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: P630552

Luminaire Tested: GWS-SA1D-830-U-SL2-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:	P630552
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1D-830-U-SL2-W
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4733.6 lumens
Efficiency:	N/A
Efficacy:	106.9 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):	44.3
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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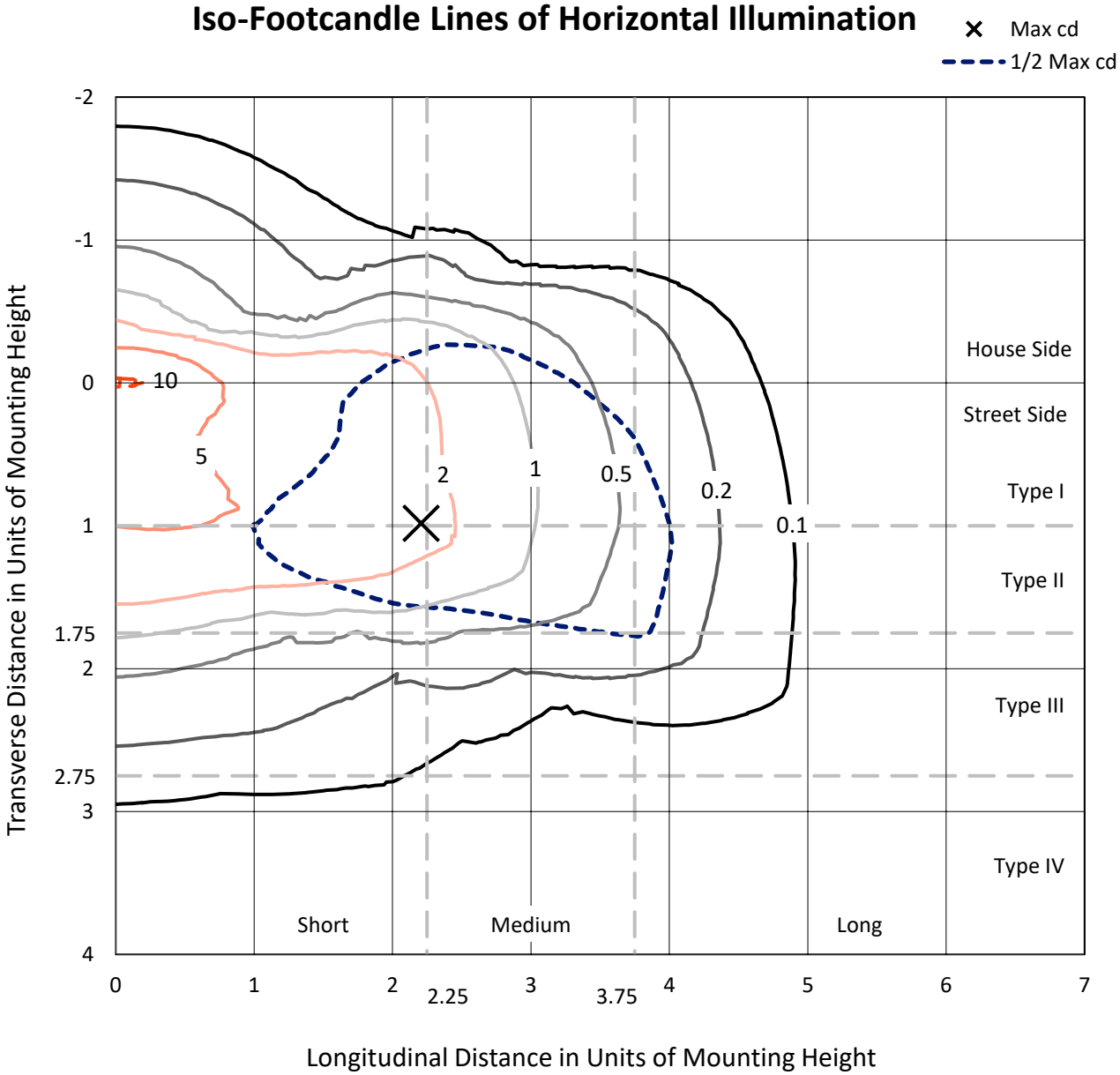
REPORT NUMBER: P630552
CATALOG NUMBER: GWS-SA1D-830-U-SL2-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 10.5 fc
Type II - Short - N/A

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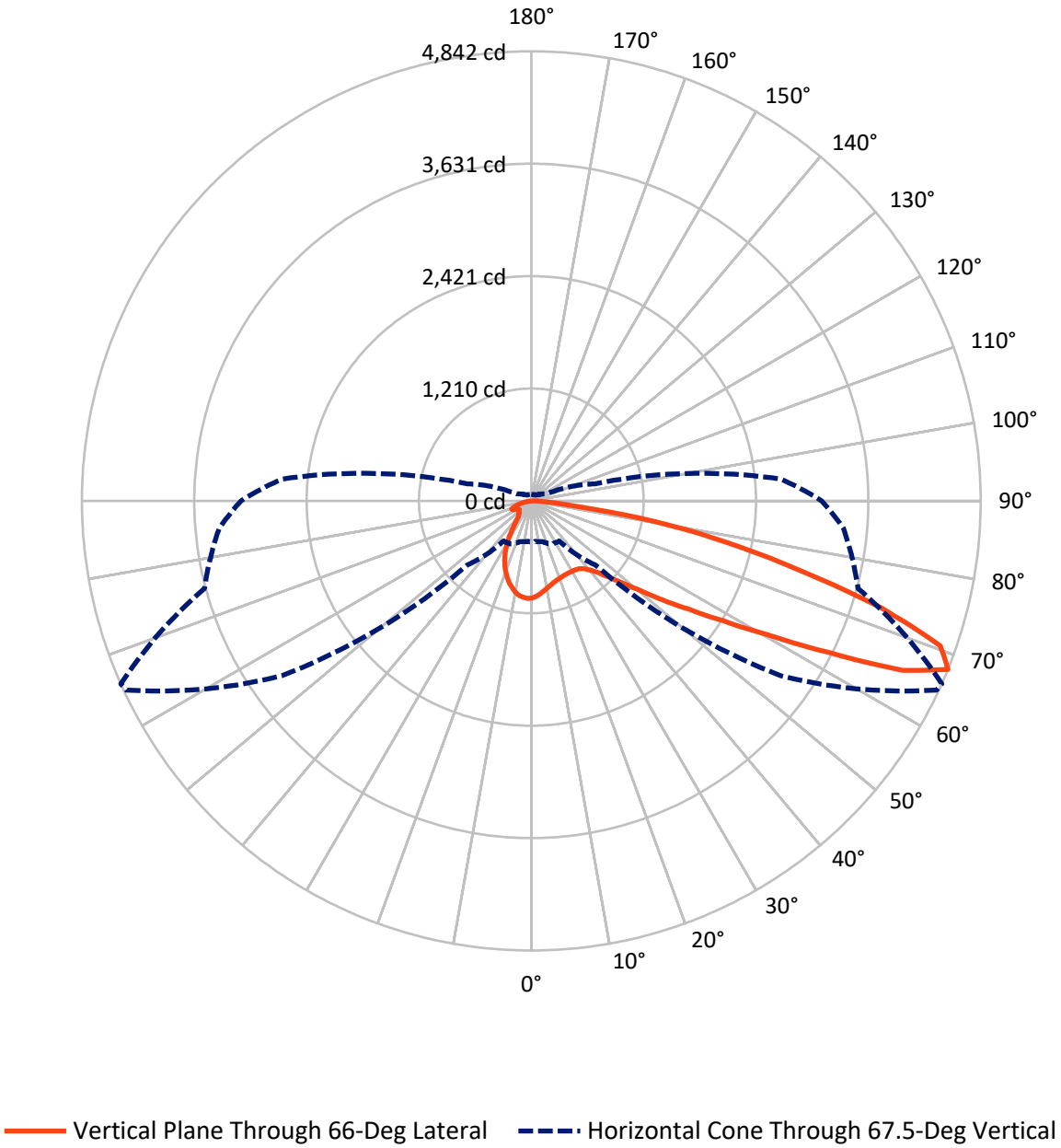
Luminous Intensity Polar Plot



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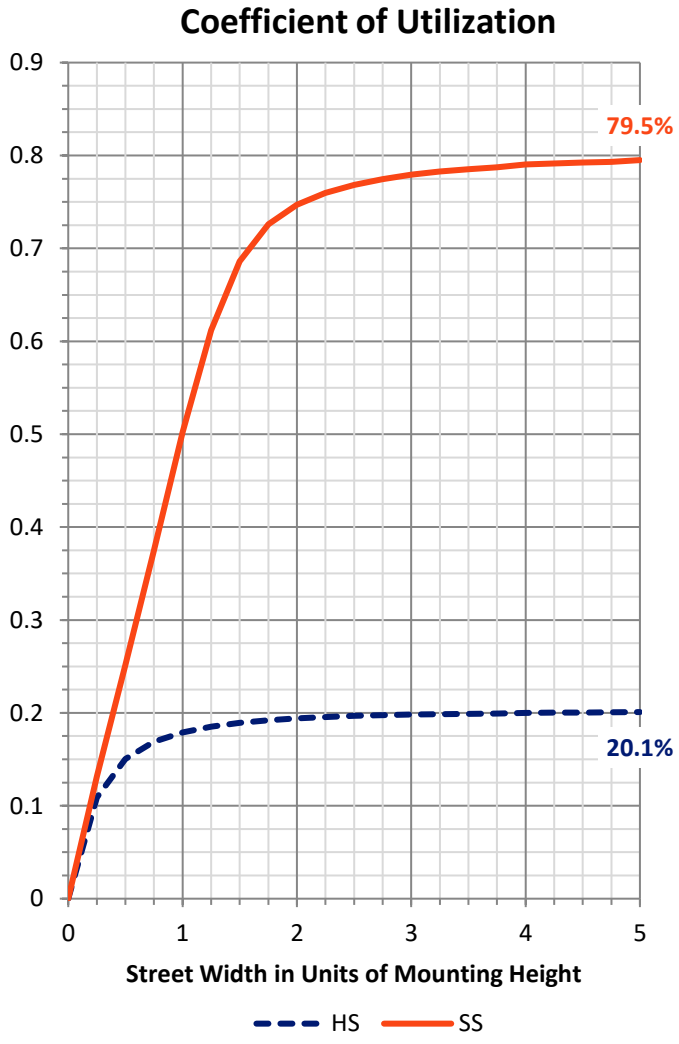
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	960.5	0.0	960.5
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	3773.0	0.0	3773.0
	% Fixture	79.7	0.0	79.7
Total	Lumens	4733.6	0.0	4733.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	1.9
10°-20°	225.6	4.8
20°-30°	310.1	6.6
30°-40°	424.0	9.0
40°-50°	642.4	13.6
50°-60°	998.6	21.1
60°-70°	1215.8	25.7
70°-80°	740.6	15.6
80°-90°	84.6	1.8
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°	4733.6	100.0
0°-180°	4733.6	100.0



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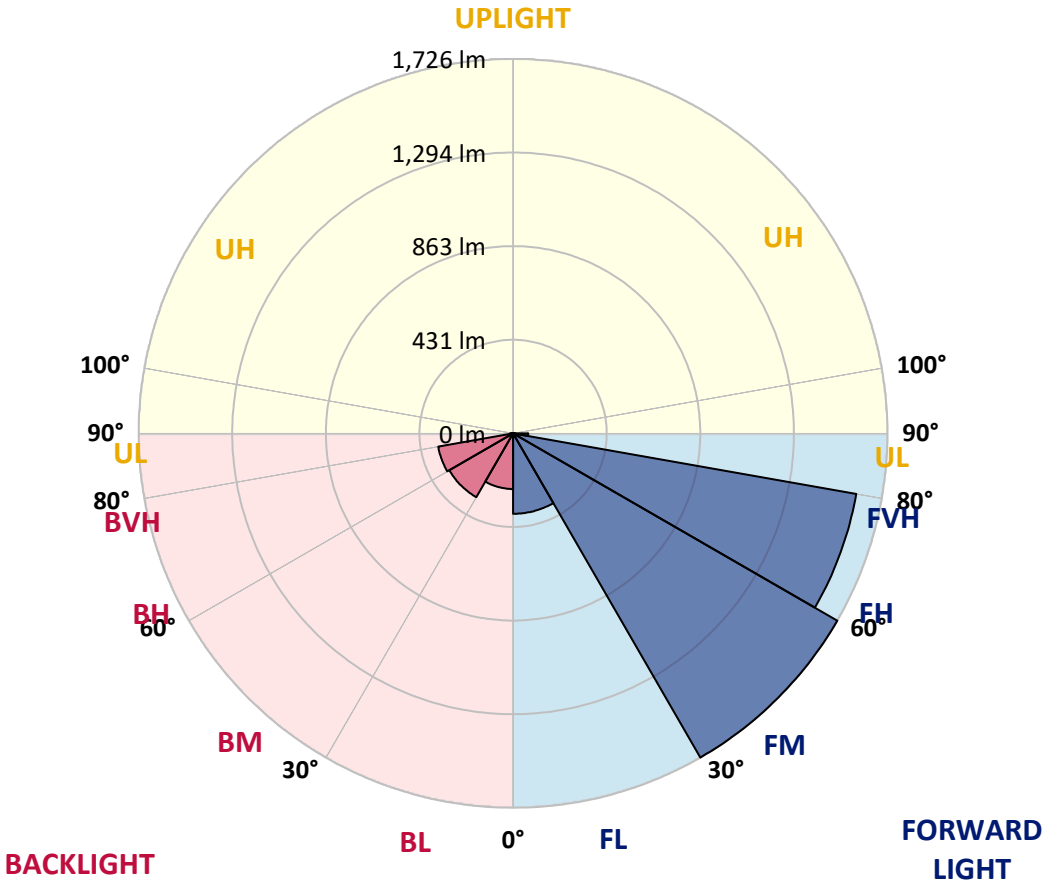
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	370.9	7.8			
FM	(30°-60°)	1725.6	36.5			
FH	(60°-80°)	1606.2	33.9			G1/1800
FVH	(80°-90°)	70.3	1.5			G1/100
BL	(0°-30°)	256.6	5.4	B1/500		
BM	(30°-60°)	339.4	7.2	B1/1000		
BH	(60°-80°)	350.2	7.4	B1/500		G1/500
BVH	(80°-90°)	14.3	0.3			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 II Short



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REPORT NUMBER: P630552
CATALOG NUMBER: GWS-SA1D-830-U-SL2-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1046.0	1046.0	1046.0	1046.0	1046.0	1046.0	1046.0	1046.0	*1046.0*	1046.0	1046.0
2.5°	979.7	983.1	981.1	994.2	994.9	1011.5	1020.8	1028.7	*1029.4*	1039.8	1046.7
5°	912.7	914.8	914.8	927.2	935.5	957.6	979.0	1001.8	*1003.5*	1028.4	1047.4
7.5°	858.5	860.6	859.2	875.7	886.5	911.0	938.2	973.1	*976.6*	1016.6	1049.8
10°	816.0	815.3	818.8	834.0	847.8	877.1	907.5	947.2	*952.4*	1003.2	1052.6
12.5°	787.0	787.7	789.8	805.6	820.5	849.5	880.9	924.1	*929.6*	987.6	1051.2
15°	773.2	771.8	773.5	788.0	802.2	827.7	860.2	904.8	*910.3*	973.8	1051.5
17.5°	770.1	769.0	768.7	779.1	789.8	813.6	844.7	889.9	*895.8*	964.8	1053.6
20°	779.7	778.4	774.6	779.1	783.5	803.6	833.6	879.2	*885.8*	959.0	1057.7
22.5°	806.3	803.9	798.0	792.5	786.7	798.7	826.7	871.3	*877.8*	955.2	1061.9
25°	846.7	844.7	838.5	826.0	804.6	802.5	825.3	867.8	*874.4*	952.4	1063.6
27.5°	902.3	899.2	893.0	875.1	840.2	816.7	830.5	867.5	*873.7*	949.3	1061.9
30°	968.3	966.2	962.8	941.0	894.4	846.7	842.2	870.2	*875.1*	947.6	1058.4
32.5°	1035.3	1033.2	1036.0	1025.6	968.3	896.5	867.8	877.8	*881.3*	947.2	1055.3
35°	1094.3	1096.8	1116.8	1118.5	1062.2	963.8	908.2	895.4	*896.1*	954.1	1056.7
37.5°	1156.2	1165.5	1191.7	1214.2	1167.2	1052.9	968.3	928.6	*927.9*	971.7	1065.3
40°	1238.0	1242.1	1275.6	1317.8	1288.4	1175.1	1053.6	982.8	*978.0*	1007.7	1088.5
42.5°	1317.8	1327.8	1381.3	1429.6	1420.0	1312.9	1161.0	1063.9	*1055.3*	1071.2	1136.1
45°	1419.3	1429.0	1489.0	1551.2	1568.8	1468.7	1298.4	1179.3	*1170.7*	1166.9	1223.5
47.5°	1520.8	1530.8	1584.7	1674.5	1736.3	1663.4	1477.3	1331.6	*1317.4*	1302.6	1355.4
50°	1589.2	1600.9	1652.4	1760.1	1905.2	1906.5	1689.3	1531.2	*1513.2*	1489.7	1541.2
52.5°	1586.8	1594.4	1643.4	1767.7	2026.7	2185.9	1973.2	1785.3	*1770.8*	1719.7	1764.6
55°	1462.1	1473.5	1522.9	1678.3	2039.8	2450.8	2390.3	2085.1	*2059.2*	1967.7	2017.0
57.5°	1211.7	1221.4	1271.1	1462.8	1923.5	2586.5	2920.1	2467.0	*2431.4*	2237.7	2294.7
60°	914.8	903.0	926.5	1094.3	1645.1	2589.9	3387.6	2985.0	*2925.6*	2526.4	2574.1
62.5°	686.5	674.8	679.9	727.3	1115.4	2380.7	3654.2	3693.6	*3595.5*	2852.4	2843.1
65°	542.5	535.9	550.8	583.3	650.2	1813.0	3656.3	4459.9	*4398.1*	3230.2	3119.0
67.5°	*442.0*	*437.9*	*453.1*	*513.2*	*527.3*	*974.2*	*3278.5*	*4817.6*	*4841.8*	*3643.9*	*3374.9*
70°	356.0	349.8	373.6	452.7	490.4	589.5	2348.6	4635.3	*4674.3*	3890.4	3302.7
72.5°	245.9	246.2	258.3	366.7	473.4	509.0	1328.5	3859.7	*3944.3*	3667.0	2903.5
75°	165.8	167.1	170.6	242.1	436.1	493.8	707.9	2922.1	*2981.9*	3030.9	2400.0
77.5°	100.1	100.8	108.8	146.4	300.8	461.0	479.7	2118.2	*2165.2*	1998.1	1487.7
80°	58.0	60.4	67.7	98.1	203.1	346.4	371.2	1298.8	*1351.9*	888.2	472.8
82.5°	25.6	27.3	36.9	57.0	118.4	294.6	289.7	513.2	*505.6*	247.6	164.0
85°	4.5	5.5	7.9	18.0	43.5	155.4	224.8	226.5	*213.1*	93.9	68.0
87.5°	0.0	0.0	0.0	0.0	0.0	1.0	33.8	60.8	*60.4*	26.6	23.5
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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REPORT NUMBER: P630552
CATALOG NUMBER: GWS-SA1D-830-U-SL2-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1046.0	1046.0	1046.0	1046.0	1046.0	1046.0	1046.0	1046.0	1046.0	1046.0	1046.0
2.5°	1051.2	1041.8	1050.1	1051.2	1049.4	1048.1	1037.7	1028.7	1027.7	1018.0	1018.0
5°	1055.0	1046.3	1050.5	1042.5	1030.1	1017.3	995.2	980.0	973.1	960.7	960.7
7.5°	1060.1	1051.2	1046.3	1026.7	997.6	969.7	934.1	904.4	892.3	874.7	874.0
10°	1065.0	1053.6	1037.0	998.7	952.4	907.9	856.1	813.9	785.3	764.2	764.2
12.5°	1064.6	1049.8	1017.0	960.4	896.5	831.9	762.8	699.3	661.3	628.5	626.4
15°	1063.9	1043.6	991.4	915.8	831.2	741.8	647.8	565.0	508.7	476.5	473.8
17.5°	1063.3	1035.6	962.8	865.0	751.8	629.9	505.9	416.1	369.2	349.5	350.2
20°	1063.3	1026.7	932.0	806.7	660.3	495.9	371.2	306.0	294.2	295.3	296.3
22.5°	1060.1	1015.6	897.8	743.1	558.4	364.7	273.8	251.7	258.0	267.6	269.0
25°	1052.9	997.3	858.1	672.7	437.2	265.6	223.4	219.3	230.7	242.8	246.2
27.5°	1041.5	976.2	813.6	590.2	321.8	213.4	196.5	196.1	205.1	214.1	217.2
30°	1029.4	952.8	766.6	498.3	233.1	185.8	179.2	179.2	183.7	189.2	188.5
32.5°	1015.3	928.9	716.2	402.6	189.9	170.2	168.2	167.1	167.8	169.9	169.9
35°	1003.2	907.9	664.4	301.5	170.2	161.6	159.5	157.1	156.1	154.7	155.4
37.5°	998.7	891.3	610.9	227.2	160.6	155.4	151.9	148.5	146.1	145.4	145.0
40°	1005.9	884.4	557.4	187.2	153.7	148.8	145.0	140.5	138.5	138.5	138.5
42.5°	1034.3	889.6	502.8	169.2	148.8	143.3	137.8	133.6	133.0	133.6	134.0
45°	1086.0	909.6	446.2	160.2	144.7	137.8	131.2	128.1	128.1	128.8	128.8
47.5°	1178.6	962.1	390.2	154.7	140.5	133.3	126.4	123.3	122.9	123.6	123.6
50°	1338.8	1056.7	339.8	150.9	137.4	129.8	122.9	118.8	117.8	117.4	117.4
52.5°	1540.8	1220.7	307.7	148.1	133.6	126.0	119.1	113.6	111.5	110.5	110.5
55°	1785.0	1439.3	307.7	146.1	128.8	121.6	113.6	108.1	105.0	103.6	103.6
57.5°	2061.6	1693.8	360.9	144.3	125.0	116.4	107.7	102.2	98.8	96.7	96.7
60°	2343.0	1962.8	492.4	141.9	121.6	109.8	101.2	96.0	91.5	89.1	88.7
62.5°	2634.8	2259.1	665.8	143.3	119.1	103.6	94.3	88.4	84.6	82.2	81.8
65°	2902.1	2541.3	817.4	154.0	119.5	98.1	86.3	81.2	78.0	74.9	74.6
67.5°	*3129.0*	*2697.0*	*711.0*	*175.8*	*126.7*	*91.5*	*78.4*	*73.2*	*70.4*	*68.4*	*68.0*
70°	2970.1	2459.4	403.3	189.2	136.7	84.6	69.4	66.0	63.2	61.8	61.5
72.5°	2539.9	2082.3	269.7	167.1	124.7	75.6	61.1	58.4	56.3	54.6	54.2
75°	2057.4	1651.3	206.2	137.1	97.0	61.5	52.5	50.4	48.3	46.6	46.3
77.5°	1217.3	954.1	151.9	108.4	68.4	48.0	43.5	41.8	39.7	38.3	38.0
80°	388.5	331.5	96.3	74.6	45.2	36.9	33.5	32.1	30.0	28.3	28.0
82.5°	148.1	128.1	51.1	38.0	30.0	25.2	22.4	21.1	19.7	18.0	17.6
85°	65.6	61.5	28.3	20.4	16.2	12.4	11.1	10.4	8.6	7.3	6.9
87.5°	23.1	23.1	12.1	5.9	3.5	1.7	1.0	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

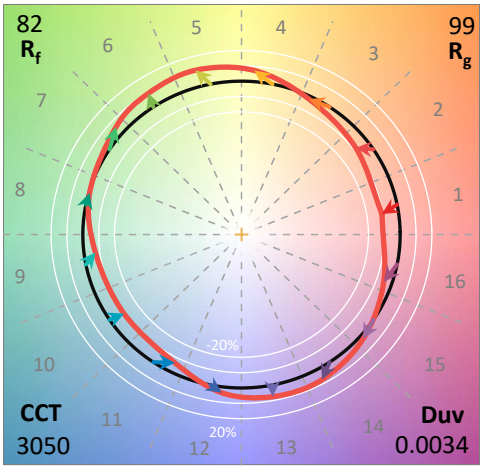
Test Information

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

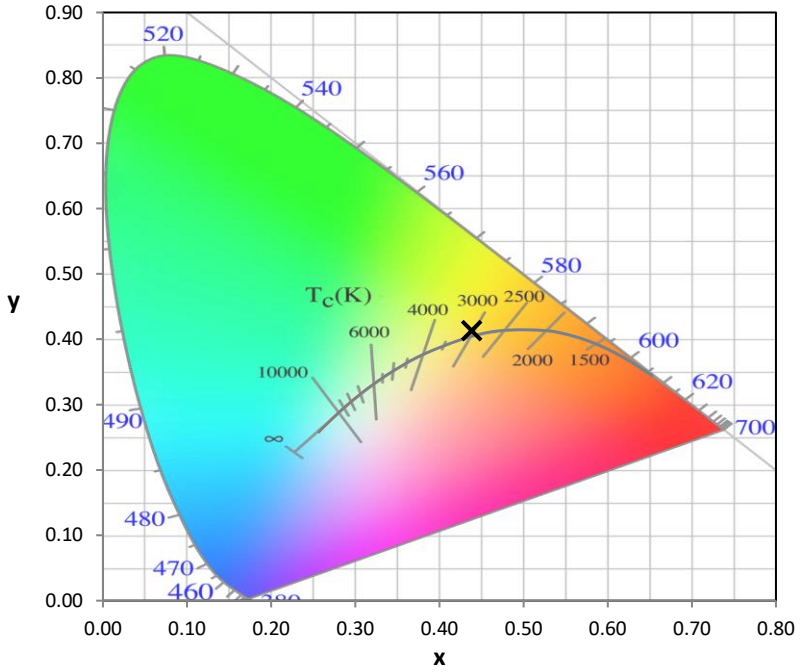
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

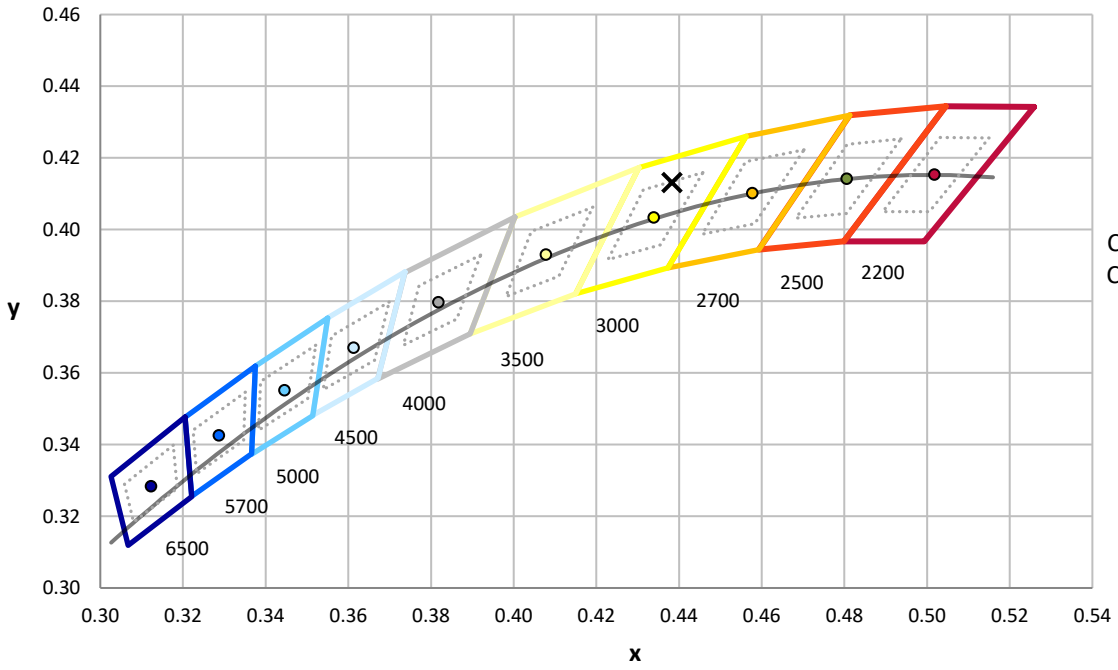
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

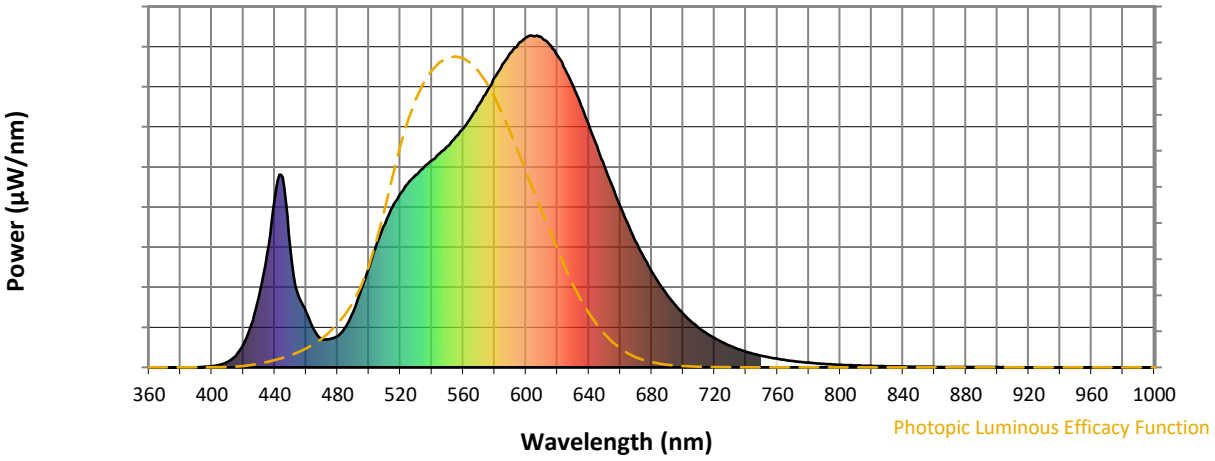


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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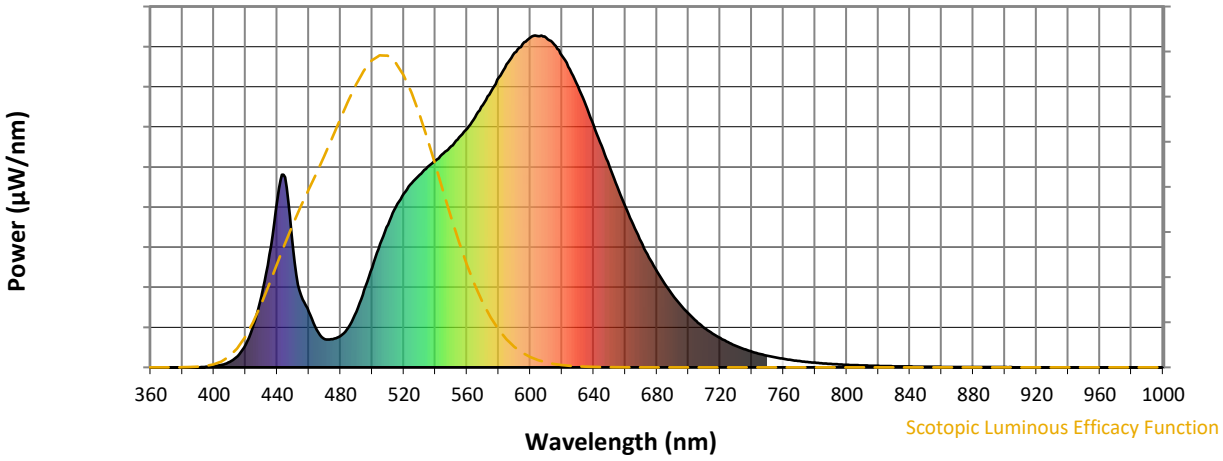
Scotopic Flux vs. Wavelength



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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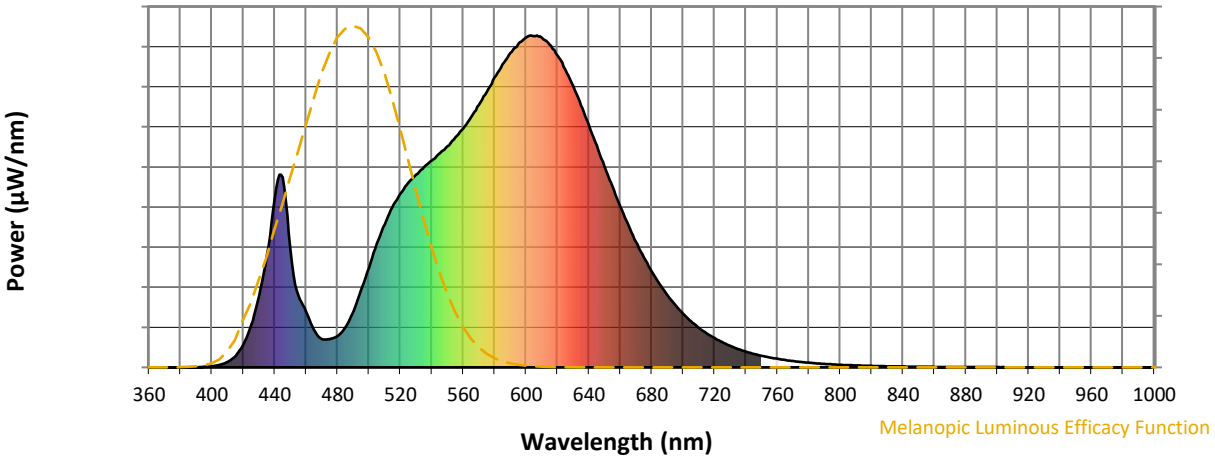
Melanopic Flux vs. Wavelength



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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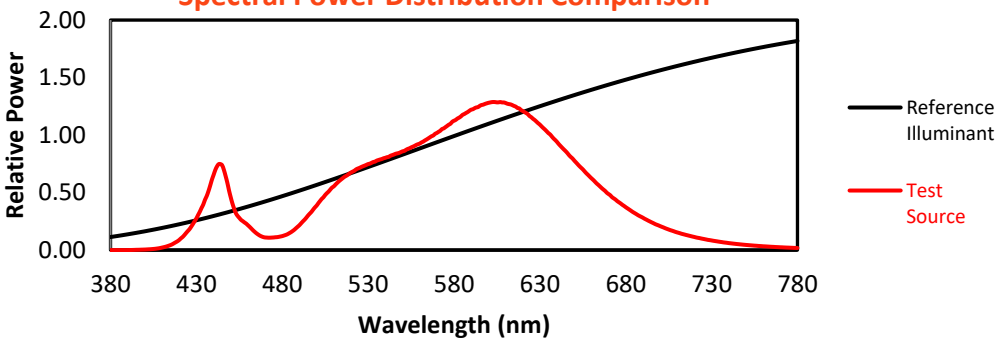
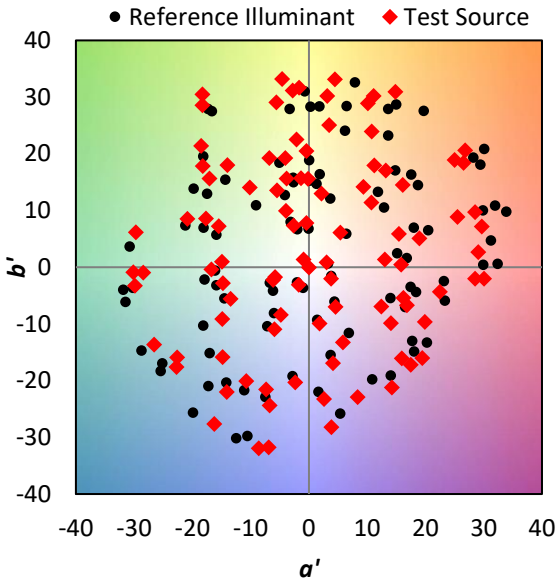
Summary

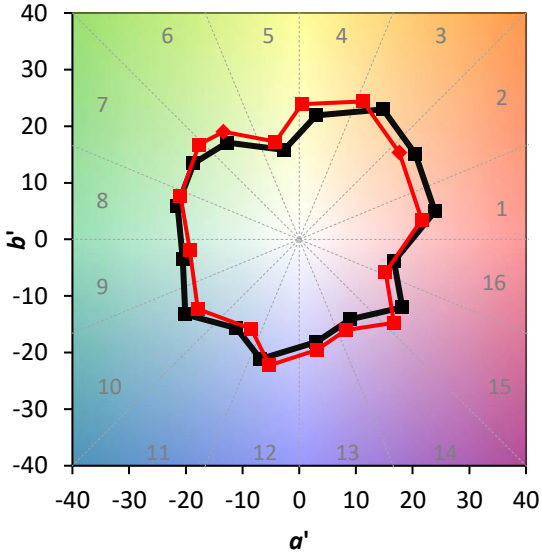
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

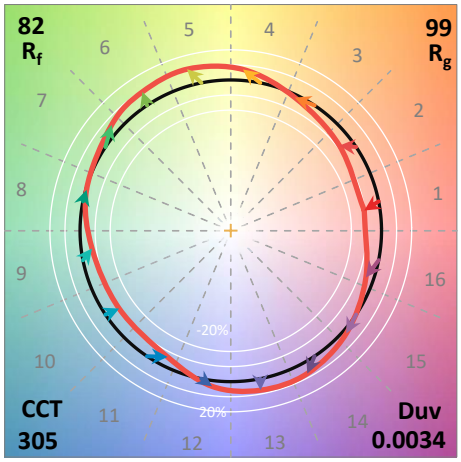
Spectral Power Distribution Comparison

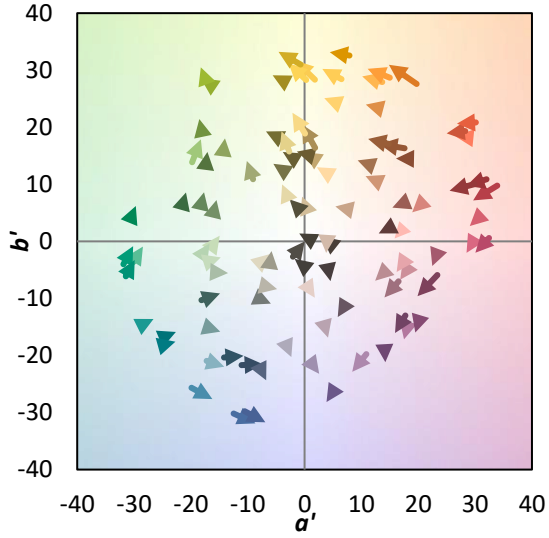


Color Vector Graphics









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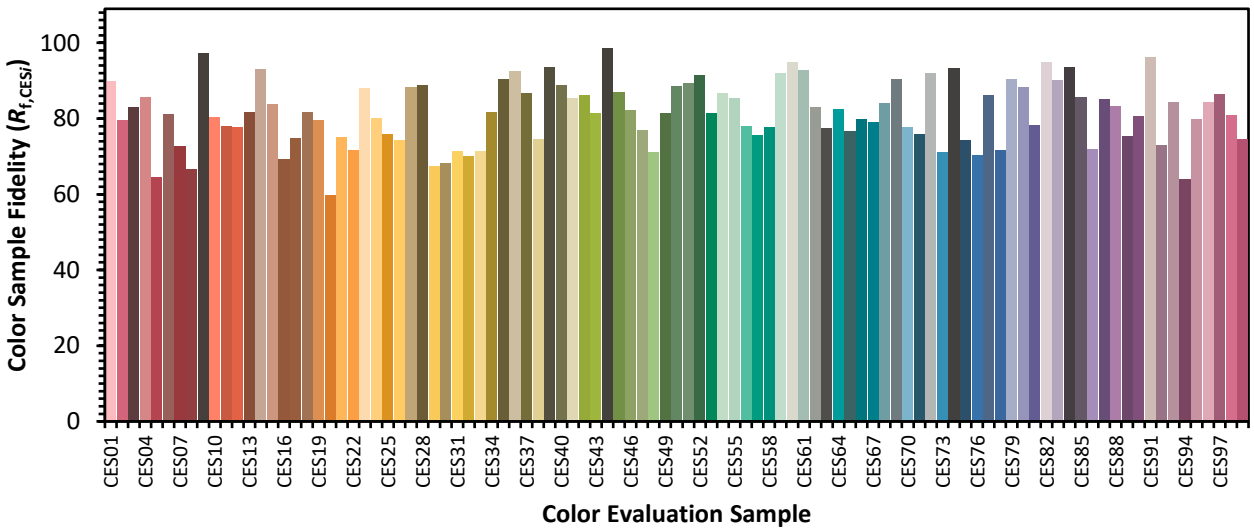
Individual Sample Fidelity Index ($R_{f,i}$)

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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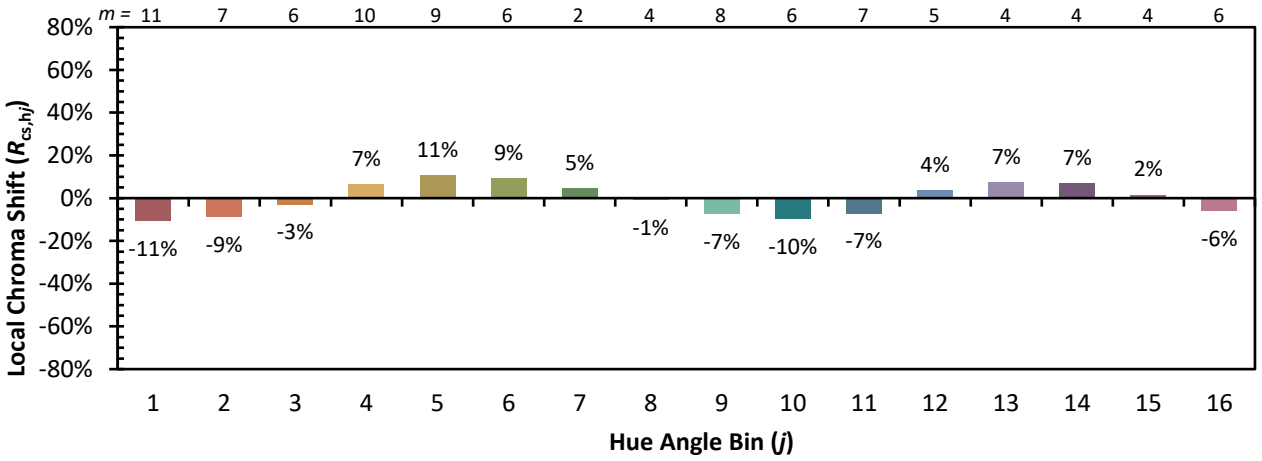
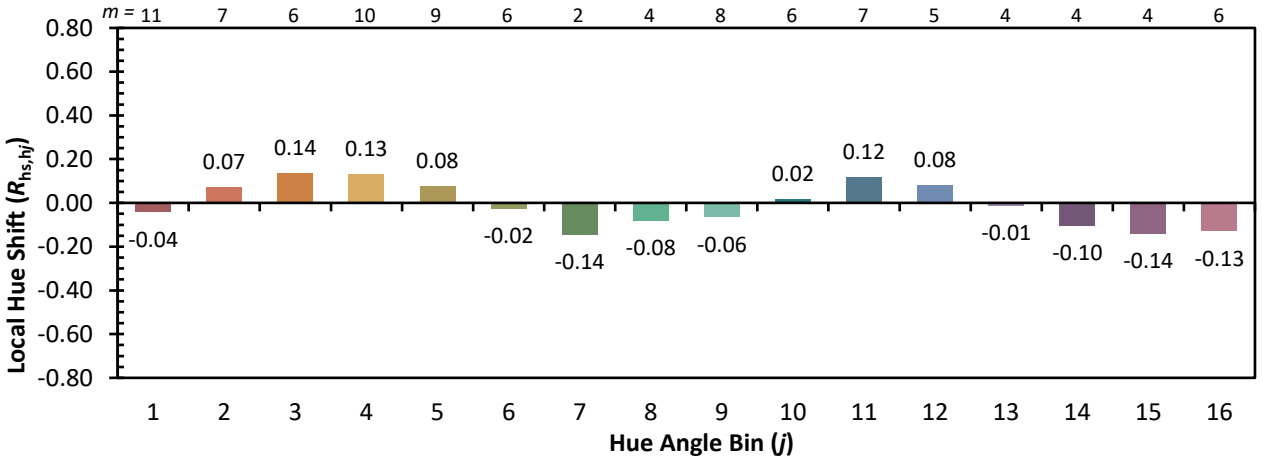
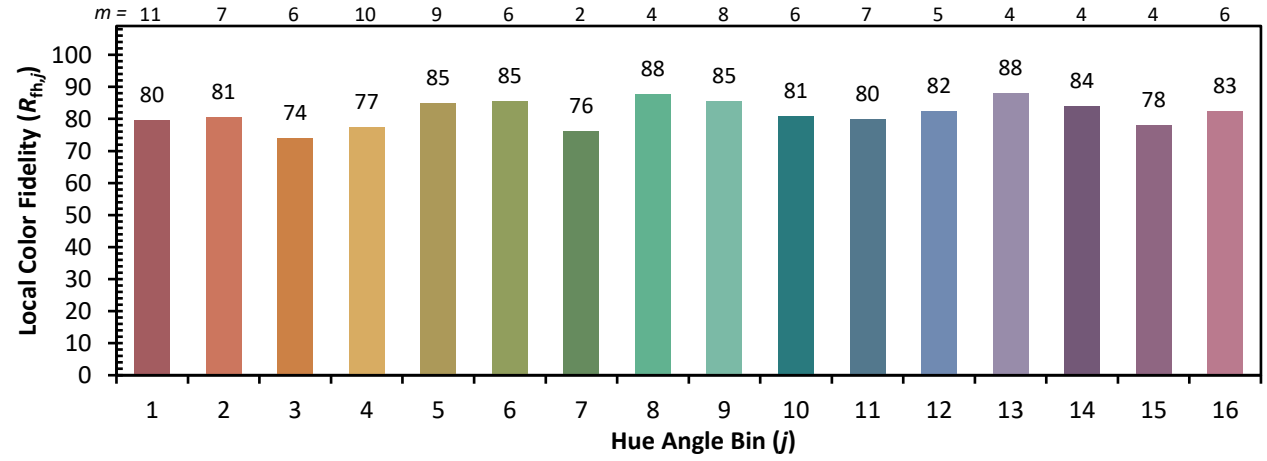
Color Rendition by Hue-Angle Bin







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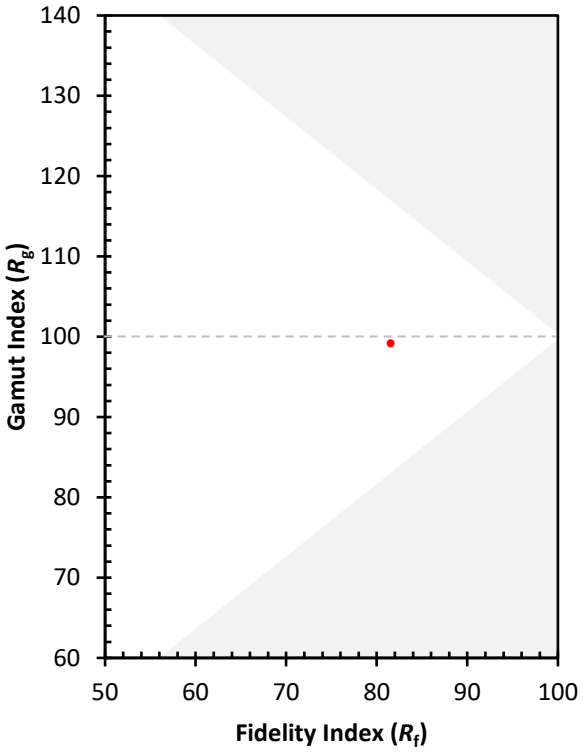
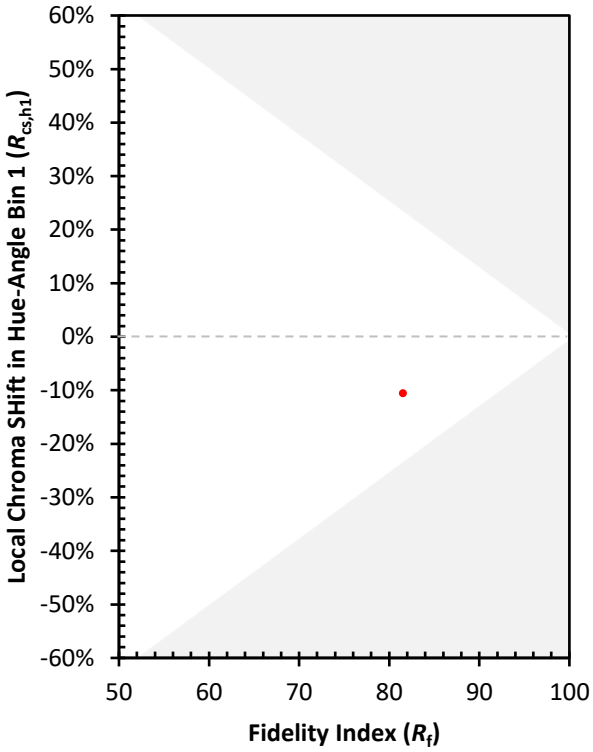
Measure Comparisons





(END OF REPORT)