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: P635023

Luminaire Tested: GWS-SA3C-830-U-T2-W-GRSBK

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:	P635023
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA3C-830-U-T2-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6582.3 lumens
Efficiency:	N/A
Efficacy:	70.8 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G1

Input Watts (W):	93
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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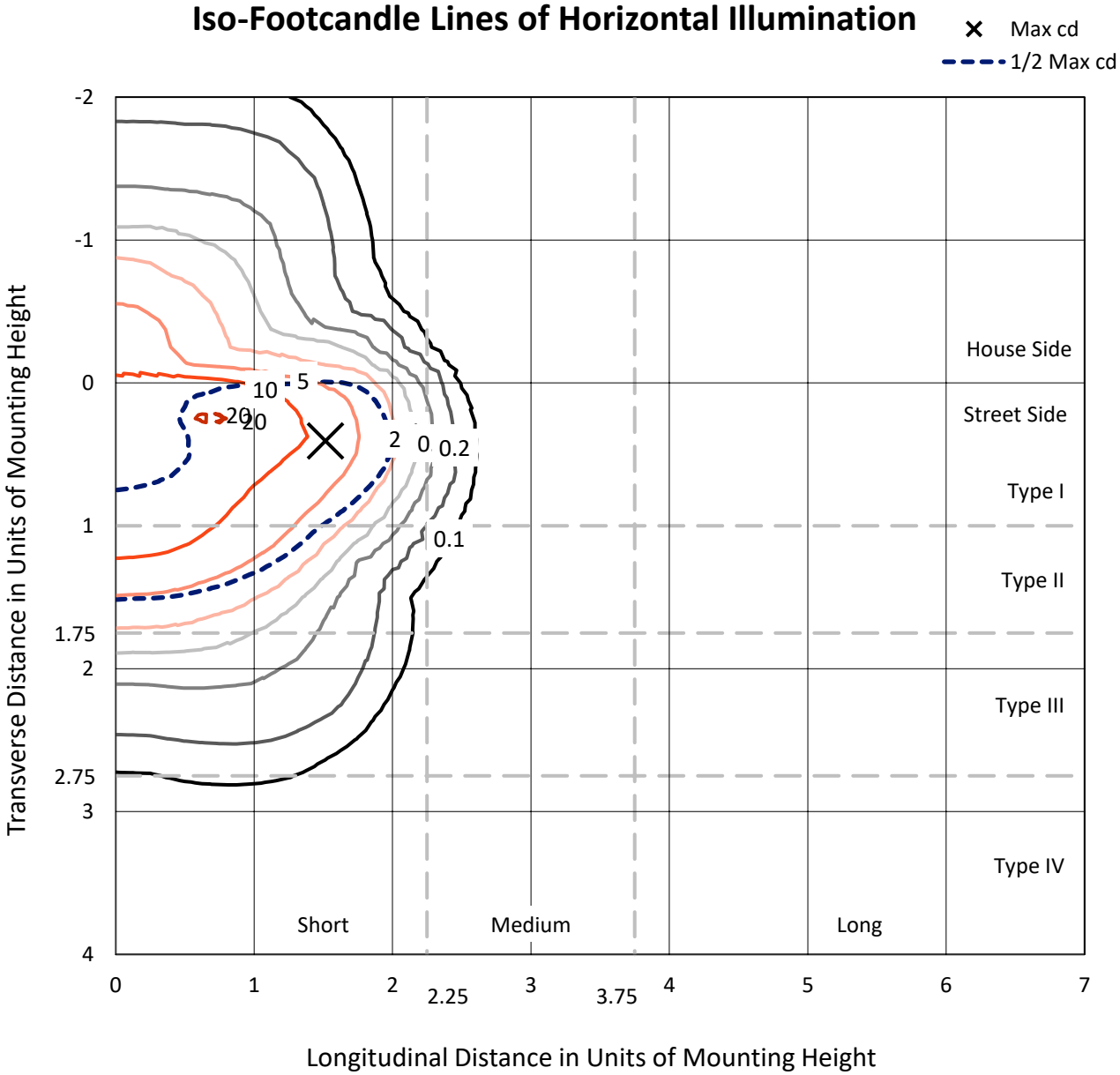
Scaled Data Report

REPORT NUMBER: P635023
CATALOG NUMBER: GWS-SA3C-830-U-T2-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 20.5 fc
Type II - Short - N/A

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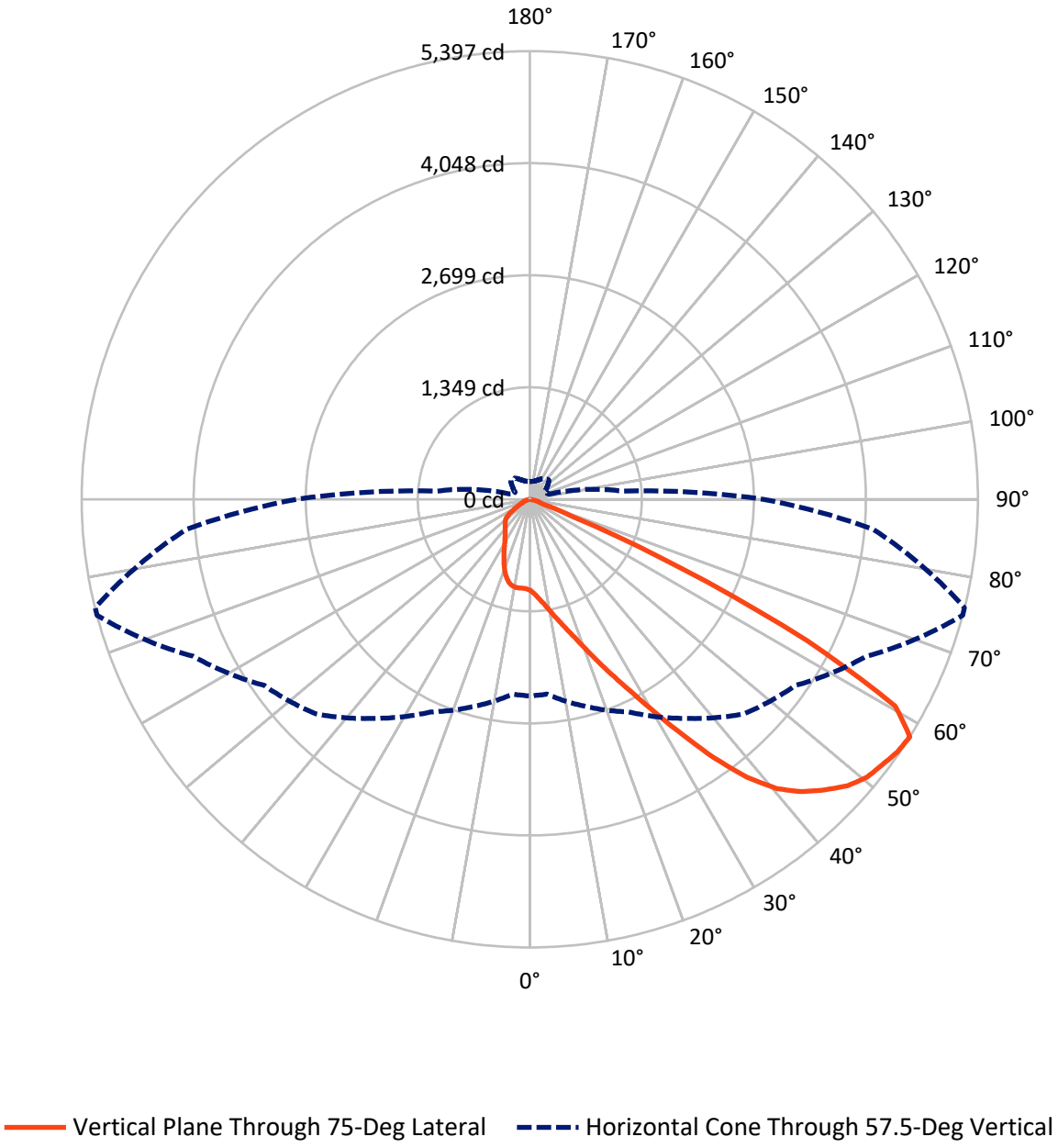
Luminous Intensity Polar Plot



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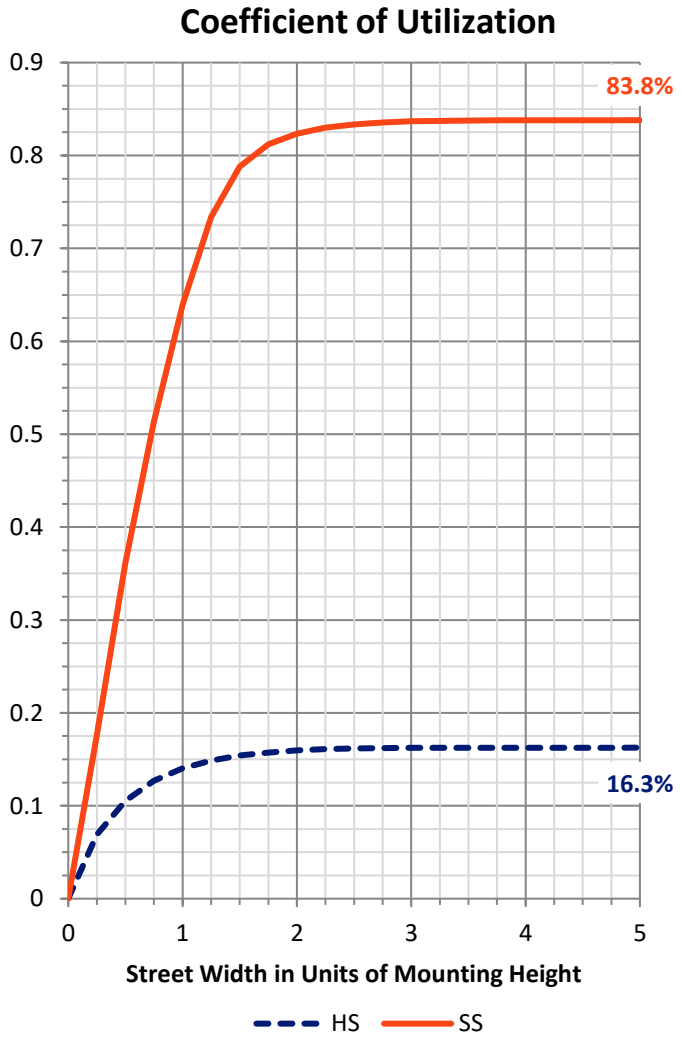
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1075.2	0.0	1075.2
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	5507.1	0.0	5507.1
	% Fixture	83.7	0.0	83.7
Total	Lumens	6582.3	0.0	6582.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.7	1.7
10°-20°	362.9	5.5
20°-30°	664.5	10.1
30°-40°	1102.5	16.8
40°-50°	1683.9	25.6
50°-60°	1892.1	28.7
60°-70°	697.9	10.6
70°-80°	66.7	1.0
80°-90°	0.1	0.0
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°	6582.3	100.0
0°-180°	6582.3	100.0



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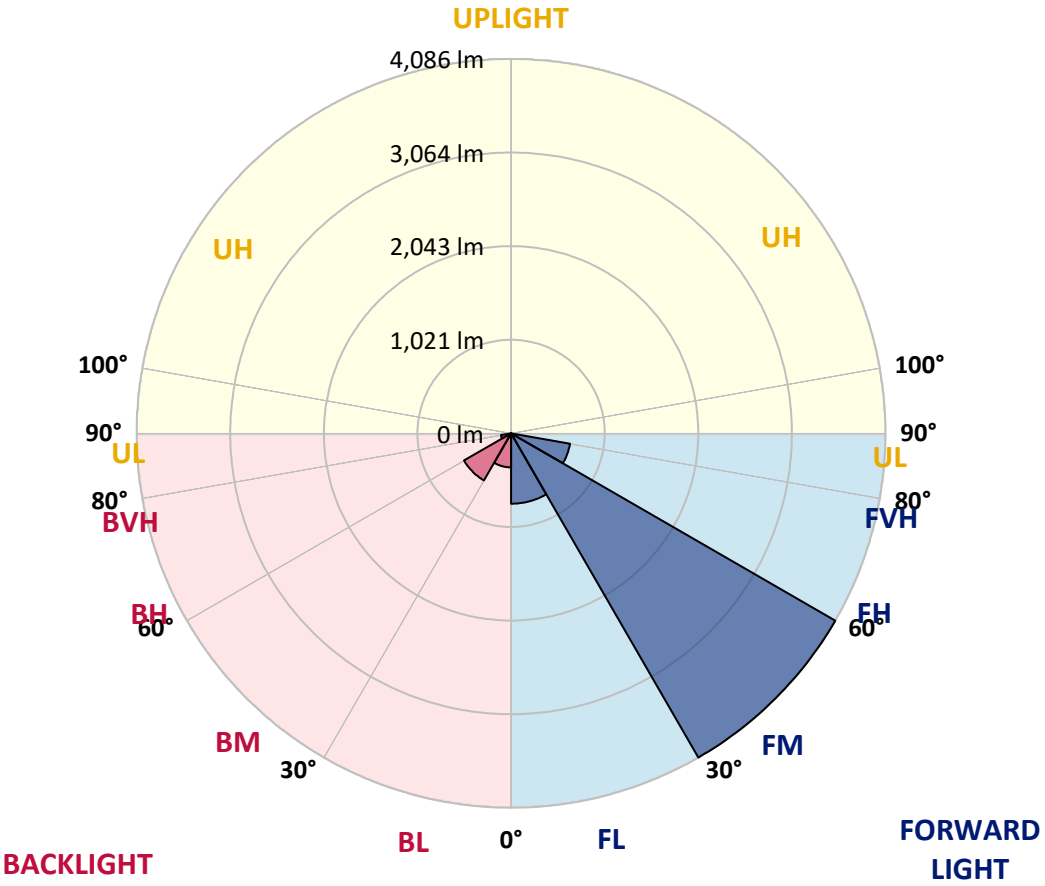
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	768.1	11.7			
FM	(30°-60°)	4086.0	62.1			
FH	(60°-80°)	652.9	9.9			G0/660
FVH	(80°-90°)	0.0	0.0			G0/10
BL	(0°-30°)	371.0	5.6	B1/500		
BM	(30°-60°)	592.5	9.0	B1/1000		
BH	(60°-80°)	111.7	1.7	B1/500		G1/500
BVH	(80°-90°)	0.0	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 II Short



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REPORT NUMBER: P635023
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1097.8	1097.8	1097.8	1097.8	1097.8	1097.8	1097.8	1097.8	*1097.8*	1097.8	1097.8
2.5°	1226.5	1239.2	1235.3	1227.3	1222.6	1205.9	1195.5	1165.4	*1143.9*	1141.5	1121.7
5°	1381.4	1379.0	1375.9	1366.3	1358.4	1332.2	1301.2	1250.4	*1205.1*	1199.5	1157.4
7.5°	1466.4	1468.0	1469.6	1468.0	1462.5	1442.6	1408.4	1348.9	*1279.7*	1275.0	1208.3
10°	1501.4	1504.6	1512.5	1527.6	1541.1	1539.5	1519.7	1458.5	*1373.5*	1365.5	1275.8
12.5°	1518.1	1522.0	1534.7	1563.3	1599.9	1628.5	1631.7	1576.8	*1483.1*	1470.4	1356.0
15°	1541.1	1545.1	1561.0	1598.3	1651.5	1707.9	1744.5	1709.5	*1604.7*	1591.1	1444.2
17.5°	1551.4	1557.0	1580.0	1629.3	1698.4	1785.0	1867.6	1864.4	*1748.4*	1738.1	1546.7
20°	1571.3	1575.3	1595.9	1649.1	1732.5	1857.3	1996.3	2046.3	*1924.0*	1908.9	1670.6
22.5°	1634.0	1635.6	1645.2	1678.5	1756.4	1909.7	2127.4	2258.4	*2131.3*	2111.5	1809.6
25°	1736.5	1735.7	1739.7	1745.3	1802.5	1962.9	2253.7	2497.5	*2368.8*	2347.4	1966.9
27.5°	1866.8	1866.8	1876.3	1860.4	1883.5	2028.9	2378.4	2772.4	*2645.3*	2615.1	2139.3
30°	2020.1	2019.3	2041.6	2016.1	2023.3	2132.9	2512.6	3071.9	*2978.9*	2941.6	2337.9
32.5°	2228.2	2223.5	2248.9	2213.9	2190.1	2290.2	2676.3	3384.9	*3378.5*	3321.3	2587.3
35°	2491.2	2483.2	2491.2	2457.0	2414.1	2510.2	2890.8	3697.1	*3821.8*	3761.4	2884.4
37.5°	2752.5	2778.0	2786.7	2727.9	2693.0	2789.1	3148.9	3976.7	*4245.2*	4182.4	3193.4
40°	3060.8	3052.8	3083.0	3017.1	2994.8	3101.3	3401.5	4184.8	*4580.4*	4520.8	3468.3
42.5°	3287.9	3302.2	3339.6	3303.0	3285.6	3385.7	3613.6	4306.3	*4813.2*	4754.4	3664.5
45°	3560.4	3570.7	3585.0	3554.9	3536.6	3635.1	3767.0	4359.6	*4990.3*	4926.8	3796.4
47.5°	3855.1	3863.1	3863.1	3801.1	3742.3	3782.8	3869.4	4389.8	*5153.2*	5092.0	3894.1
50°	4066.4	4070.4	4105.4	4061.7	3933.8	3871.0	3916.3	4419.1	*5261.2*	5204.0	3925.8
52.5°	3879.0	3874.2	3989.4	4079.9	4114.1	3989.4	3997.3	4462.0	*5313.6*	5264.4	3951.3
55°	3266.5	3258.6	3420.6	3640.7	3941.7	4101.4	4095.0	4487.5	*5371.6*	5341.4	4043.4
57.5°	*2368.1*	*2354.5*	*2580.2*	*2824.8*	*3219.6*	*3652.6*	*3906.8*	*4473.2*	*5397.0*	*5394.6*	*4150.6*
60°	1423.5	1412.4	1625.3	1882.7	2187.7	2623.0	3044.9	4006.9	*5057.0*	5061.8	3871.8
62.5°	876.2	886.5	1078.8	1209.8	1323.4	1454.5	1698.4	2695.3	*3746.3*	3777.3	2720.8
65°	589.4	597.4	775.3	940.5	940.5	769.0	660.1	1288.5	*1998.7*	1946.2	1286.9
67.5°	395.6	404.3	544.9	738.0	765.8	536.2	267.7	384.5	*556.9*	540.2	318.5
70°	232.8	242.3	363.0	506.0	557.7	373.4	178.7	162.8	*158.1*	153.3	123.9
72.5°	104.1	108.0	185.1	257.4	235.1	157.3	126.3	130.3	*123.1*	120.7	100.9
75°	31.8	33.4	47.7	55.6	56.4	56.4	76.3	102.5	*96.9*	97.7	77.8
77.5°	7.9	7.9	12.7	11.9	6.4	5.6	14.3	23.0	*23.8*	21.4	15.9
80°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	*0.8*	0.8	0.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*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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REPORT NUMBER: P635023
CATALOG NUMBER: GWS-SA3C-830-U-T2-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1097.8	1097.8	1097.8	1097.8	1097.8	1097.8	1097.8	1097.8	1097.8	1097.8	1097.8
2.5°	1112.9	1092.3	1078.8	1059.7	1046.2	1031.9	1019.2	1008.9	1003.3	1001.7	1002.5
5°	1138.3	1105.8	1074.0	1037.5	1012.0	988.2	969.1	954.1	946.9	944.5	944.5
7.5°	1177.3	1132.0	1075.6	1018.4	975.5	938.2	915.9	899.2	892.9	891.3	886.5
10°	1228.1	1166.2	1073.2	984.2	923.9	884.9	869.1	864.3	866.7	867.5	866.7
12.5°	1289.3	1201.9	1058.1	934.2	869.1	845.2	846.8	859.5	873.8	881.0	882.6
15°	1354.4	1234.5	1024.0	874.6	822.2	821.4	844.4	873.8	901.6	913.5	916.7
17.5°	1427.5	1260.7	971.5	811.1	781.7	804.7	846.0	891.3	928.6	948.5	952.5
20°	1507.7	1282.1	904.8	751.5	745.9	787.2	844.4	900.0	946.1	968.4	972.3
22.5°	1591.1	1297.2	827.7	696.7	713.4	767.4	829.3	883.4	927.0	952.5	955.6
25°	1686.5	1298.8	749.1	650.6	683.2	740.4	792.8	837.3	873.8	896.1	898.4
27.5°	1769.9	1279.7	679.2	613.3	655.4	707.0	742.0	766.6	792.0	804.7	805.5
30°	1866.0	1246.4	613.3	583.1	626.8	665.7	683.2	688.7	691.1	693.5	690.3
32.5°	1980.4	1205.9	564.0	553.7	594.2	620.4	625.2	614.1	600.6	581.5	576.7
35°	2121.0	1169.3	523.5	525.1	558.5	574.3	570.4	546.5	520.3	497.3	493.3
37.5°	2273.5	1138.3	492.5	497.3	519.5	530.6	518.7	492.5	480.6	460.7	461.5
40°	2408.6	1112.9	464.7	469.5	479.8	490.1	471.1	453.6	475.8	474.2	475.8
42.5°	2504.7	1091.5	440.9	438.5	445.6	452.8	438.5	429.8	467.1	456.8	462.3
45°	2561.1	1071.6	421.0	406.7	417.8	430.6	421.0	409.9	422.6	374.9	371.0
47.5°	2599.2	1060.5	403.5	375.7	395.6	417.8	398.0	371.0	352.7	311.4	308.2
50°	2603.2	1054.9	382.9	344.0	369.4	393.2	370.2	332.8	306.6	288.4	286.0
52.5°	2623.8	1066.1	354.3	303.5	331.3	369.4	353.5	316.2	280.4	264.5	261.4
55°	2716.0	1112.9	306.6	247.8	288.4	351.1	340.0	282.0	247.8	238.3	235.9
57.5°	*2811.3*	*1122.5*	*241.5*	*196.2*	*251.0*	*324.9*	*310.6*	*259.8*	*226.4*	*215.3*	*212.9*
60°	2570.6	924.7	181.1	162.1	221.6	300.3	287.6	246.3	207.3	193.8	191.4
62.5°	1688.9	499.7	143.8	137.4	186.7	254.2	262.1	222.4	185.1	170.8	170.0
65°	778.5	232.0	110.4	108.8	146.2	202.6	225.6	194.6	156.5	143.8	143.8
67.5°	212.1	115.2	86.6	80.2	99.3	135.8	164.4	145.4	111.2	96.1	95.3
70°	105.7	92.9	77.8	69.1	71.5	84.2	96.9	81.0	56.4	46.1	45.3
72.5°	86.6	76.3	65.9	58.8	54.0	51.6	50.0	40.5	26.2	19.9	19.1
75°	64.3	54.8	46.9	38.1	32.6	30.2	27.0	19.9	11.1	6.4	5.6
77.5°	14.3	13.5	12.7	9.5	8.7	7.1	5.6	4.0	1.6	0.0	0.0
80°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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

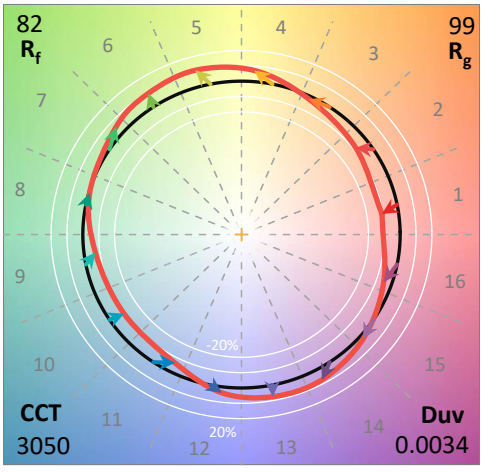
Test Information

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

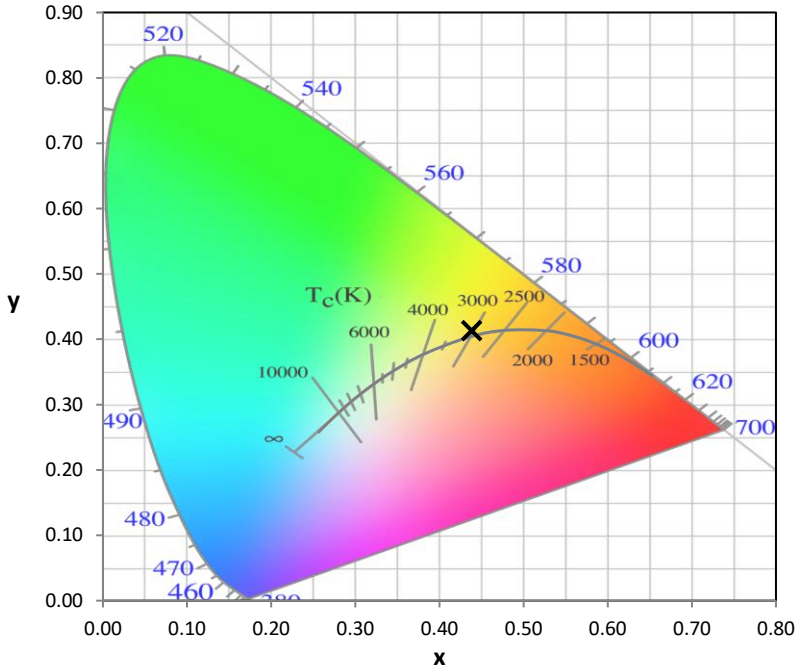
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

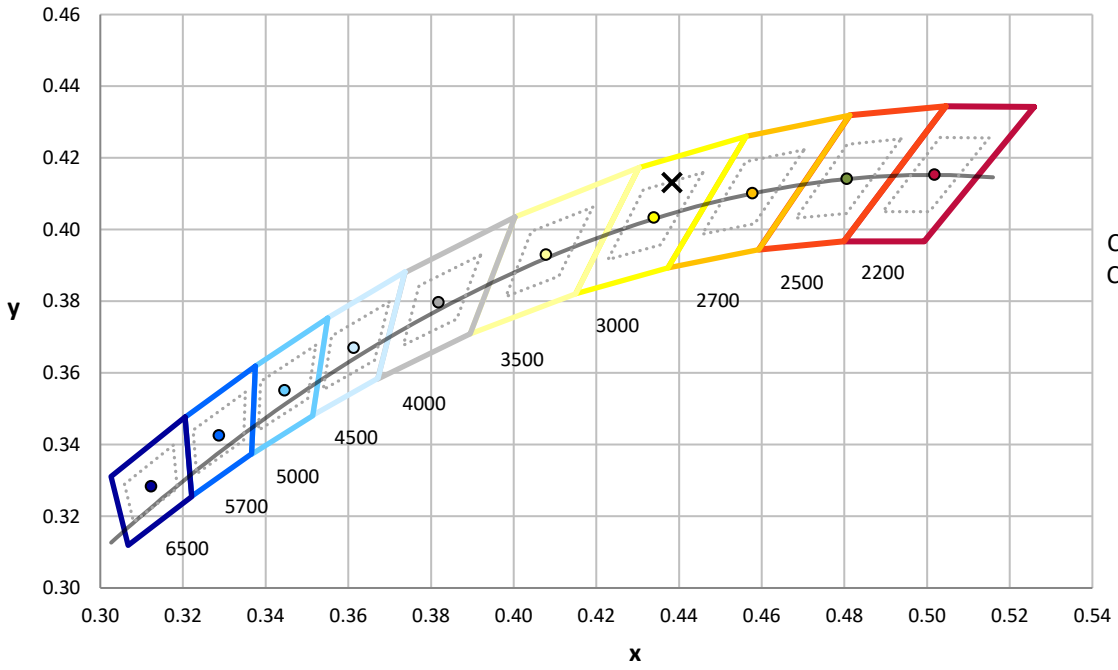
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

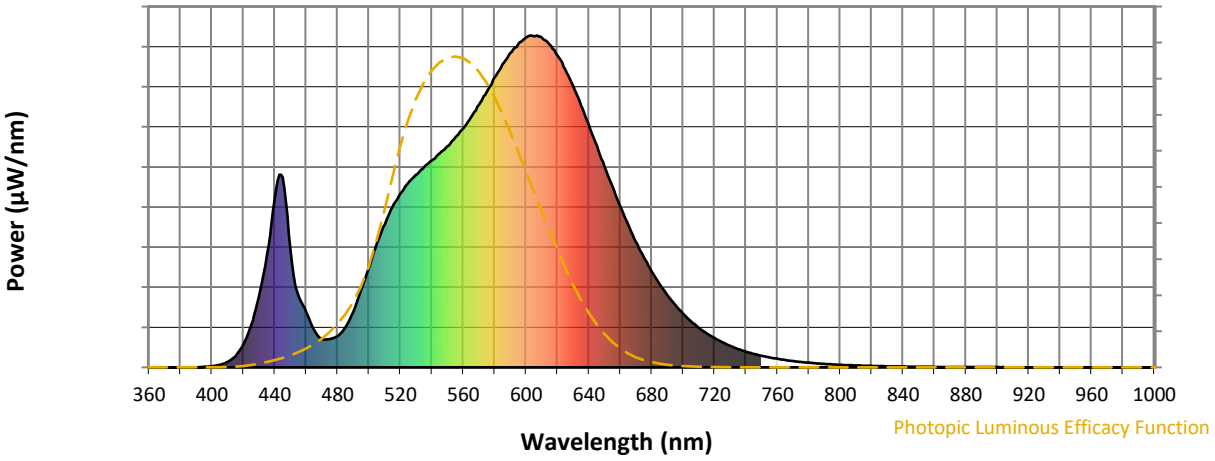


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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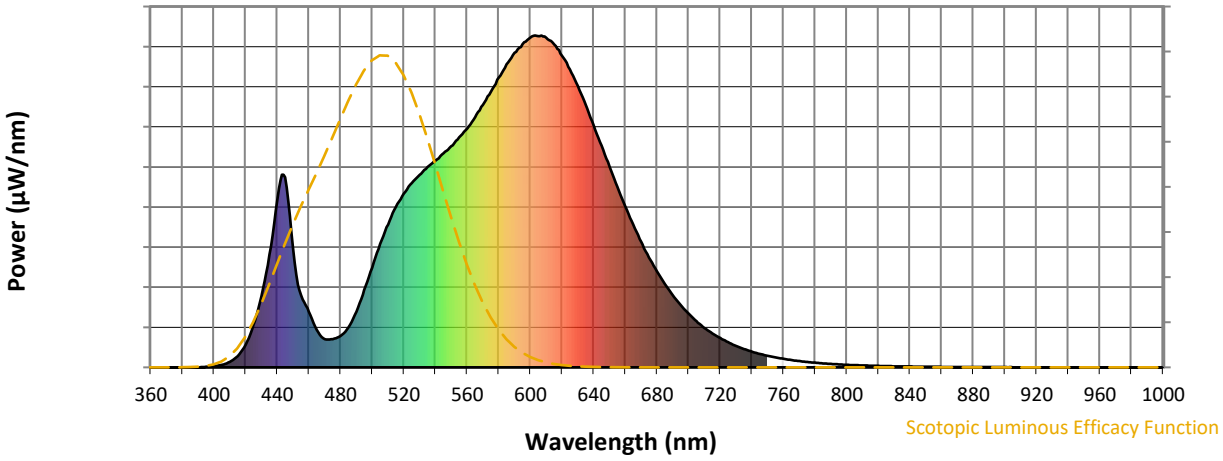
Scotopic Flux vs. Wavelength



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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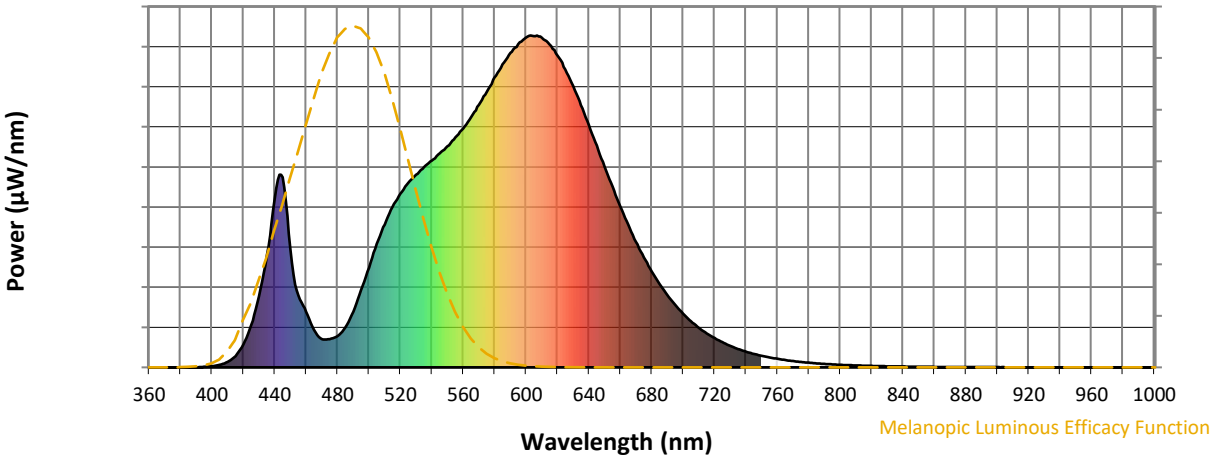
Melanopic Flux vs. Wavelength



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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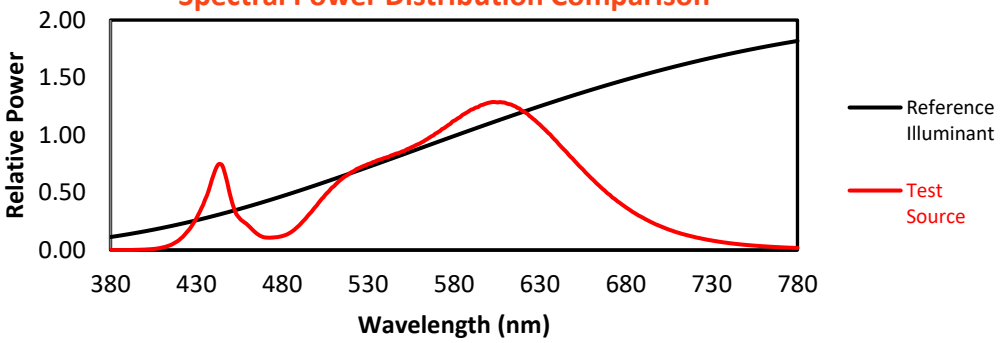
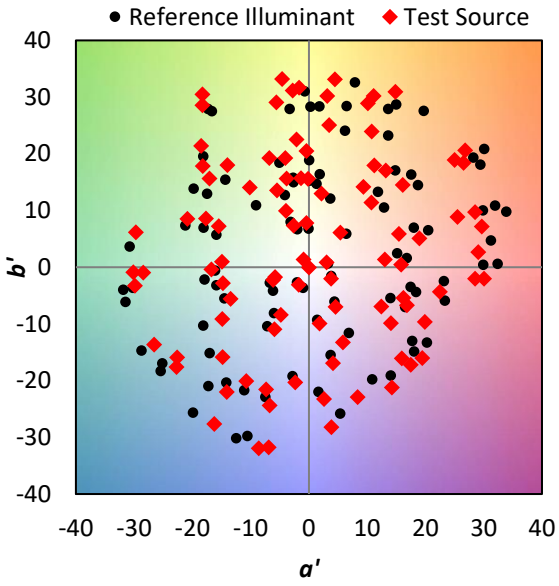
Summary

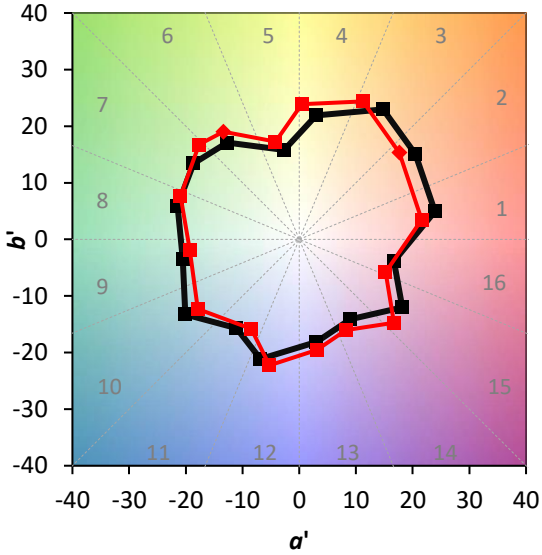
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

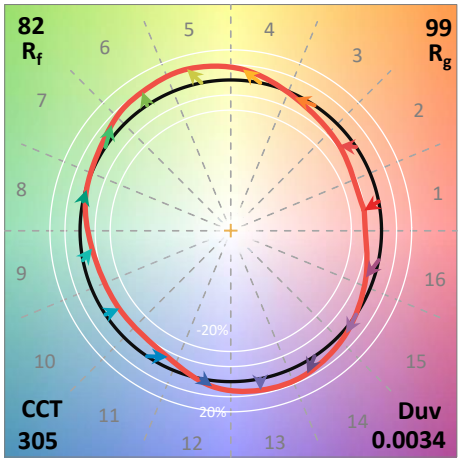
Spectral Power Distribution Comparison

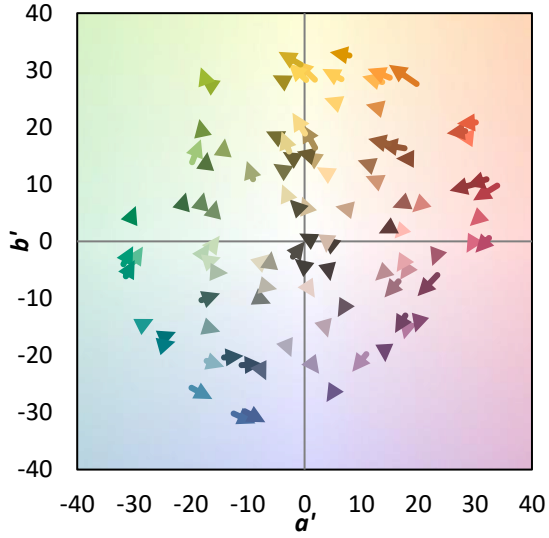


Color Vector Graphics









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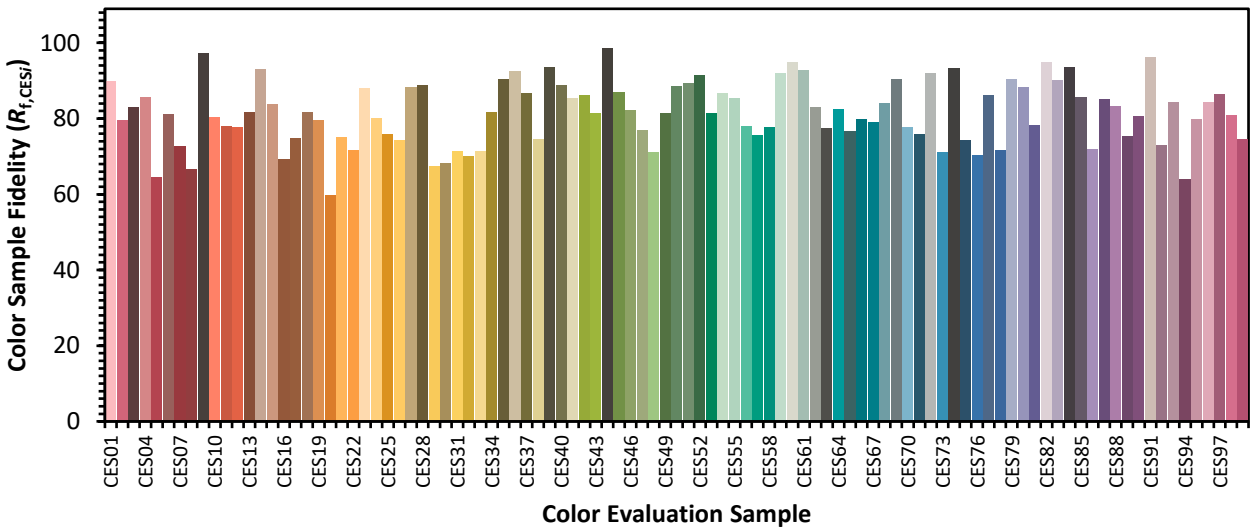
Individual Sample Fidelity Index ($R_{f,i}$)

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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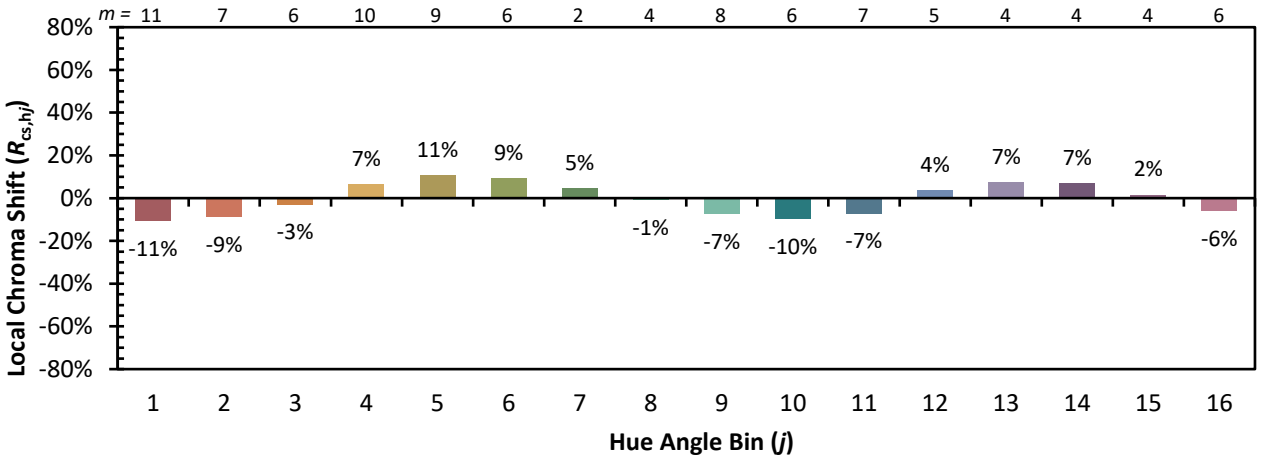
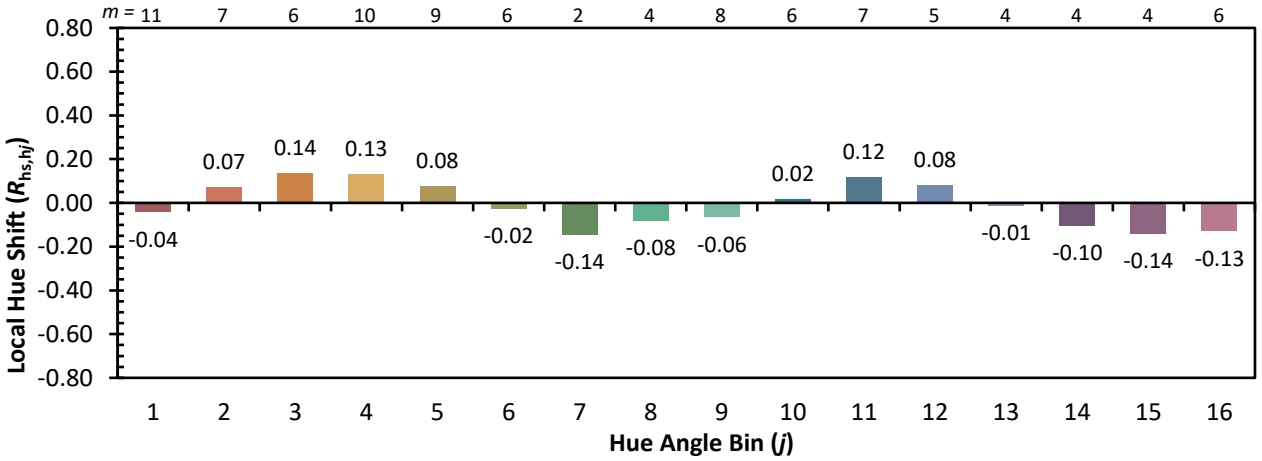
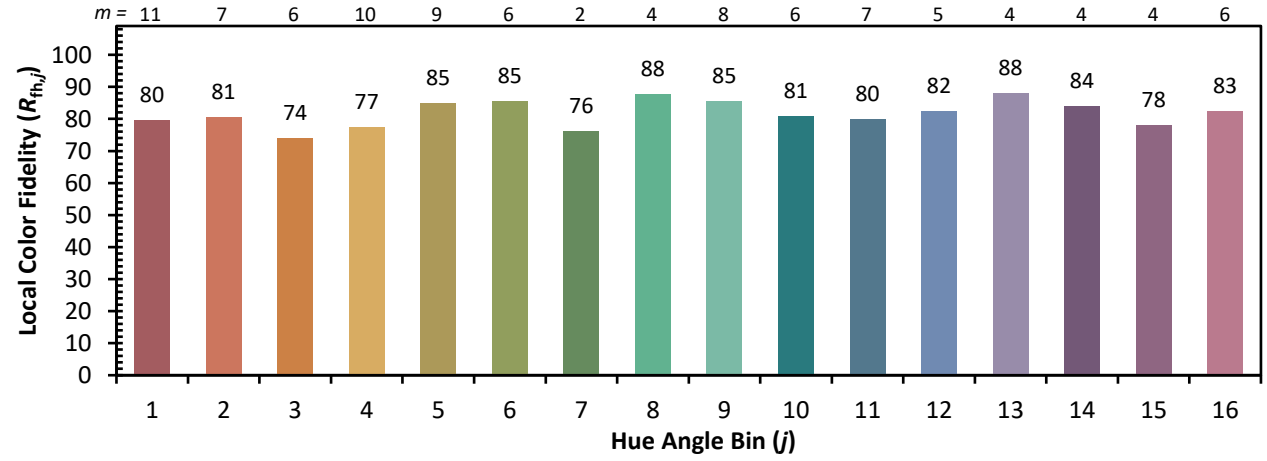
Color Rendition by Hue-Angle Bin







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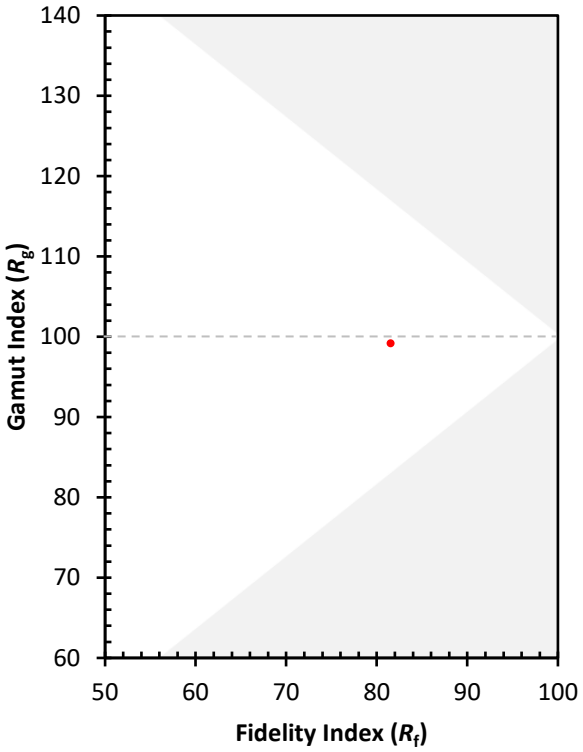
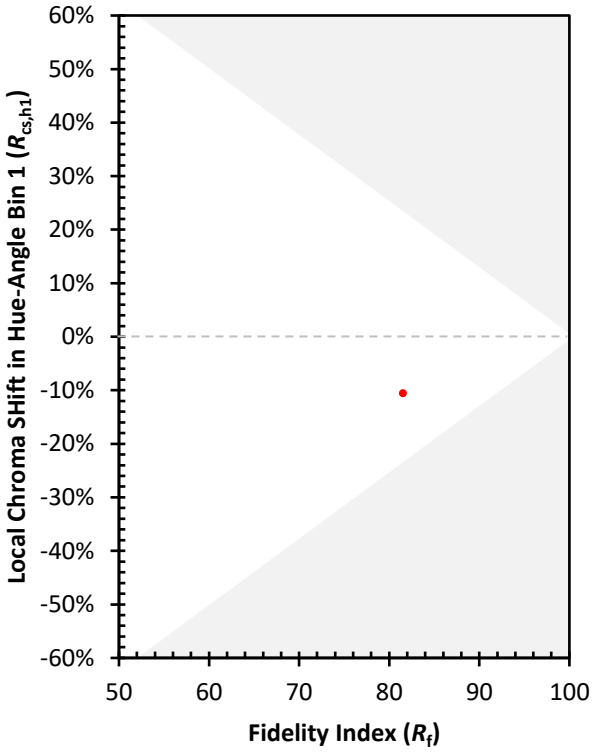
Measure Comparisons





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