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: P630582

Luminaire Tested: GWS-SA1D-830-U-T3R-W-HSS

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:	P630582
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1D-830-U-T3R-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3770.9 lumens
Efficiency:	N/A
Efficacy:	85.1 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type III - Medium
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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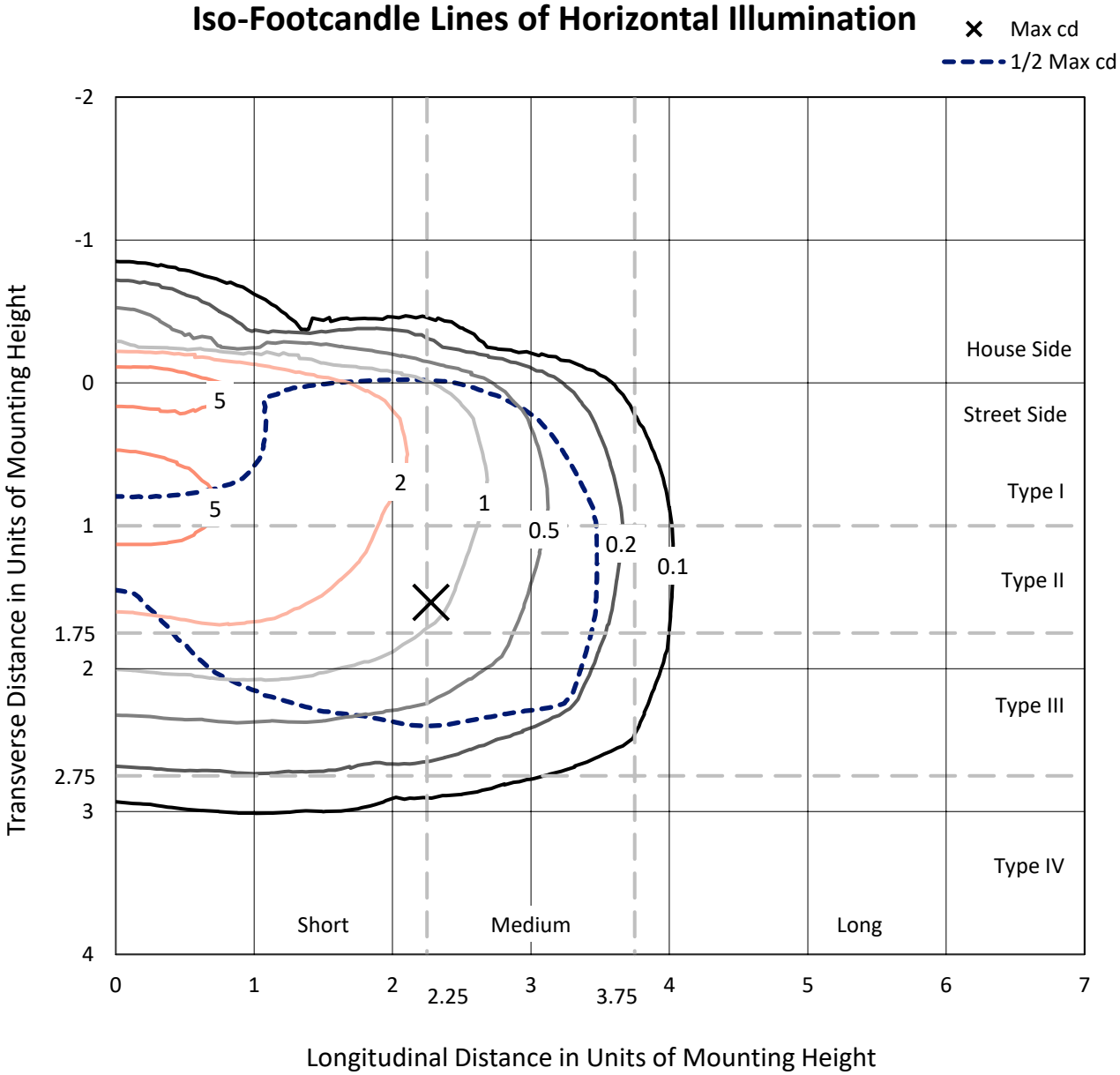
Scaled Data Report

REPORT NUMBER: P630582
CATALOG NUMBER: GWS-SA1D-830-U-T3R-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 7.2 fc
Type III - Medium - N/A

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REPORT NUMBER: P630582
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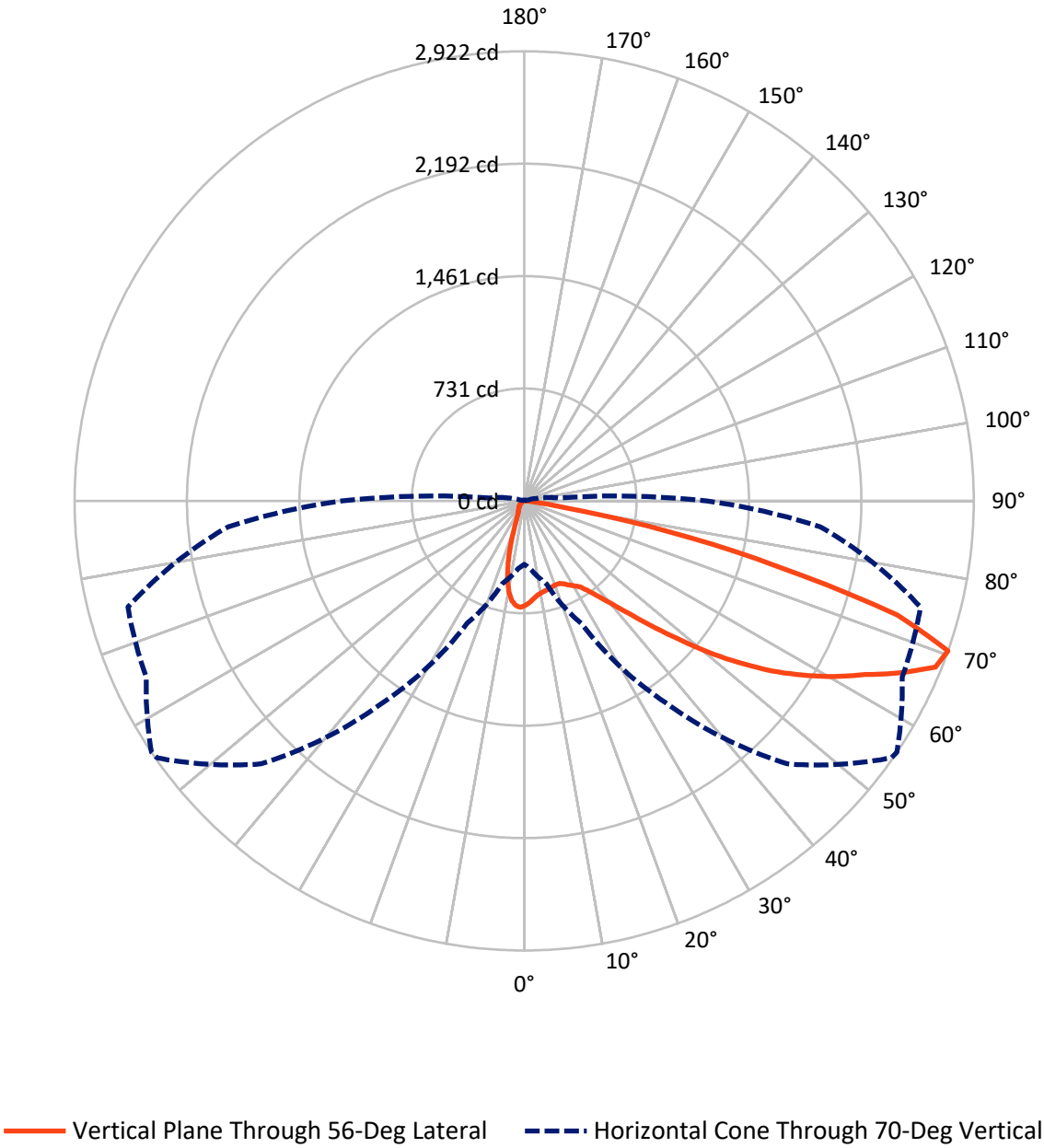
Luminous Intensity Polar Plot



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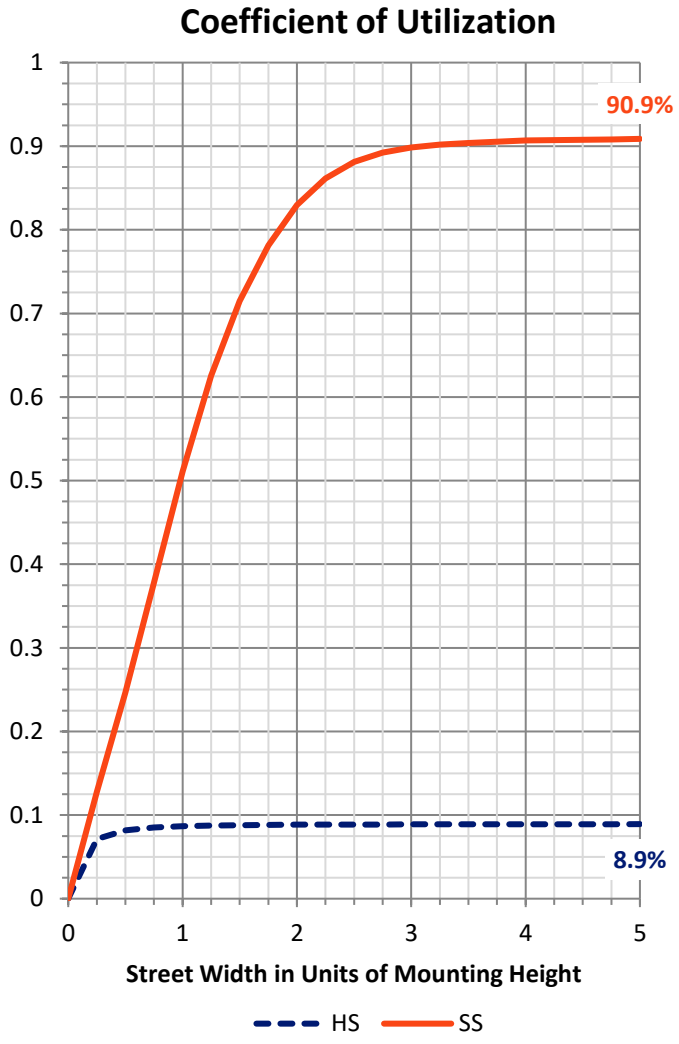
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	338.7	0.0	338.7
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	3432.2	0.0	3432.2
	% Fixture	91.0	0.0	91.0
Total	Lumens	3770.9	0.0	3770.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.4	1.5
10°-20°	131.3	3.5
20°-30°	208.0	5.5
30°-40°	358.7	9.5
40°-50°	605.6	16.1
50°-60°	889.9	23.6
60°-70°	1055.0	28.0
70°-80°	449.9	11.9
80°-90°	14.1	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°	3770.9	100.0
0°-180°	3770.9	100.0



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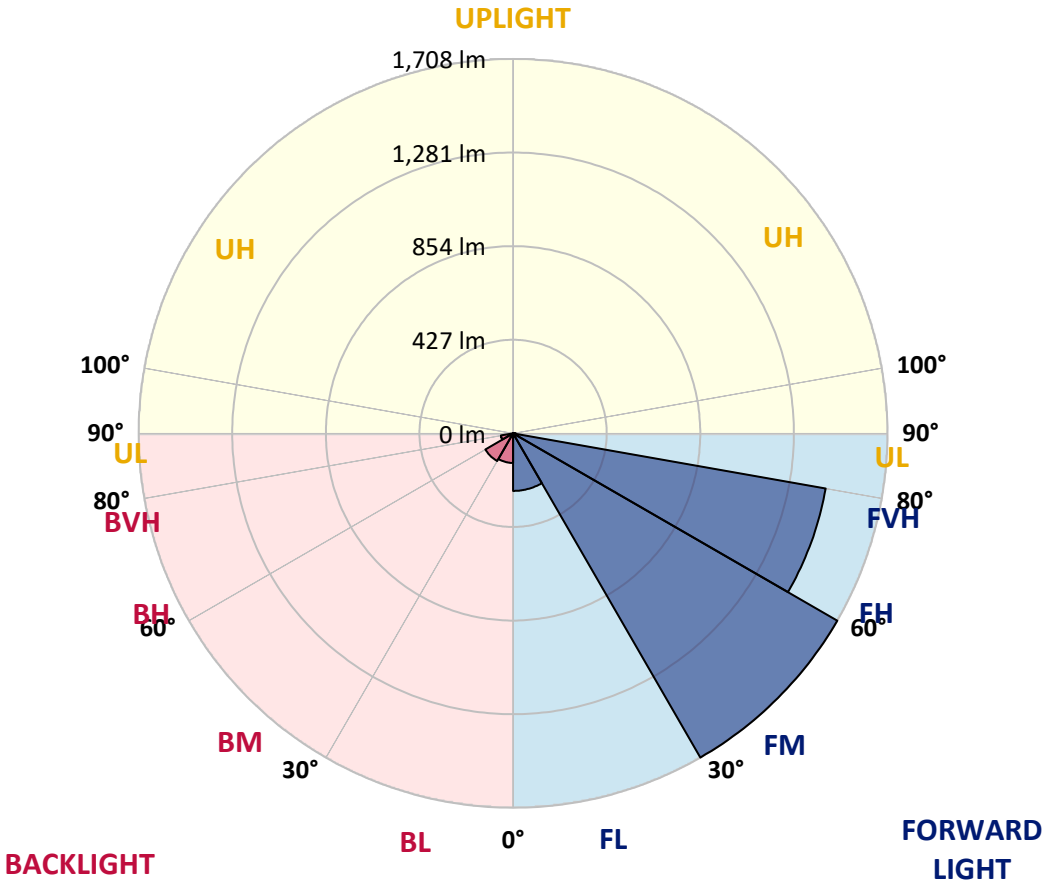
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	262.8	7.0			
FM	(30°-60°)	1708.3	45.3			
FH	(60°-80°)	1448.4	38.4			G1/1800
FVH	(80°-90°)	12.7	0.3			G1/100
BL	(0°-30°)	134.9	3.6	B1/500		
BM	(30°-60°)	145.9	3.9	B0/220		
BH	(60°-80°)	56.5	1.5	B0/110		G0/110
BVH	(80°-90°)	1.4	0.0			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 III Medium



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REPORT NUMBER: P630582
CATALOG NUMBER: GWS-SA1D-830-U-T3R-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	679.9	679.9	679.9	679.9	679.9	679.9	679.9	*679.9*	679.9	679.9	679.9
2.5°	633.0	631.9	632.6	637.8	647.5	652.0	659.6	*660.9*	667.2	675.1	678.2
5°	591.9	588.4	590.1	597.4	608.5	620.9	635.0	*638.8*	654.4	672.0	685.1
7.5°	554.2	550.4	554.6	566.0	581.5	595.0	616.0	*618.5*	643.3	674.4	698.2
10°	495.2	496.2	504.5	524.5	548.4	576.3	604.7	*608.1*	638.8	682.3	719.3
12.5°	449.9	447.5	456.5	479.3	512.8	553.5	596.0	*600.5*	639.2	694.4	746.2
15°	428.9	428.2	432.0	448.6	481.0	529.0	588.1	*593.9*	643.7	705.5	771.8
17.5°	429.6	428.5	428.2	437.9	462.0	510.7	579.4	*587.0*	647.5	717.6	798.7
20°	459.6	454.8	446.2	441.7	456.2	499.0	573.6	*582.2*	653.0	730.3	827.4
22.5°	522.5	524.2	501.1	476.9	470.0	500.4	572.9	*582.9*	665.1	750.4	862.6
25°	648.2	645.4	602.6	548.4	510.7	516.3	585.0	*597.1*	688.9	779.0	895.8
27.5°	805.6	808.0	749.3	663.0	584.3	549.1	607.1	*619.2*	716.5	797.0	917.9
30°	977.3	974.8	912.0	816.3	688.6	603.6	629.2	*639.9*	730.3	806.7	940.6
32.5°	1139.5	1134.0	1071.9	971.7	821.5	689.6	659.6	*665.8*	748.6	827.7	971.4
35°	1278.0	1277.7	1223.5	1116.8	958.3	797.3	711.7	*716.9*	782.8	861.2	1016.6
37.5°	1421.0	1416.1	1355.4	1258.0	1098.8	915.4	791.5	*789.4*	836.7	910.6	1072.2
40°	1538.4	1535.3	1488.7	1395.1	1244.9	1046.0	888.2	*881.9*	900.6	979.0	1149.6
42.5°	1625.4	1625.8	1611.3	1554.3	1399.6	1196.9	1009.7	*1000.0*	999.7	1082.2	1251.8
45°	1691.4	1695.9	1717.6	1709.0	1582.2	1372.6	1165.4	*1155.4*	1138.5	1216.2	1368.8
47.5°	1722.1	1728.0	1793.6	1828.1	1742.1	1547.0	1350.9	*1329.8*	1296.7	1394.4	1499.7
50°	1719.0	1729.4	1820.9	1925.8	1887.2	1723.8	1552.9	*1542.9*	1488.7	1582.9	1629.2
52.5°	1648.5	1670.6	1822.6	1985.2	1998.7	1886.8	1761.8	*1743.2*	1716.9	1779.8	1750.8
55°	1457.2	1484.2	1749.7	2004.2	2085.7	2029.1	1966.2	*1951.0*	1907.5	1965.6	1856.8
57.5°	1353.3	1376.4	1596.4	1994.9	2159.6	2160.7	2148.2	*2135.8*	2099.9	2149.3	1981.1
60°	1290.8	1313.9	1514.6	1960.7	2226.6	2299.5	2319.2	*2317.8*	2266.0	2358.2	2126.8
62.5°	1199.3	1231.1	1429.3	1872.0	2274.3	2436.2	2495.6	*2486.3*	2428.6	2575.7	2271.2
65°	1014.5	1042.2	1254.5	1725.6	2246.3	2549.5	2686.9	*2691.8*	2625.1	2780.5	2385.1
67.5°	711.4	731.7	942.7	1418.2	2056.4	2586.8	2882.7	*2882.4*	2768.8	2885.5	2334.7
70°	*412.3*	*440.3*	*557.0*	*876.8*	*1599.9*	*2417.2*	*2912.1*	*2922.1*	*2710.4*	*2666.2*	*1932.1*
72.5°	159.5	182.7	315.6	465.8	834.3	1851.6	2504.9	*2534.3*	2268.4	2056.7	1344.7
75°	47.7	53.2	148.5	247.9	335.0	894.4	1695.9	*1704.1*	1556.0	1282.9	689.3
77.5°	35.6	39.4	64.9	125.4	117.4	271.1	877.5	*958.3*	826.0	458.2	189.9
80°	24.2	28.7	46.3	61.1	43.5	72.2	246.6	*270.7*	252.1	102.9	47.7
82.5°	10.7	13.8	32.8	30.7	15.9	20.7	76.0	*80.8*	52.1	31.1	16.6
85°	1.0	1.4	12.4	13.5	5.9	4.8	15.9	*15.9*	11.4	10.7	6.9
87.5°	0.0	0.0	0.3	0.7	0.7	1.0	1.4	*1.7*	2.1	2.8	3.5
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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Scaled Data Report

REPORT NUMBER: P630582
CATALOG NUMBER: GWS-SA1D-830-U-T3R-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	679.9	679.9	679.9	679.9	679.9	679.9	679.9	679.9	679.9	679.9	679.9
2.5°	686.1	682.0	687.2	691.3	692.4	684.8	680.3	673.7	672.3	672.7	671.0
5°	695.5	693.4	697.2	692.7	681.0	658.9	639.9	618.8	607.4	600.9	600.2
7.5°	712.7	711.7	707.6	687.2	650.6	601.5	554.2	508.0	479.3	468.9	467.2
10°	738.3	736.2	719.3	671.0	592.9	498.6	419.2	352.9	312.5	300.8	286.3
12.5°	767.6	763.5	726.5	636.1	505.9	375.4	276.3	202.0	167.1	156.8	156.8
15°	796.0	787.0	722.4	578.4	398.8	244.1	154.4	116.7	106.0	103.3	103.3
17.5°	825.0	807.7	706.2	499.7	275.6	144.3	102.9	95.7	94.3	94.6	95.0
20°	852.2	825.3	677.5	405.1	175.8	100.8	92.2	90.5	89.8	90.5	90.1
22.5°	881.9	841.5	634.0	301.8	114.3	90.8	87.7	86.3	85.6	86.7	86.7
25°	911.3	853.3	576.3	203.0	90.8	84.6	82.9	81.5	80.8	81.1	81.1
27.5°	926.5	848.8	500.7	129.5	81.5	78.4	76.7	74.9	73.9	73.6	73.9
30°	936.8	835.0	408.2	92.2	73.9	70.1	68.4	67.0	64.2	62.5	63.2
32.5°	953.1	821.2	307.7	77.4	67.7	61.8	59.0	55.6	51.8	50.1	50.1
35°	972.4	802.2	215.8	69.8	61.1	54.9	49.7	43.9	39.4	38.0	38.0
37.5°	998.0	784.2	143.7	64.6	55.6	49.0	41.8	34.9	30.0	29.4	29.0
40°	1036.3	769.0	101.2	60.8	50.8	42.8	34.2	26.9	23.5	22.4	22.4
42.5°	1086.0	753.5	80.1	57.0	46.6	36.9	27.3	21.4	18.6	18.0	17.6
45°	1147.5	735.2	69.8	53.5	42.5	30.7	21.8	18.0	15.9	15.2	15.2
47.5°	1214.1	710.3	64.9	49.0	37.6	24.9	18.3	15.5	14.5	14.2	13.8
50°	1279.7	676.8	60.8	44.9	32.1	20.4	15.9	14.2	13.5	13.1	13.1
52.5°	1337.1	637.8	55.6	40.1	26.2	17.6	14.2	13.1	12.4	11.7	11.4
55°	1386.1	595.3	49.0	34.5	21.4	15.5	13.1	12.1	11.4	10.7	10.4
57.5°	1449.3	571.2	39.4	28.0	17.6	13.8	12.1	11.1	10.4	9.3	9.3
60°	1519.4	553.5	29.4	22.1	15.2	12.8	11.1	10.0	9.3	8.3	8.3
62.5°	1575.7	527.3	23.1	18.0	13.1	11.4	10.0	9.0	8.3	7.3	7.3
65°	1597.1	473.1	19.0	14.2	10.7	10.0	9.0	8.3	7.3	6.2	6.2
67.5°	1500.4	364.7	15.9	11.4	9.0	8.6	7.9	7.6	6.2	5.5	5.2
70°	*1188.2*	*222.4*	*13.1*	*9.3*	*7.6*	*7.3*	*7.3*	*6.6*	*5.5*	*5.2*	*4.8*
72.5°	814.3	114.6	10.7	7.6	6.6	6.6	6.2	5.9	5.2	4.8	4.8
75°	423.0	38.3	8.3	5.9	5.2	5.5	5.5	5.2	4.8	4.8	4.5
77.5°	121.2	17.3	6.2	4.5	4.1	4.1	4.5	4.5	4.5	4.1	4.1
80°	31.4	10.0	4.5	3.5	3.5	3.5	3.5	3.8	4.1	3.8	3.8
82.5°	12.8	5.5	3.1	2.8	2.8	2.8	2.8	3.1	3.5	3.5	3.5
85°	7.9	2.8	2.4	2.4	2.4	2.1	2.1	2.4	2.4	2.8	2.8
87.5°	4.8	2.1	2.1	2.1	2.1	1.7	1.7	1.7	1.7	1.7	1.7
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

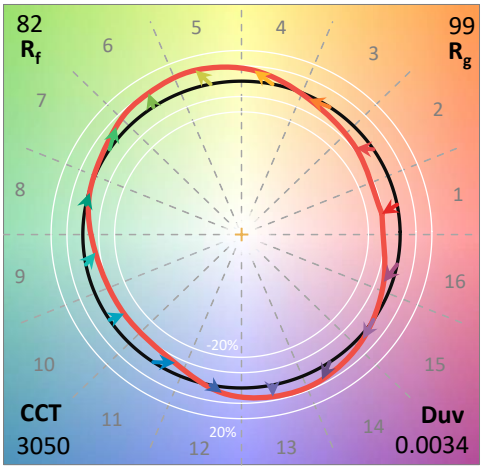
Test Information

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

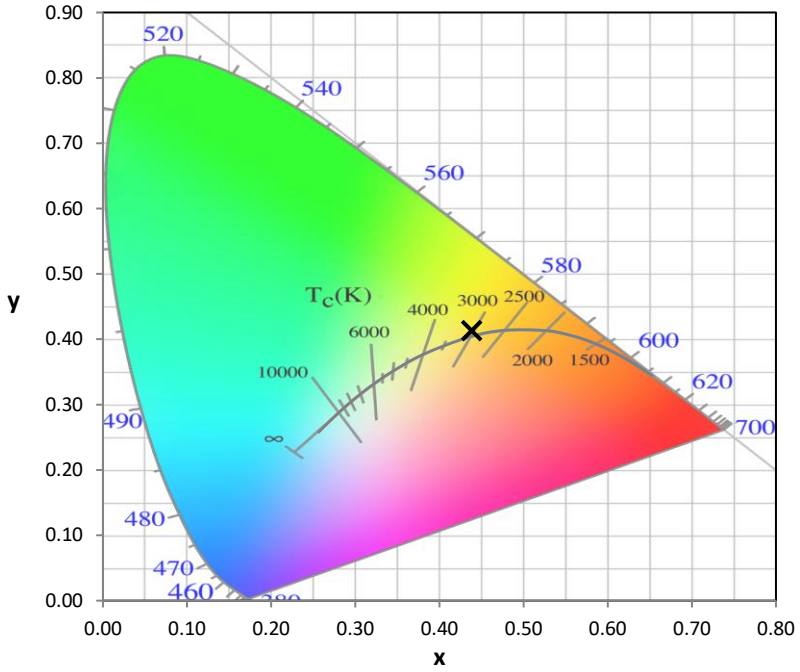
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

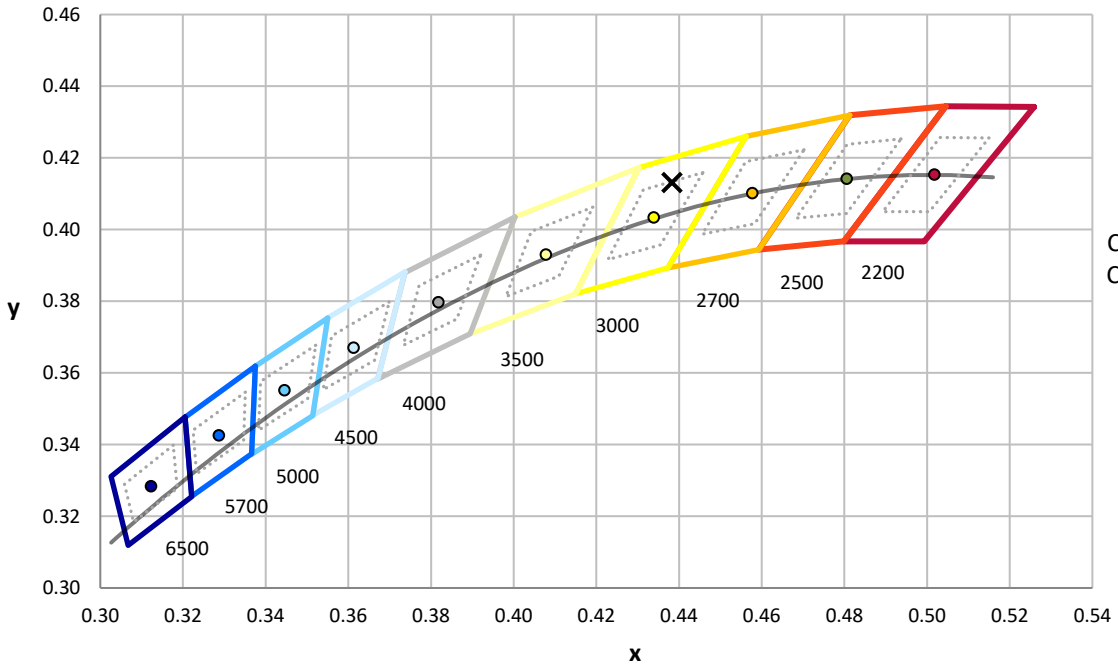
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

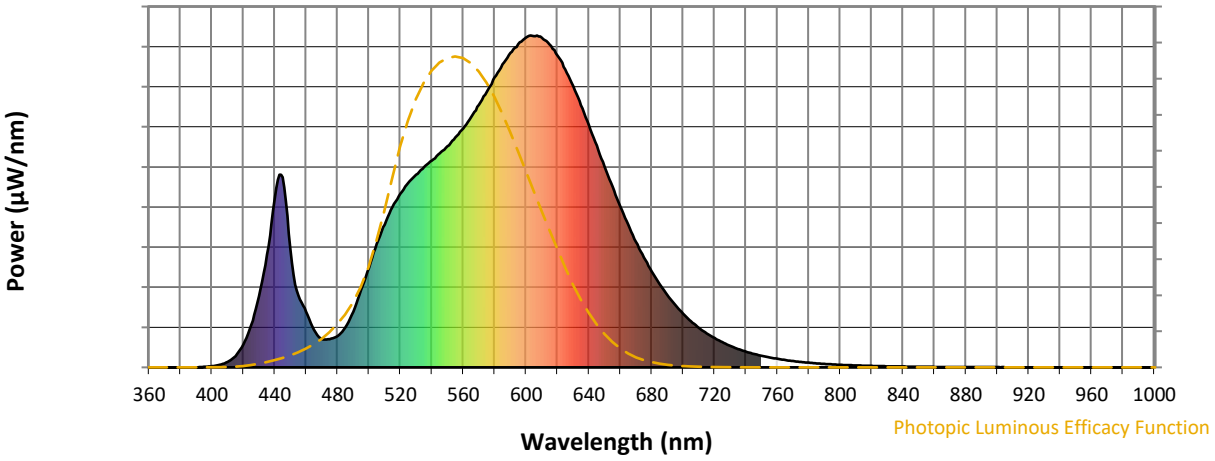


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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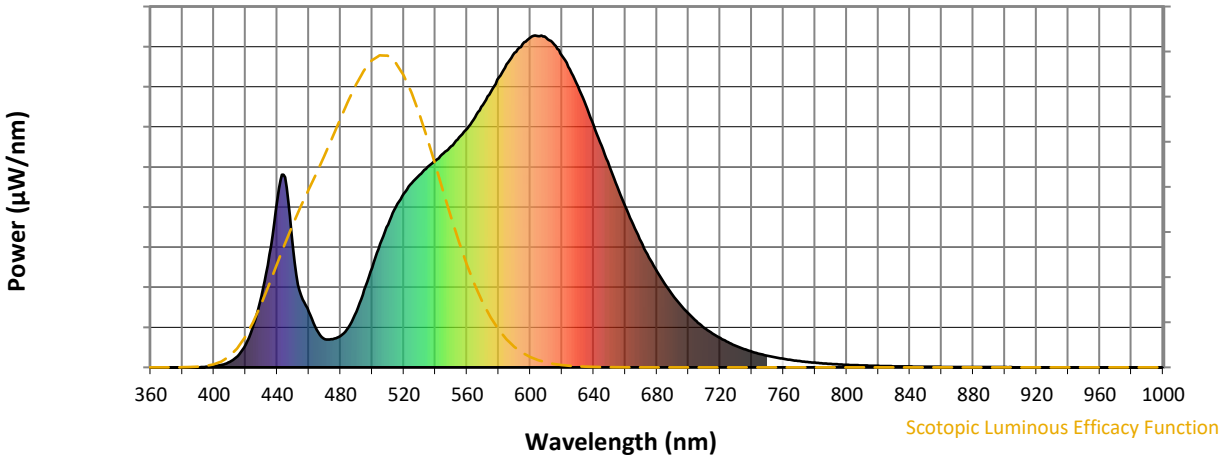
Scotopic Flux vs. Wavelength



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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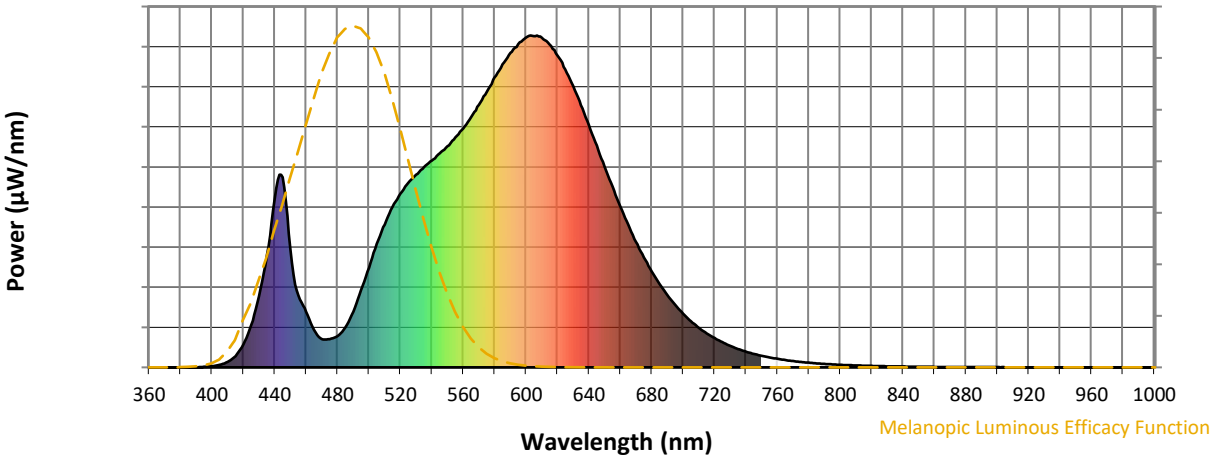
Melanopic Flux vs. Wavelength



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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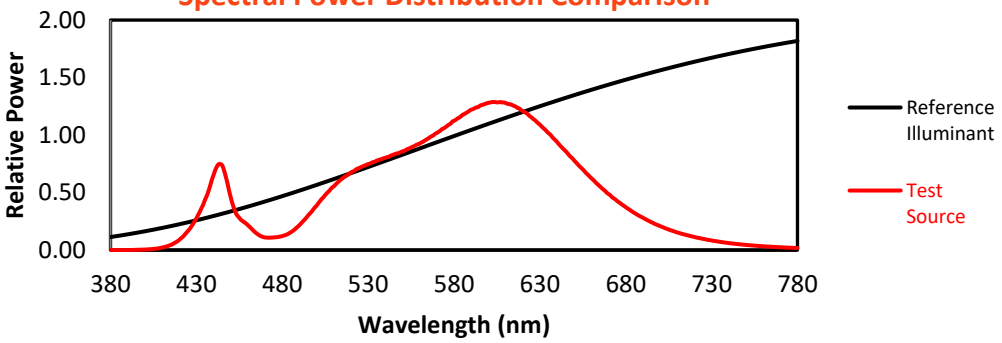
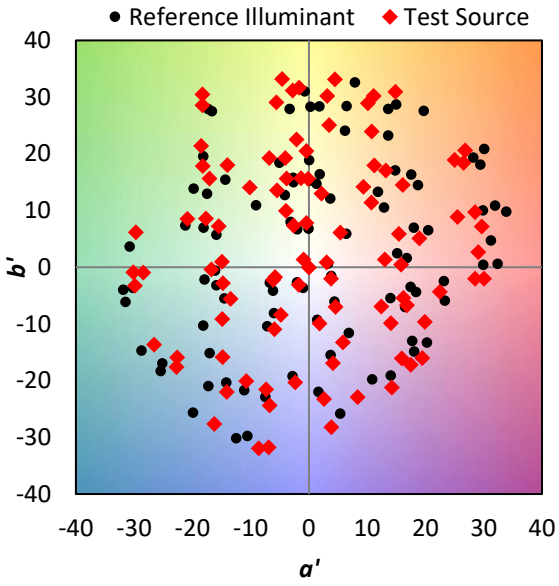
Summary

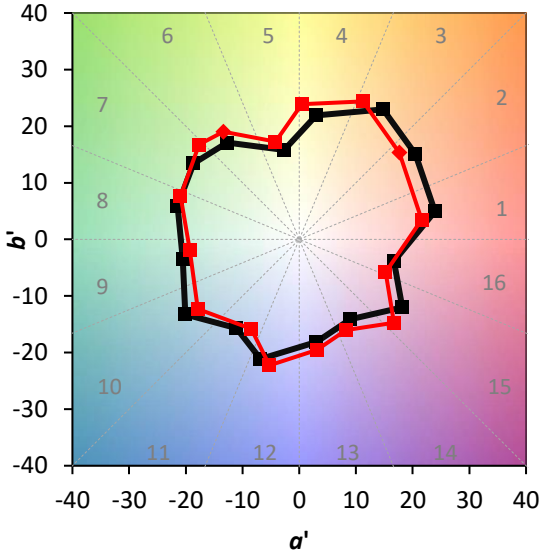
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

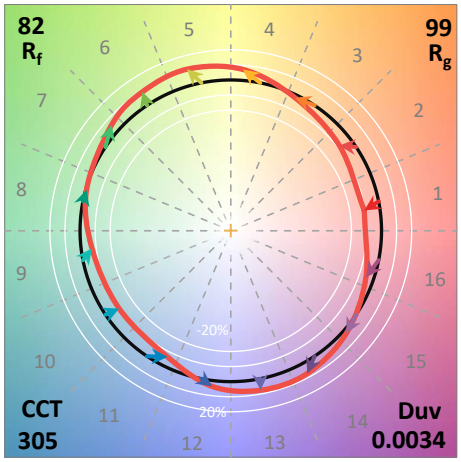
Spectral Power Distribution Comparison

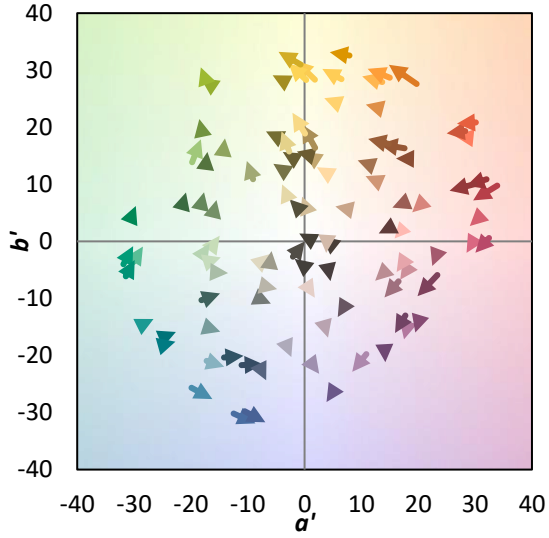


Color Vector Graphics









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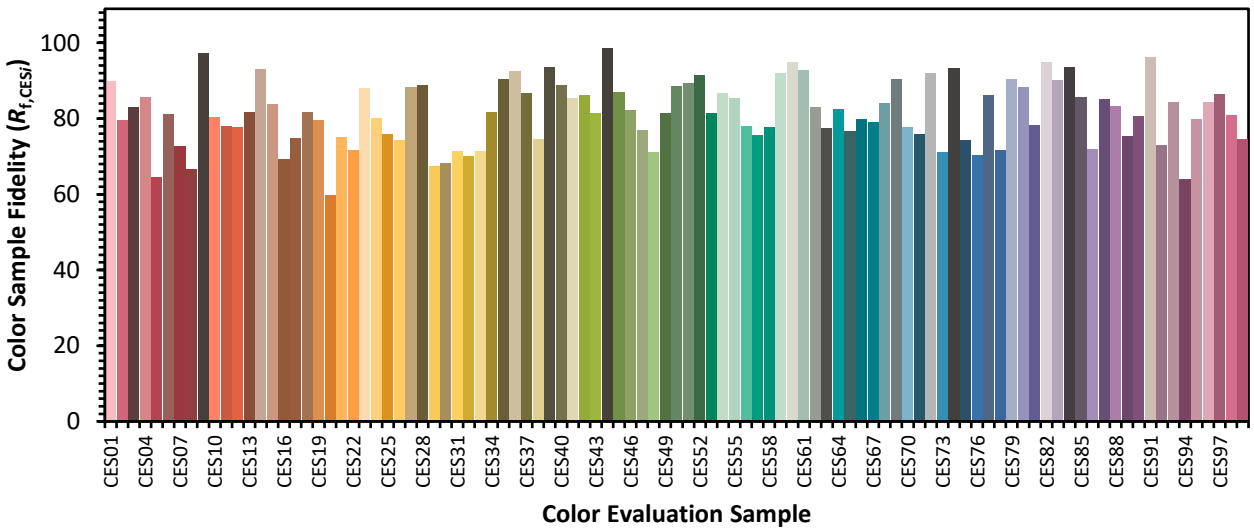
Individual Sample Fidelity Index ($R_{f,i}$)

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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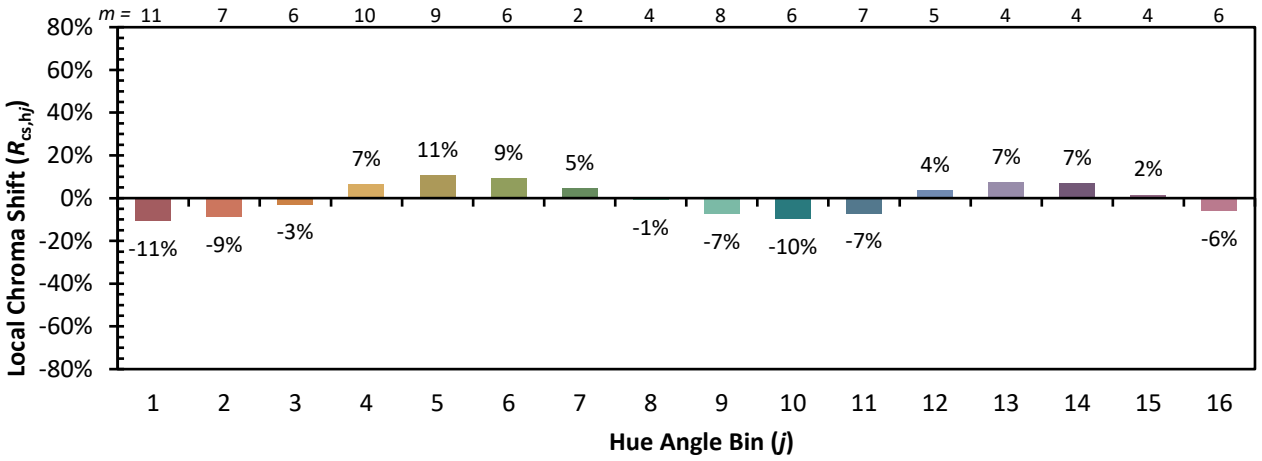
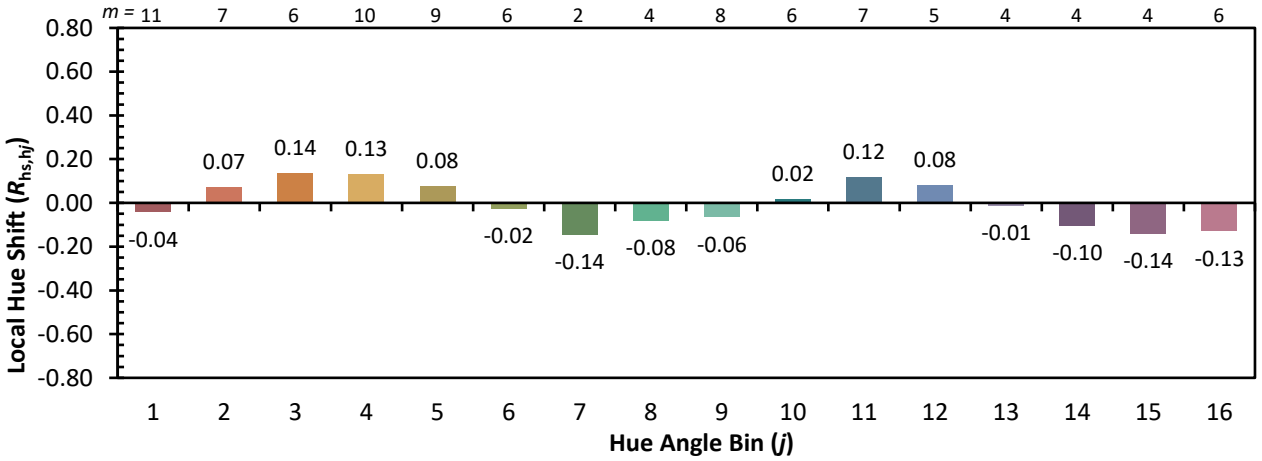
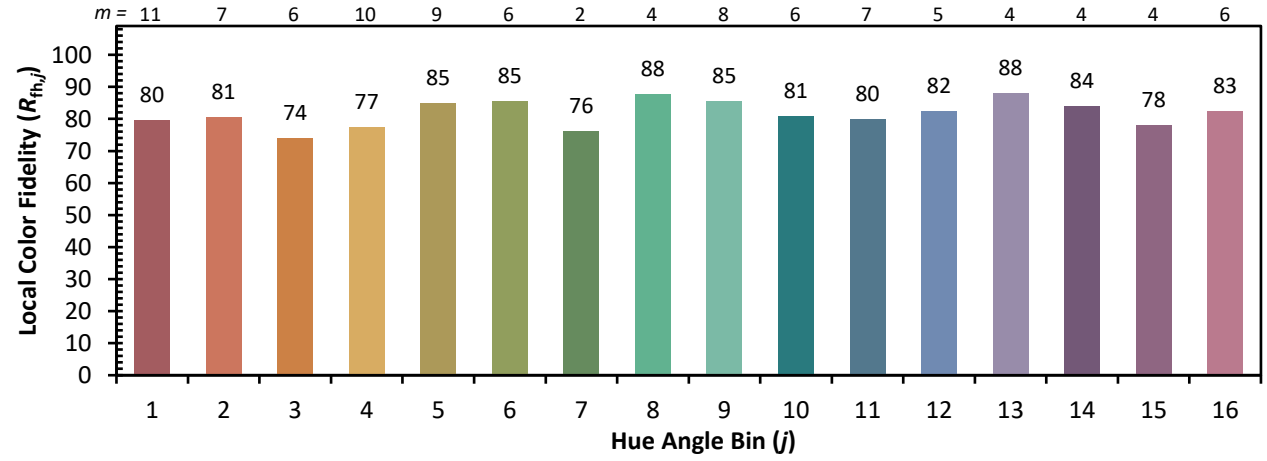
Color Rendition by Hue-Angle Bin







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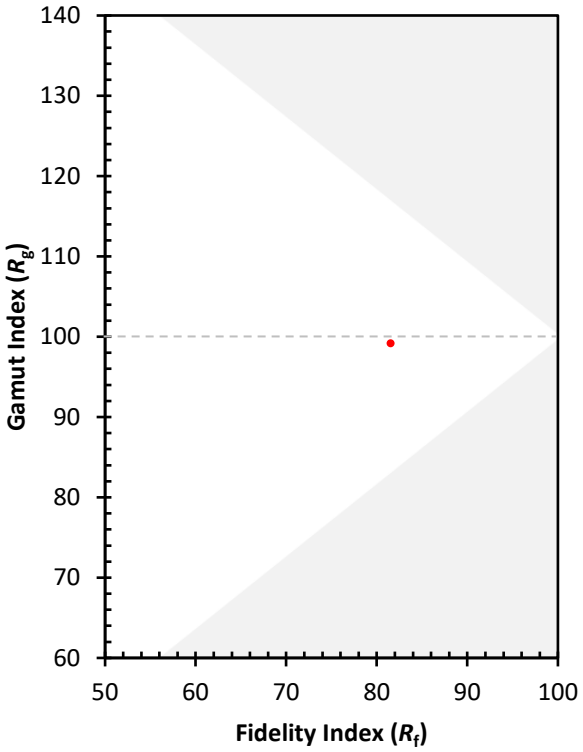
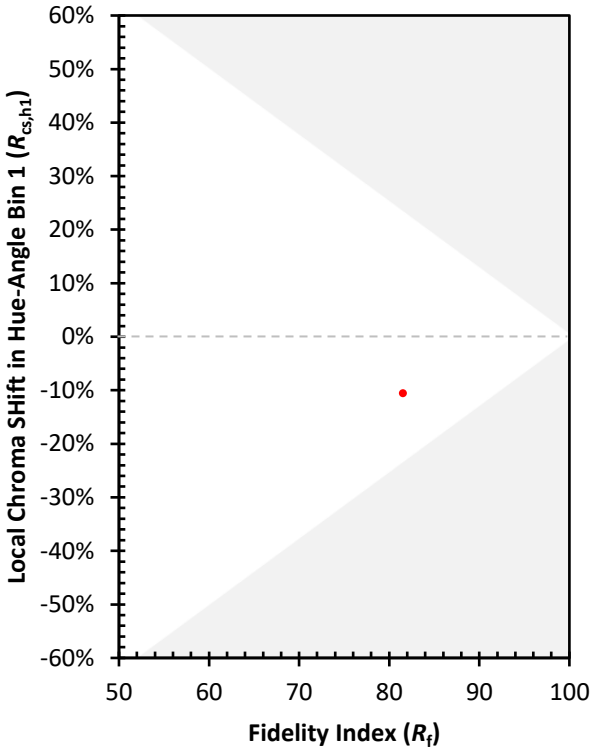
Measure Comparisons





(END OF REPORT)