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: P632535

Luminaire Tested: GWS-SA2C-830-U-SL3-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:	P632535
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2C-830-U-SL3-W-HSS
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5954.8 lumens
Efficiency:	N/A
Efficacy:	94.2 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	63.2
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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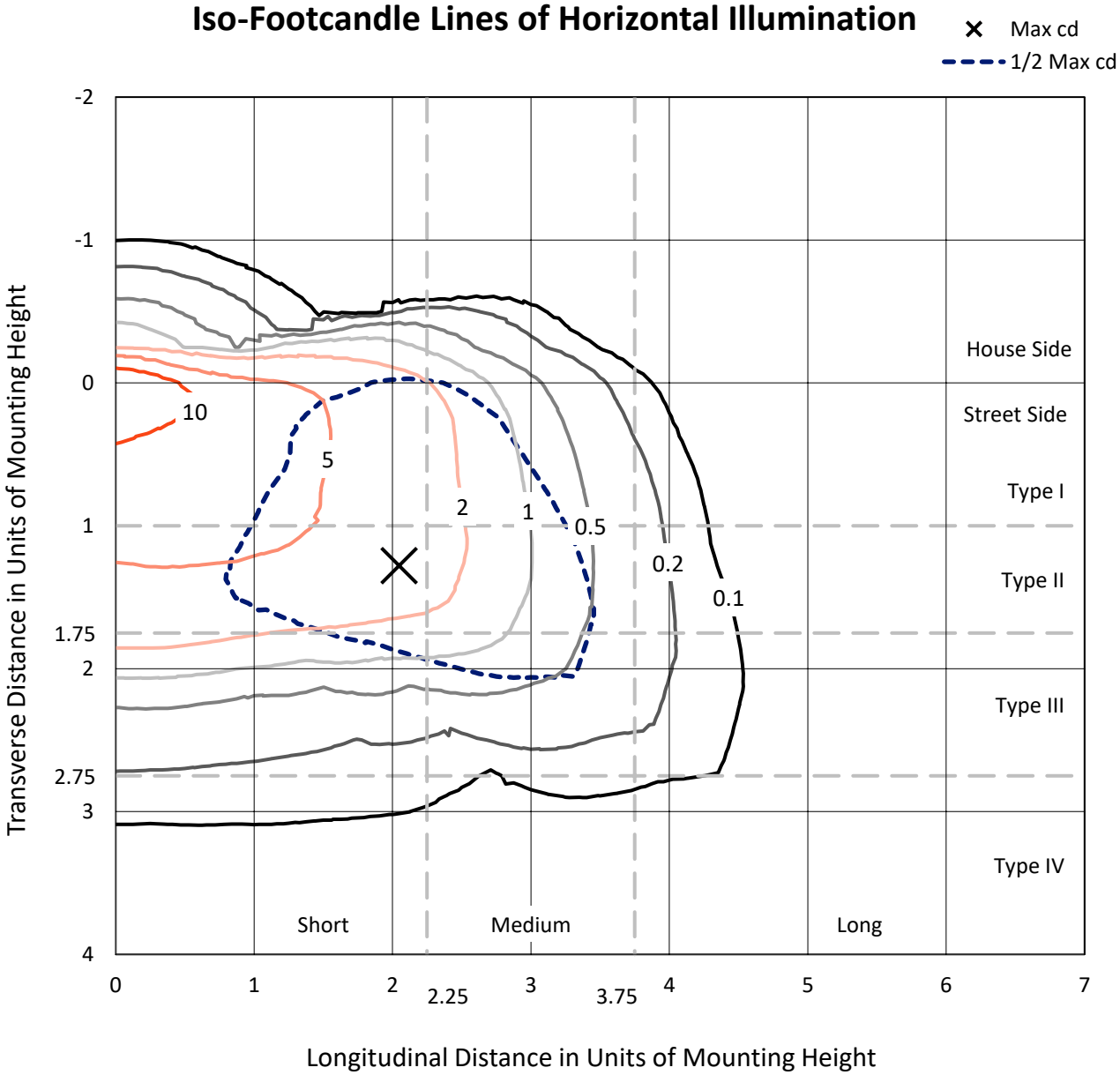
Scaled Data Report

REPORT NUMBER: P632535
CATALOG NUMBER: GWS-SA2C-830-U-SL3-W-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 17.2 fc
Type III - Short - N/A

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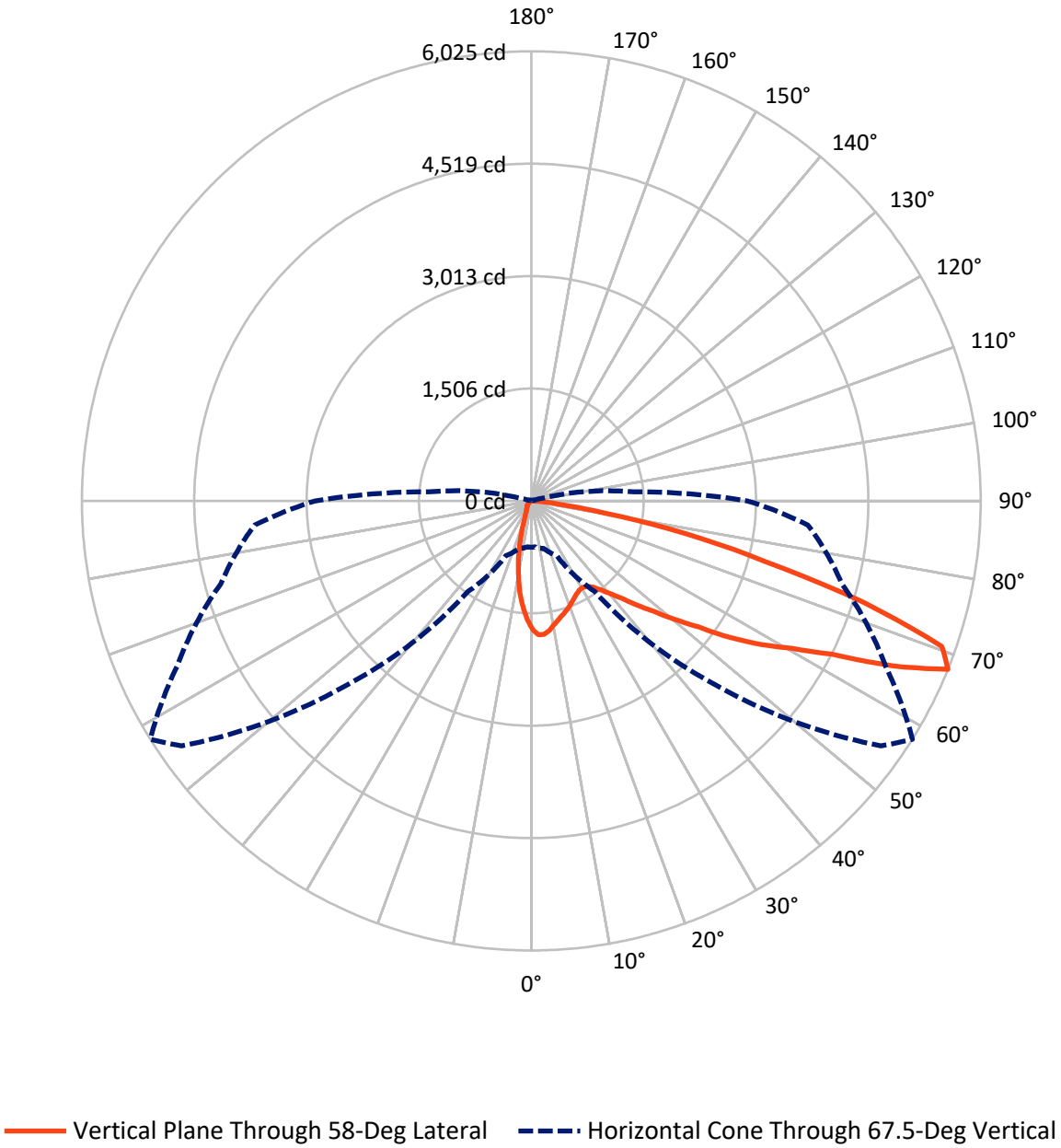
Luminous Intensity Polar Plot



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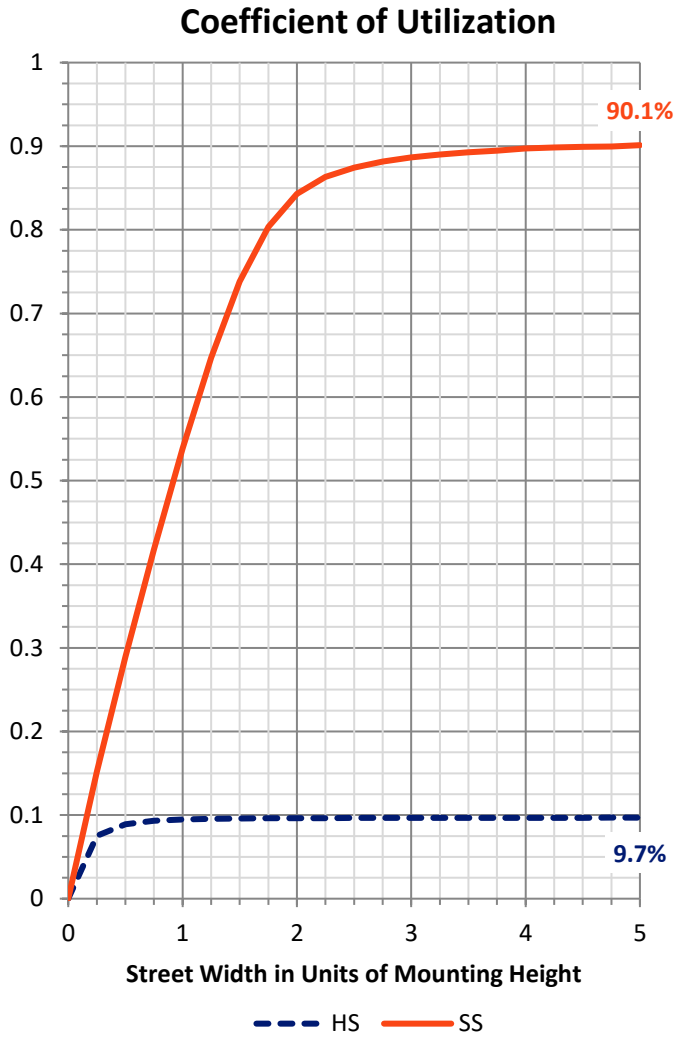
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	581.7	0.0	581.7
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	5373.1	0.0	5373.1
	% Fixture	90.2	0.0	90.2
Total	Lumens	5954.8	0.0	5954.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.6	2.3
10°-20°	290.5	4.9
20°-30°	391.8	6.6
30°-40°	550.6	9.2
40°-50°	850.3	14.3
50°-60°	1359.8	22.8
60°-70°	1610.1	27.0
70°-80°	712.3	12.0
80°-90°	49.8	0.8
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°	5954.8	100.0
0°-180°	5954.8	100.0



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REPORT NUMBER: P632535
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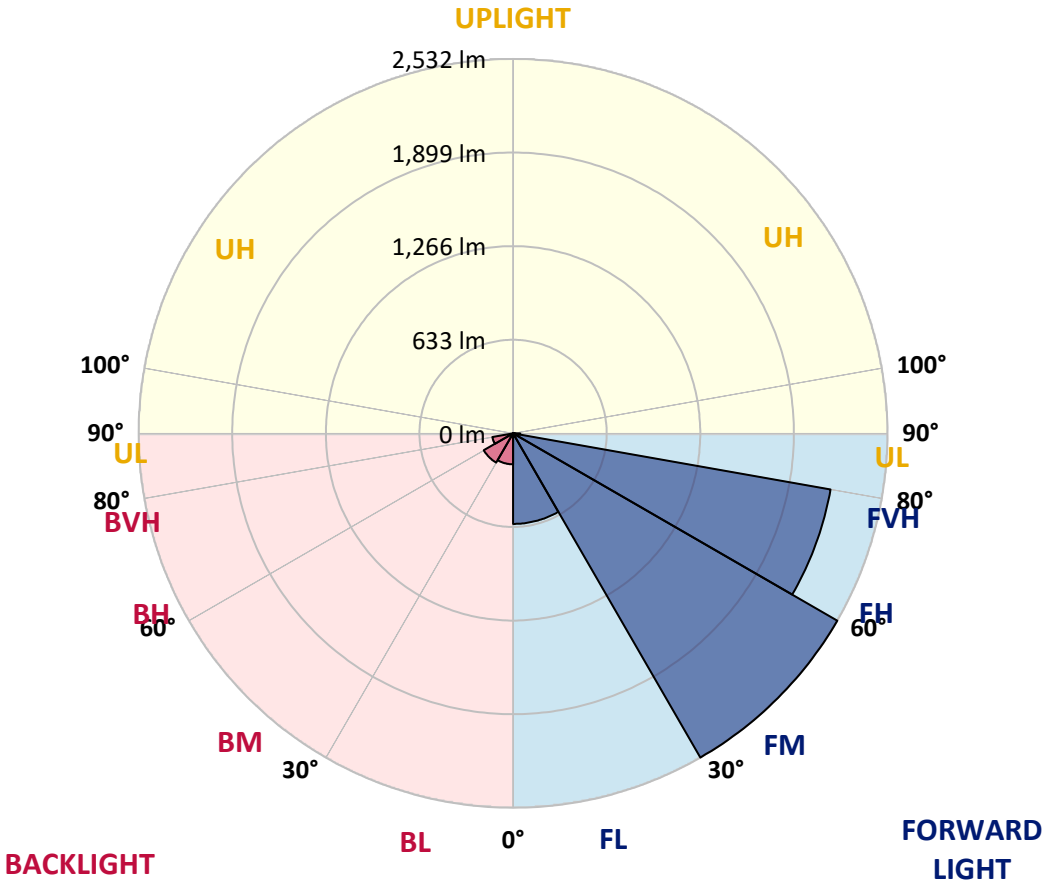
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	612.6	10.3			
FM	(30°-60°)	2532.5	42.5			
FH	(60°-80°)	2180.3	36.6			G2/5000
FVH	(80°-90°)	47.7	0.8			G1/100
BL	(0°-30°)	209.3	3.5	B1/500		
BM	(30°-60°)	228.3	3.8	B1/1000		
BH	(60°-80°)	142.0	2.4	B1/500		G1/500
BVH	(80°-90°)	2.1	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-G2
Type III Short



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Scaled Data Report

REPORT NUMBER: P632535
CATALOG NUMBER: GWS-SA2C-830-U-SL3-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1717.6	1717.6	1717.6	1717.6	1717.6	1717.6	1717.6	*1717.6*	1717.6	1717.6	1717.6
2.5°	1806.7	1809.9	1814.1	1819.4	1818.3	1813.6	1807.8	*1794.6*	1786.2	1759.8	1727.7
5°	1748.7	1748.2	1758.8	1768.8	1786.7	1796.2	1809.3	*1797.2*	1793.0	1761.4	1709.2
7.5°	1635.4	1641.2	1653.3	1669.2	1695.0	1722.9	1754.5	*1750.8*	1763.5	1742.4	1677.6
10°	1524.2	1521.1	1540.0	1563.7	1603.3	1639.1	1685.0	*1684.4*	1717.6	1715.5	1641.7
12.5°	1426.7	1426.2	1440.9	1467.8	1514.2	1564.3	1626.5	*1628.0*	1669.2	1686.0	1611.2
15°	1344.5	1345.5	1359.8	1387.7	1435.7	1496.8	1569.0	*1582.2*	1628.6	1662.8	1581.1
17.5°	1286.0	1286.5	1295.0	1319.2	1366.1	1431.5	1518.4	*1536.3*	1595.9	1645.4	1556.9
20°	1259.1	1257.0	1258.6	1270.7	1307.1	1366.6	1466.8	*1490.0*	1565.9	1633.3	1534.8
22.5°	1262.8	1259.6	1252.3	1250.7	1267.0	1312.3	1412.0	*1440.4*	1533.2	1625.9	1514.7
25°	1295.5	1288.6	1278.1	1262.3	1256.0	1278.6	1364.0	*1393.5*	1502.6	1626.5	1499.4
27.5°	1345.5	1338.2	1325.0	1303.9	1279.1	1269.7	1331.3	*1359.3*	1481.0	1638.6	1492.1
30°	1409.3	1403.5	1390.9	1365.6	1332.4	1293.4	1324.5	*1347.7*	1470.5	1663.4	1495.2
32.5°	1484.7	1480.5	1469.9	1446.7	1408.8	1349.2	1347.7	*1365.6*	1478.9	1699.2	1507.4
35°	1557.4	1559.0	1559.5	1546.9	1506.3	1434.1	1411.4	*1417.8*	1513.7	1753.0	1534.8
37.5°	1636.0	1632.3	1651.2	1660.2	1621.2	1544.2	1510.0	*1510.5*	1580.1	1832.5	1586.4
40°	1695.5	1696.6	1737.7	1774.6	1758.2	1683.9	1634.9	*1634.4*	1682.3	1941.6	1669.7
42.5°	1751.4	1758.2	1818.8	1882.1	1904.7	1838.9	1803.6	*1790.4*	1825.7	2089.2	1794.6
45°	1810.9	1820.9	1905.8	1995.9	2055.5	2016.5	1988.5	*1993.8*	1998.0	2261.0	1962.7
47.5°	1880.5	1886.8	1991.7	2118.7	2229.9	2219.9	2221.5	*2215.2*	2213.1	2477.6	2185.1
50°	1964.8	1979.6	2100.3	2252.1	2403.9	2470.3	2492.4	*2495.0*	2460.8	2713.8	2415.5
52.5°	2144.0	2161.9	2265.2	2398.1	2593.6	2733.3	2823.4	*2805.5*	2752.8	2942.5	2667.9
55°	2355.4	2369.1	2468.7	2606.2	2825.5	3021.6	3235.5	*3228.2*	3099.0	3183.4	2875.6
57.5°	2375.4	2390.7	2545.1	2755.9	3123.3	3377.8	3602.9	*3626.6*	3437.4	3354.1	3061.1
60°	2150.3	2181.4	2392.3	2675.8	3237.1	3856.9	4005.6	*4010.3*	3685.6	3527.5	3287.7
62.5°	1723.4	1738.2	1950.6	2320.6	3061.6	4136.3	4620.6	*4520.5*	4004.5	3795.8	3646.6
65°	903.4	963.4	1148.4	1557.9	2482.9	4038.8	5360.6	*5333.2*	4577.9	4180.0	3926.0
67.5°	*619.8*	*619.3*	*663.0*	*812.2*	*1480.5*	*3477.5*	*5723.7*	*6025.2*	*5240.9*	*4311.8*	*3723.6*
70°	471.7	473.3	512.3	609.3	766.9	2314.8	5325.3	*5840.7*	5364.3	3914.9	3011.5
72.5°	313.1	316.2	381.1	492.3	612.4	1134.7	4138.4	*4673.3*	4513.6	3144.4	2119.8
75°	187.1	189.7	236.1	357.9	544.4	635.1	2629.4	*3230.8*	3106.9	2167.2	1136.3
77.5°	76.9	79.1	121.2	222.9	398.4	493.3	1454.1	*2114.0*	1861.0	861.7	310.4
80°	32.1	33.2	58.5	156.0	287.2	309.4	673.6	*993.5*	762.6	185.5	94.9
82.5°	11.6	12.1	21.6	85.9	178.7	233.0	339.9	*392.6*	215.0	60.6	51.1
85°	0.5	0.5	5.3	29.0	68.0	65.9	194.5	*188.2*	71.2	25.3	30.6
87.5°	0.0	0.0	0.5	0.5	1.1	2.6	18.4	*32.7*	15.3	6.3	13.2
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: P632535
CATALOG NUMBER: GWS-SA2C-830-U-SL3-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1717.6	1717.6	1717.6	1717.6	1717.6	1717.6	1717.6	1717.6	1717.6	1717.6	1717.6
2.5°	1706.6	1678.6	1648.1	1619.6	1574.3	1547.4	1514.2	1499.4	1478.4	1473.1	1476.3
5°	1671.8	1623.8	1550.6	1484.2	1398.3	1329.2	1259.6	1230.1	1192.2	1166.9	1156.3
7.5°	1622.8	1560.1	1445.7	1325.0	1206.9	1081.0	985.0	921.8	864.4	832.7	826.4
10°	1573.2	1491.5	1327.6	1154.8	971.9	821.1	691.5	595.6	517.6	482.2	454.8
12.5°	1522.1	1420.4	1207.5	981.9	769.5	563.9	403.7	310.4	254.6	232.4	236.1
15°	1475.2	1351.9	1088.4	809.0	541.8	340.5	222.9	188.2	175.0	170.8	170.2
17.5°	1430.4	1287.0	969.8	640.9	357.3	208.7	170.8	162.3	158.6	156.5	156.5
20°	1389.8	1224.9	853.8	482.8	230.8	165.5	154.4	150.2	147.0	145.5	145.5
22.5°	1351.9	1164.8	740.5	341.5	170.2	148.6	141.8	137.6	133.9	131.8	131.8
25°	1317.6	1110.5	632.5	235.1	146.5	136.0	128.6	123.9	117.5	113.8	113.8
27.5°	1292.8	1062.0	528.6	171.3	132.3	122.3	113.8	107.5	100.7	96.4	95.4
30°	1278.1	1020.9	423.7	140.7	119.1	109.1	99.6	91.7	83.8	79.6	79.1
32.5°	1269.7	982.9	327.8	122.8	108.0	96.4	85.9	77.5	69.6	64.8	64.3
35°	1272.8	953.4	245.6	110.7	97.5	85.4	73.8	65.4	58.5	54.3	53.2
37.5°	1300.2	940.3	184.5	101.2	88.5	75.9	63.8	55.9	49.5	46.4	45.9
40°	1353.5	942.9	144.9	93.8	81.2	66.4	54.8	47.4	42.7	40.1	39.5
42.5°	1436.2	965.0	119.6	87.5	73.3	58.0	47.4	41.6	36.9	34.3	33.7
45°	1559.5	1010.9	104.4	80.1	64.8	50.1	41.1	35.8	31.6	28.5	27.9
47.5°	1738.2	1090.5	94.3	73.3	57.4	43.2	35.3	30.0	26.4	23.7	23.2
50°	1928.5	1185.9	85.9	66.4	51.1	37.4	30.0	24.8	21.6	19.0	18.4
52.5°	2131.4	1288.6	79.6	60.1	45.3	32.1	25.3	20.6	17.4	14.8	14.2
55°	2326.4	1391.9	72.2	55.9	38.5	27.4	21.1	16.9	13.7	11.6	11.6
57.5°	2516.1	1486.8	64.3	49.0	31.6	23.2	17.4	13.7	11.1	9.5	9.0
60°	2742.7	1618.0	55.3	41.6	26.4	19.5	14.2	11.1	9.0	7.4	7.4
62.5°	3079.5	1754.5	47.4	34.8	22.1	16.3	11.6	9.0	7.4	6.3	5.8
65°	3189.7	1680.8	40.1	28.5	17.9	13.2	9.5	7.9	6.3	5.8	5.3
67.5°	*2895.6*	*1377.7*	*33.2*	*23.2*	*14.8*	*11.1*	*8.4*	*6.9*	*5.8*	*5.3*	*4.7*
70°	2259.4	977.7	25.8	17.4	12.1	9.0	7.4	6.3	5.3	4.7	4.7
72.5°	1536.9	578.2	20.6	13.2	10.0	7.9	6.3	5.8	5.3	4.7	4.2
75°	756.8	205.5	15.8	10.0	7.9	6.9	5.8	5.3	4.7	4.2	4.2
77.5°	204.0	56.9	12.1	7.9	6.3	5.3	5.3	5.3	4.7	3.7	3.7
80°	69.0	23.7	9.0	5.8	5.3	4.2	3.7	4.7	4.2	3.7	3.2
82.5°	37.9	11.6	6.3	4.7	3.7	3.2	3.2	3.2	3.2	2.6	2.6
85°	24.2	6.3	4.2	3.7	3.7	2.6	2.1	2.1	1.6	1.6	1.6
87.5°	11.1	3.7	3.7	3.2	3.2	2.6	1.6	1.1	0.5	0.5	0.5
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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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

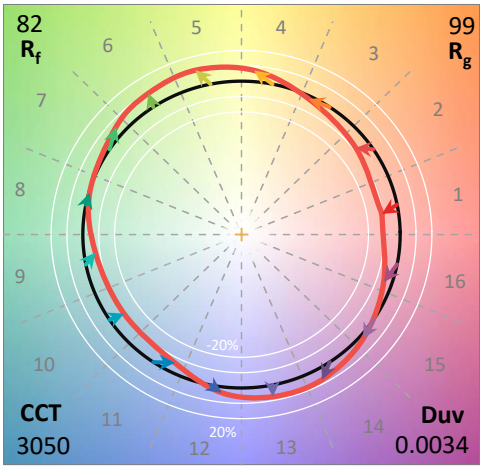
Test Information

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

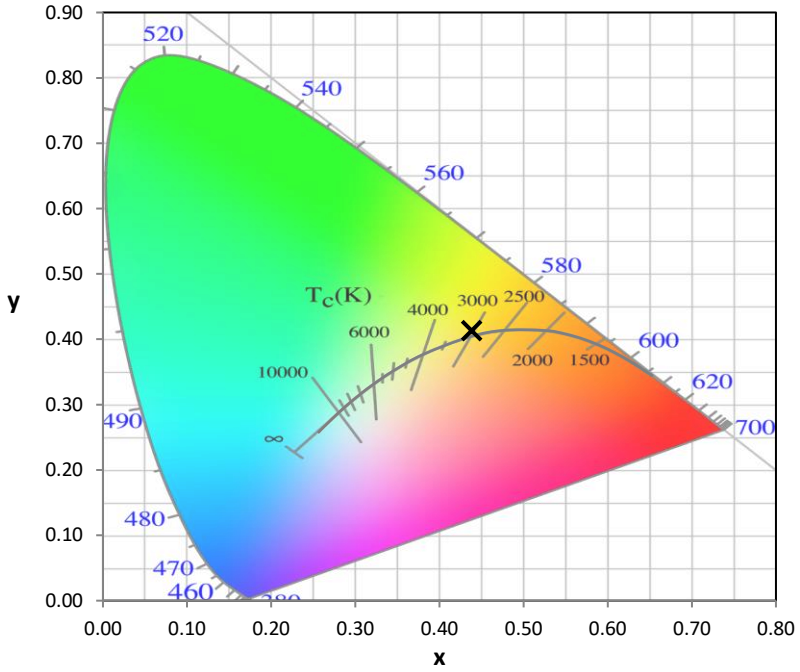
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

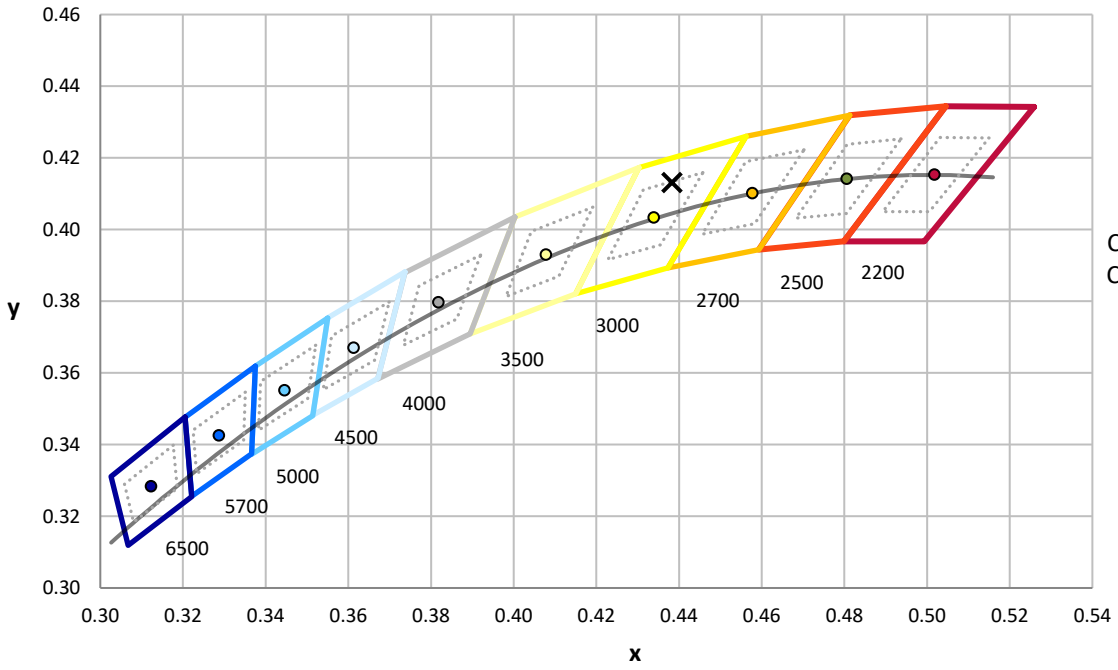
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

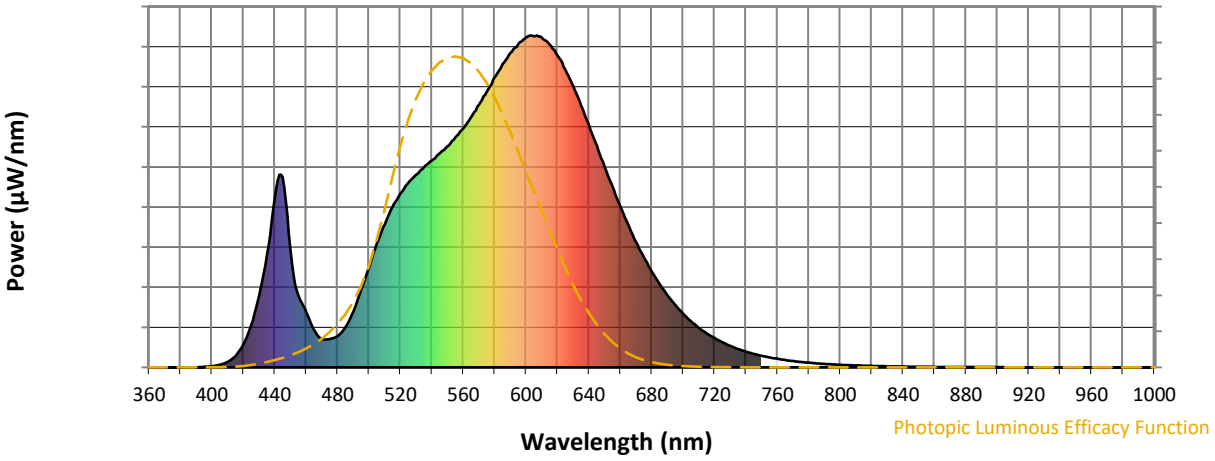


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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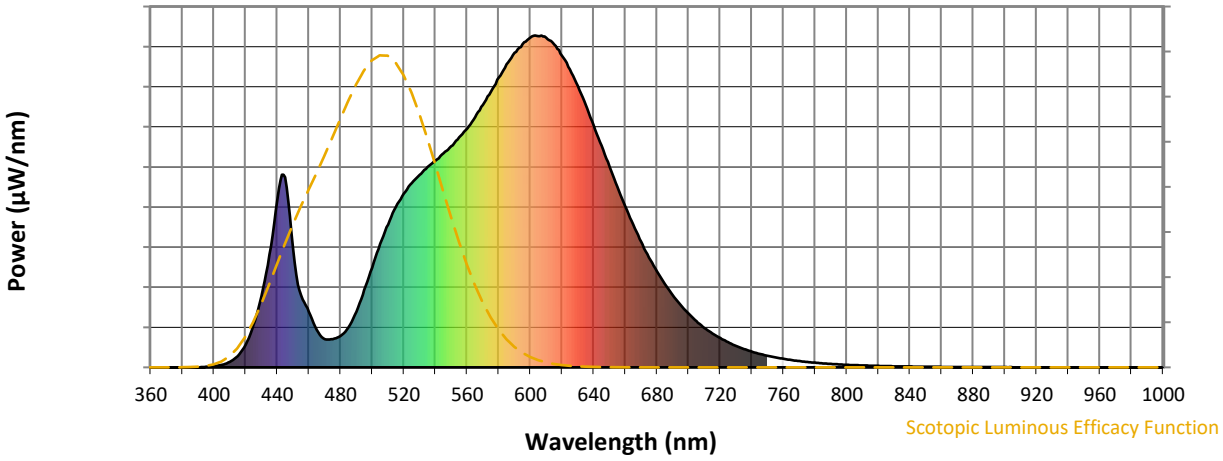
Scotopic Flux vs. Wavelength



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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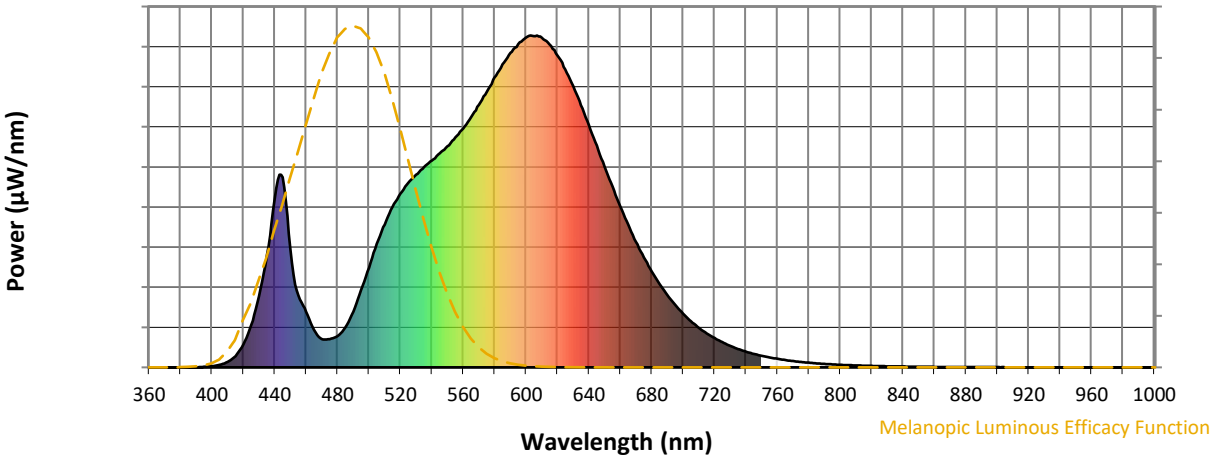
Melanopic Flux vs. Wavelength



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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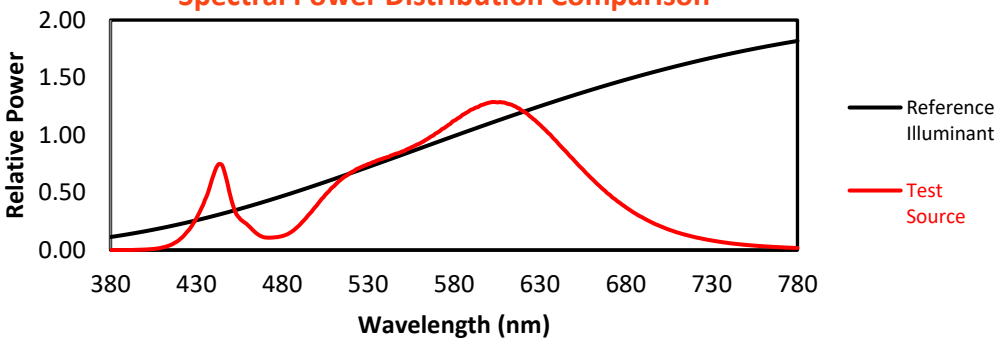
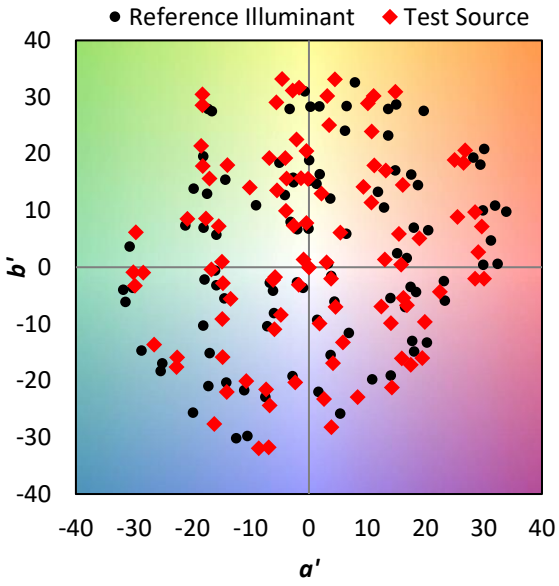
Summary

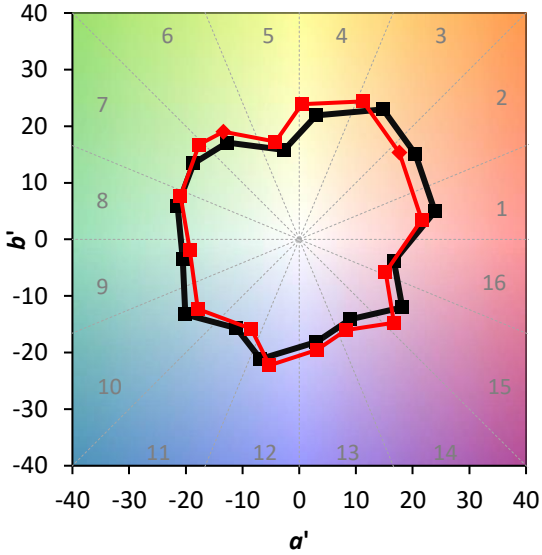
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

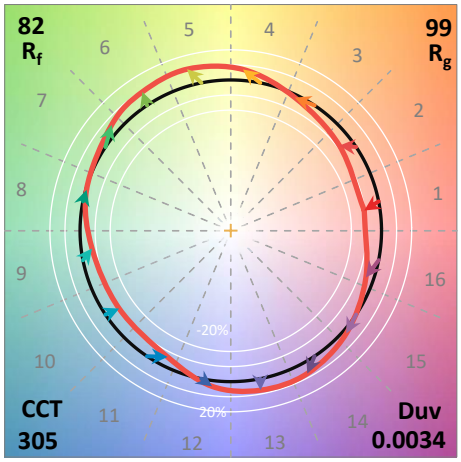
Spectral Power Distribution Comparison

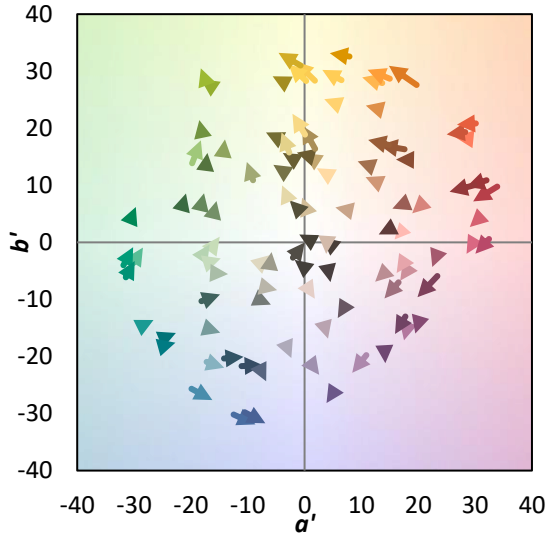


Color Vector Graphics









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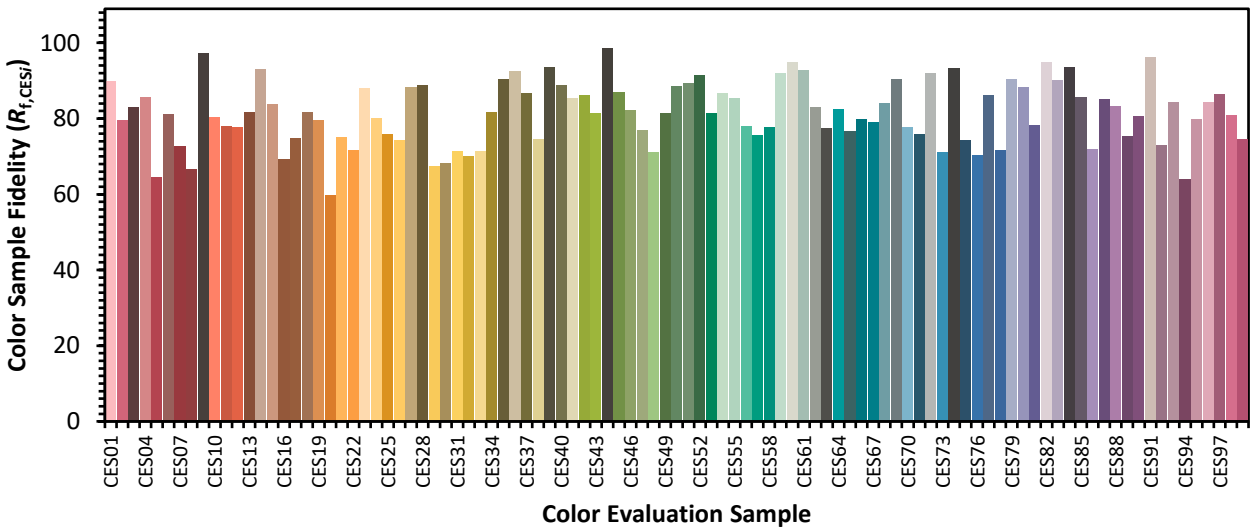
Individual Sample Fidelity Index ($R_{f,i}$)

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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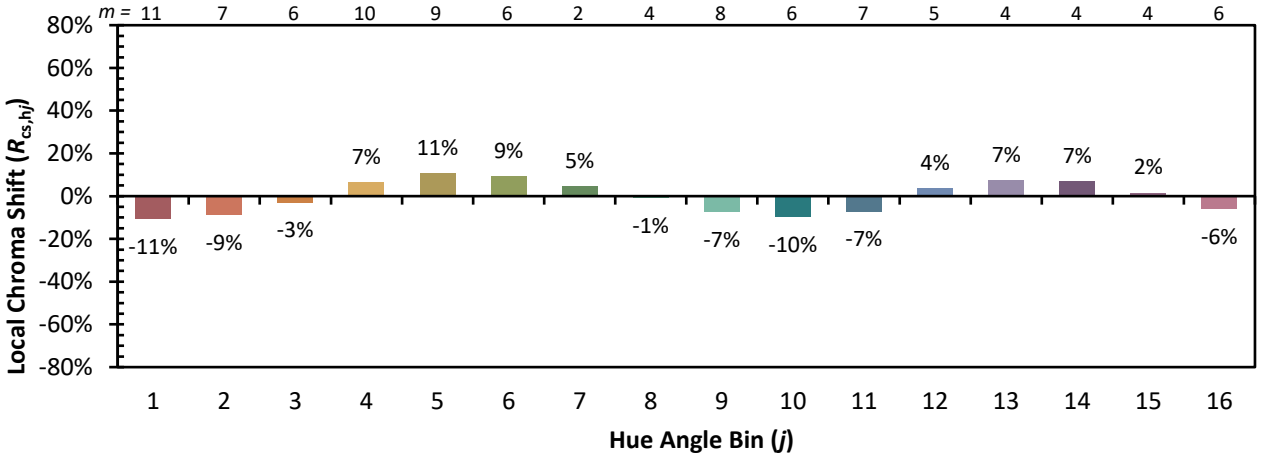
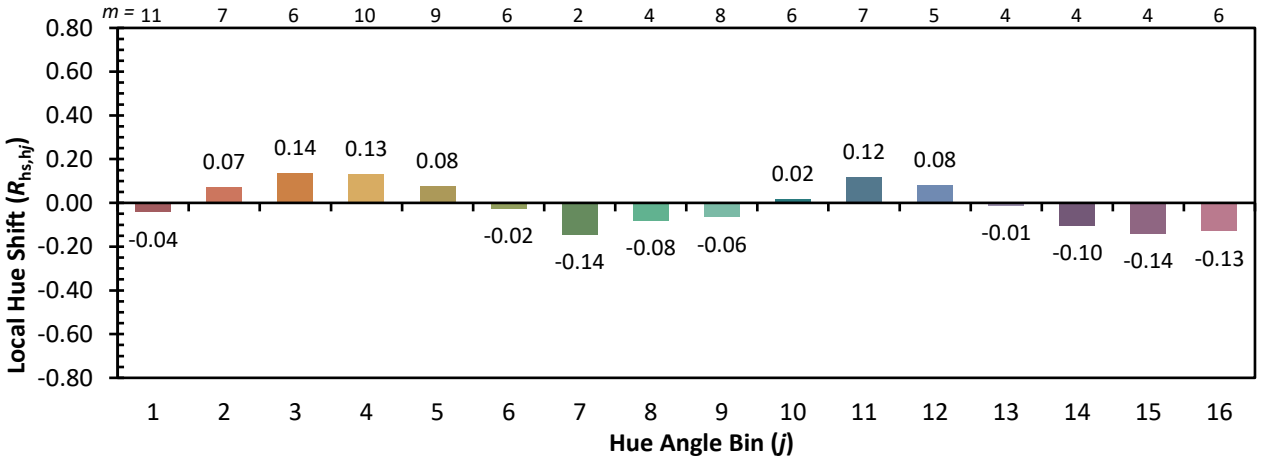
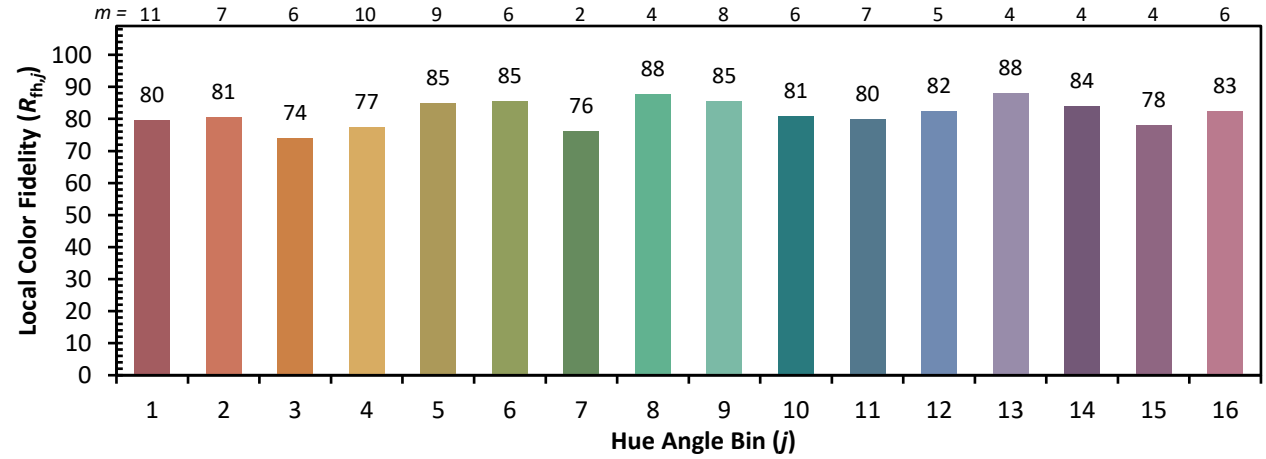
Color Rendition by Hue-Angle Bin







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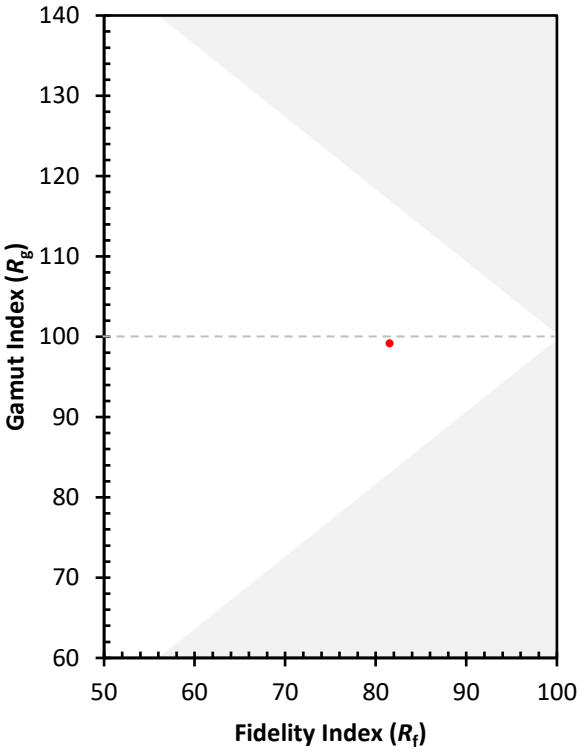
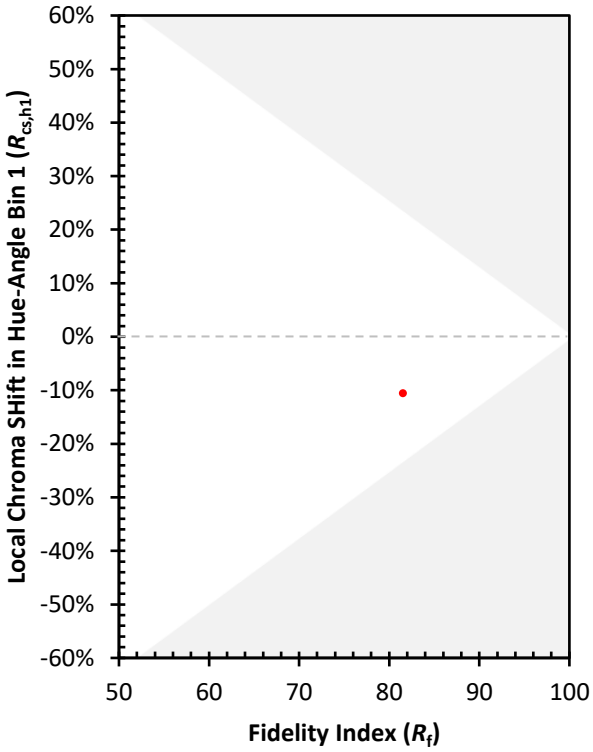
Measure Comparisons





(END OF REPORT)