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: P630090

Luminaire Tested: GWS-SA1C-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:	P630090
	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-SA1C-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:	3688.1 lumens
Efficiency:	N/A
Efficacy:	108.2 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):	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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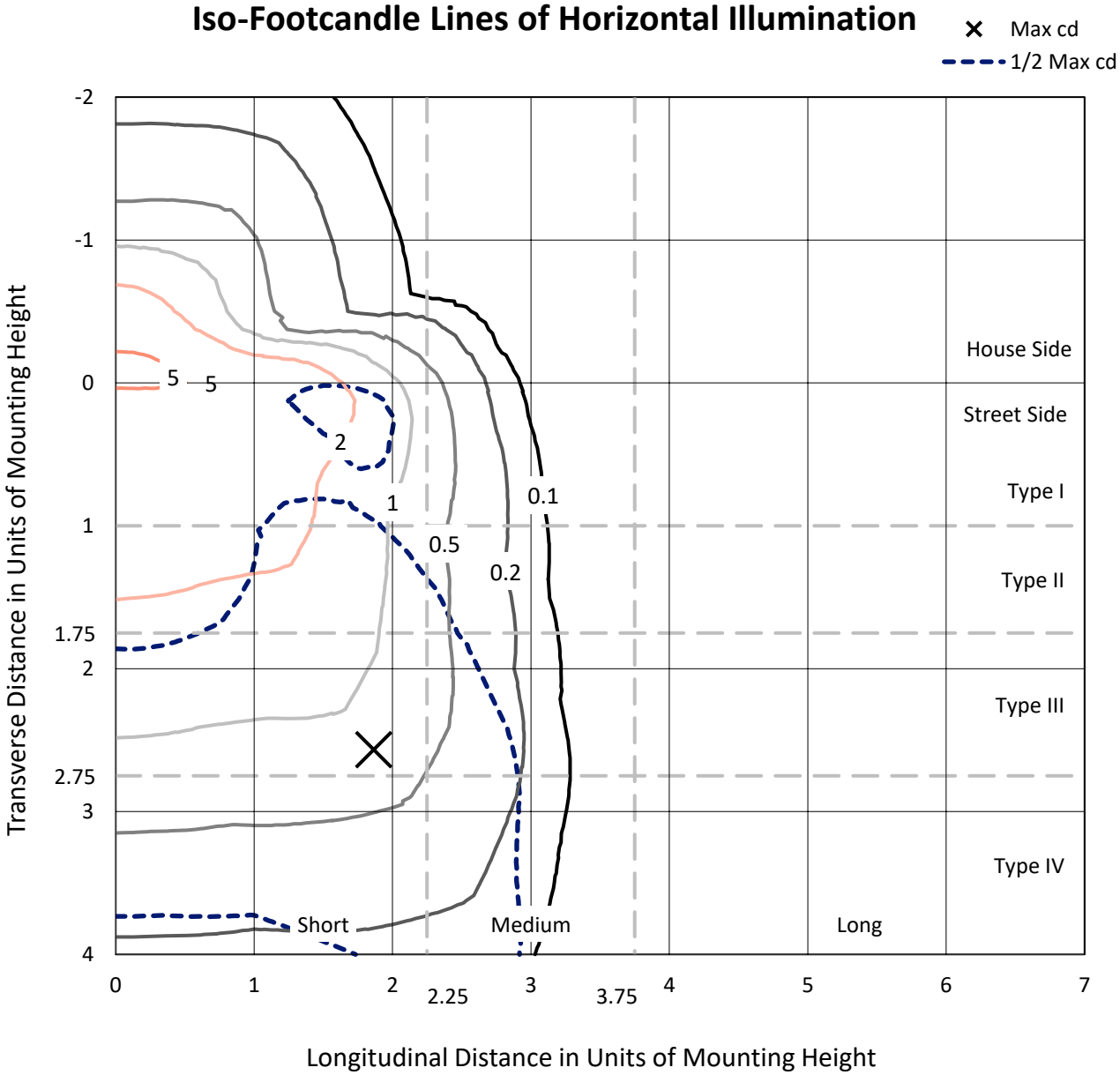
REPORT NUMBER: P630090
CATALOG NUMBER: GWS-SA1C-830-U-T4FT-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 5.7 fc
Type IV - Short - N/A

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REPORT NUMBER: P630090
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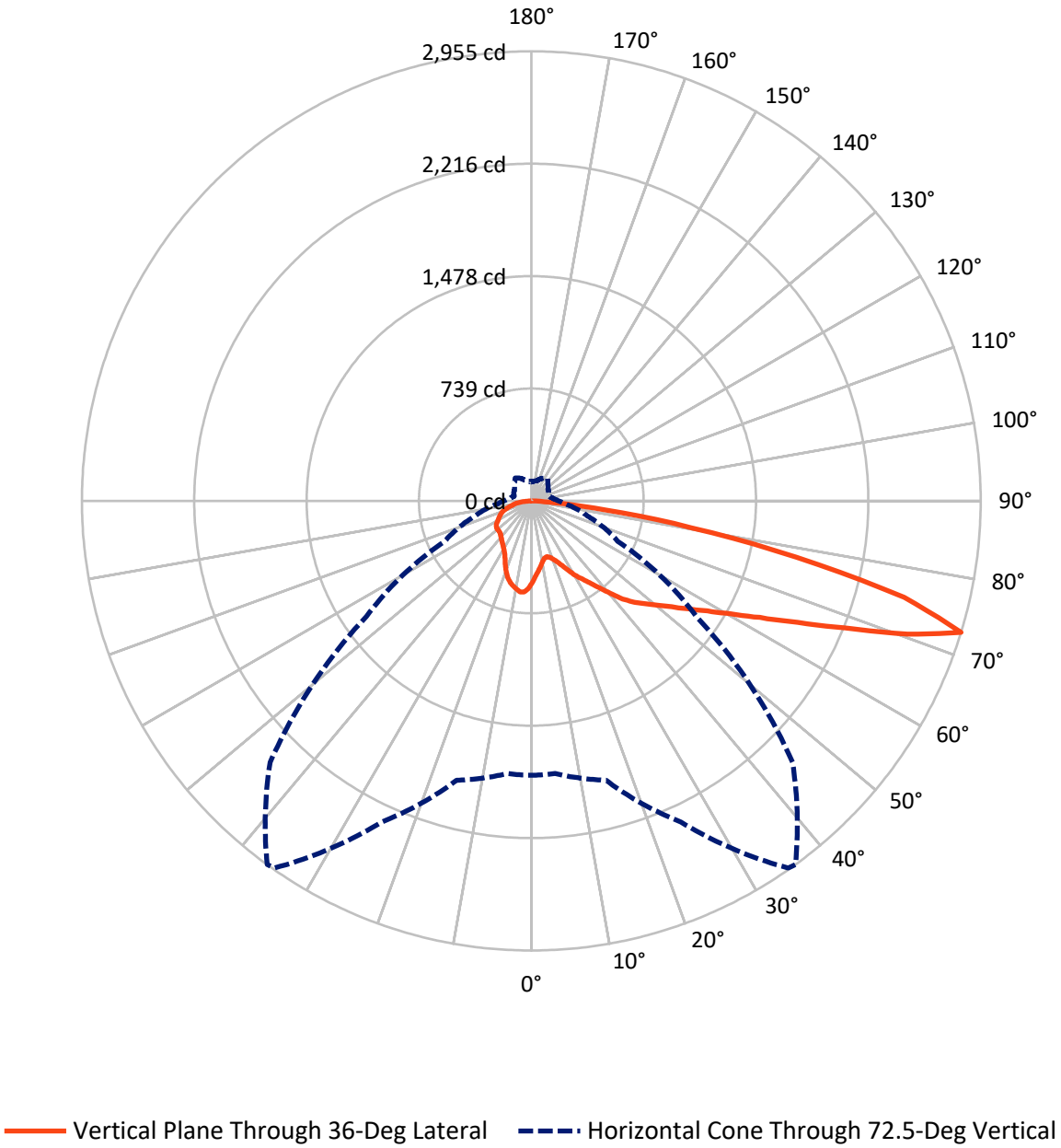
Luminous Intensity Polar Plot



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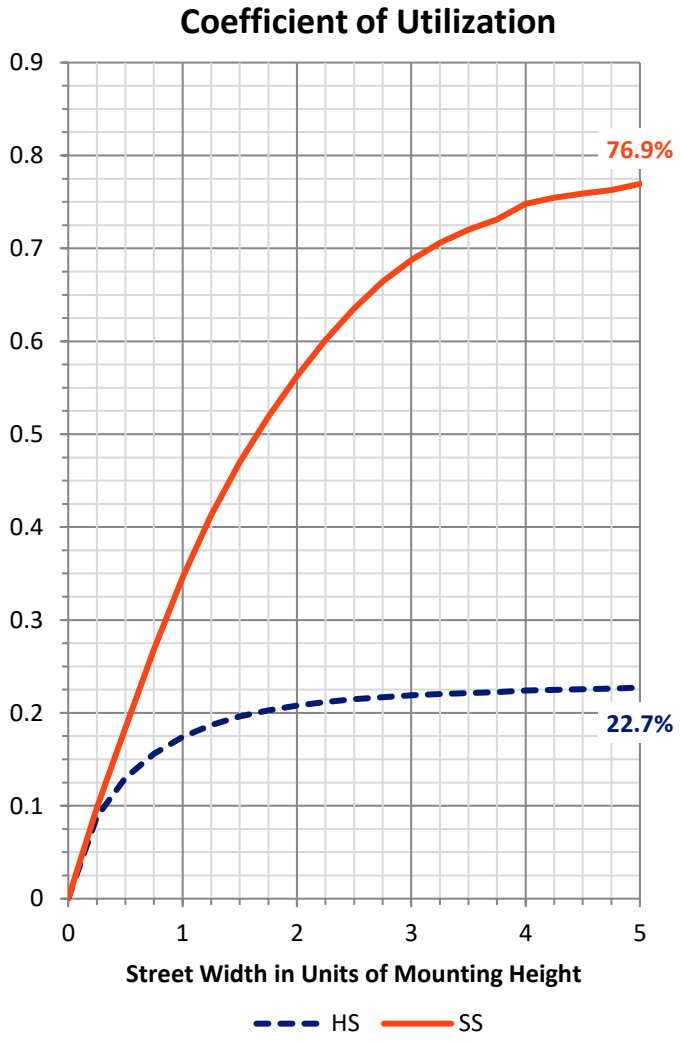
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	850.3	0.0	850.3
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	2837.8	0.0	2837.8
	% Fixture	76.9	0.0	76.9
Total	Lumens	3688.1	0.0	3688.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.5	1.4
10°-20°	142.3	3.9
20°-30°	235.7	6.4
30°-40°	353.1	9.6
40°-50°	515.1	14.0
50°-60°	733.1	19.9
60°-70°	926.2	25.1
70°-80°	660.0	17.9
80°-90°	72.0	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°	3688.1	100.0
0°-180°	3688.1	100.0



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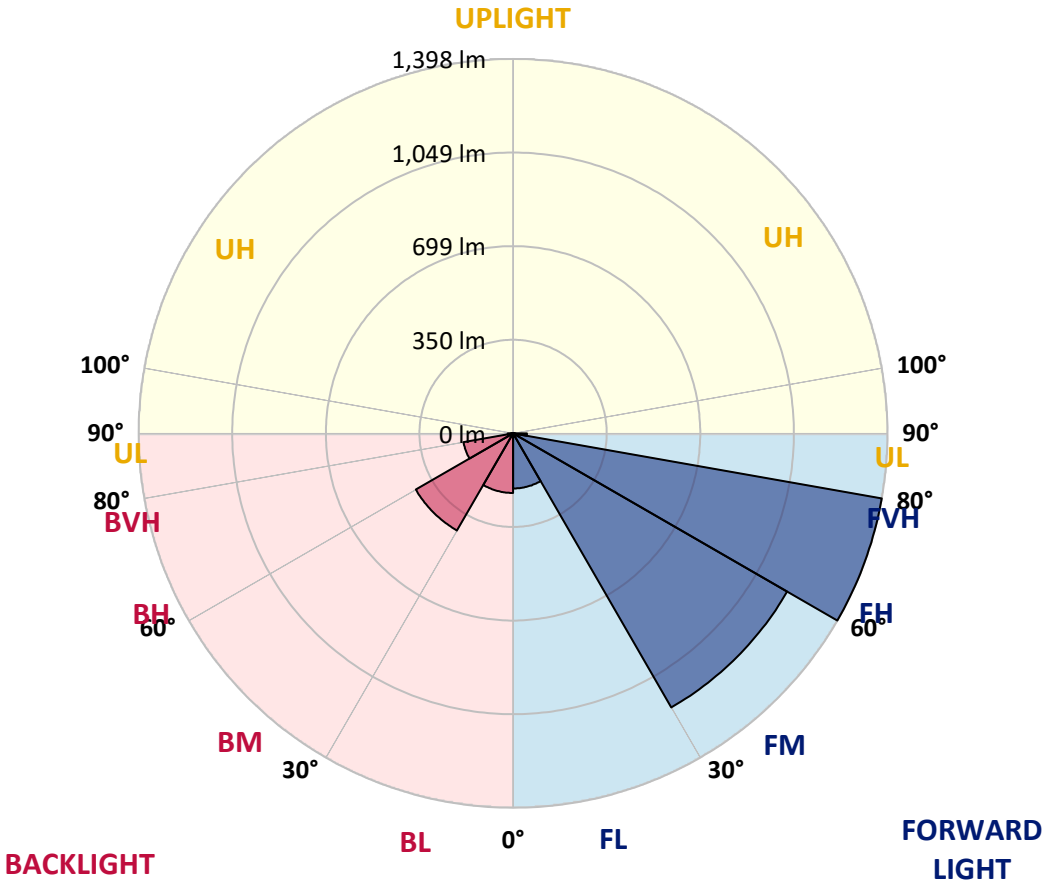
CATALOG NUMBER: GWS-SA1C-830-U-T4FT-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	205.9	5.6			
FM	(30°-60°)	1181.9	32.0			
FH	(60°-80°)	1398.3	37.9			G1/1800
FVH	(80°-90°)	51.7	1.4			G1/100
BL	(0°-30°)	222.7	6.0	B1/500		
BM	(30°-60°)	419.3	11.4	B1/1000		
BH	(60°-80°)	188.0	5.1	B1/500		G1/500
BVH	(80°-90°)	20.3	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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Scaled Data Report

REPORT NUMBER: P630090
CATALOG NUMBER: GWS-SA1C-830-U-T4FT-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	539.8	539.8	539.8	539.8	539.8	*539.8*	539.8	539.8	539.8	539.8	539.8
2.5°	492.4	491.6	490.0	494.9	499.8	*499.3*	506.1	512.7	519.8	527.2	537.0
5°	453.0	452.5	451.1	458.5	465.9	*465.6*	476.8	487.5	502.0	517.9	537.6
7.5°	413.6	412.2	414.1	423.4	433.8	*434.9*	450.3	467.8	488.9	512.7	540.6
10°	378.8	378.6	379.4	389.8	405.4	*406.5*	426.2	450.5	478.5	510.2	547.4
12.5°	369.8	369.2	367.1	372.3	384.0	*385.7*	407.3	437.1	471.3	511.6	556.7
15°	384.6	383.2	375.5	373.1	378.8	*380.2*	398.5	429.2	467.2	514.0	568.5
17.5°	410.0	409.2	394.7	384.6	388.4	*389.5*	403.2	427.8	466.1	519.0	583.0
20°	447.3	443.7	421.0	405.6	405.6	*407.3*	415.5	433.8	467.5	525.0	599.4
22.5°	496.5	489.4	457.4	436.6	431.1	*433.3*	436.9	448.9	473.3	535.1	620.0
25°	551.8	545.2	507.2	477.9	470.2	*471.1*	468.1	470.2	485.8	549.1	645.4
27.5°	610.7	606.3	565.8	528.5	516.5	*516.5*	505.8	500.6	503.4	565.0	673.9
30°	663.2	657.2	623.0	582.2	566.3	*566.3*	546.1	534.8	528.3	584.4	711.9
32.5°	690.9	687.3	664.6	633.4	613.9	*610.9*	593.4	580.3	565.0	613.1	763.4
35°	727.0	726.2	712.5	688.1	663.5	*659.1*	647.1	636.7	610.1	649.0	831.8
37.5°	772.4	771.1	768.9	754.4	724.8	*724.0*	713.3	700.7	666.2	700.7	914.8
40°	823.3	820.9	818.1	817.9	800.1	*797.1*	796.2	782.0	733.8	763.1	1001.3
42.5°	893.4	884.9	859.2	870.7	883.8	*881.1*	891.5	870.1	818.1	837.3	1083.1
45°	979.6	958.8	907.9	911.2	944.3	*949.8*	985.9	980.7	910.9	923.0	1169.3
47.5°	1031.4	1013.3	965.9	963.2	1004.5	*1011.4*	1089.9	1099.8	1010.8	1026.2	1275.8
50°	1073.8	1061.2	1022.3	1026.2	1070.0	*1076.8*	1193.1	1214.2	1105.0	1131.8	1399.5
52.5°	1125.0	1106.9	1076.8	1094.9	1148.5	*1156.7*	1307.8	1330.5	1189.8	1247.9	1527.6
55°	1153.7	1146.3	1146.9	1174.5	1241.9	*1253.1*	1428.0	1424.1	1267.6	1347.2	1624.0
57.5°	1220.0	1217.2	1242.4	1252.8	1350.8	*1365.3*	1548.1	1515.3	1338.2	1424.1	1670.2
60°	1336.8	1330.0	1351.9	1367.8	1485.5	*1506.0*	1682.3	1604.5	1386.1	1481.4	1654.6
62.5°	1501.1	1492.6	1493.4	1518.6	1665.8	*1687.5*	1831.4	1679.0	1400.9	1490.1	1555.8
65°	1705.3	1692.9	1679.0	1713.2	1905.3	*1923.4*	1993.8	1733.2	1365.6	1405.8	1349.4
67.5°	1920.7	1910.5	1894.1	1965.8	2215.5	*2226.4*	2175.8	1728.5	1253.6	1180.3	946.5
70°	1933.3	1935.7	2013.5	2272.9	2620.3	*2623.0*	2347.9	1634.9	1015.2	765.0	471.6
72.5°	*1803.5*	*1799.4*	*1900.7*	*2329.1*	*2946.0*	*2955.3*	*2429.2*	*1324.5*	*627.4*	*381.6*	*221.2*
75°	1464.9	1472.1	1578.5	2037.8	2525.0	*2533.3*	1980.3	780.9	298.1	186.7	141.5
77.5°	630.6	670.3	880.3	1435.6	1808.4	*1783.0*	1020.7	316.4	159.0	133.0	108.4
80°	182.0	197.6	313.7	682.7	1083.6	*1064.5*	404.0	118.5	110.9	99.9	77.7
82.5°	58.8	65.1	115.0	271.8	485.6	*485.0*	153.3	70.1	72.5	67.9	50.1
85°	16.4	18.9	35.3	82.4	150.3	*147.3*	44.3	33.1	38.6	39.1	24.9
87.5°	0.0	0.0	0.3	0.5	0.5	*0.5*	1.1	4.9	11.2	14.2	10.1
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: P630090
CATALOG NUMBER: GWS-SA1C-830-U-T4FT-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	539.8	539.8	539.8	539.8	539.8	539.8	539.8	539.8	539.8	539.8	539.8
2.5°	543.1	542.2	553.5	562.2	570.4	575.9	577.5	578.6	580.8	581.9	580.8
5°	546.9	551.0	569.6	583.3	594.2	600.8	601.1	600.5	602.2	600.8	600.0
7.5°	555.1	563.0	586.6	601.1	608.2	608.5	601.9	594.2	590.4	587.1	586.0
10°	566.0	577.8	603.5	613.1	610.9	600.8	586.3	574.3	567.4	562.5	561.4
12.5°	581.1	594.2	618.6	618.3	604.6	586.6	569.6	555.1	545.2	539.5	537.6
15°	595.3	612.0	629.5	616.7	595.1	573.2	551.3	531.8	518.7	509.7	508.0
17.5°	612.9	630.6	637.5	611.5	583.0	554.8	525.5	500.1	482.3	471.6	470.8
20°	633.1	649.0	641.3	602.5	567.4	530.5	490.8	462.3	443.1	432.7	433.6
22.5°	656.6	668.1	642.4	590.1	545.8	496.0	451.6	424.3	411.4	405.9	406.2
25°	681.8	689.2	640.5	573.4	512.7	453.8	411.4	398.8	397.7	396.3	396.9
27.5°	711.7	710.0	634.7	549.9	468.1	404.8	383.2	386.5	390.9	390.3	390.9
30°	751.6	736.0	627.4	517.3	415.0	363.8	366.5	375.8	381.6	382.1	383.8
32.5°	797.3	764.8	615.6	473.0	364.3	340.8	350.9	362.1	369.0	370.3	372.5
35°	851.8	797.6	594.8	417.7	327.9	327.1	336.4	344.1	351.5	352.0	352.0
37.5°	914.5	830.5	561.7	356.7	305.5	315.3	324.1	325.7	327.6	326.0	326.8
40°	972.0	862.2	514.6	301.1	287.1	304.9	312.3	306.8	300.8	296.7	297.5
42.5°	1020.1	883.8	452.2	262.2	268.5	295.6	301.4	290.1	278.4	270.7	271.8
45°	1074.3	903.8	378.8	235.9	252.6	289.0	292.9	278.4	263.3	251.8	250.2
47.5°	1149.1	944.6	313.7	217.6	241.4	285.5	291.8	272.1	252.4	235.1	233.2
50°	1241.3	1002.4	259.2	205.6	236.2	283.6	291.5	265.2	241.7	221.4	220.1
52.5°	1342.0	1058.7	219.0	196.3	231.0	277.8	290.1	257.6	230.5	208.6	206.9
55°	1409.1	1080.9	191.9	187.5	222.5	268.8	284.7	250.2	213.5	193.5	191.1
57.5°	1428.8	1052.4	173.0	179.6	211.6	256.2	274.3	234.6	203.1	187.2	185.3
60°	1394.9	980.7	161.2	173.0	199.5	240.0	256.2	225.5	194.9	180.7	179.3
62.5°	1299.1	870.1	152.2	166.1	187.2	223.1	244.7	214.6	185.9	174.6	172.7
65°	1106.4	713.6	144.8	159.0	175.5	206.9	232.1	203.6	176.0	167.5	165.3
67.5°	773.8	501.2	136.9	150.5	163.7	191.3	219.0	193.5	165.9	159.6	157.4
70°	378.3	265.8	127.3	140.7	151.1	175.5	205.8	181.2	152.5	148.9	145.9
72.5°	*180.1*	*148.6*	*116.1*	*127.3*	*133.8*	*154.4*	*183.9*	*163.4*	*136.6*	*128.9*	*123.7*
75°	120.7	105.7	101.3	111.4	113.0	129.5	157.7	141.0	120.4	111.7	107.3
77.5°	91.4	80.7	85.1	94.2	90.9	106.5	129.7	125.6	108.7	100.7	98.5
80°	64.3	58.8	67.6	73.1	70.6	90.6	116.9	107.6	89.5	80.7	79.1
82.5°	40.5	39.4	49.8	50.6	51.5	71.7	96.1	84.6	69.5	57.2	53.1
85°	20.3	22.4	29.8	29.8	29.6	37.0	54.7	47.6	37.5	29.8	29.0
87.5°	6.8	9.6	12.9	10.4	7.9	6.3	7.1	8.8	9.3	9.0	9.0
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

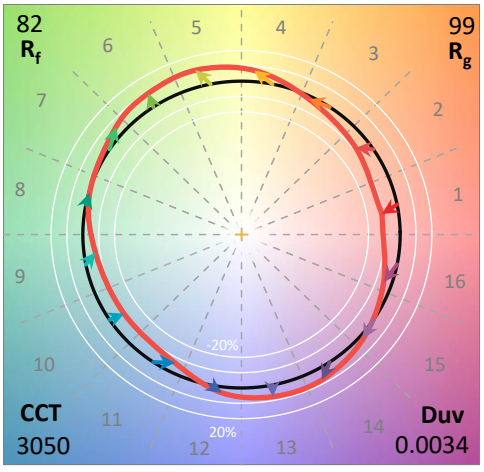
Test Information

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

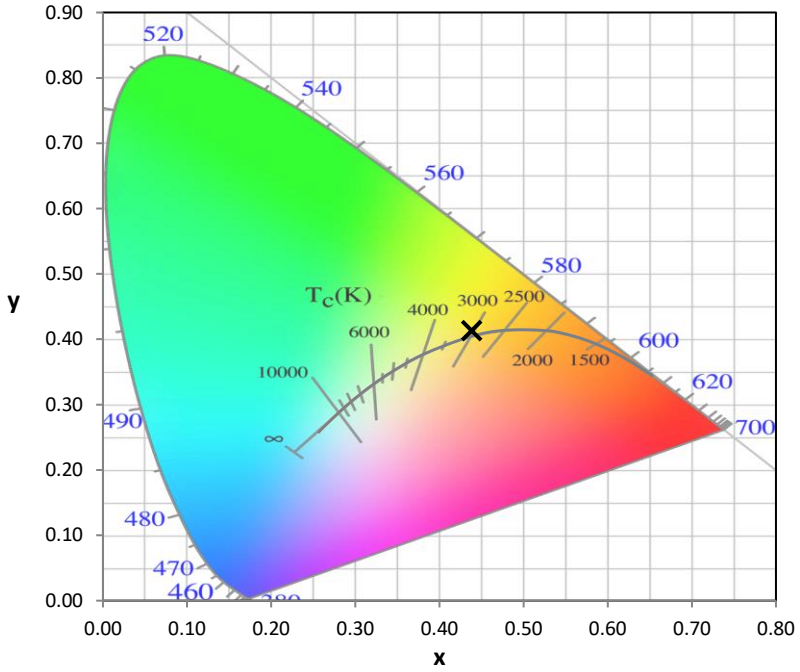
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

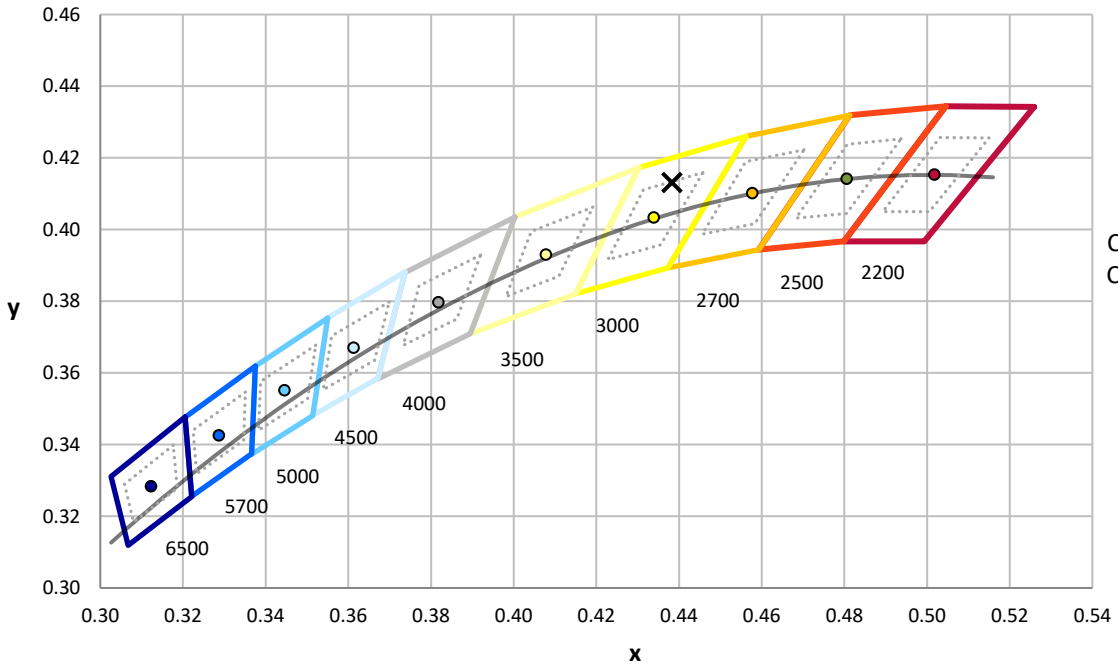
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

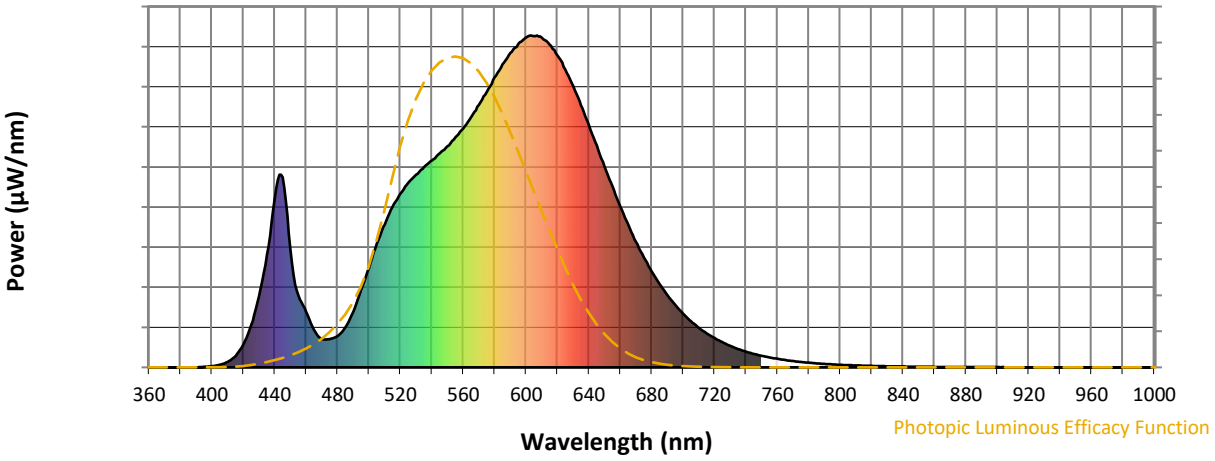


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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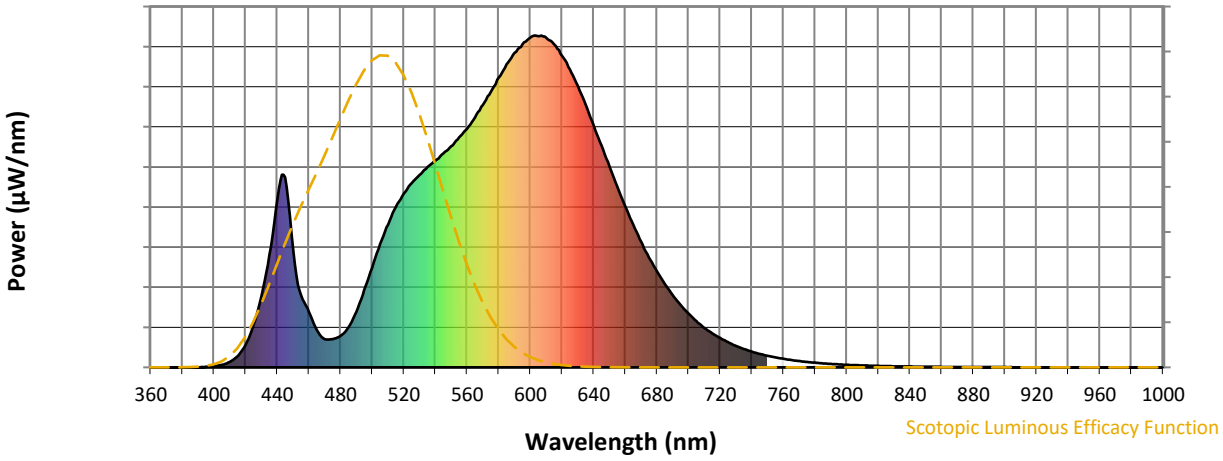
Scotopic Flux vs. Wavelength



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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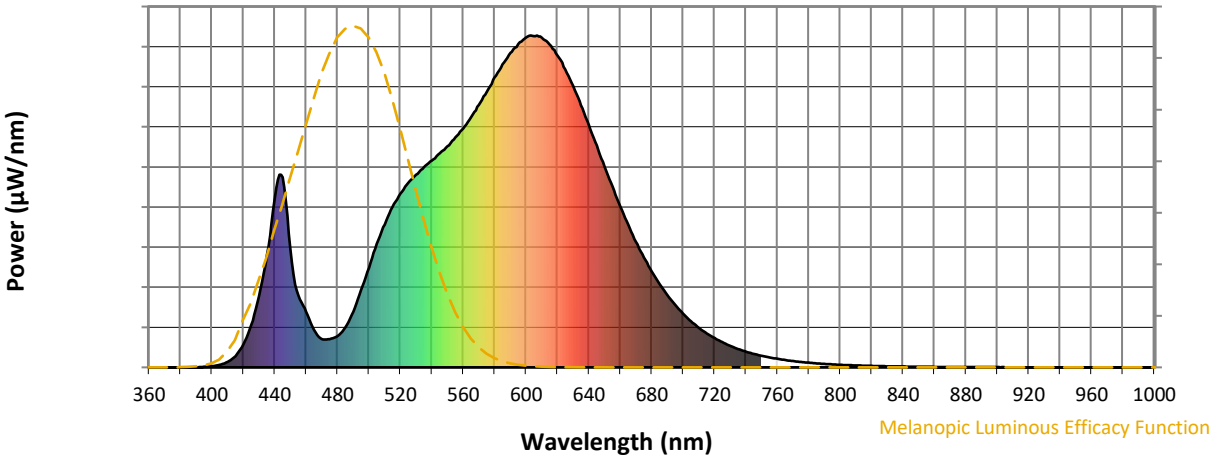
Melanopic Flux vs. Wavelength



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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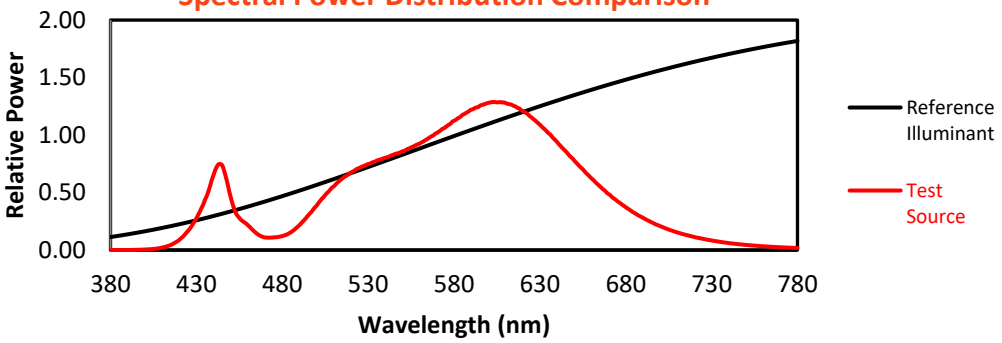
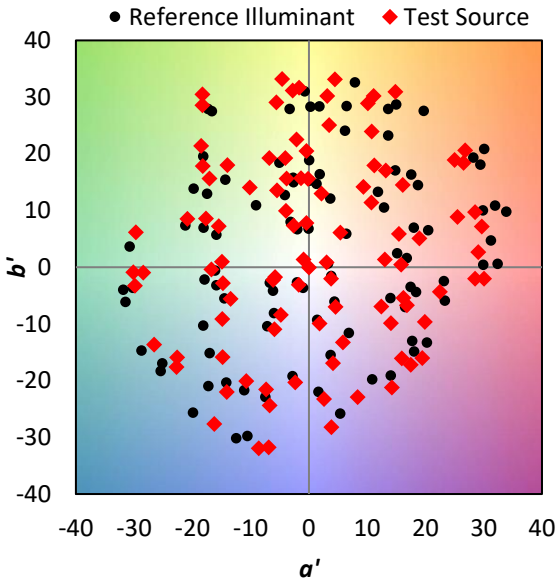
Summary

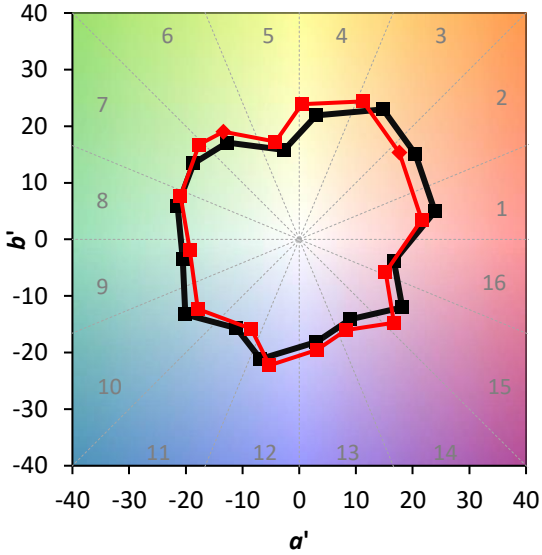
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

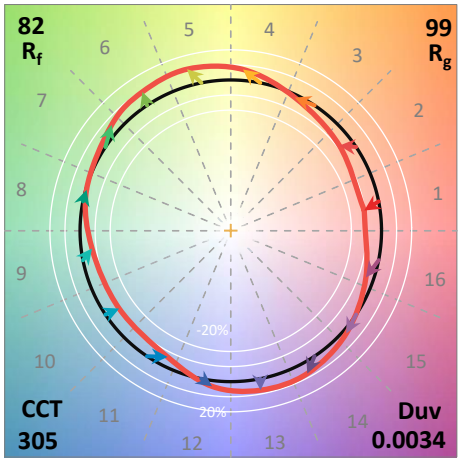
Spectral Power Distribution Comparison

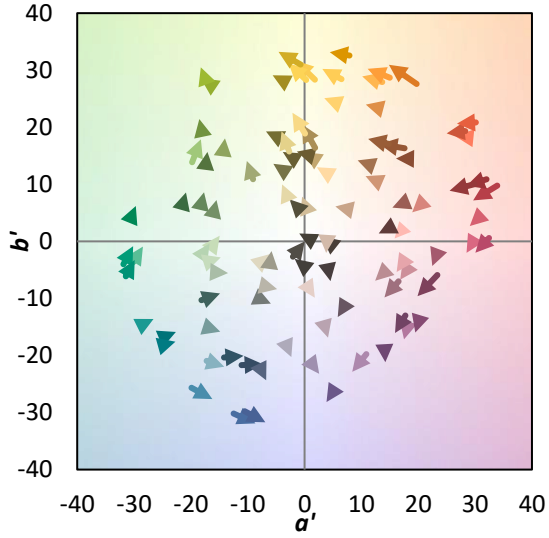


Color Vector Graphics









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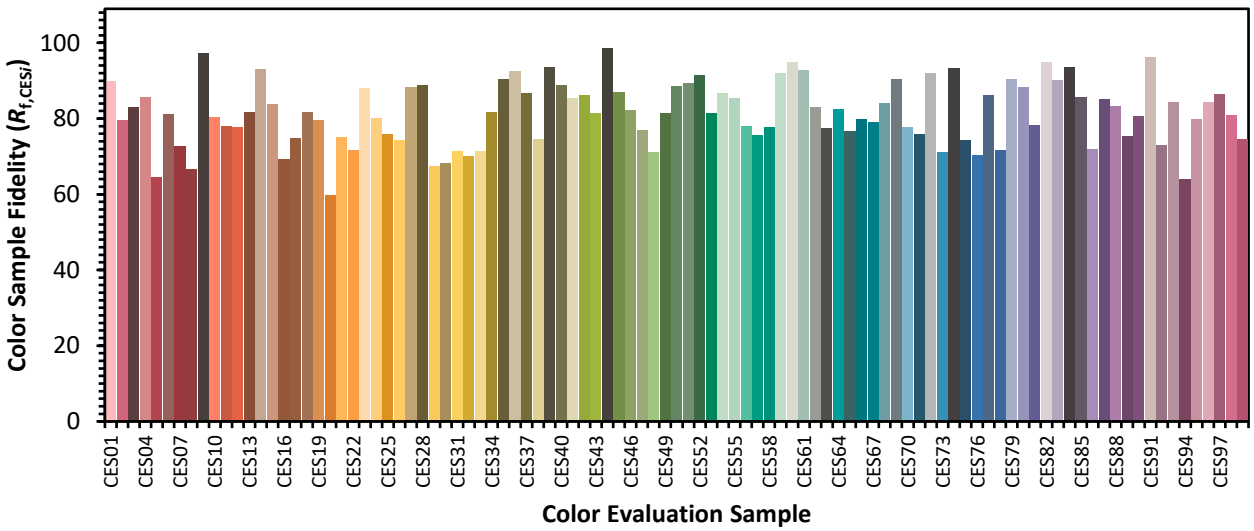
Individual Sample Fidelity Index ($R_{f,i}$)

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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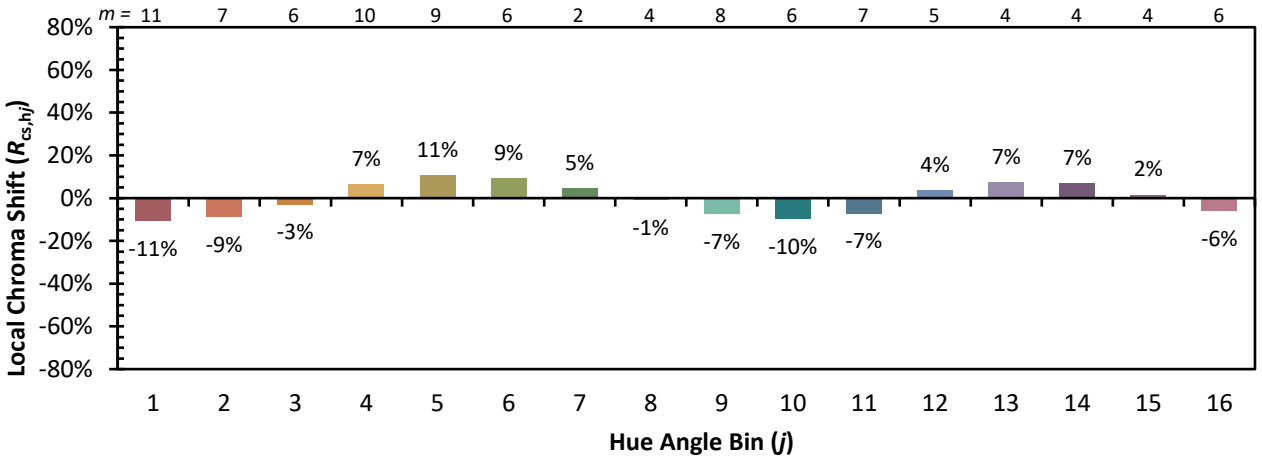
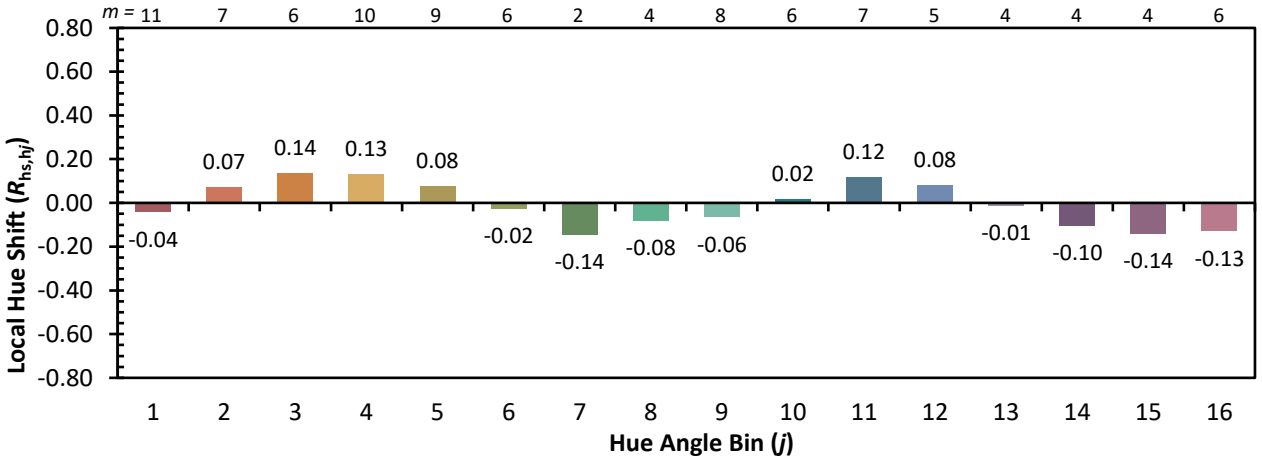
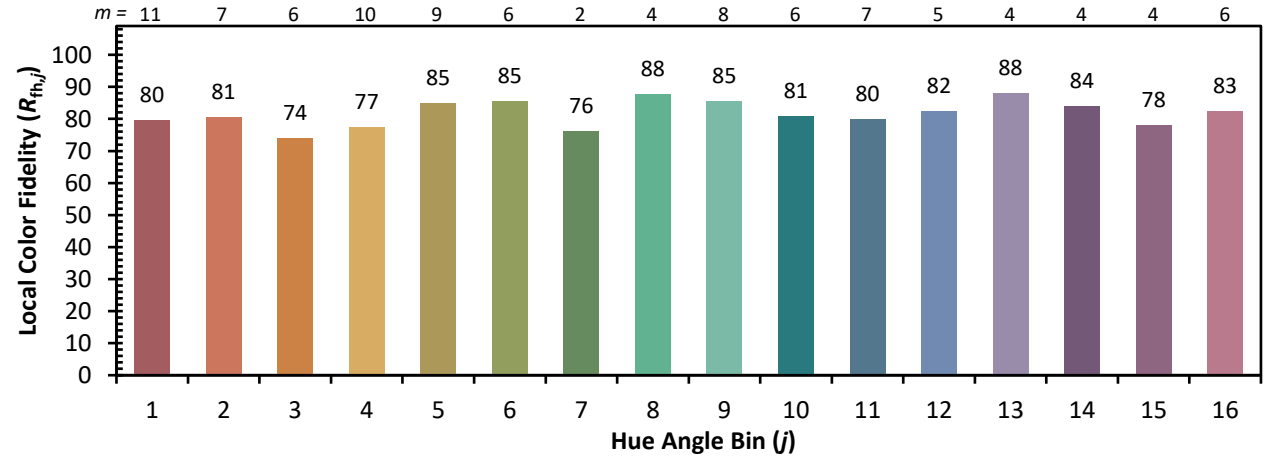
Color Rendition by Hue-Angle Bin







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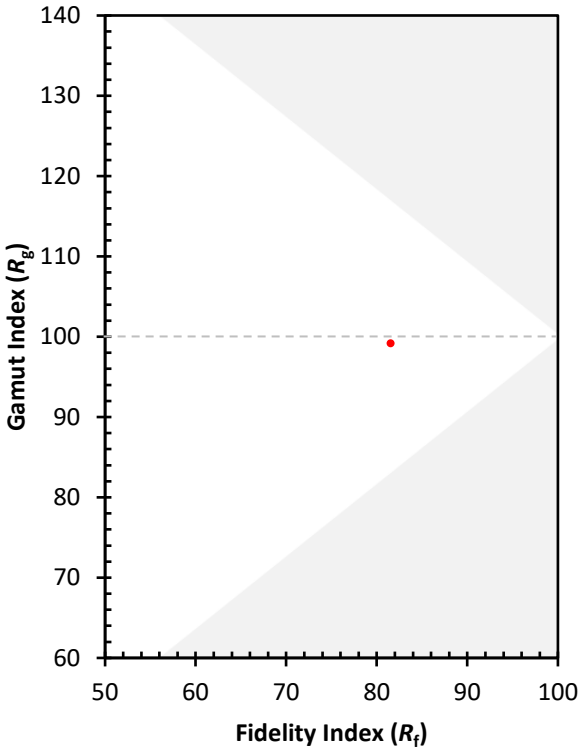
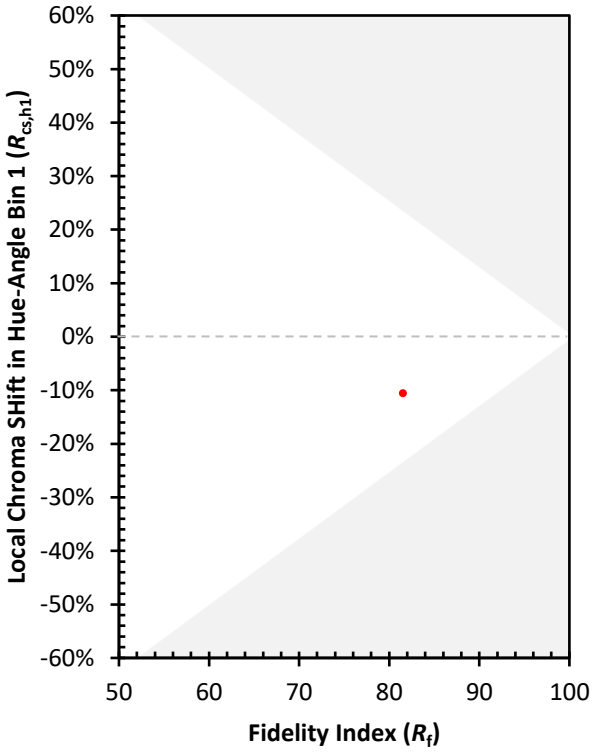
Measure Comparisons





(END OF REPORT)