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: P630074

Luminaire Tested: GWS-SA1C-830-U-T2-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:	P630074
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1C-830-U-T2-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSLLED GLARE SHIELD, WH
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3183.4 lumens
Efficiency:	N/A
Efficacy:	93.4 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):	34.1
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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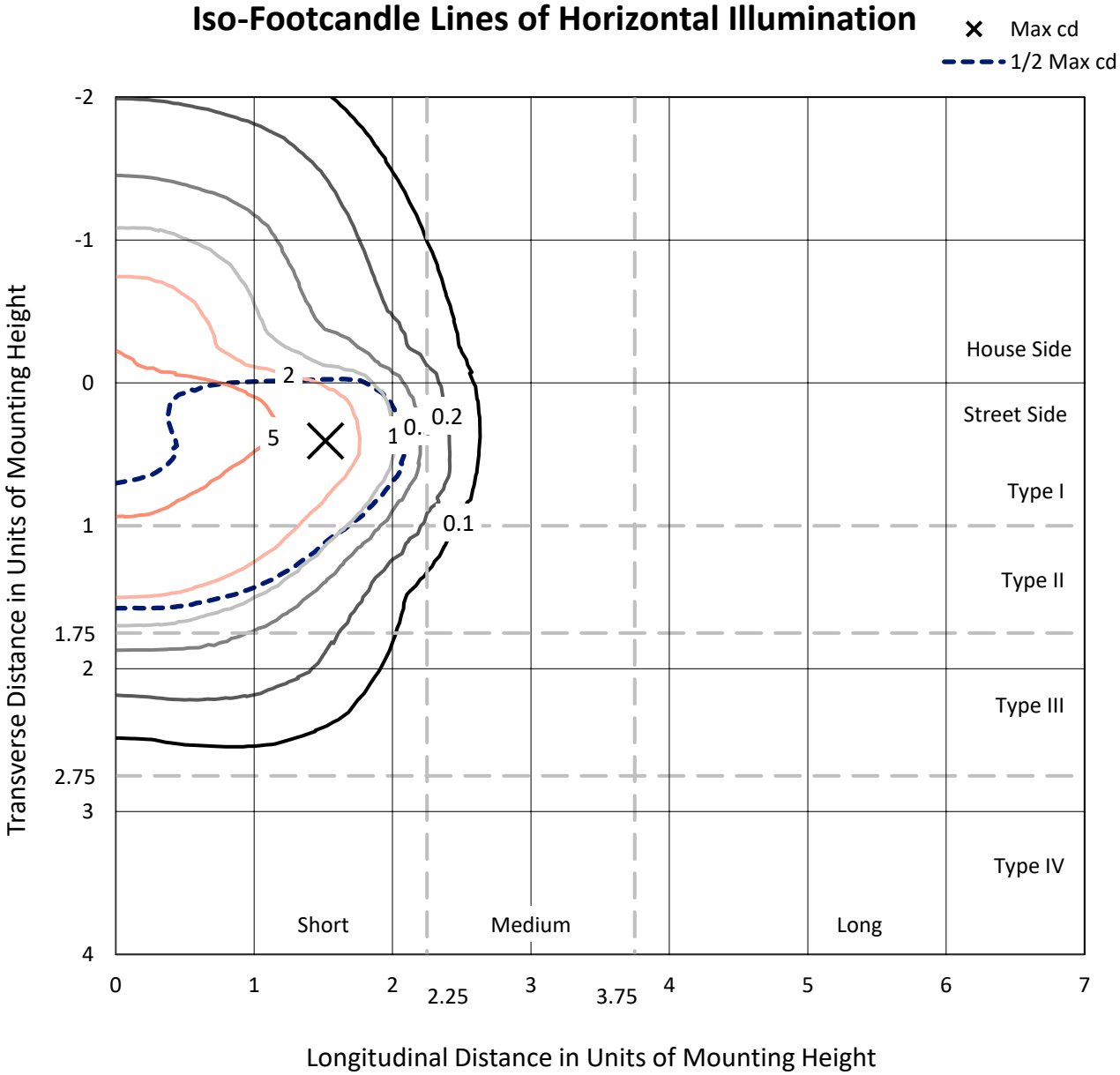
Scaled Data Report

REPORT NUMBER: P630074
CATALOG NUMBER: GWS-SA1C-830-U-T2-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 8.4 fc
Type II - Short - N/A

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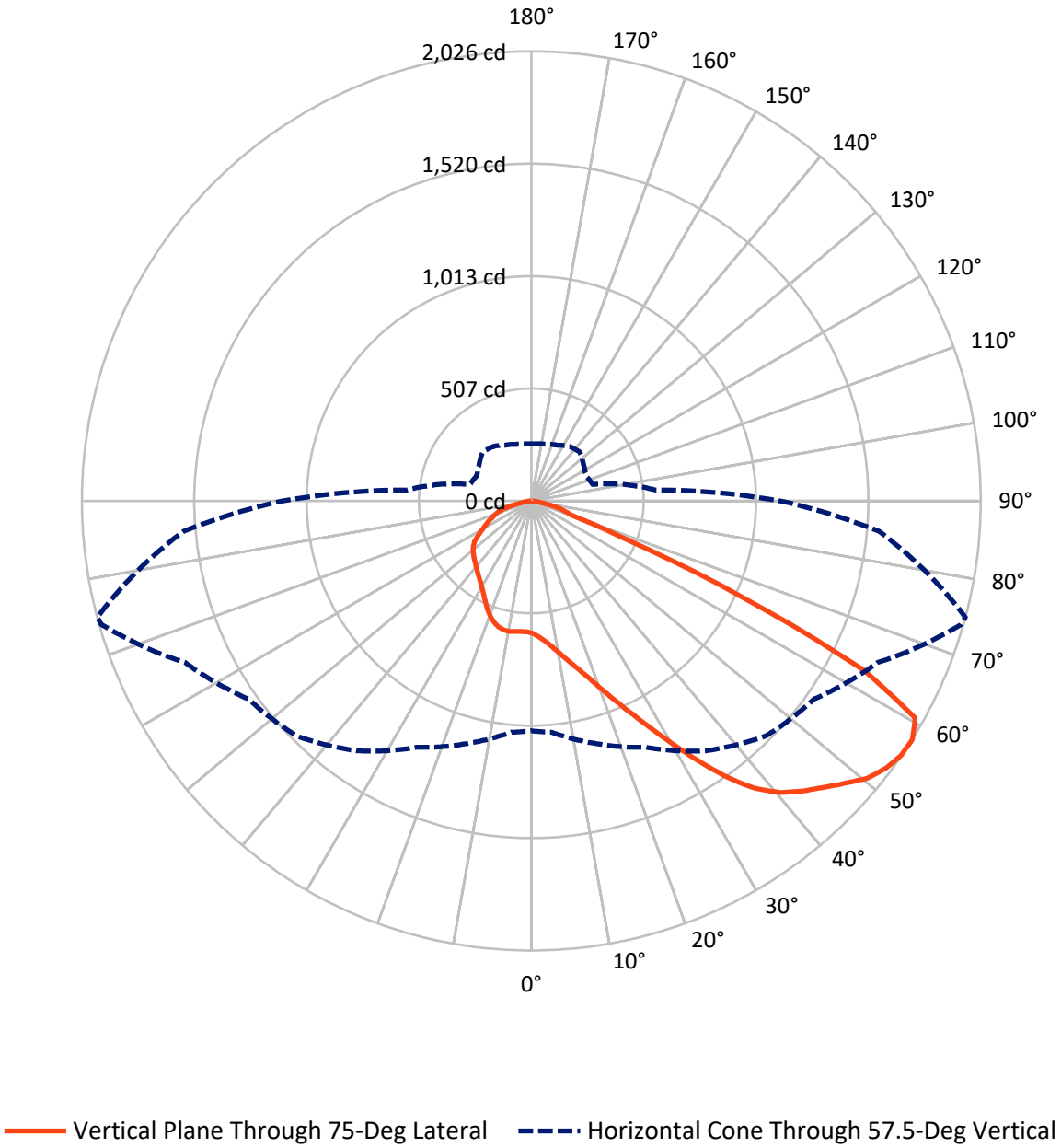
Luminous Intensity Polar Plot



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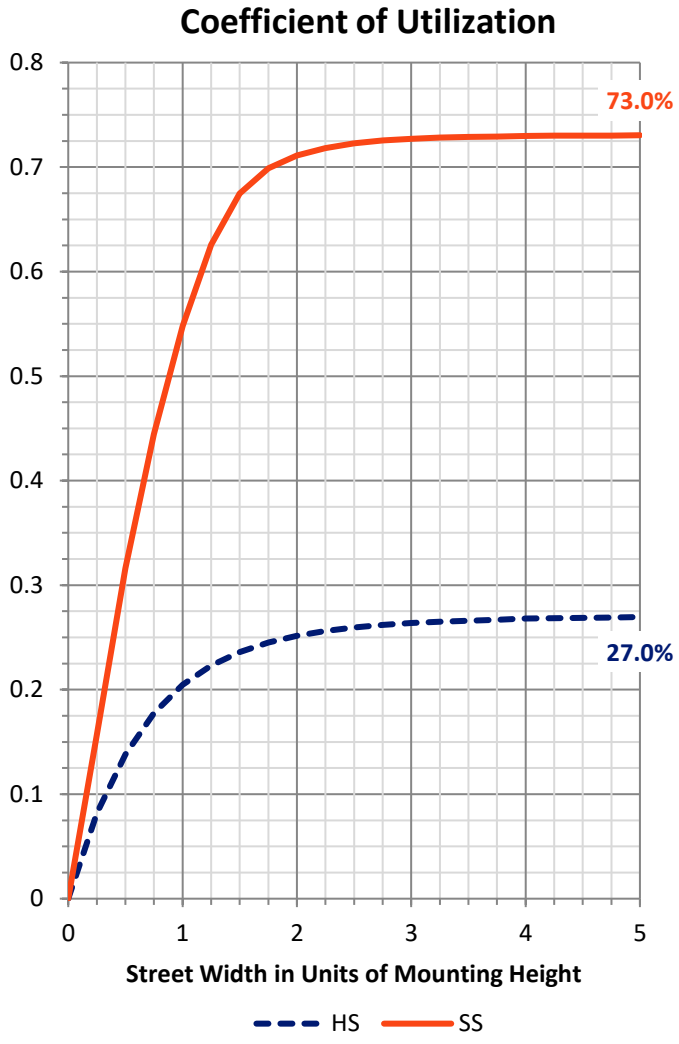
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	861.2	0.0	861.2
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	2322.2	0.0	2322.2
	% Fixture	72.9	0.0	72.9
Total	Lumens	3183.4	0.0	3183.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.7	1.9
10°-20°	189.9	6.0
20°-30°	336.9	10.6
30°-40°	515.7	16.2
40°-50°	718.0	22.6
50°-60°	822.7	25.8
60°-70°	422.7	13.3
70°-80°	106.4	3.3
80°-90°	11.4	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°	3183.4	100.0
0°-180°	3183.4	100.0



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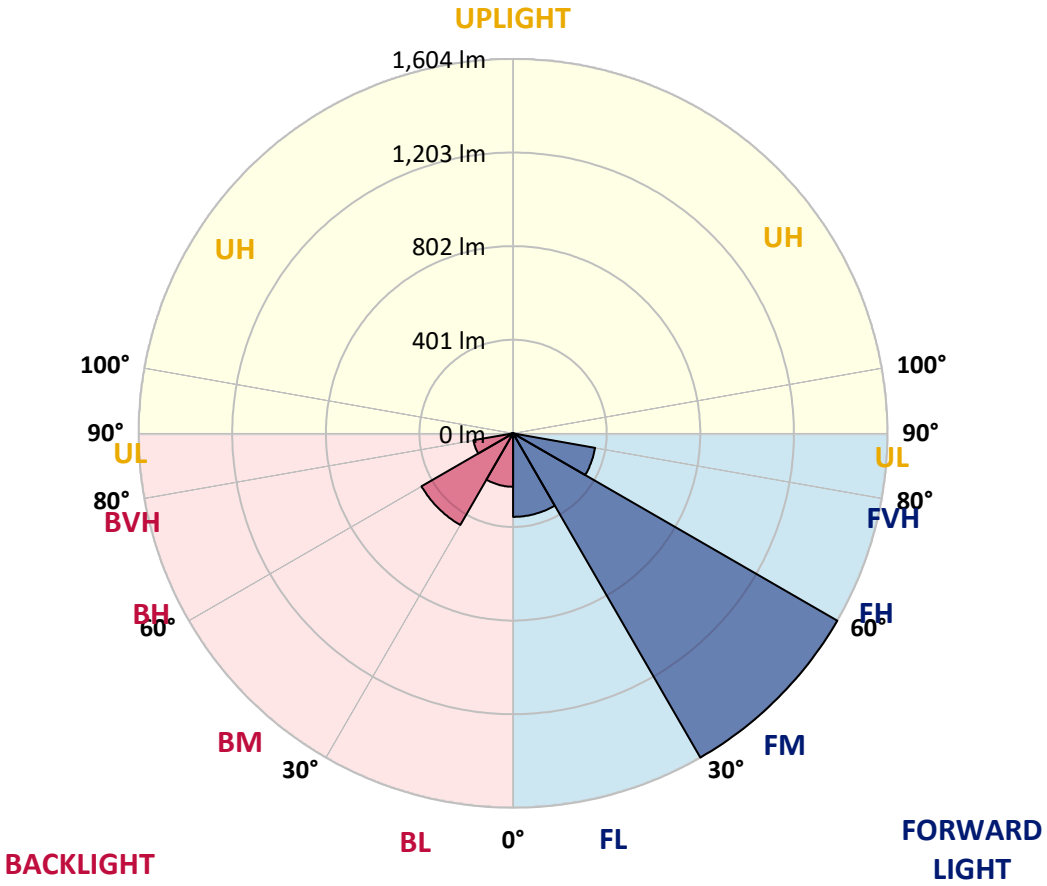
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	357.7	11.2			
FM	(30°-60°)	1603.5	50.4			
FH	(60°-80°)	356.8	11.2			G0/660
FVH	(80°-90°)	4.2	0.1			G0/10
BL	(0°-30°)	228.8	7.2	B1/500		
BM	(30°-60°)	452.9	14.2	B1/1000		
BH	(60°-80°)	172.3	5.4	B1/500		G1/500
BVH	(80°-90°)	7.2	0.2			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: P630074
CATALOG NUMBER: GWS-SA1C-830-U-T2-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	596.2	596.2	596.2	596.2	596.2	596.2	596.2	596.2	596.2	*596.2*	596.2
2.5°	640.5	642.2	640.5	643.3	637.8	635.3	629.3	620.3	613.1	*612.1*	604.1
5°	690.3	693.9	691.7	690.6	683.2	677.7	668.7	650.6	635.9	*633.7*	618.1
7.5°	722.4	724.8	724.8	725.6	722.9	716.6	707.0	685.7	664.9	*661.6*	638.1
10°	733.0	735.0	738.5	745.4	750.8	752.7	746.4	725.9	700.5	*697.2*	664.3
12.5°	735.5	737.7	743.2	755.8	770.8	784.5	785.6	770.5	742.1	*738.5*	694.7
15°	740.2	742.3	749.7	765.3	787.5	813.8	829.9	819.5	788.1	*784.2*	729.2
17.5°	739.6	742.1	753.0	773.8	803.7	841.7	872.9	877.3	844.7	*838.1*	768.3
20°	738.2	740.4	752.2	777.7	814.6	866.9	923.3	946.0	911.0	*904.9*	814.1
22.5°	749.2	751.7	760.7	781.8	820.4	886.3	969.8	1024.6	989.5	*981.0*	866.6
25°	773.8	777.4	782.9	797.4	830.8	903.6	1017.4	1113.5	1077.7	*1067.5*	923.8
27.5°	811.9	816.2	823.9	830.8	854.0	925.5	1064.8	1213.2	1177.3	*1166.6*	984.3
30°	858.4	864.2	874.0	878.7	894.5	957.8	1116.3	1315.8	1295.0	*1280.2*	1052.5
32.5°	922.7	930.7	940.0	941.3	950.9	1006.8	1167.2	1417.6	1417.4	*1406.9*	1129.9
35°	1006.5	1015.0	1016.9	1018.8	1023.5	1074.1	1228.8	1510.4	1546.3	*1534.2*	1214.2
37.5°	1097.9	1110.2	1113.2	1104.8	1111.3	1155.1	1298.0	1584.9	1658.5	*1645.6*	1295.8
40°	1195.6	1200.6	1208.8	1195.4	1203.6	1247.9	1365.9	1632.5	1742.3	*1728.6*	1360.1
42.5°	1265.7	1274.7	1287.1	1282.1	1286.8	1327.3	1413.5	1655.5	1801.9	*1788.2*	1406.4
45°	1341.8	1344.5	1352.5	1351.4	1354.1	1391.9	1447.7	1665.6	1855.3	*1843.0*	1445.8
47.5°	1408.0	1412.2	1417.4	1411.3	1405.3	1429.9	1475.7	1674.4	1916.9	*1902.1*	1487.2
50°	1471.8	1475.4	1481.7	1464.2	1441.7	1448.0	1489.3	1686.4	1974.7	*1964.3*	1519.7
52.5°	1483.6	1487.4	1517.0	1520.5	1491.8	1469.6	1513.4	1713.0	2008.6	*2002.0*	1531.5
55°	1335.5	1342.4	1401.2	1468.8	1539.7	1532.6	1552.0	1726.9	2022.0	*2023.7*	1552.6
57.5°	*1036.6*	*1046.5*	*1132.4*	*1225.2*	*1374.4*	*1497.8*	*1557.0*	*1723.4*	*2017.4*	*2026.4*	*1574.2*
60°	679.9	685.7	787.5	891.5	1046.2	1217.0	1393.5	1659.3	1976.0	*1988.9*	1568.7
62.5°	410.6	417.2	499.0	577.8	669.0	783.1	945.2	1333.6	1656.3	*1685.1*	1256.4
65°	286.6	295.3	367.1	431.9	463.4	439.9	478.7	744.8	1031.9	*1044.0*	767.8
67.5°	207.8	213.8	272.6	349.8	384.6	310.7	236.8	329.8	449.5	*453.8*	316.7
70°	136.0	142.9	196.3	266.3	314.0	251.8	177.1	178.5	189.1	*191.3*	183.9
72.5°	74.7	78.8	121.3	176.8	185.6	150.5	138.2	148.4	155.7	*155.7*	157.7
75°	38.6	42.2	49.5	58.3	70.3	82.4	99.6	114.7	122.6	*123.2*	122.4
77.5°	19.7	21.1	26.6	28.7	31.5	36.7	47.6	61.0	68.2	*70.9*	70.3
80°	9.3	9.9	11.2	13.1	16.1	20.5	25.7	30.7	35.0	*35.6*	38.6
82.5°	4.9	5.5	6.0	7.1	8.8	10.9	15.1	18.1	20.8	*21.4*	23.8
85°	1.9	2.2	2.5	2.7	3.8	4.7	6.3	8.5	10.4	*10.4*	12.3
87.5°	0.0	0.0	0.0	0.0	0.3	0.5	1.1	1.4	1.9	*1.9*	3.3
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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Scaled Data Report

REPORT NUMBER: P630074
CATALOG NUMBER: GWS-SA1C-830-U-T2-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	596.2	596.2	596.2	596.2	596.2	596.2	596.2	596.2	596.2	596.2	596.2
2.5°	602.2	594.3	590.7	585.0	580.3	575.1	571.0	568.0	566.1	565.0	563.9
5°	612.1	600.0	590.4	578.9	571.0	563.3	557.0	552.7	550.5	548.8	547.7
7.5°	627.4	611.2	593.2	575.4	561.4	549.1	541.2	536.5	533.5	532.4	531.6
10°	648.5	626.0	596.2	568.0	547.2	533.8	528.3	526.1	526.4	525.8	525.6
12.5°	672.3	641.6	595.4	554.8	531.8	523.9	524.2	527.7	531.8	532.9	533.2
15°	698.0	656.9	587.4	537.9	519.8	520.6	527.7	536.2	543.9	546.9	547.5
17.5°	725.9	669.8	572.9	519.3	510.0	518.7	531.8	545.8	557.0	562.0	563.3
20°	757.1	680.8	552.4	500.9	500.6	515.2	534.3	552.7	566.9	573.5	574.6
22.5°	790.2	687.6	527.2	483.9	491.1	510.5	532.4	551.6	566.6	573.2	574.6
25°	823.6	689.8	499.5	468.3	481.2	503.1	523.1	538.4	552.7	558.4	559.5
27.5°	854.8	683.5	473.3	454.9	472.2	492.2	505.6	513.8	523.6	528.0	528.8
30°	886.6	670.9	451.1	444.3	462.0	477.1	483.1	483.7	487.5	487.5	488.1
32.5°	918.6	652.3	431.7	433.9	449.5	459.3	460.1	453.8	449.2	441.5	441.2
35°	955.6	633.4	415.8	422.1	434.7	440.7	438.2	426.2	415.0	402.4	401.8
37.5°	989.8	614.0	402.4	410.0	418.0	422.4	416.6	402.1	392.8	379.9	378.0
40°	1018.0	596.4	389.5	397.4	401.3	405.1	395.8	384.0	385.4	378.3	378.0
42.5°	1034.4	579.5	377.5	383.5	386.0	388.7	380.5	371.7	379.1	373.6	373.9
45°	1046.5	564.7	366.5	368.7	374.7	378.8	371.2	361.3	363.0	341.9	337.0
47.5°	1060.1	556.5	356.1	353.9	364.6	371.7	359.9	345.7	335.9	315.1	313.1
50°	1074.6	553.5	345.2	339.1	352.0	358.9	345.2	327.4	314.5	303.3	302.2
52.5°	1079.6	553.2	331.5	321.4	334.2	343.8	332.3	314.2	298.9	288.0	287.4
55°	1099.0	561.1	314.0	297.0	309.0	328.7	320.3	294.3	281.9	277.0	276.5
57.5°	*1121.7*	*562.5*	*286.3*	*270.4*	*287.1*	*310.4*	*299.7*	*277.3*	*263.9*	*257.8*	*257.3*
60°	1112.4	528.8	256.8	250.2	268.5	293.2	283.3	263.9	248.3	242.5	242.0
62.5°	847.7	373.4	235.1	232.7	248.5	268.3	266.3	246.1	231.3	227.2	226.6
65°	510.0	262.2	214.3	214.1	225.3	244.2	246.6	230.2	214.6	208.9	208.9
67.5°	252.1	200.6	190.8	189.4	196.5	209.9	220.3	206.9	193.8	188.3	187.5
70°	178.2	176.8	173.5	169.7	171.1	176.6	180.9	169.7	155.7	150.3	149.2
72.5°	154.1	154.4	152.2	149.2	148.1	144.3	140.4	132.2	123.7	118.0	118.5
75°	119.6	120.2	121.5	120.4	117.4	113.3	109.2	98.8	92.0	86.5	85.4
77.5°	69.8	72.5	76.9	75.8	76.4	70.6	69.0	58.9	52.6	48.7	47.9
80°	39.4	41.1	43.0	44.3	42.7	40.2	36.7	31.2	29.3	26.6	26.0
82.5°	23.8	25.5	26.3	27.4	26.8	23.5	20.8	17.2	15.6	14.2	14.0
85°	12.0	13.1	14.0	14.5	12.9	10.7	9.6	7.7	6.6	5.7	5.7
87.5°	3.0	3.3	3.8	3.3	3.0	1.4	1.1	0.3	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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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

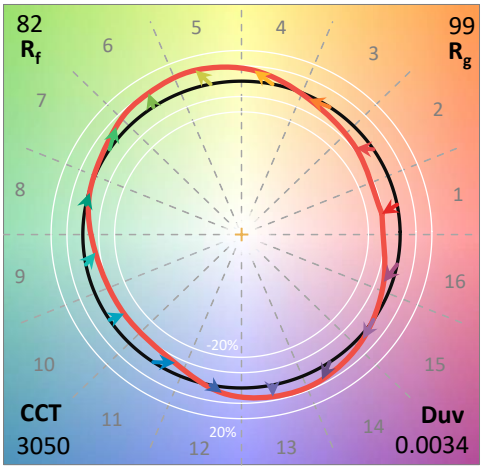
Test Information

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

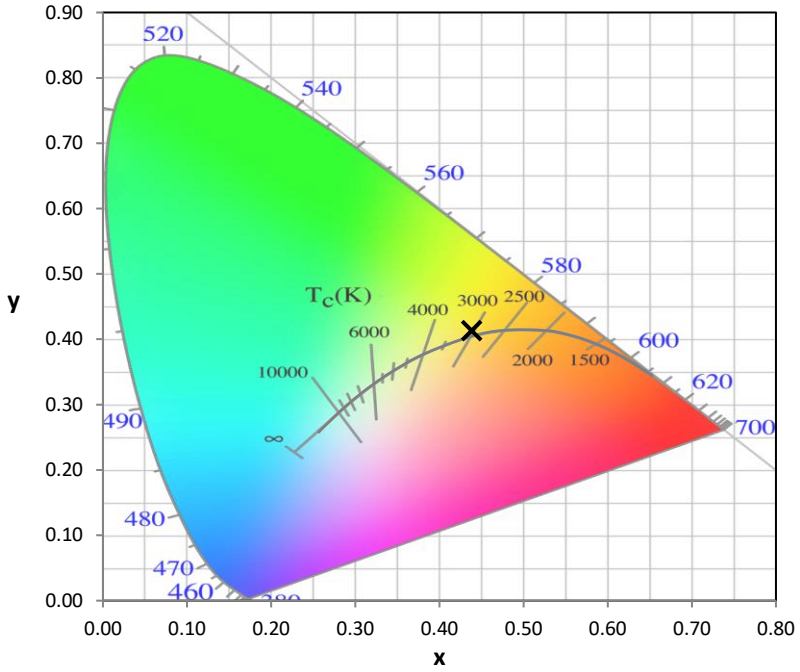
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

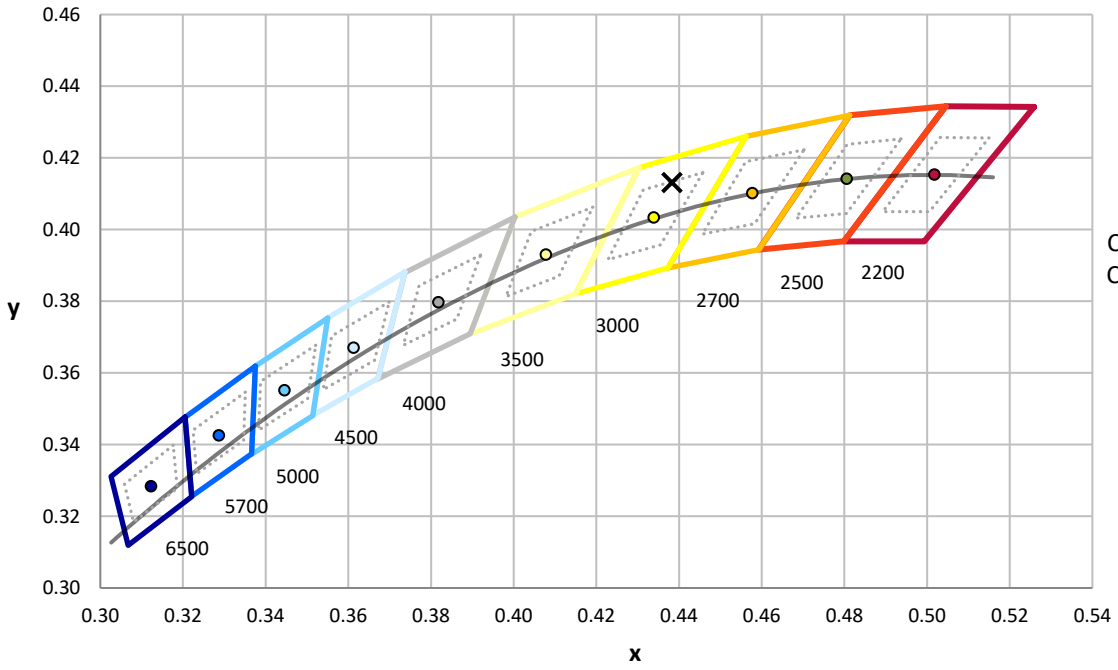
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

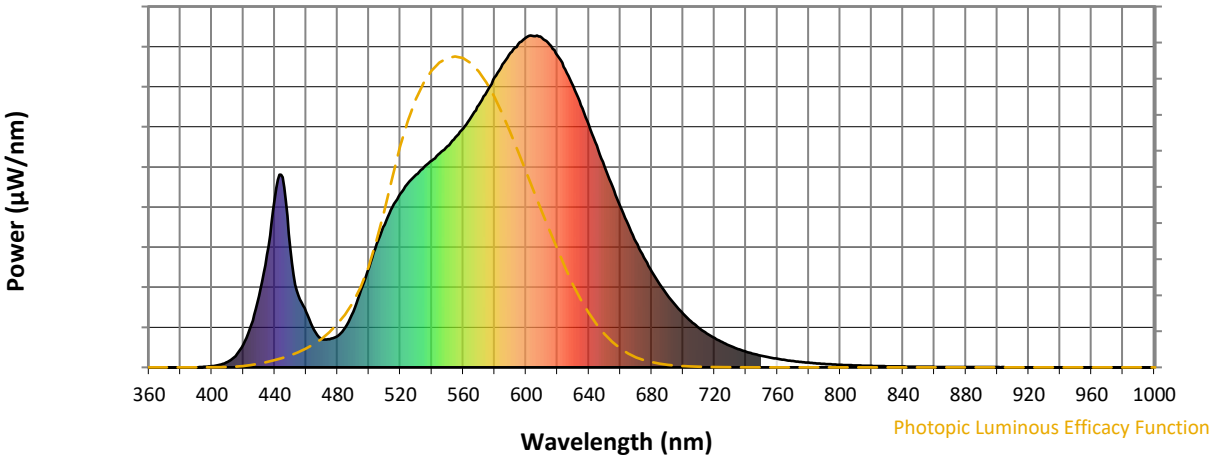


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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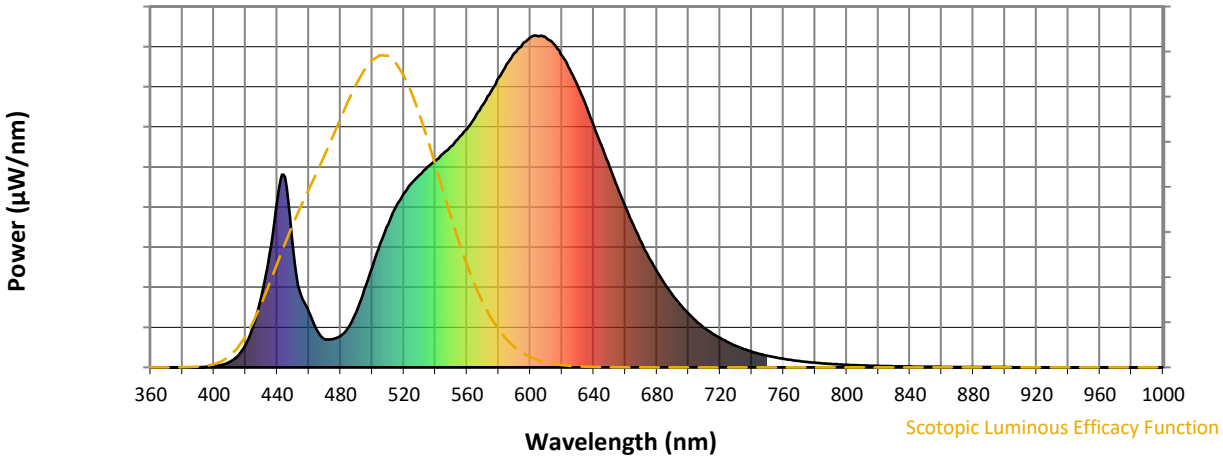
Scotopic Flux vs. Wavelength



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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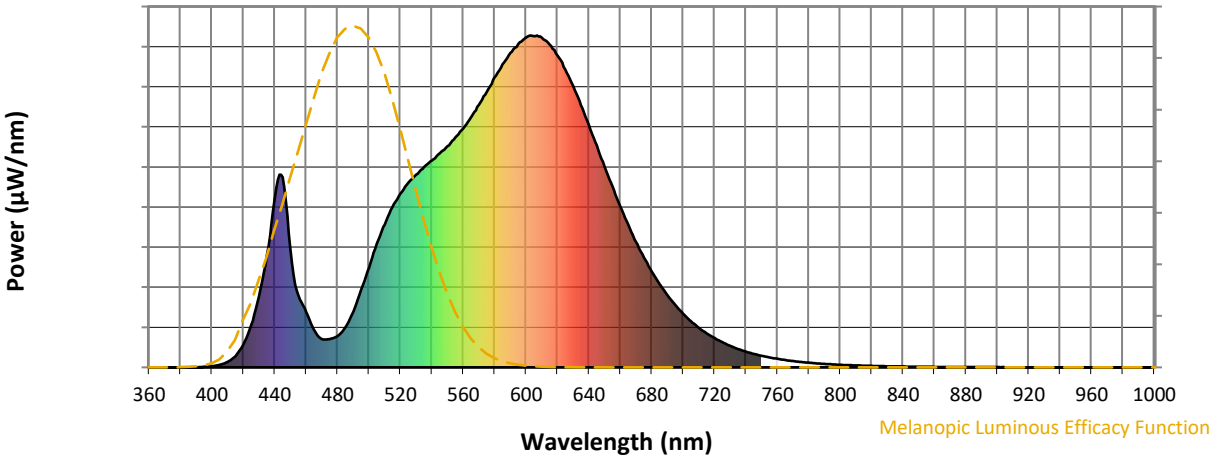
Melanopic Flux vs. Wavelength



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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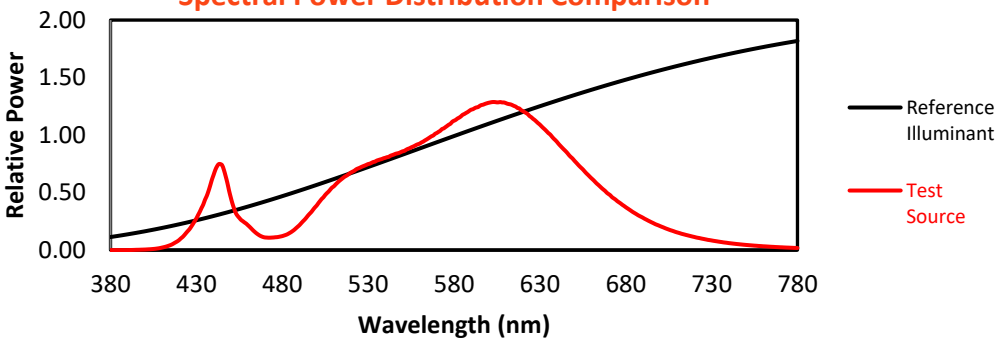
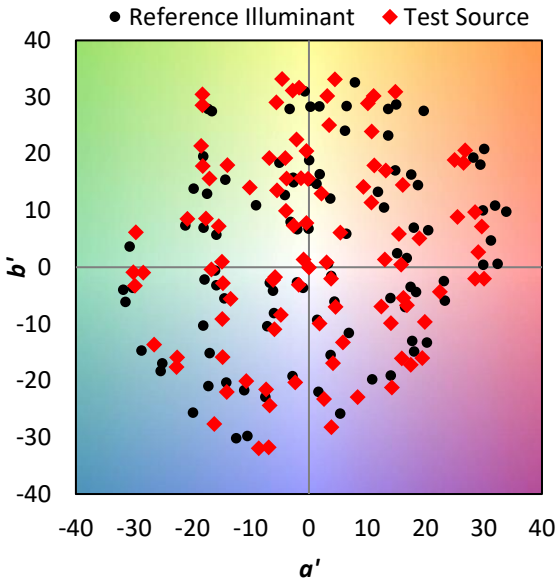
Summary

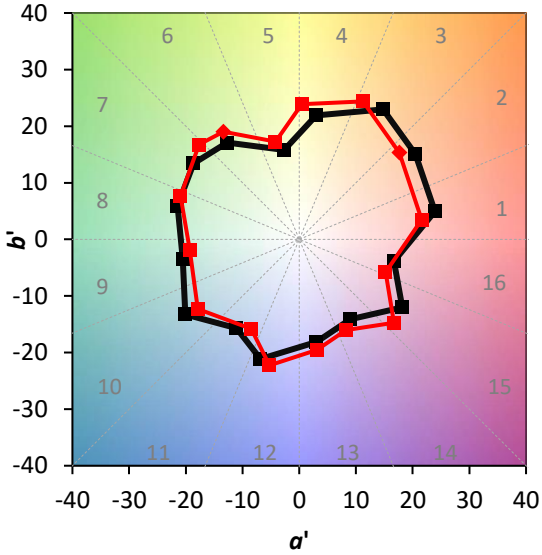
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

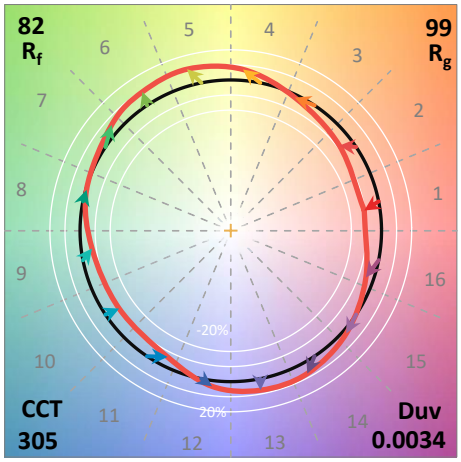
Spectral Power Distribution Comparison

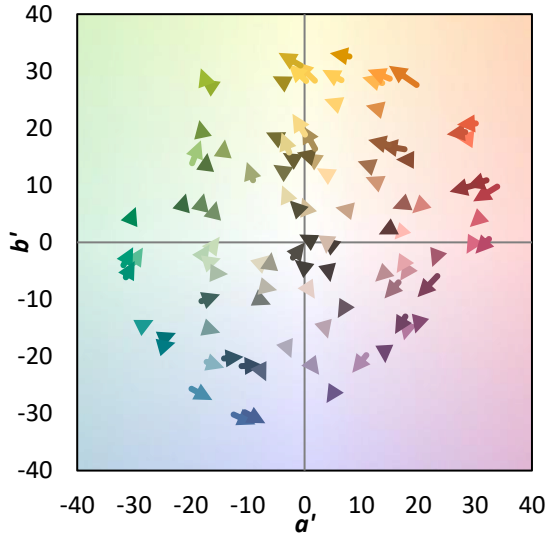


Color Vector Graphics









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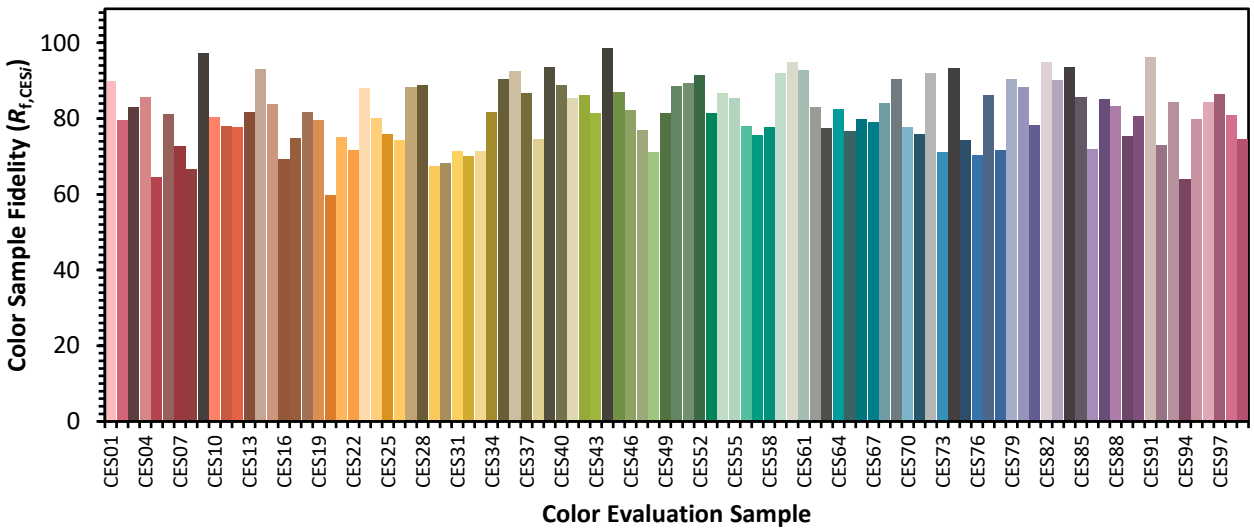
Individual Sample Fidelity Index ($R_{f,i}$)

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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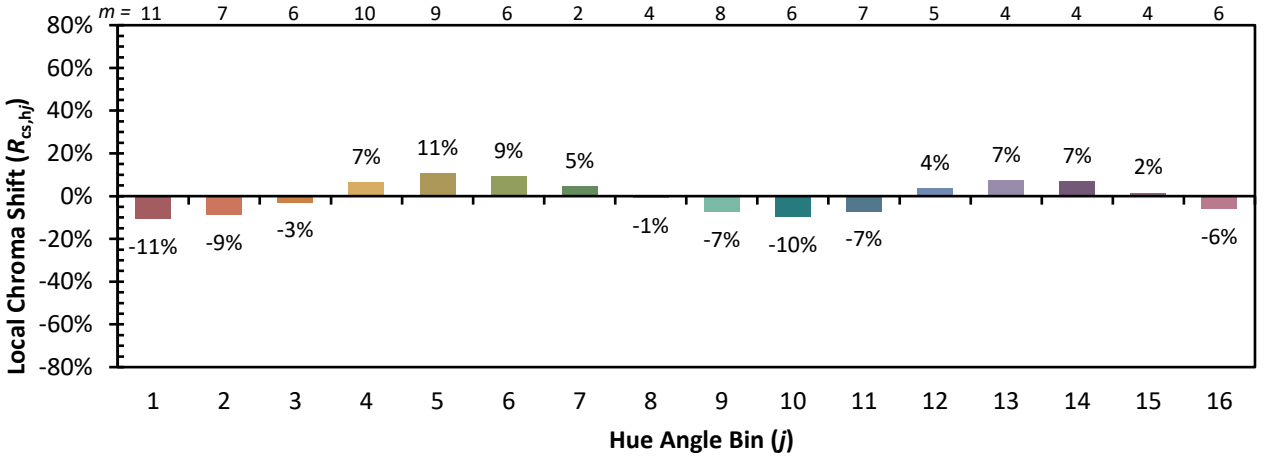
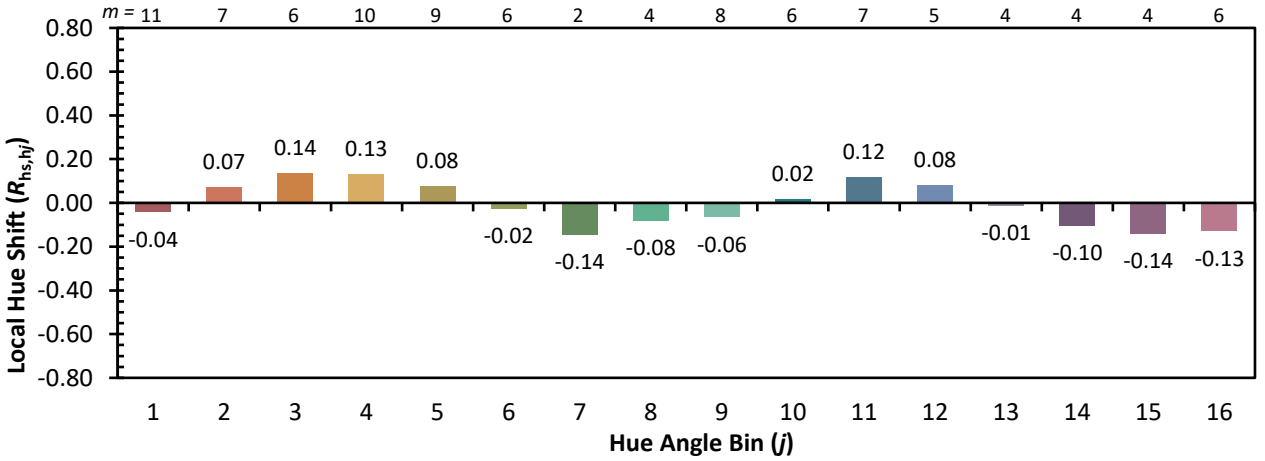
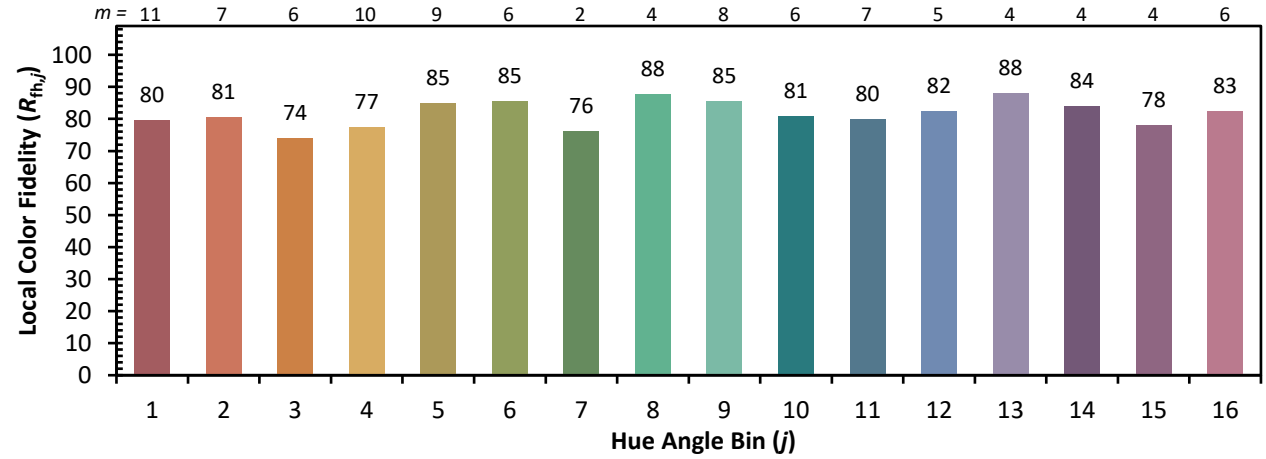
Color Rendition by Hue-Angle Bin







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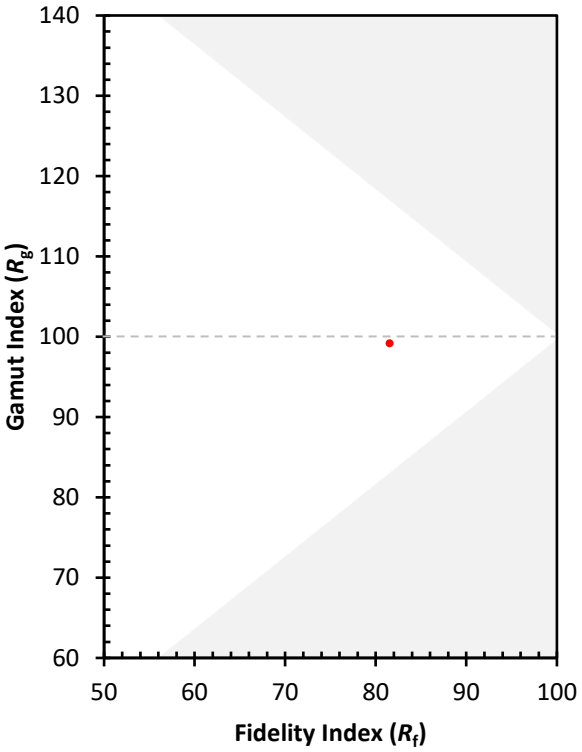
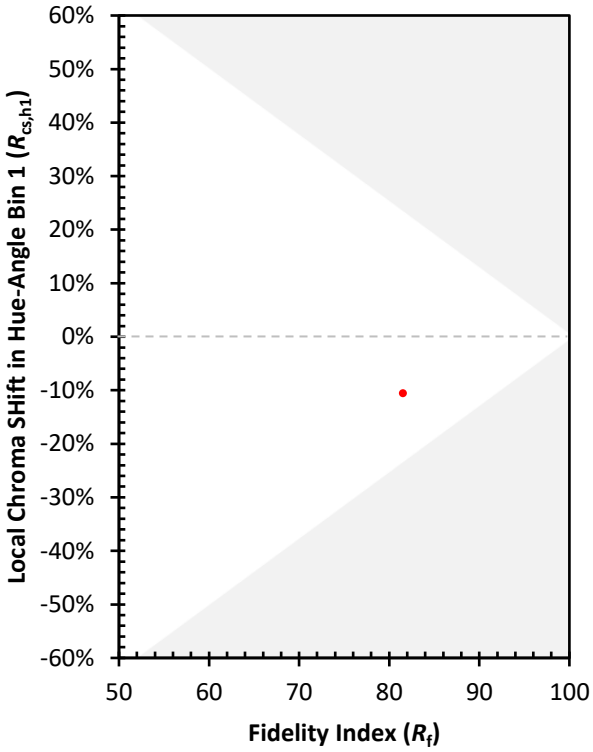
Measure Comparisons





(END OF REPORT)