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: P633058

Luminaire Tested: GWS-SA2D-830-U-T3R-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:	P633058
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2D-830-U-T3R-W
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	9429.3 lumens
Efficiency:	N/A
Efficacy:	114.9 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B1 - U0 - G2

Input Watts (W):	82.1
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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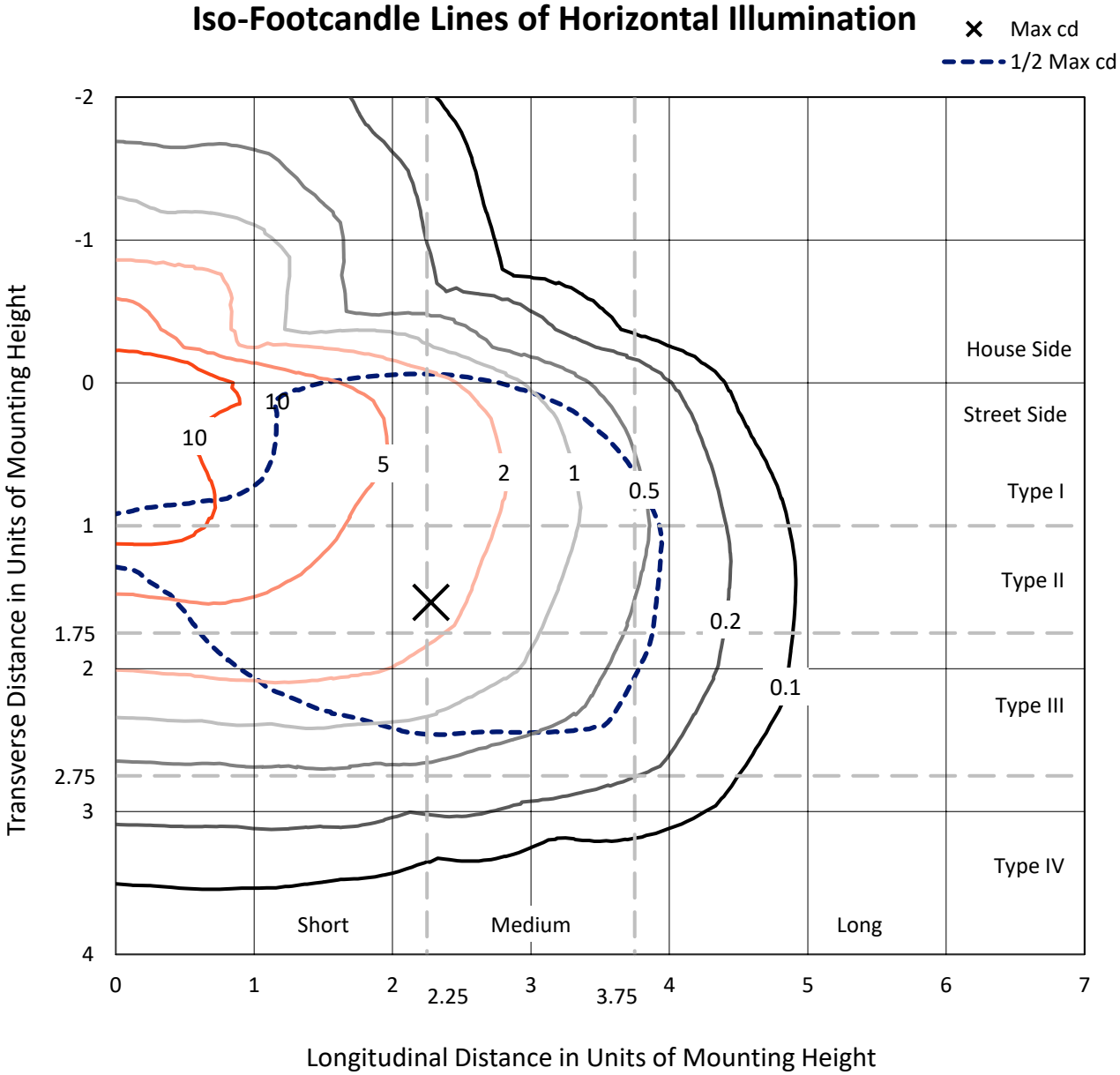
Scaled Data Report

REPORT NUMBER: P633058
CATALOG NUMBER: GWS-SA2D-830-U-T3R-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 15.8 fc
Type III - Medium - N/A

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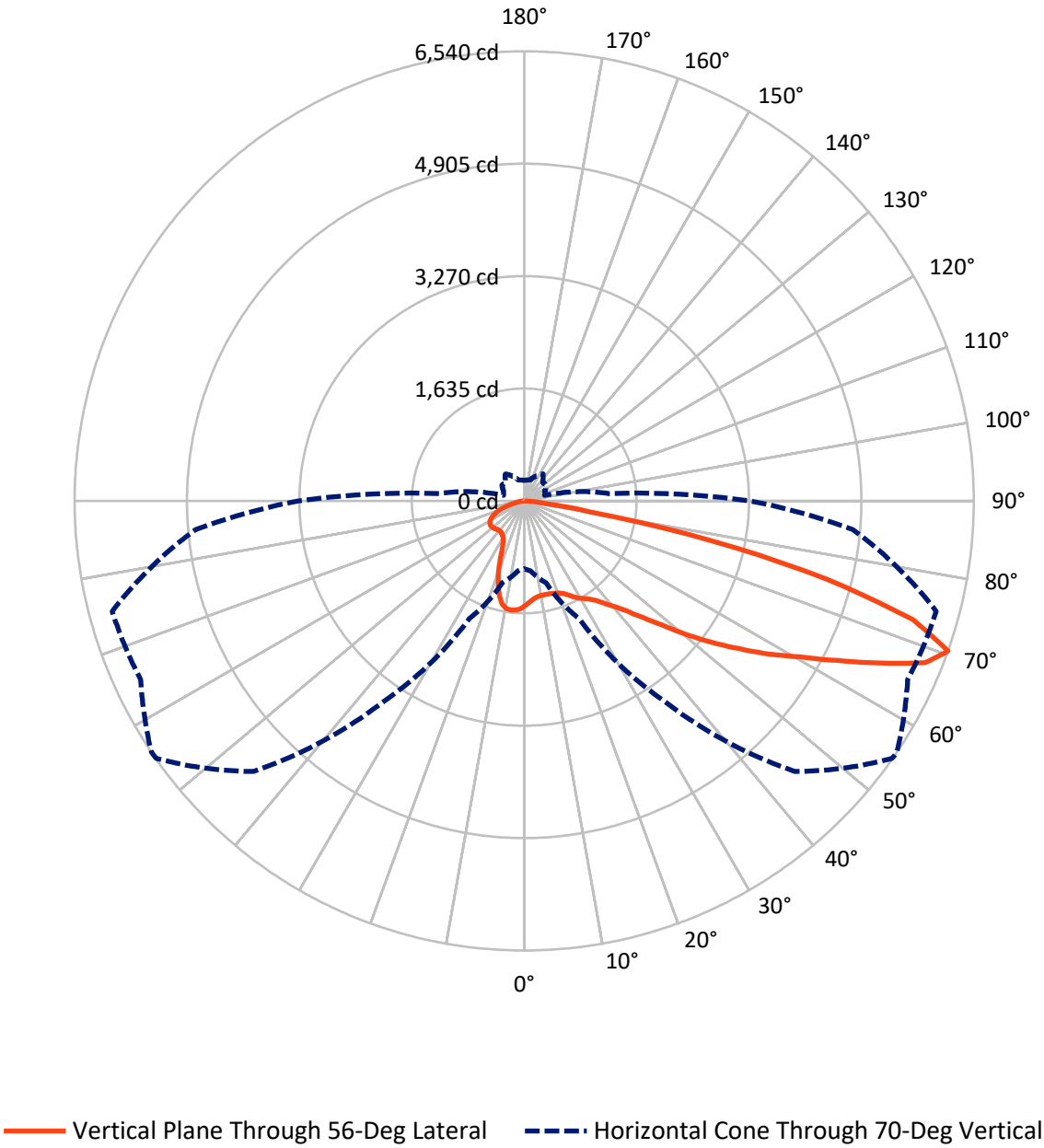
Luminous Intensity Polar Plot



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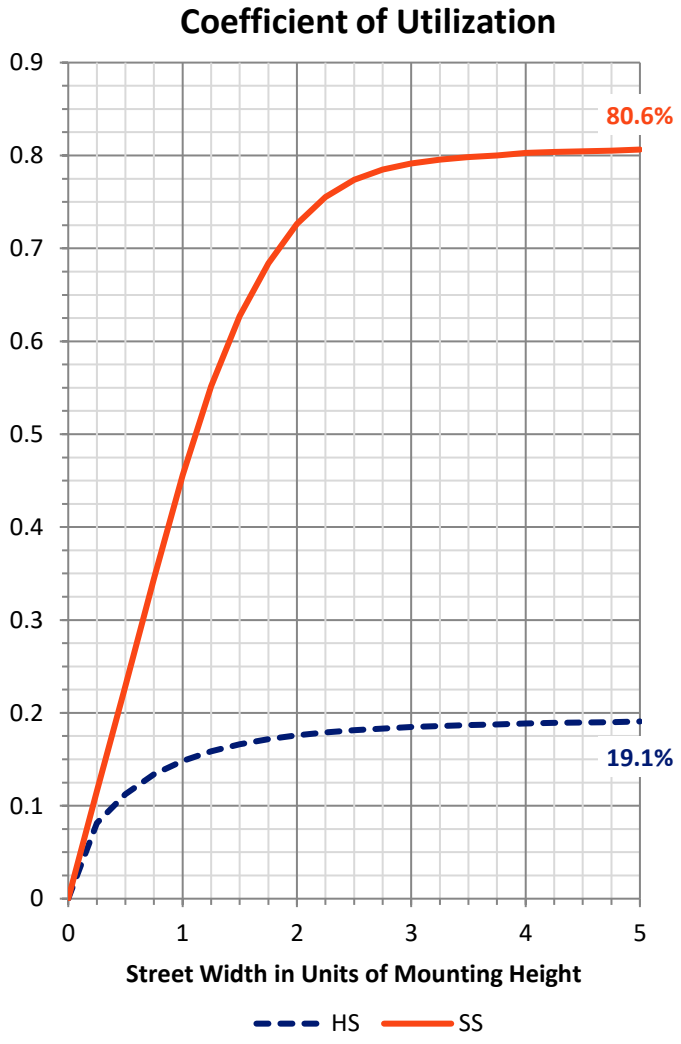
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1812.8	0.0	1812.8
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	7616.5	0.0	7616.5
	% Fixture	80.8	0.0	80.8
Total	Lumens	9429.3	0.0	9429.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.8	1.5
10°-20°	381.6	4.0
20°-30°	630.9	6.7
30°-40°	943.3	10.0
40°-50°	1403.8	14.9
50°-60°	1995.8	21.2
60°-70°	2471.9	26.2
70°-80°	1364.9	14.5
80°-90°	96.1	1.0
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°	9429.3	100.0
0°-180°	9429.3	100.0



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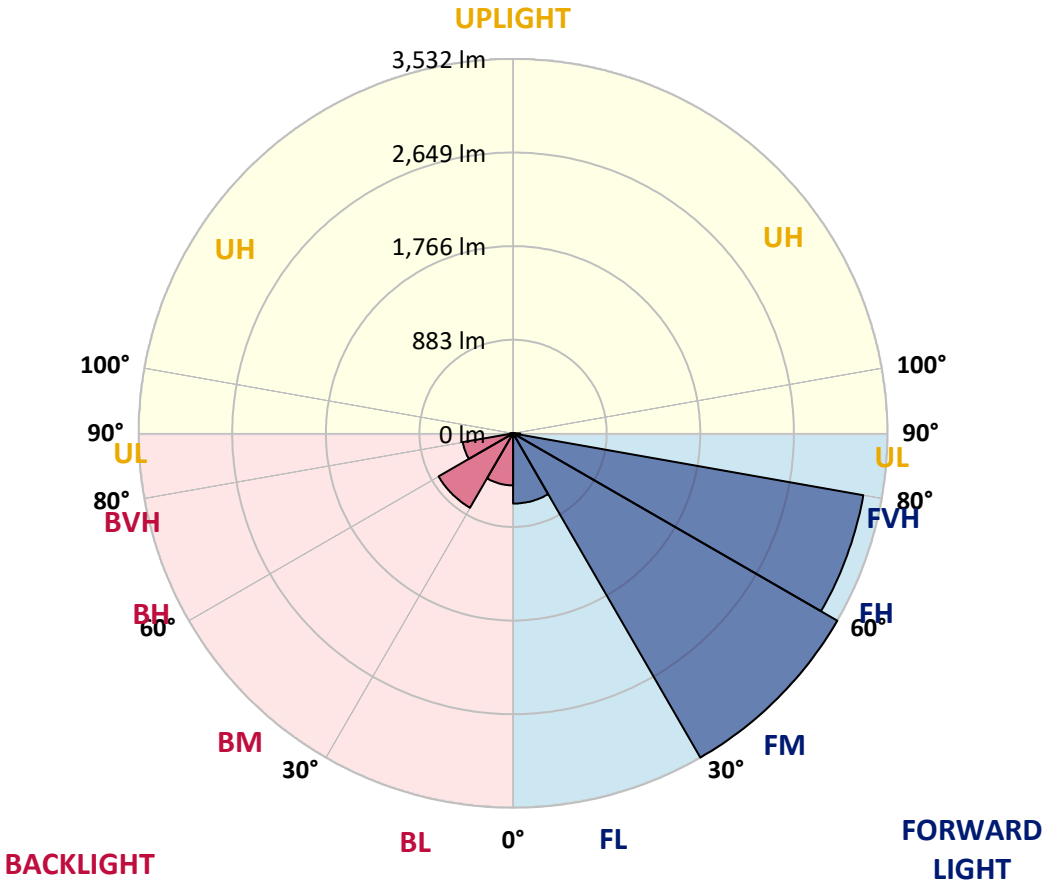
REPORT NUMBER: P633058
CATALOG NUMBER: GWS-SA2D-830-U-T3R-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	662.7	7.0			
FM	(30°-60°)	3532.1	37.5			
FH	(60°-80°)	3355.0	35.6			G2/5000
FVH	(80°-90°)	66.8	0.7			G1/100
BL	(0°-30°)	490.7	5.2	B1/500		
BM	(30°-60°)	810.9	8.6	B1/1000		
BH	(60°-80°)	481.8	5.1	B1/500		G1/500
BVH	(80°-90°)	29.3	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-G2
Type III Medium



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Scaled Data Report

REPORT NUMBER: P633058
CATALOG NUMBER: GWS-SA2D-830-U-T3R-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1522.0	1522.0	1522.0	1522.0	1522.0	1522.0	1522.0	*1522.0*	1522.0	1522.0	1522.0
2.5°	1424.3	1416.3	1425.6	1430.3	1442.2	1459.5	1474.8	*1475.5*	1483.5	1502.8	1521.4
5°	1359.8	1355.8	1358.5	1372.4	1385.1	1407.0	1430.3	*1432.3*	1454.9	1492.8	1530.0
7.5°	1309.9	1304.6	1314.6	1332.5	1348.5	1373.1	1403.7	*1406.3*	1438.3	1495.4	1552.6
10°	1238.1	1234.1	1252.7	1276.7	1311.2	1351.8	1392.4	*1395.7*	1437.6	1512.7	1592.5
12.5°	1206.9	1206.9	1214.8	1237.4	1275.3	1329.2	1390.4	*1395.7*	1448.2	1539.3	1643.7
15°	1255.4	1258.7	1252.1	1250.7	1266.0	1317.2	1393.0	*1401.0*	1468.2	1566.6	1694.3
17.5°	1353.1	1356.5	1339.2	1311.9	1296.6	1328.5	1403.0	*1411.7*	1489.5	1596.5	1748.8
20°	1490.1	1494.1	1456.2	1414.3	1361.8	1361.1	1422.3	*1430.3*	1516.7	1629.1	1806.6
22.5°	1650.4	1653.0	1605.2	1538.7	1458.2	1421.6	1455.5	*1463.5*	1552.0	1674.3	1869.1
25°	1835.9	1843.9	1786.0	1689.6	1580.5	1504.7	1510.7	*1520.0*	1615.1	1734.8	1942.9
27.5°	2034.0	2044.0	1977.5	1871.1	1720.8	1596.5	1581.9	*1589.9*	1682.3	1772.0	1982.2
30°	2236.8	2244.2	2177.7	2056.0	1871.8	1700.2	1641.7	*1646.4*	1711.5	1790.0	2022.1
32.5°	2462.3	2456.3	2392.4	2252.1	2046.0	1824.6	1697.6	*1696.2*	1744.1	1825.9	2079.2
35°	2673.7	2682.3	2614.5	2459.6	2237.5	1978.2	1781.4	*1776.0*	1813.3	1884.4	2159.7
37.5°	2929.7	2927.0	2845.9	2678.4	2429.7	2125.1	1899.1	*1889.7*	1903.0	1975.5	2272.1
40°	3112.6	3131.2	3078.6	2922.4	2654.4	2306.0	2036.7	*2016.1*	2019.4	2087.9	2422.4
42.5°	3262.2	3279.5	3284.8	3185.0	2911.7	2529.4	2208.2	*2187.6*	2189.6	2286.7	2607.2
45°	3377.2	3400.5	3475.6	3446.4	3201.7	2787.4	2440.3	*2419.0*	2420.4	2528.1	2830.6
47.5°	3424.4	3449.7	3601.9	3671.8	3509.5	3095.9	2728.9	*2697.6*	2702.3	2821.3	3086.0
50°	3409.1	3443.0	3649.2	3845.3	3767.5	3409.8	3074.0	*3052.0*	3034.1	3207.0	3363.2
52.5°	3277.5	3314.7	3644.5	3955.7	3978.3	3706.3	3430.4	*3417.8*	3413.8	3616.6	3673.1
55°	2889.8	2952.3	3484.3	3984.9	4143.2	3985.6	3816.7	*3795.4*	3816.1	4055.4	3986.3
57.5°	2675.0	2721.6	3170.4	3952.4	4278.2	4251.6	4202.4	*4204.4*	4227.7	4532.2	4366.0
60°	2552.7	2607.2	2996.2	3863.3	4407.8	4574.7	4606.0	*4606.0*	4647.9	5046.2	4751.6
62.5°	2390.4	2445.6	2833.3	3691.7	4527.5	4955.1	5113.3	*5111.3*	5128.0	5597.4	5128.6
65°	2061.3	2112.5	2506.1	3421.1	4586.1	5374.0	5689.8	*5683.9*	5650.6	6088.1	5378.0
67.5°	1496.8	1545.3	1919.7	2906.4	4375.3	5711.8	6283.6	*6286.3*	6087.5	6397.3	5391.3
70°	*986.8*	*1020.0*	*1234.1*	*1887.7*	*3558.1*	*5566.2*	*6532.3*	*6540.3*	*6154.6*	*6204.5*	*4798.2*
72.5°	615.7	639.0	770.7	1125.7	2102.5	4405.9	5894.0	*5915.9*	5536.9	5452.5	3942.4
75°	408.9	424.9	512.7	656.3	972.8	2384.5	4480.3	*4550.8*	4437.8	4274.2	2746.8
77.5°	246.0	259.3	326.5	416.9	430.9	931.6	2615.2	*2797.4*	2813.3	2231.5	1150.3
80°	112.4	127.7	180.2	238.0	229.4	324.5	922.3	*964.8*	1138.4	708.8	363.1
82.5°	66.5	73.1	119.7	118.4	97.7	157.6	331.8	*340.4*	289.2	259.3	154.9
85°	26.6	31.3	50.5	44.6	35.9	51.2	125.0	*131.0*	125.7	113.0	57.2
87.5°	0.0	0.0	0.0	0.0	0.7	1.3	11.3	*12.0*	17.3	31.3	17.3
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: P633058
CATALOG NUMBER: GWS-SA2D-830-U-T3R-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1522.0	1522.0	1522.0	1522.0	1522.0	1522.0	1522.0	1522.0	1522.0	1522.0	1522.0
2.5°	1533.3	1529.3	1549.3	1564.6	1571.2	1577.9	1571.9	1569.9	1569.9	1556.6	1550.0
5°	1550.0	1552.0	1579.2	1591.9	1591.9	1586.5	1570.6	1559.3	1555.3	1538.0	1533.3
7.5°	1581.2	1589.9	1615.1	1614.5	1595.8	1566.6	1526.7	1496.1	1468.2	1456.2	1448.9
10°	1632.4	1643.7	1661.0	1633.1	1581.2	1504.1	1419.6	1353.1	1313.2	1281.3	1281.3
12.5°	1690.9	1701.6	1698.2	1633.7	1526.7	1382.4	1260.7	1184.2	1128.4	1099.1	1099.1
15°	1749.4	1758.1	1722.2	1603.2	1413.0	1220.8	1087.8	996.1	947.5	920.3	920.3
17.5°	1808.6	1808.0	1732.2	1532.7	1264.7	1042.0	911.6	840.5	823.9	819.2	818.5
20°	1865.8	1850.5	1719.5	1415.0	1092.5	861.8	779.3	784.0	808.6	819.2	820.5
22.5°	1930.3	1892.4	1682.3	1264.7	897.0	736.7	742.1	780.6	816.5	832.5	834.5
25°	1996.1	1928.3	1619.8	1088.5	733.4	690.9	732.1	775.3	815.9	836.5	838.5
27.5°	2022.7	1928.3	1513.4	884.4	646.3	671.6	716.8	758.7	801.2	825.2	829.8
30°	2044.7	1911.7	1364.4	700.2	610.4	653.0	692.2	730.8	772.7	801.9	807.2
32.5°	2075.3	1897.1	1184.2	588.5	593.8	635.0	662.3	694.9	732.8	752.0	750.0
35°	2111.2	1874.4	966.8	535.3	579.8	619.7	639.0	658.3	641.0	640.3	642.3
37.5°	2162.4	1854.5	777.3	511.3	570.5	609.1	625.0	583.8	559.9	549.9	545.9
40°	2236.2	1846.5	613.1	497.4	569.2	608.4	597.1	533.3	500.7	466.1	465.5
42.5°	2329.3	1840.5	506.7	490.7	573.8	623.7	558.5	500.0	432.9	417.6	416.2
45°	2449.0	1831.2	453.5	489.4	585.1	635.7	554.6	454.1	408.3	401.6	401.6
47.5°	2593.2	1816.6	429.5	489.4	597.8	630.4	542.6	444.2	397.0	404.3	408.9
50°	2758.8	1798.0	416.9	488.1	610.4	630.4	517.3	442.2	394.3	432.2	447.5
52.5°	2935.7	1776.7	408.3	482.7	619.1	631.0	518.6	448.8	397.0	438.9	451.5
55°	3131.2	1773.4	396.3	471.4	621.7	613.7	522.0	463.5	401.0	397.6	398.3
57.5°	3377.9	1813.3	387.7	454.8	611.1	578.5	528.6	474.1	396.3	397.0	401.6
60°	3635.9	1888.4	395.0	438.9	589.1	545.2	533.3	468.8	373.7	363.1	364.4
62.5°	3855.3	1945.6	401.0	431.5	557.2	516.0	528.6	456.8	361.1	358.4	364.4
65°	3947.0	1898.4	386.3	416.2	510.7	480.1	518.6	441.5	350.4	340.4	341.1
67.5°	3845.3	1677.0	357.7	382.3	458.1	434.2	502.7	421.6	335.8	323.8	321.2
70°	*3284.8*	*1232.1*	*308.5*	*328.5*	*394.3*	*380.3*	*478.1*	*395.6*	*312.5*	*303.9*	*297.9*
72.5°	2647.1	872.4	256.0	261.3	309.2	320.5	435.5	363.1	285.9	261.3	252.7
75°	1842.5	547.9	213.4	208.1	223.4	244.7	339.8	301.2	246.7	220.8	212.8
77.5°	792.6	281.3	166.9	164.2	148.9	169.6	260.7	251.3	206.8	176.9	172.2
80°	265.3	162.9	120.4	115.7	99.1	119.0	183.5	200.8	162.2	131.0	123.0
82.5°	133.0	94.4	76.5	69.2	66.5	75.1	108.4	125.0	112.4	90.4	76.5
85°	65.2	53.9	41.9	41.2	34.6	32.6	45.2	53.2	50.5	37.2	35.2
87.5°	23.9	21.3	13.3	10.6	6.6	4.7	2.7	2.7	2.0	2.0	2.0
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

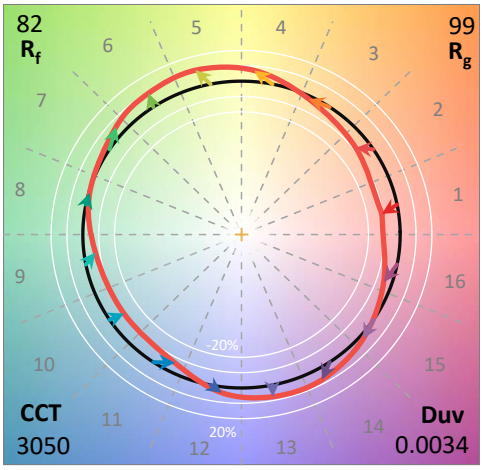
Test Information

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

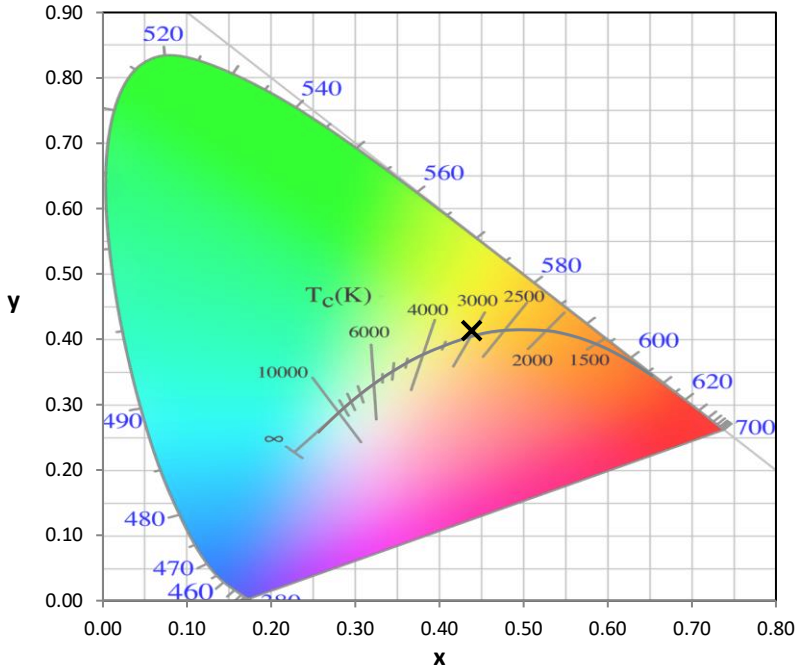
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

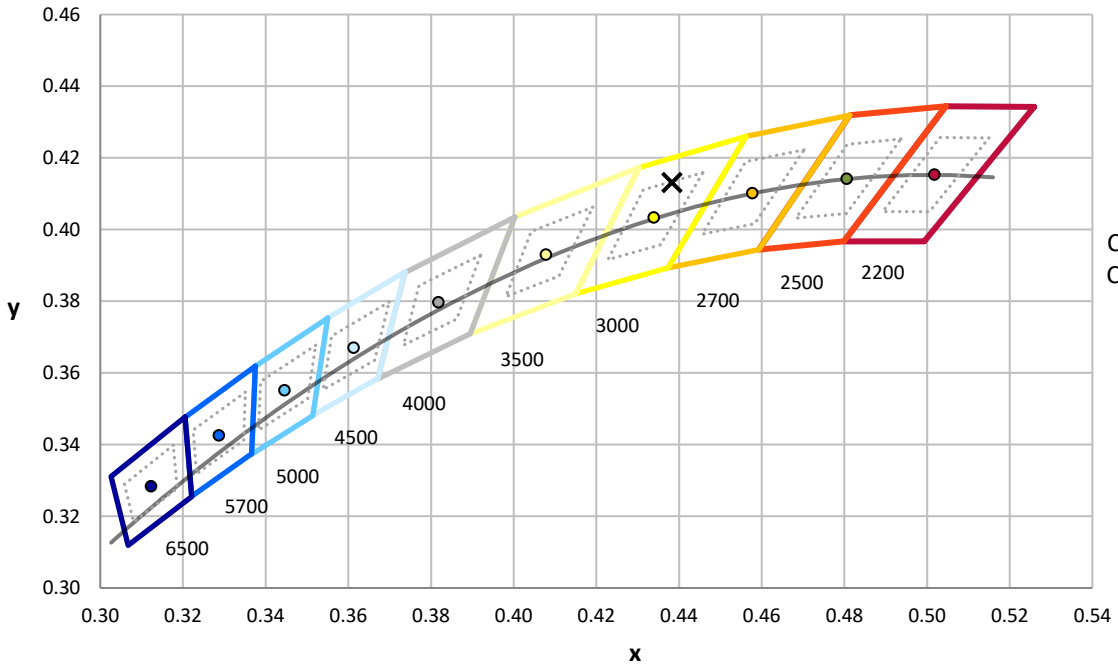
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

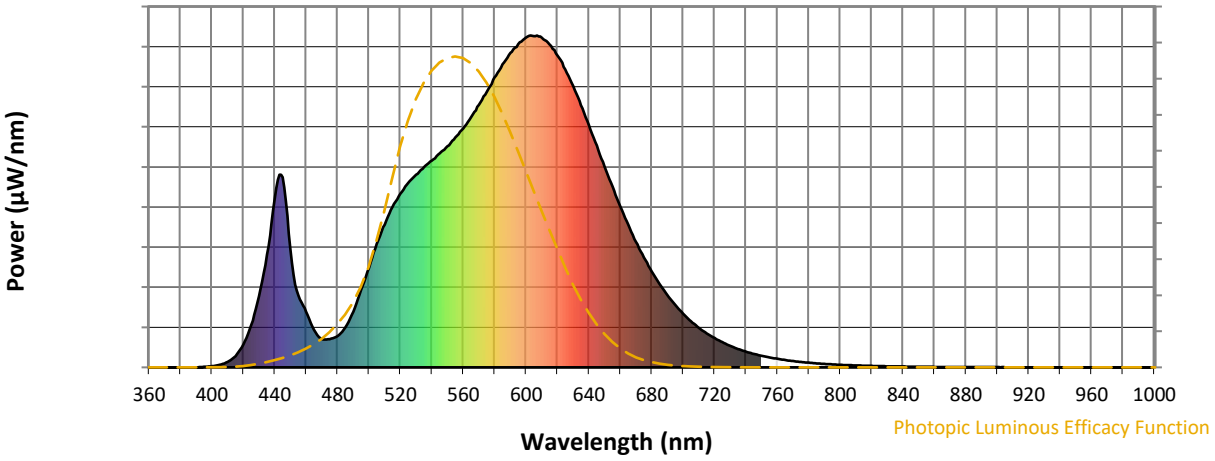


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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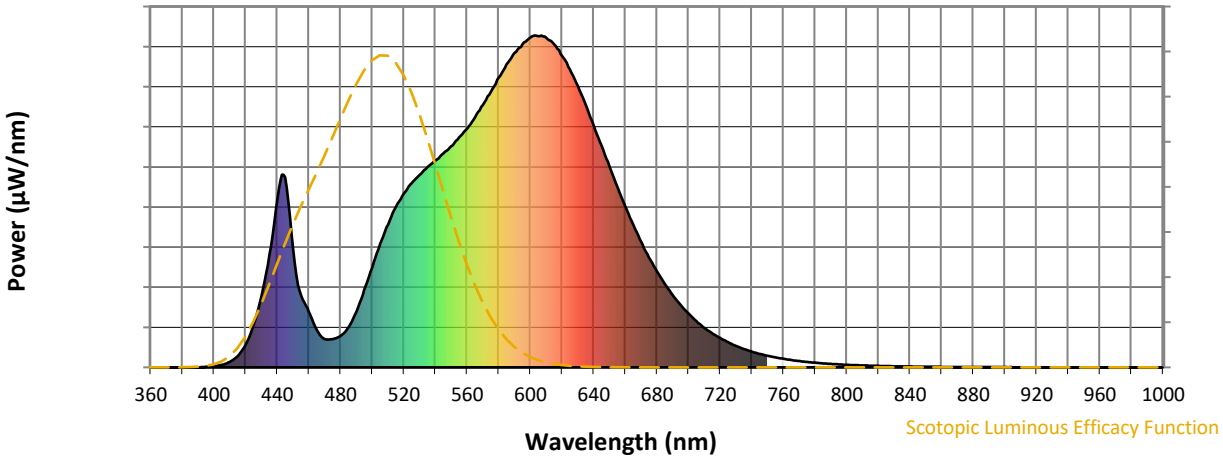
Scotopic Flux vs. Wavelength



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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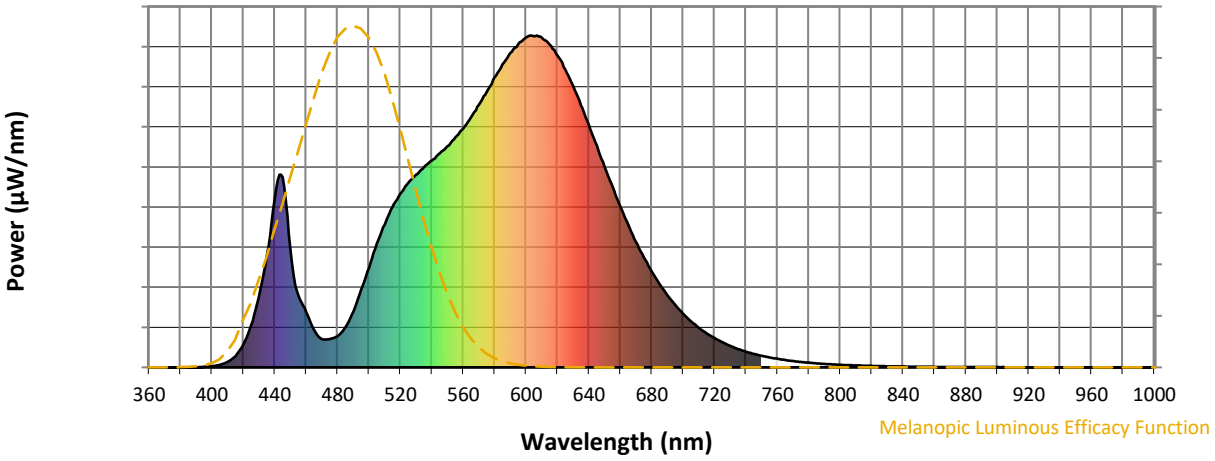
Melanopic Flux vs. Wavelength



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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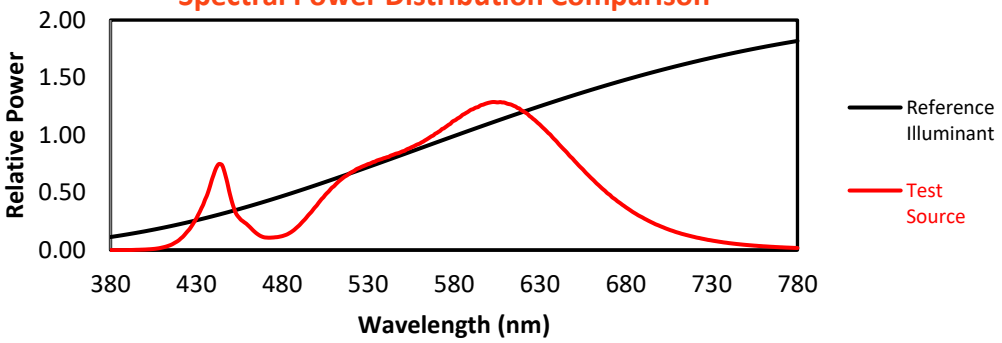
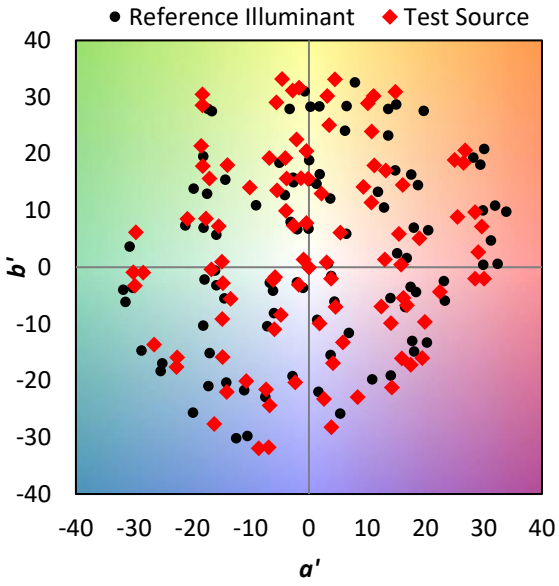
Summary

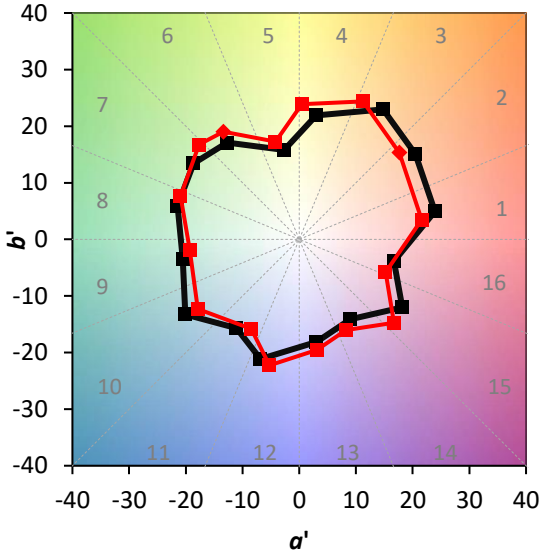
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

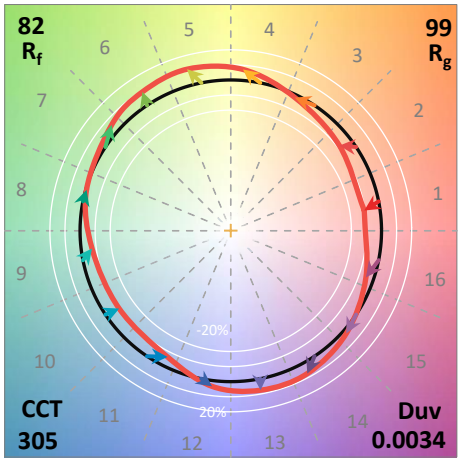
Spectral Power Distribution Comparison

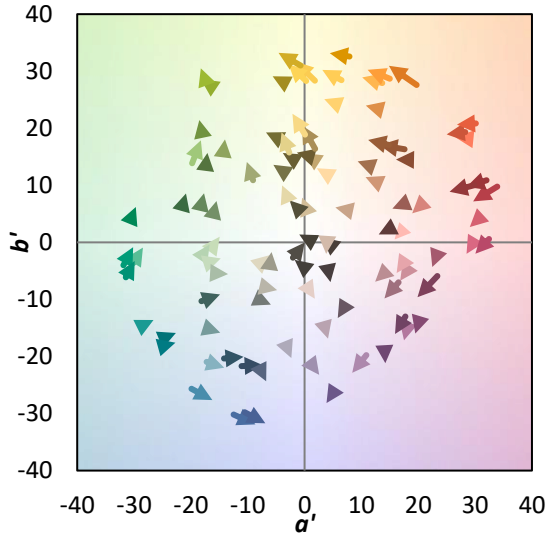


Color Vector Graphics









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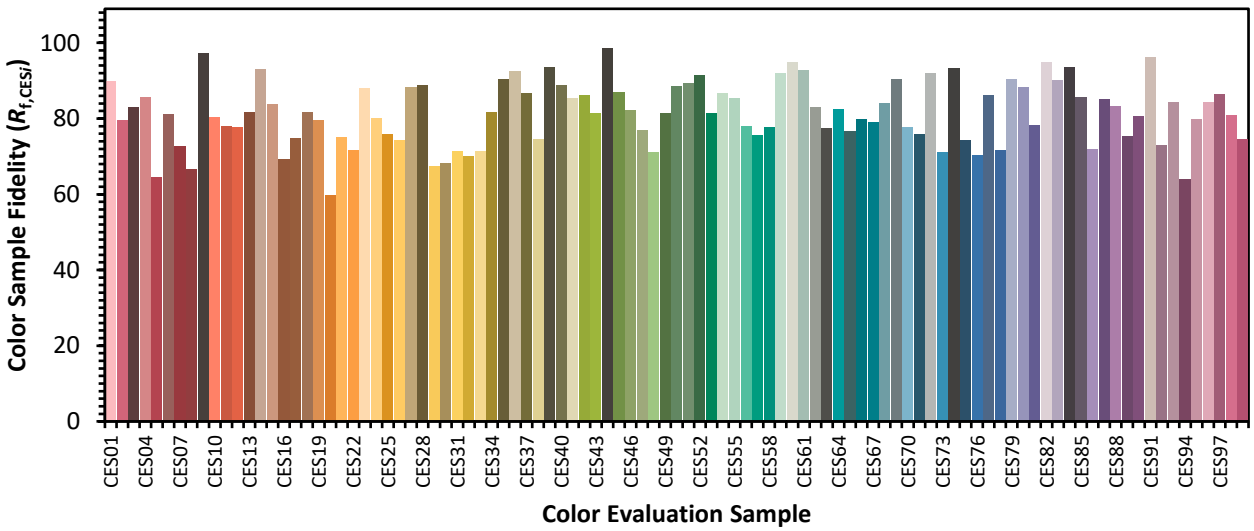
Individual Sample Fidelity Index ($R_{f,i}$)

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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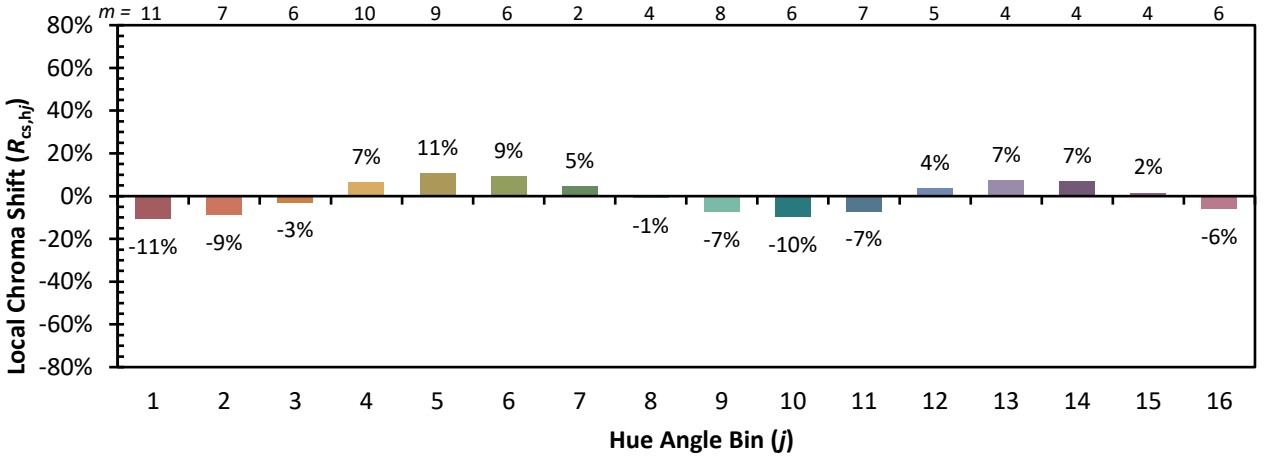
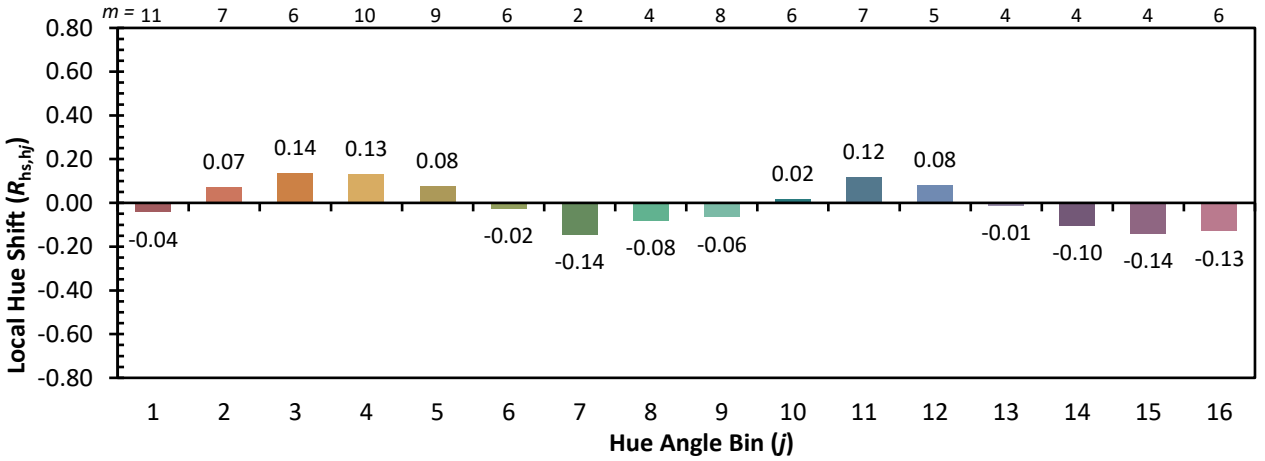
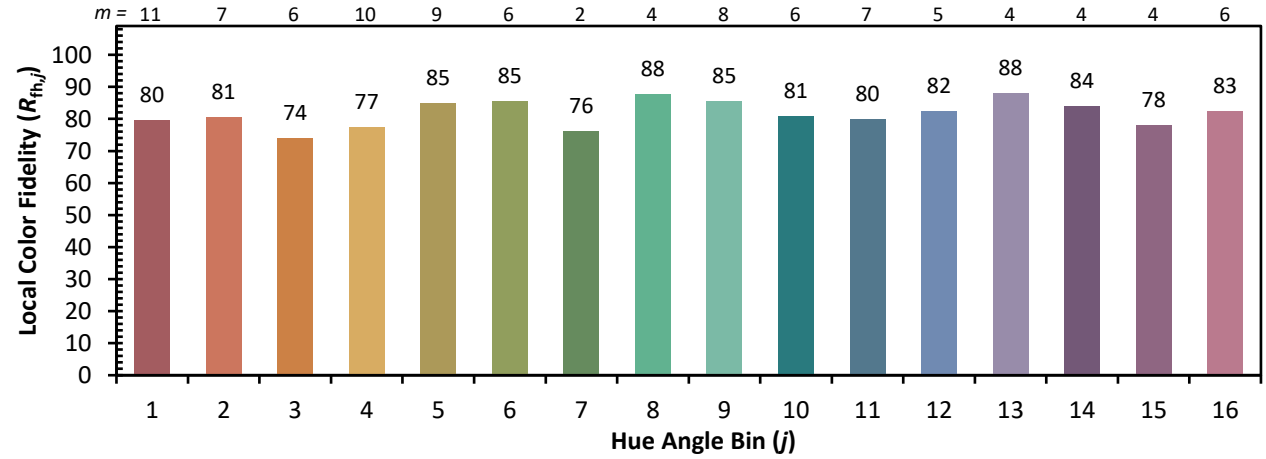
Color Rendition by Hue-Angle Bin







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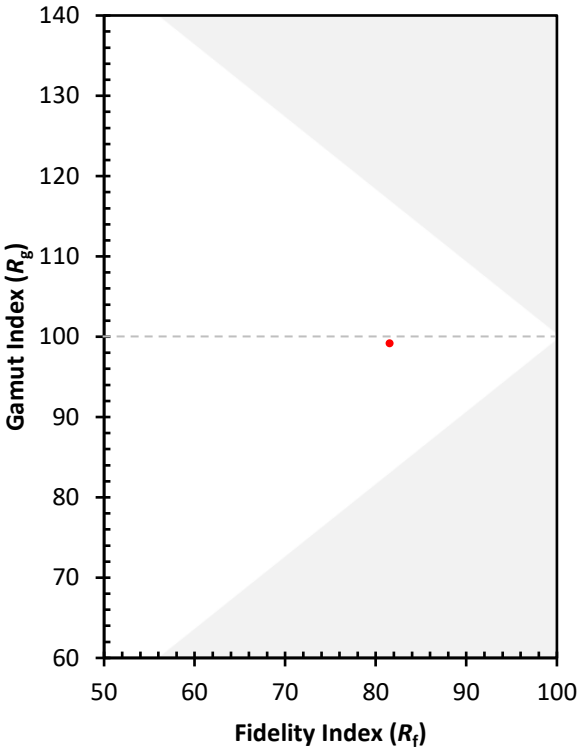
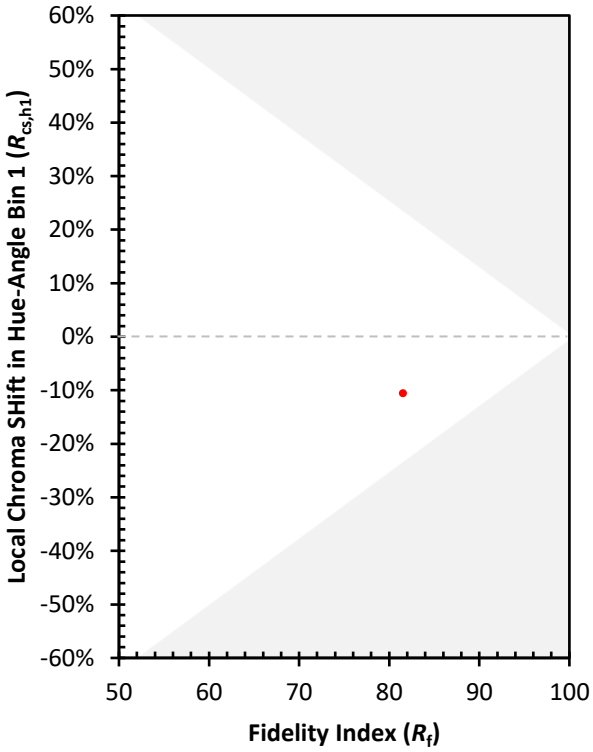
Measure Comparisons





(END OF REPORT)