.6	275.5	282.1	288.4	297.0	306.4	318.0
7.5°	244.7	243.9	245.0	250.5	256.7	257.3	266.4	276.8	289.2	303.3	319.8
10°	224.1	224.0	224.4	230.6	239.8	240.5	252.1	266.6	283.1	301.9	323.9
12.5°	218.8	218.5	217.2	220.2	227.2	228.2	241.0	258.6	278.9	302.7	329.4
15°	227.5	226.7	222.2	220.7	224.1	224.9	235.8	253.9	276.4	304.1	336.3
17.5°	242.6	242.1	233.5	227.5	229.8	230.4	238.5	253.1	275.8	307.0	344.9
20°	264.6	262.5	249.1	240.0	240.0	241.0	245.8	256.7	276.6	310.6	354.6
22.5°	293.8	289.5	270.6	258.3	255.1	256.4	258.5	265.6	280.0	316.6	366.8
25°	326.5	322.6	300.1	282.7	278.2	278.7	276.9	278.2	287.4	324.9	381.9
27.5°	361.3	358.7	334.7	312.7	305.6	305.6	299.3	296.2	297.8	334.2	398.7
30°	392.4	388.8	368.6	344.4	335.1	335.1	323.1	316.4	312.5	345.7	421.2
32.5°	408.7	406.6	393.2	374.7	363.2	361.4	351.1	343.3	334.2	362.7	451.7
35°	430.1	429.6	421.5	407.1	392.5	390.0	382.8	376.7	361.0	384.0	492.1
37.5°	457.0	456.2	454.9	446.3	428.8	428.3	422.0	414.6	394.2	414.6	541.2
40°	487.1	485.7	484.0	483.9	473.4	471.6	471.1	462.7	434.2	451.5	592.4
42.5°	528.6	523.6	508.3	515.1	522.9	521.3	527.4	514.8	484.0	495.4	640.8
45°	579.6	567.3	537.2	539.1	558.7	561.9	583.3	580.2	538.9	546.1	691.8
47.5°	610.2	599.5	571.5	569.9	594.3	598.4	644.8	650.7	598.0	607.1	754.8
50°	635.3	627.8	604.8	607.1	633.0	637.1	705.9	718.4	653.8	669.6	828.0
52.5°	665.6	654.9	637.1	647.8	679.5	684.4	773.7	787.2	704.0	738.3	903.8
55°	682.6	678.2	678.5	694.9	734.7	741.4	844.8	842.6	749.9	797.1	960.8
57.5°	721.8	720.1	735.0	741.2	799.2	807.8	915.9	896.5	791.7	842.6	988.2
60°	790.9	786.9	799.8	809.2	878.8	891.0	995.3	949.3	820.1	876.4	978.9
62.5°	888.1	883.1	883.5	898.4	985.6	998.4	1083.5	993.3	828.8	881.6	920.5
65°	1008.9	1001.6	993.3	1013.6	1127.3	1138.0	1179.6	1025.4	807.9	831.7	798.4
67.5°	1136.3	1130.3	1120.6	1163.1	1310.7	1317.2	1287.3	1022.7	741.7	698.3	560.0
70°	1143.8	1145.2	1191.2	1344.7	1550.3	1551.9	1389.1	967.3	600.6	452.6	279.0
72.5°	1067.0	1064.6	1124.5	1377.9	1743.0	1748.5	1437.2	783.6	371.2	225.7	130.8
75°	866.7	870.9	933.9	1205.6	1493.9	1498.8	1171.6	462.0	176.4	110.4	83.7
77.5°	373.1	396.6	520.8	849.4	1069.9	1054.9	603.9	187.2	94.1	78.7	64.1
80°	107.7	116.9	185.6	403.9	641.1	629.8	239.0	70.1	65.6	59.1	46.0
82.5°	34.8	38.5	68.0	160.8	287.3	287.0	90.7	41.5	42.9	40.2	29.6
85°	9.7	11.2	20.9	48.7	88.9	87.1	26.2	19.6	22.8	23.2	14.7
87.5°	0.0	0.0	0.2	0.3	0.3	0.3	0.6	2.9	6.6	8.4	6.0
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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REPORT NUMBER: P629102
CATALOG NUMBER: GWS-SA1A-830-U-T4FT-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3
2.5°	321.3	320.8	327.4	332.6	337.5	340.7	341.7	342.3	343.6	344.3	343.6
5°	323.6	326.0	337.0	345.1	351.6	355.5	355.6	355.3	356.3	355.5	355.0
7.5°	328.4	333.1	347.0	355.6	359.8	360.0	356.1	351.6	349.3	347.4	346.7
10°	334.9	341.9	357.1	362.7	361.4	355.5	346.9	339.7	335.7	332.8	332.1
12.5°	343.8	351.6	366.0	365.8	357.7	347.0	337.0	328.4	322.6	319.2	318.0
15°	352.2	362.1	372.5	364.9	352.1	339.1	326.1	314.6	306.9	301.5	300.6
17.5°	362.6	373.1	377.2	361.8	344.9	328.3	310.9	295.9	285.3	279.0	278.5
20°	374.6	384.0	379.4	356.4	335.7	313.8	290.4	273.5	262.2	256.0	256.5
22.5°	388.5	395.3	380.1	349.1	322.9	293.4	267.2	251.0	243.4	240.2	240.3
25°	403.4	407.8	378.9	339.3	303.3	268.5	243.4	235.9	235.3	234.5	234.8
27.5°	421.0	420.1	375.5	325.3	276.9	239.5	226.7	228.7	231.3	230.9	231.3
30°	444.7	435.5	371.2	306.1	245.5	215.2	216.8	222.3	225.7	226.1	227.0
32.5°	471.7	452.5	364.2	279.8	215.5	201.6	207.6	214.2	218.3	219.1	220.4
35°	504.0	471.9	351.9	247.1	194.0	193.5	199.0	203.6	207.9	208.3	208.3
37.5°	541.0	491.3	332.3	211.0	180.7	186.6	191.7	192.7	193.8	192.9	193.4
40°	575.0	510.1	304.4	178.1	169.9	180.4	184.8	181.5	178.0	175.5	176.0
42.5°	603.5	522.9	267.5	155.1	158.9	174.9	178.3	171.7	164.7	160.2	160.8
45°	635.6	534.7	224.1	139.6	149.5	171.0	173.3	164.7	155.8	149.0	148.0
47.5°	679.8	558.9	185.6	128.7	142.8	168.9	172.6	161.0	149.3	139.1	138.0
50°	734.4	593.0	153.4	121.6	139.8	167.8	172.5	156.9	143.0	131.0	130.2
52.5°	794.0	626.4	129.6	116.1	136.7	164.4	171.7	152.4	136.4	123.4	122.4
55°	833.7	639.5	113.5	110.9	131.7	159.0	168.4	148.0	126.3	114.5	113.0
57.5°	845.3	622.7	102.3	106.2	125.2	151.6	162.3	138.8	120.2	110.8	109.6
60°	825.2	580.2	95.4	102.3	118.1	142.0	151.6	133.4	115.3	106.9	106.1
62.5°	768.6	514.8	90.0	98.3	110.8	132.0	144.8	127.0	110.0	103.3	102.2
65°	654.6	422.2	85.7	94.1	103.8	122.4	137.3	120.5	104.1	99.1	97.8
67.5°	457.8	296.5	81.0	89.1	96.8	113.2	129.6	114.5	98.1	94.4	93.1
70°	223.8	157.2	75.3	83.2	89.4	103.8	121.8	107.2	90.2	88.1	86.3
72.5°	*106.6*	*87.9*	*68.7*	*75.3*	*79.2*	*91.3*	*108.8*	*96.7*	*80.8*	*76.3*	*73.2*
75°	71.4	62.5	59.9	65.9	66.9	76.6	93.3	83.4	71.3	66.1	63.5
77.5°	54.1	47.8	50.4	55.7	53.8	63.0	76.8	74.3	64.3	59.6	58.3
80°	38.1	34.8	40.0	43.2	41.8	53.6	69.1	63.6	53.0	47.8	46.8
82.5°	24.0	23.3	29.5	30.0	30.4	42.4	56.8	50.0	41.1	33.8	31.4
85°	12.0	13.3	17.7	17.7	17.5	21.9	32.4	28.2	22.2	17.7	17.2
87.5°	4.0	5.7	7.6	6.2	4.7	3.7	4.2	5.2	5.5	5.3	5.3
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

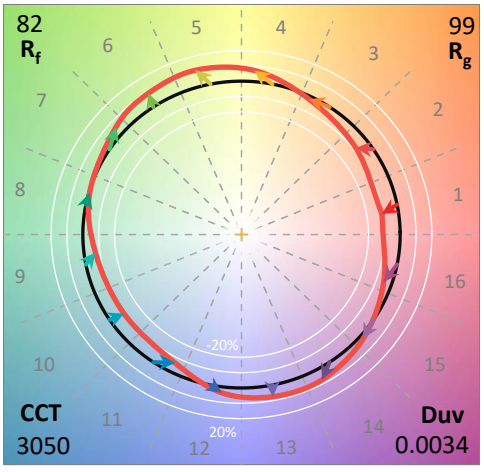
Test Information

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

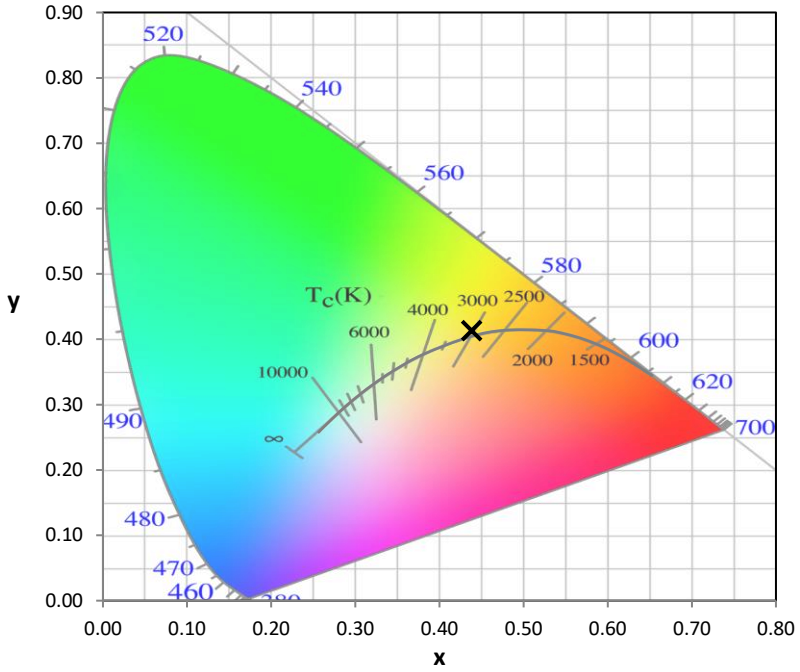
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

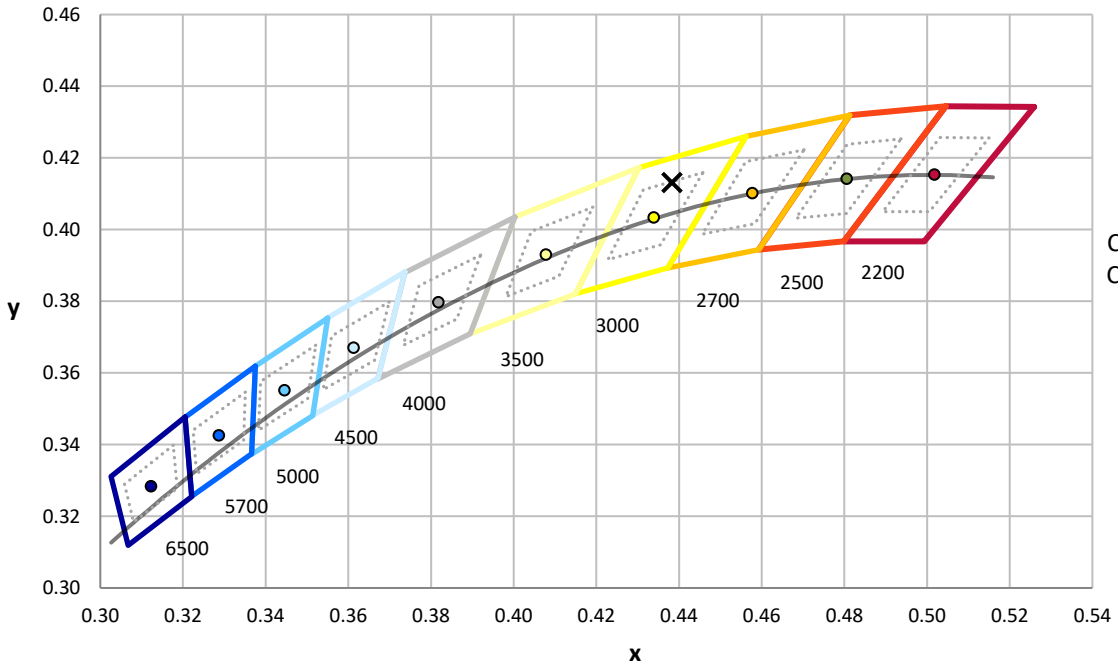
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

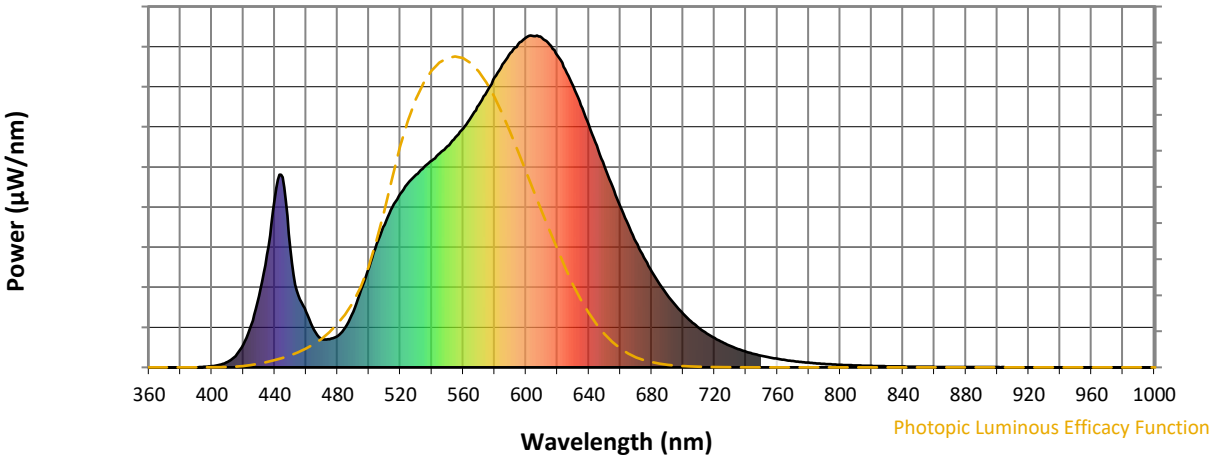


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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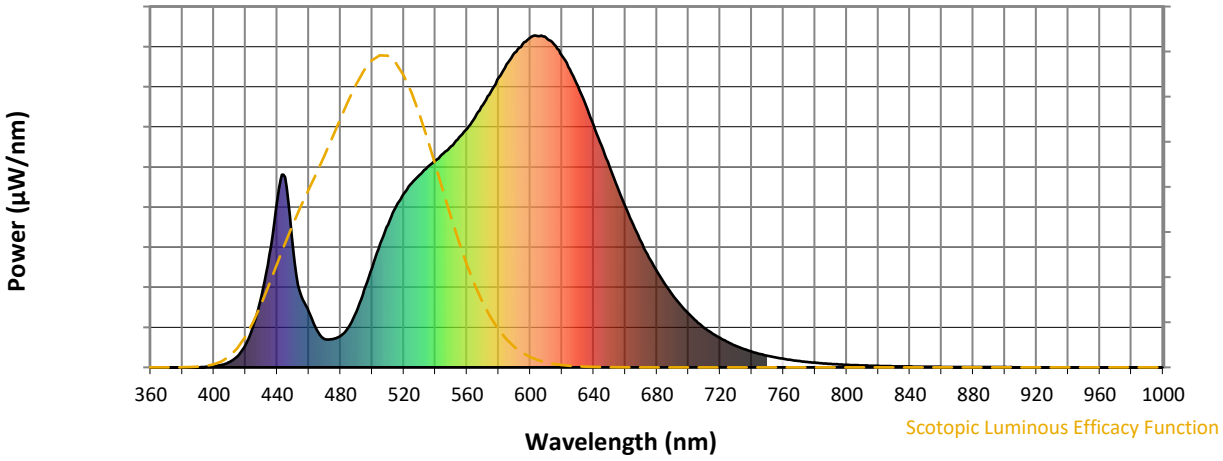
Scotopic Flux vs. Wavelength



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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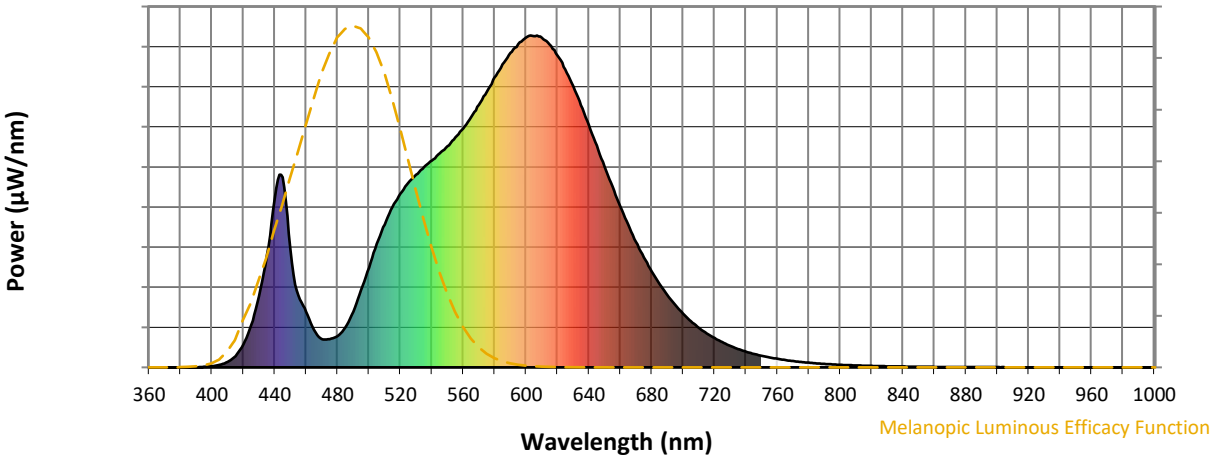
Melanopic Flux vs. Wavelength



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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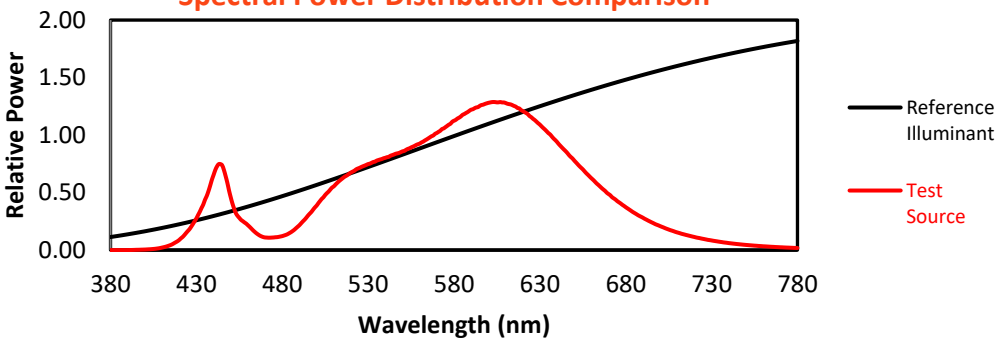
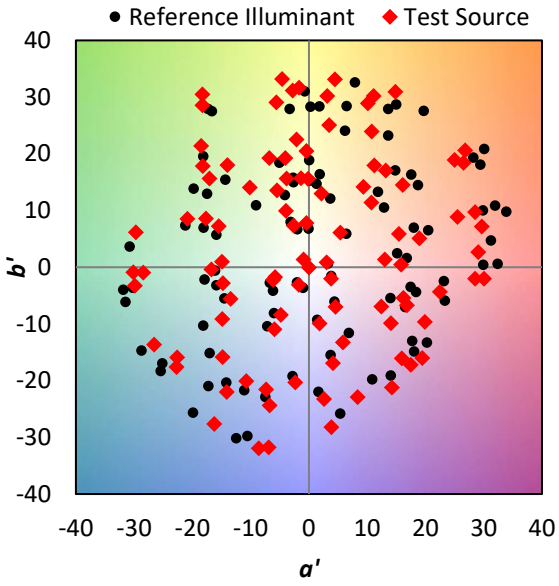
Summary

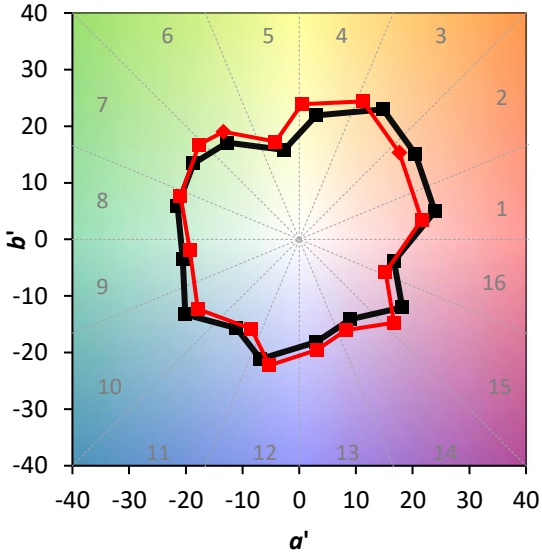
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

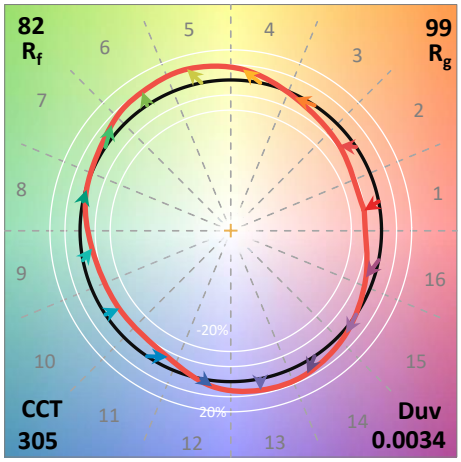
Spectral Power Distribution Comparison

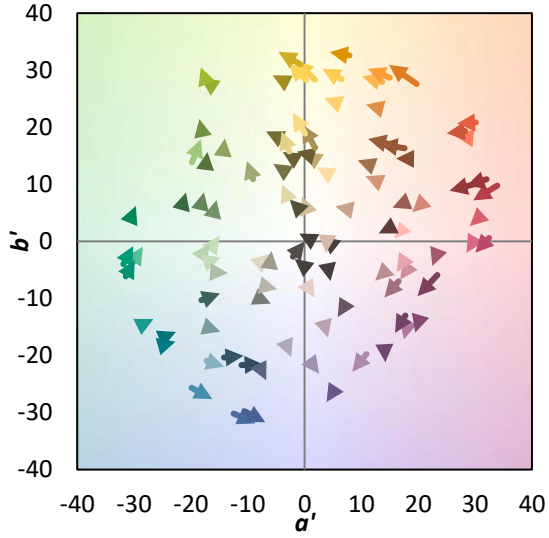


Color Vector Graphics









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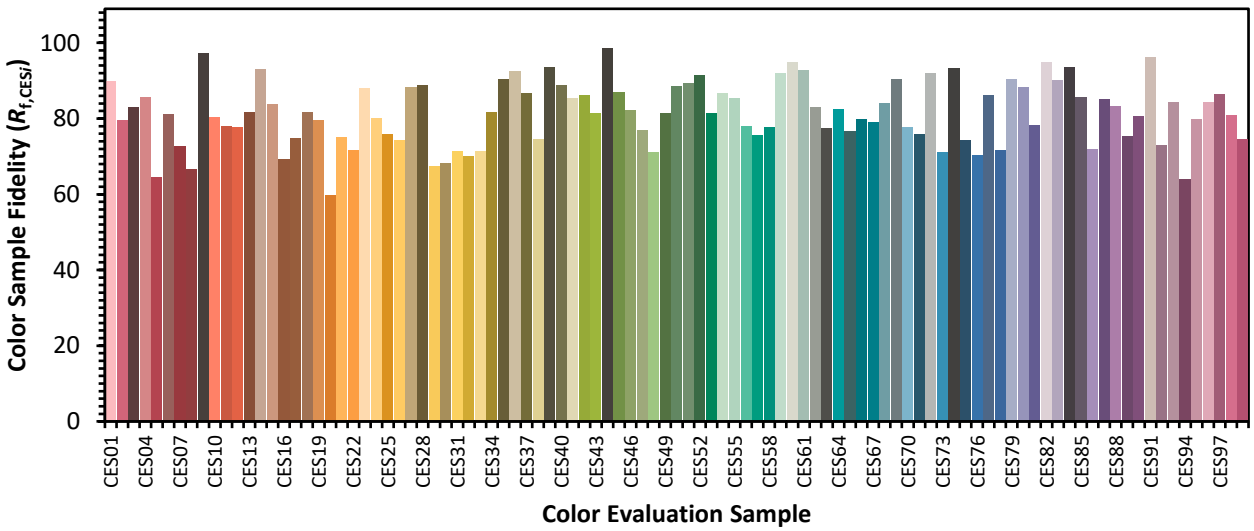
Individual Sample Fidelity Index ($R_{f,i}$)

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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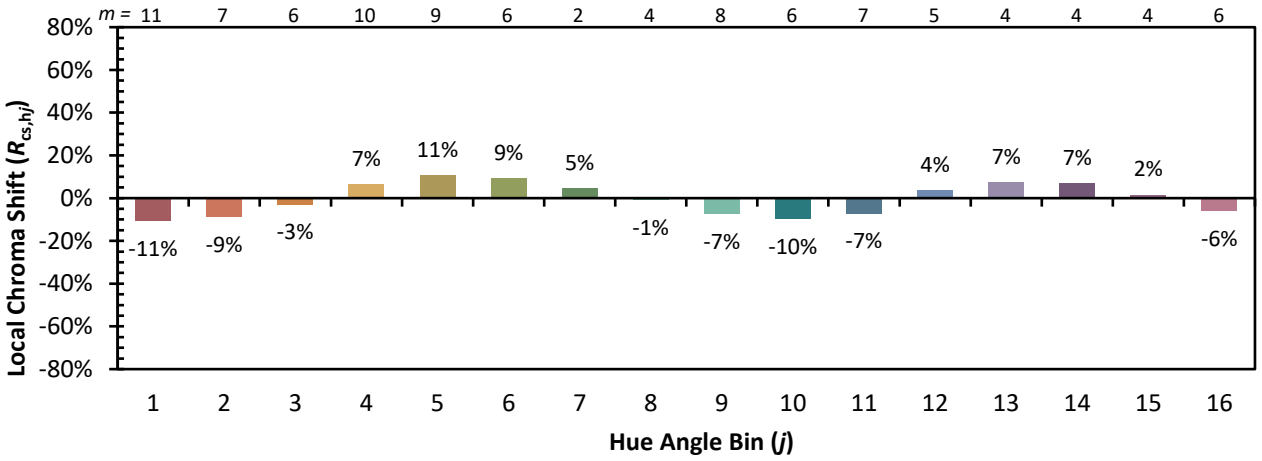
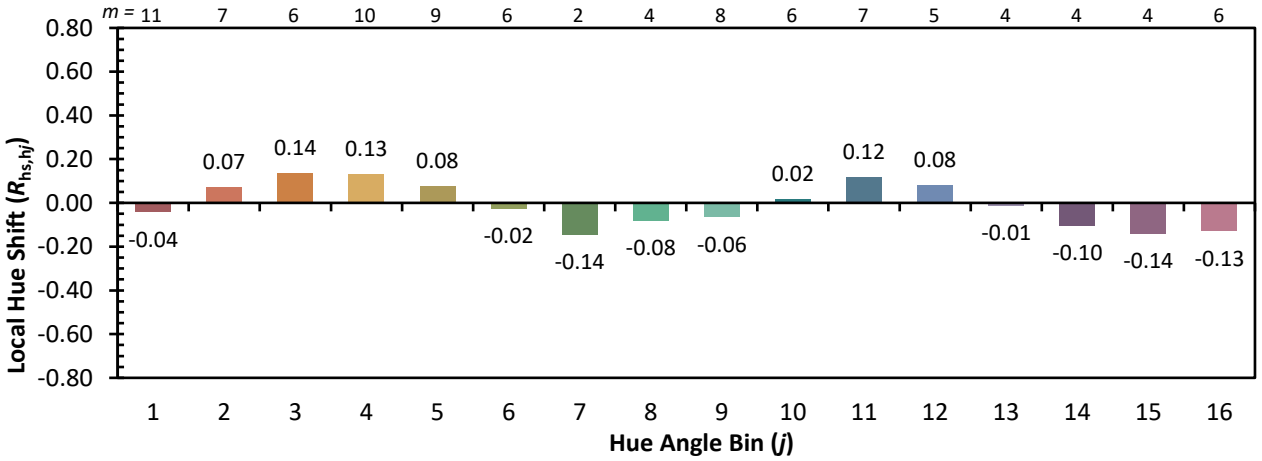
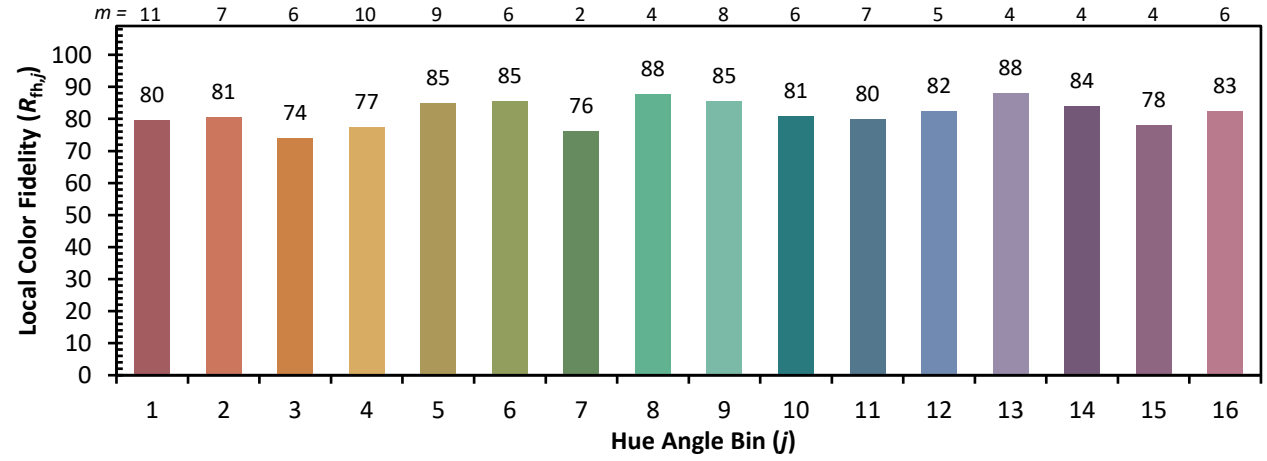
Color Rendition by Hue-Angle Bin







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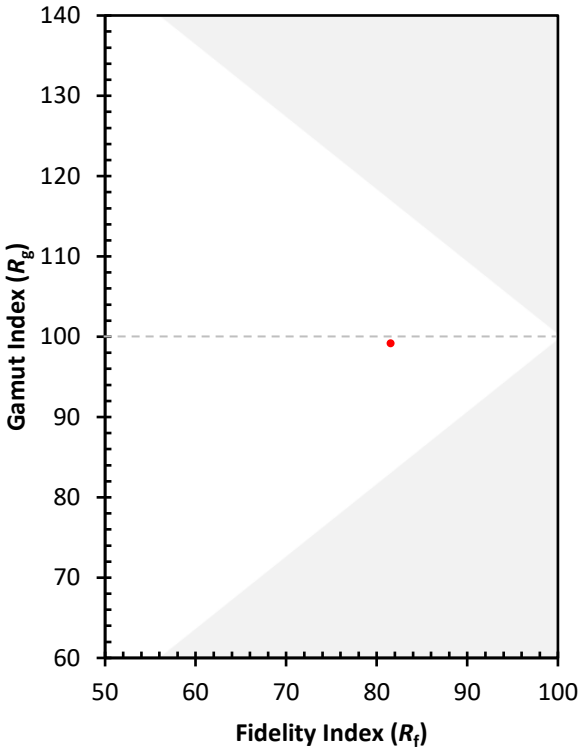
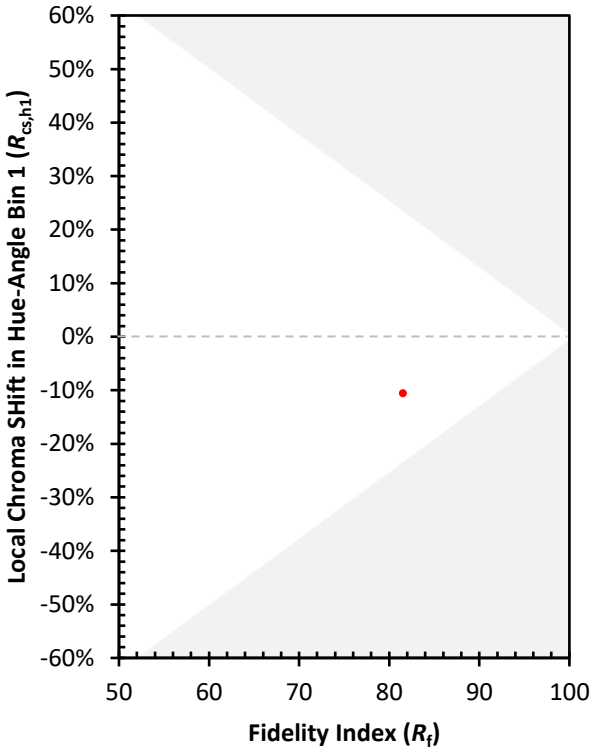
Measure Comparisons





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