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: P633042

Luminaire Tested: GWS-SA2D-830-U-T1-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:	P633042
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2D-830-U-T1-W
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	9258.4 lumens
Efficiency:	N/A
Efficacy:	112.8 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type I - Medium
BUG Rating:	B3 - U0 - G3

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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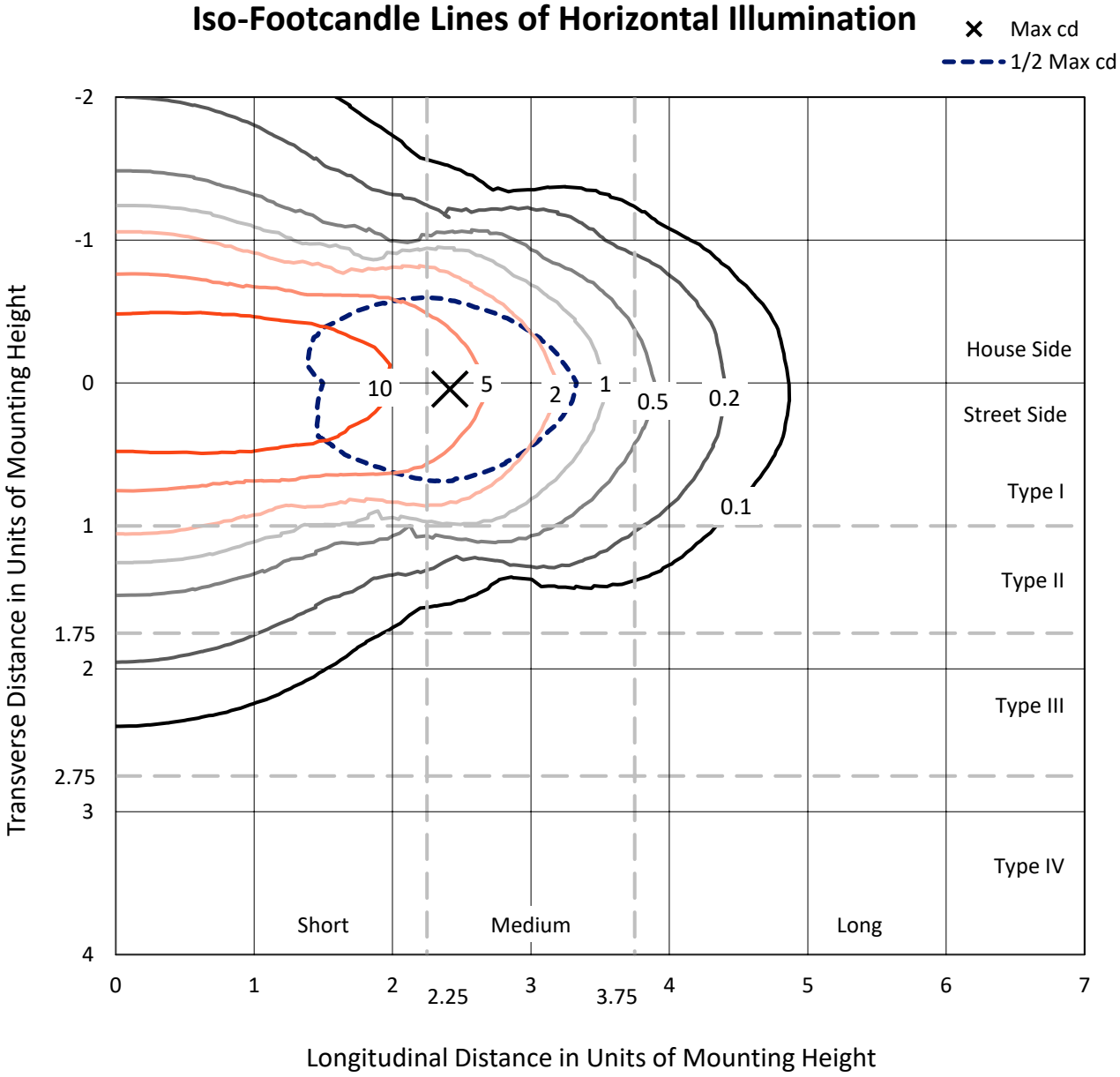
Scaled Data Report

REPORT NUMBER: P633042
CATALOG NUMBER: GWS-SA2D-830-U-T1-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 17 fc
Type I - Medium - N/A

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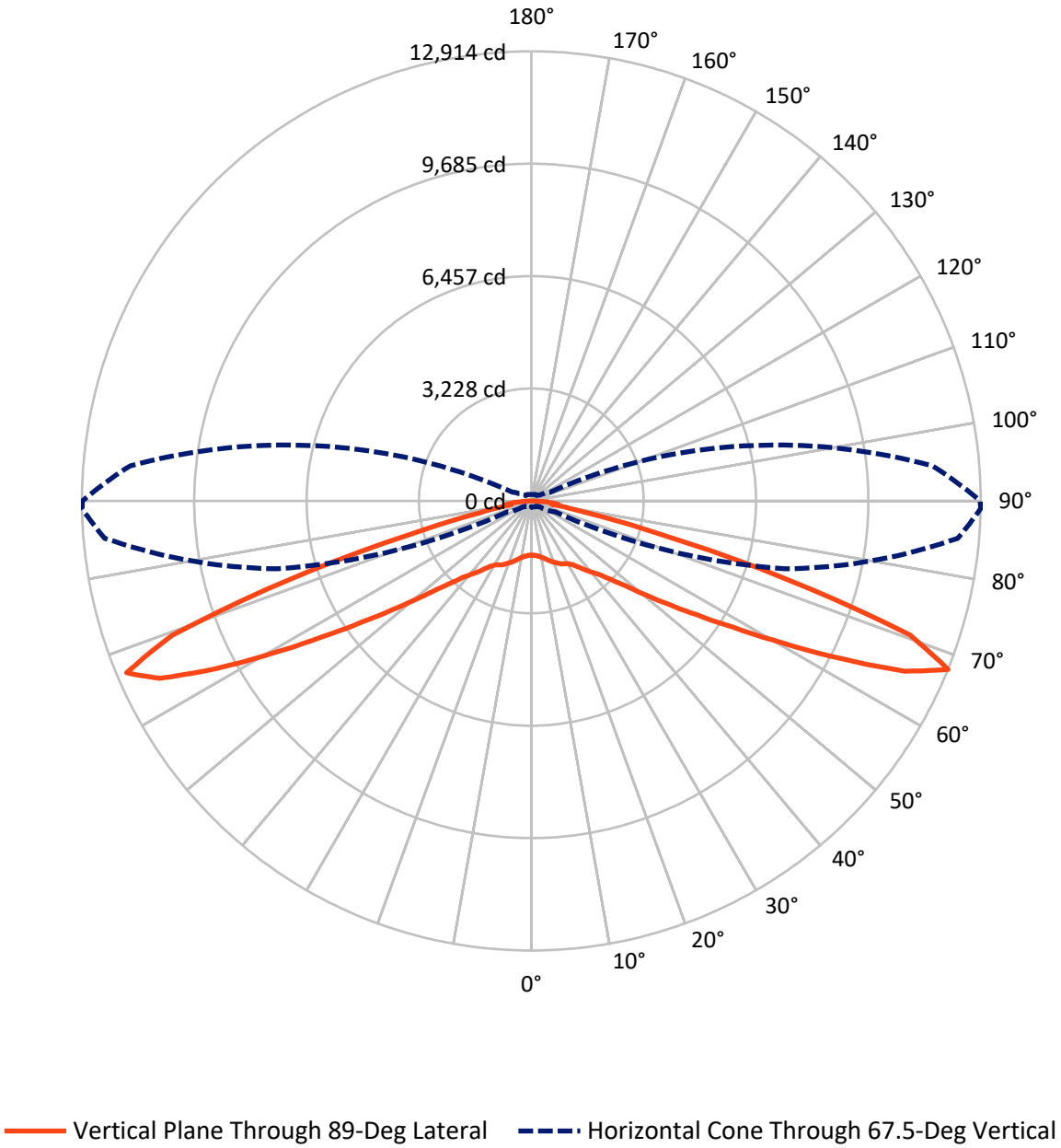
CATALOG NUMBER: GWS-SA2D-830-U-T1-W

Luminous Intensity Polar Plot



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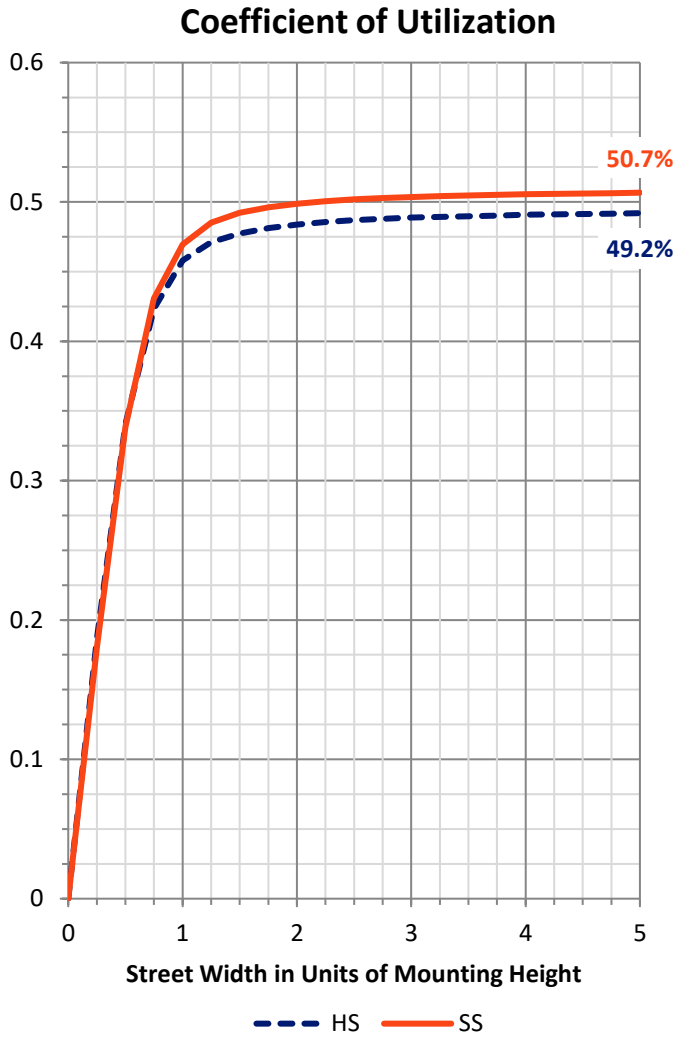
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4588.6	0.0	4588.6
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	4669.8	0.0	4669.8
	% Fixture	50.4	0.0	50.4
Total	Lumens	9258.4	0.0	9258.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.9	1.7
10°-20°	507.5	5.5
20°-30°	858.0	9.3
30°-40°	1177.5	12.7
40°-50°	1501.5	16.2
50°-60°	1883.9	20.3
60°-70°	2272.2	24.5
70°-80°	822.0	8.9
80°-90°	79.9	0.9
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°	9258.4	100.0
0°-180°	9258.4	100.0



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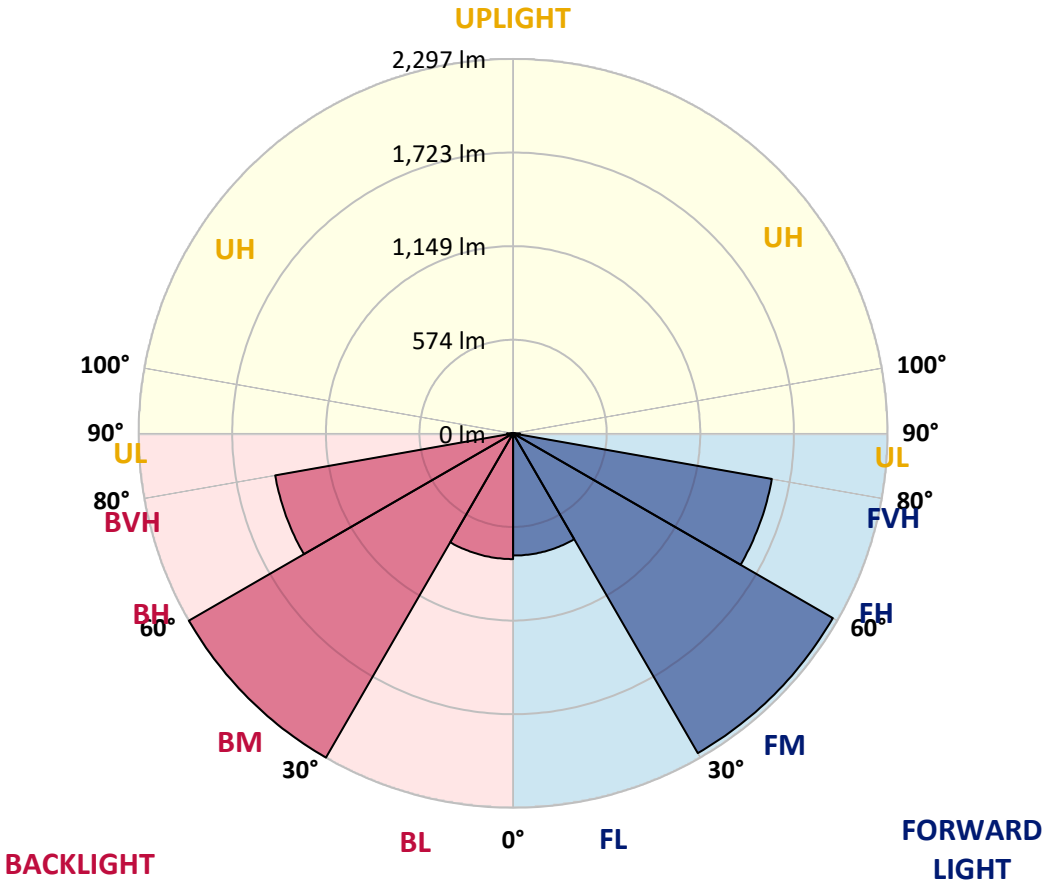
CATALOG NUMBER: GWS-SA2D-830-U-T1-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	749.9	8.1			
FM	(30°-60°)	2265.7	24.5			
FH	(60°-80°)	1612.0	17.4			G1/1800
FVH	(80°-90°)	42.2	0.5			G1/100
BL	(0°-30°)	771.5	8.3	B2/1000		
BM	(30°-60°)	2297.2	24.8	B2/2500		
BH	(60°-80°)	1482.1	16.0	B3/2500		G3/2500
BVH	(80°-90°)	37.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
Type I Medium



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REPORT NUMBER: P633042
CATALOG NUMBER: GWS-SA2D-830-U-T1-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9	*1553.9*
2.5°	1558.6	1557.3	1553.9	1563.9	1561.9	1562.6	1566.6	1563.9	1559.3	1551.3	*1562.6*
5°	1602.5	1601.8	1594.5	1600.5	1593.8	1589.2	1588.5	1581.9	1576.6	1567.9	*1579.9*
7.5°	1645.0	1644.4	1638.4	1649.0	1643.7	1638.4	1632.4	1619.1	1606.5	1593.8	*1607.1*
10°	1677.6	1677.0	1675.6	1690.9	1692.3	1694.2	1691.6	1669.0	1647.0	1631.7	*1645.0*
12.5°	1696.2	1698.2	1701.6	1729.5	1743.5	1756.8	1760.1	1741.5	1704.9	1682.9	*1698.9*
15°	1683.6	1687.6	1704.2	1754.8	1793.3	1823.2	1835.9	1820.6	1773.4	1736.8	*1754.8*
17.5°	1623.1	1626.4	1659.0	1736.1	1821.3	1890.4	1911.0	1901.7	1849.2	1804.6	*1821.9*
20°	1539.3	1546.6	1581.9	1689.6	1816.6	1936.9	1992.1	1988.8	1931.6	1863.1	*1883.8*
22.5°	1463.5	1472.2	1509.4	1628.4	1785.3	1948.9	2073.9	2082.6	2006.8	1921.7	*1938.3*
25°	1378.4	1386.4	1434.3	1555.9	1731.5	1939.6	2143.7	2183.0	2091.9	1988.8	*2004.1*
27.5°	1291.3	1297.3	1344.5	1474.2	1661.0	1922.3	2198.9	2293.4	2175.7	2035.4	*2046.0*
30°	1214.8	1222.8	1266.0	1392.4	1583.9	1887.7	2244.1	2411.0	2272.1	2087.9	*2096.5*
32.5°	1141.0	1147.7	1194.9	1311.9	1502.1	1834.5	2284.7	2549.4	2415.0	2185.6	*2185.6*
35°	1047.9	1059.9	1113.1	1234.8	1425.0	1764.1	2314.0	2710.3	2610.5	2329.9	*2330.6*
37.5°	962.2	968.8	1024.7	1147.7	1343.8	1684.3	2316.6	2877.2	2857.9	2513.4	*2514.8*
40°	864.4	873.1	932.9	1054.6	1250.7	1600.5	2291.4	3032.8	3117.2	2702.3	*2695.0*
42.5°	765.3	778.0	835.2	954.2	1150.3	1498.1	2224.2	3181.0	3446.3	2921.0	*2903.1*
45°	669.6	677.6	734.8	847.1	1035.3	1375.7	2116.5	3323.3	3837.3	3253.5	*3227.6*
47.5°	561.9	565.2	624.4	732.1	916.3	1239.4	1962.2	3450.3	4266.9	3693.7	*3649.2*
50°	466.1	470.8	517.3	609.7	770.7	1077.9	1770.1	3524.8	4814.1	4294.1	*4217.0*
52.5°	377.0	381.7	418.9	492.7	637.0	893.7	1532.0	3507.5	5369.3	5039.5	*4927.2*
55°	304.5	307.9	333.1	391.0	501.4	710.8	1250.7	3352.6	5985.7	6013.0	*5771.0*
57.5°	257.3	258.7	275.9	311.2	391.6	547.9	965.5	2986.9	6632.0	7255.1	*6857.5*
60°	230.1	230.7	238.7	260.7	309.2	418.2	707.5	2404.4	7301.6	8809.0	*8263.8*
62.5°	212.8	212.8	219.4	232.1	256.7	321.8	520.0	1726.8	7782.4	10500.0	*9958.0*
65°	196.2	196.2	200.8	211.4	224.7	262.6	390.3	1113.8	8018.4	11913.6	*11793.2*
67.5°	*174.9*	*175.5*	*178.9*	*190.2*	*202.1*	*219.4*	*295.9*	*753.4*	*7528.4*	*12304.6*	*12913.7*
70°	154.9	155.6	160.2	167.6	177.5	189.5	231.4	519.3	5479.7	10247.9	*11546.6*
72.5°	133.0	135.6	139.0	147.0	152.9	161.6	188.8	336.5	3188.4	6592.1	*7632.8*
75°	109.0	112.4	116.4	124.3	128.3	131.7	155.6	240.0	1534.0	3340.6	*3804.1*
77.5°	84.4	87.8	92.4	99.7	102.4	106.4	119.0	173.5	734.8	1480.8	*1596.5*
80°	56.5	57.8	61.8	70.5	75.1	77.8	87.8	118.4	319.2	594.4	*589.1*
82.5°	34.6	35.2	36.6	41.9	43.9	46.5	57.2	72.5	152.3	675.6	*774.6*
85°	12.6	12.0	11.3	14.6	17.3	19.9	26.6	36.6	66.5	464.1	*519.3*
87.5°	0.0	0.0	0.0	0.7	1.3	1.3	2.7	5.3	16.0	173.5	*119.0*
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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Scaled Data Report

REPORT NUMBER: P633042
CATALOG NUMBER: GWS-SA2D-830-U-T1-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9
2.5°	1559.3	1552.0	1561.3	1567.9	1582.5	1587.9	1589.2	1584.5	1584.5	1576.6	1577.9
5°	1577.2	1572.6	1587.9	1599.2	1620.4	1628.4	1633.7	1630.4	1632.4	1627.1	1628.4
7.5°	1604.5	1600.5	1627.1	1649.0	1671.0	1680.3	1684.9	1682.3	1682.9	1676.3	1678.3
10°	1642.4	1643.7	1675.6	1704.2	1733.5	1742.8	1744.8	1736.8	1730.2	1718.2	1718.9
12.5°	1694.2	1700.9	1746.1	1778.0	1808.0	1821.3	1806.6	1777.4	1750.1	1729.5	1726.8
15°	1750.8	1762.7	1827.9	1868.5	1901.0	1894.4	1851.2	1785.3	1731.5	1700.9	1694.9
17.5°	1818.6	1836.5	1918.3	1966.9	1994.8	1952.2	1861.8	1763.4	1688.3	1647.0	1639.1
20°	1882.4	1911.0	2014.1	2077.2	2080.6	1984.8	1857.2	1718.9	1624.4	1573.9	1563.3
22.5°	1940.9	1977.5	2114.5	2194.9	2151.7	1999.5	1828.6	1655.7	1547.3	1488.1	1478.8
25°	2004.8	2056.6	2231.5	2306.7	2222.9	1993.5	1768.7	1577.2	1454.2	1393.7	1387.0
27.5°	2048.7	2113.8	2349.2	2421.0	2281.4	1959.6	1691.6	1491.4	1369.1	1311.9	1302.6
30°	2099.2	2182.3	2478.9	2545.4	2317.3	1909.7	1609.1	1411.7	1290.0	1228.1	1221.5
32.5°	2191.0	2295.3	2639.8	2677.0	2328.6	1847.8	1530.0	1334.5	1207.5	1145.7	1136.4
35°	2338.6	2460.9	2865.9	2824.0	2320.0	1780.0	1454.9	1244.1	1123.1	1065.2	1055.9
37.5°	2524.7	2677.0	3117.9	2956.3	2296.0	1705.6	1365.8	1168.3	1047.3	988.8	983.4
40°	2698.3	2885.8	3400.5	3070.7	2247.5	1613.8	1280.0	1089.2	965.5	903.6	891.7
42.5°	2915.7	3165.1	3727.6	3169.7	2167.7	1504.1	1183.6	991.4	863.1	807.2	792.6
45°	3246.2	3556.1	4108.0	3264.8	2048.7	1369.1	1062.6	872.4	750.7	693.5	682.2
47.5°	3658.5	4044.8	4520.2	3321.3	1867.8	1226.8	925.6	746.7	625.0	560.5	555.2
50°	4237.6	4755.6	4962.4	3311.4	1665.7	1057.9	771.3	597.1	495.4	448.8	441.5
52.5°	4943.1	5647.9	5440.5	3191.7	1450.9	865.7	601.1	468.8	393.0	359.7	353.7
55°	5828.1	6716.5	5943.8	2935.0	1179.6	662.9	472.1	369.7	317.8	297.9	295.2
57.5°	6923.9	8100.2	6428.6	2502.8	887.0	506.0	363.7	305.2	280.6	268.6	268.0
60°	8370.2	9569.0	6849.5	1944.9	635.0	387.0	300.5	272.6	253.3	245.4	244.7
62.5°	10089.7	10902.9	7111.5	1324.5	477.4	308.5	264.6	247.4	236.1	231.4	230.7
65°	11857.1	11746.0	6986.4	867.7	362.4	262.0	237.4	228.1	218.1	213.4	213.4
67.5°	*12901.0*	*11567.8*	*6027.0*	*602.4*	*287.3*	*230.1*	*214.1*	*205.5*	*188.8*	*184.9*	*184.9*
70°	11426.9	9373.6	3950.4	440.9	232.7	201.5	186.2	174.2	167.6	163.6	162.9
72.5°	7557.6	6099.4	2100.5	305.9	194.2	171.6	157.6	152.9	145.0	141.0	140.3
75°	3761.5	3203.6	1076.5	220.8	161.6	137.6	131.7	129.7	123.0	117.7	116.4
77.5°	1567.9	1426.3	502.0	160.2	123.0	111.0	105.7	105.7	98.4	92.4	89.8
80°	591.1	526.6	237.4	109.7	91.1	82.5	79.1	76.5	70.5	63.2	59.2
82.5°	790.6	516.7	116.4	68.5	59.8	53.2	48.5	46.5	43.2	39.9	37.2
85°	512.0	367.0	52.5	35.2	29.9	22.6	19.9	18.6	16.6	14.6	13.3
87.5°	104.4	123.0	16.0	6.6	4.0	2.0	2.0	0.7	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

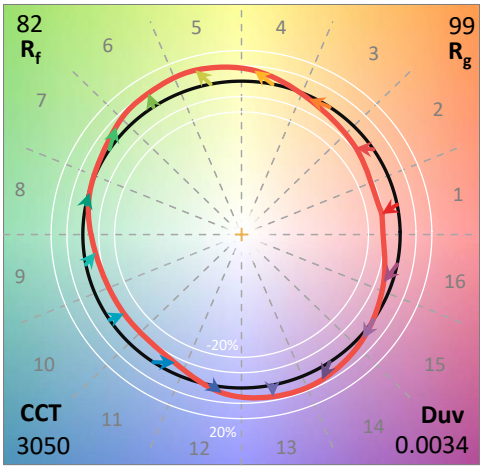
Test Information

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

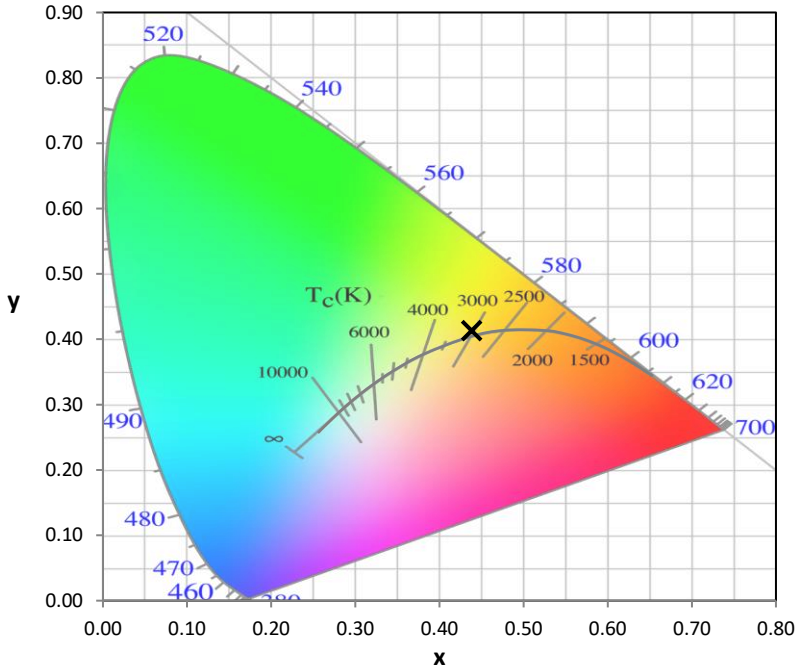
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

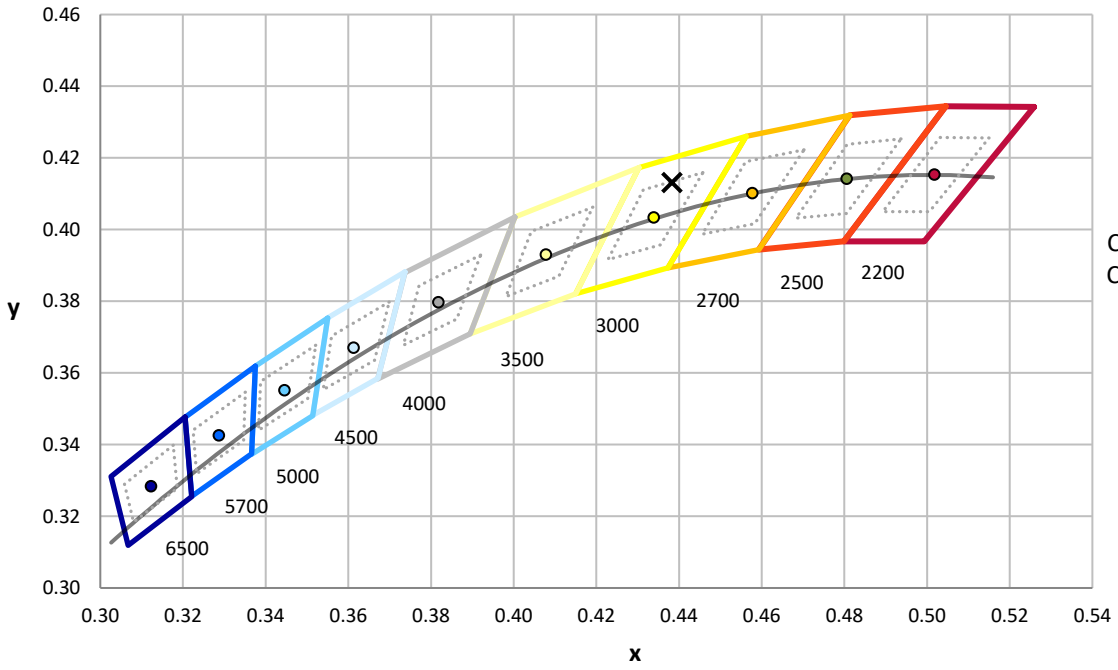
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

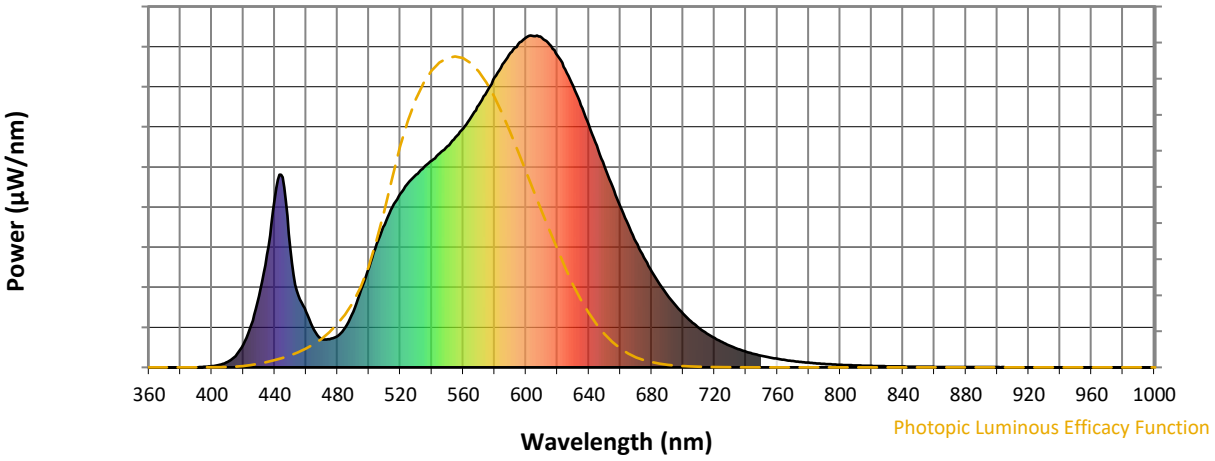


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

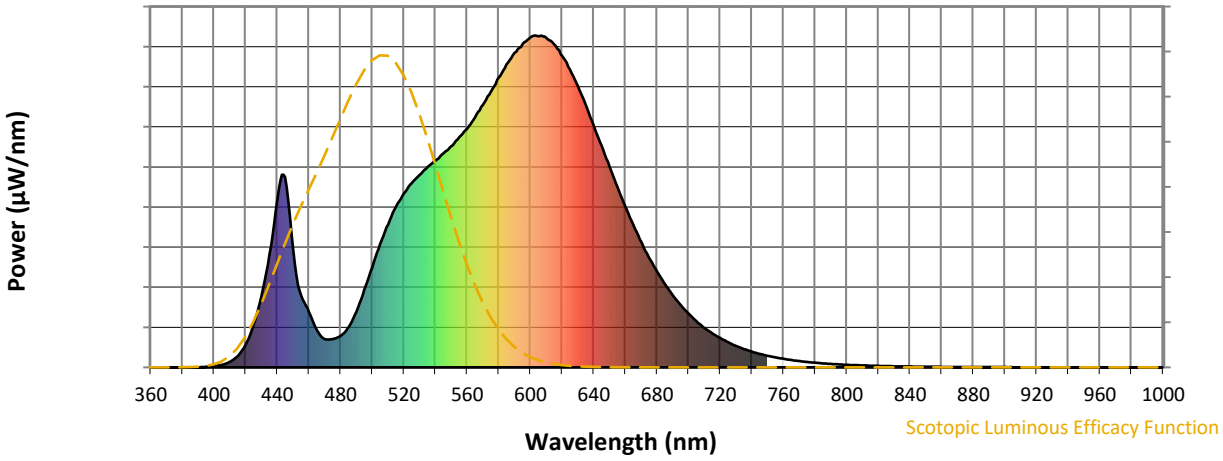


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength

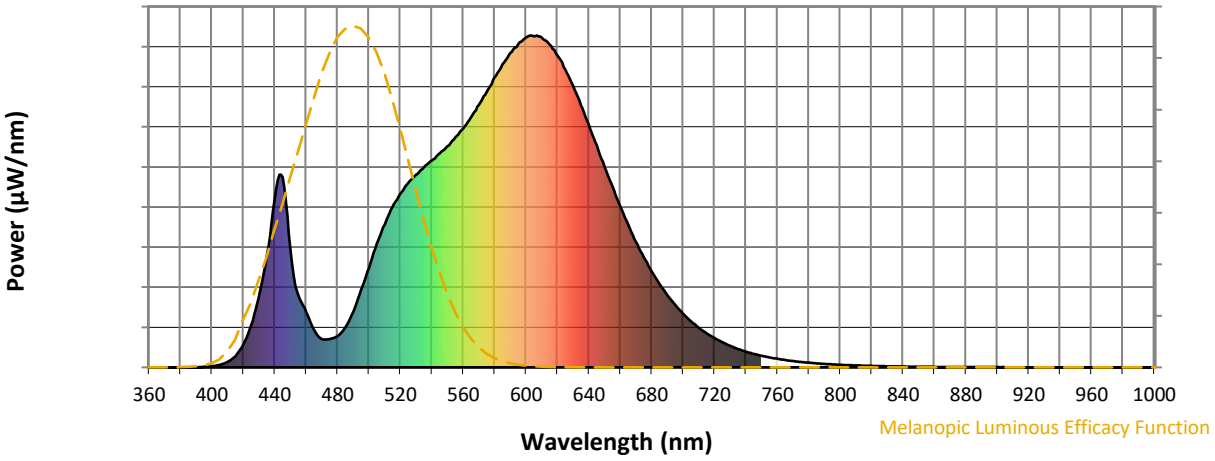


Scotopic Lumens: NR **S/P: 1.27**

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			

REPORT NUMBER: SP1-2408-195-9

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			

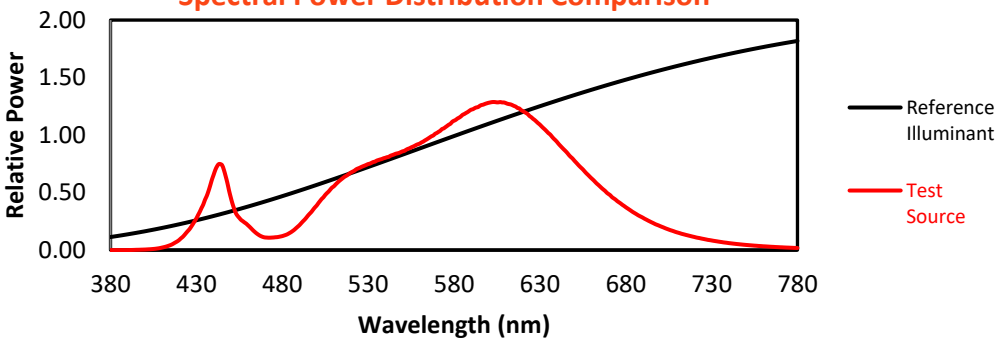
REPORT NUMBER: SP1-2408-195-9

TM-30-18

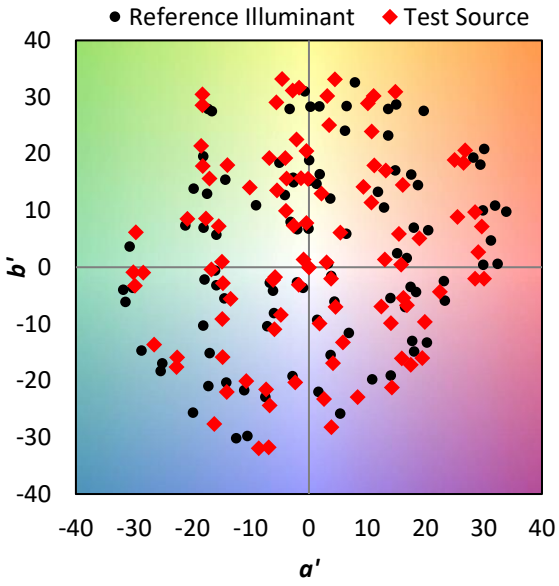
Summary

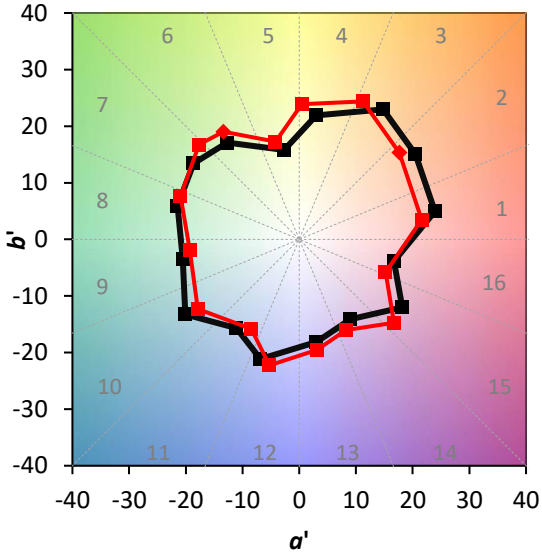
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

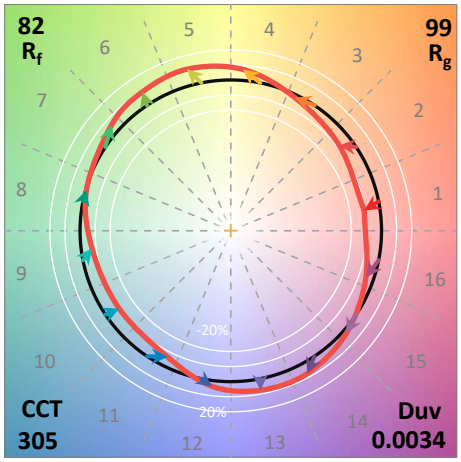
Spectral Power Distribution Comparison

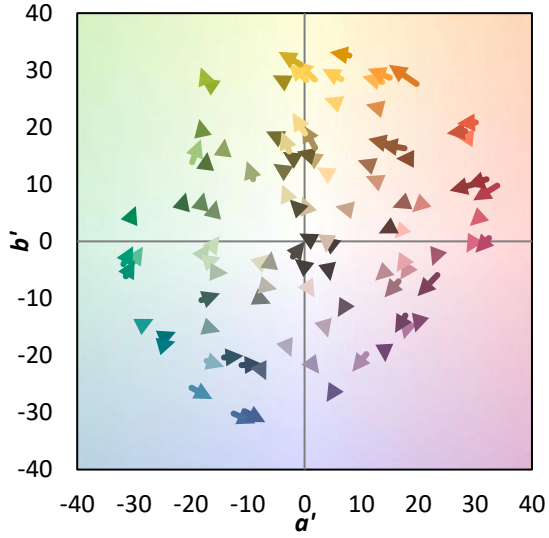


Color Vector Graphics







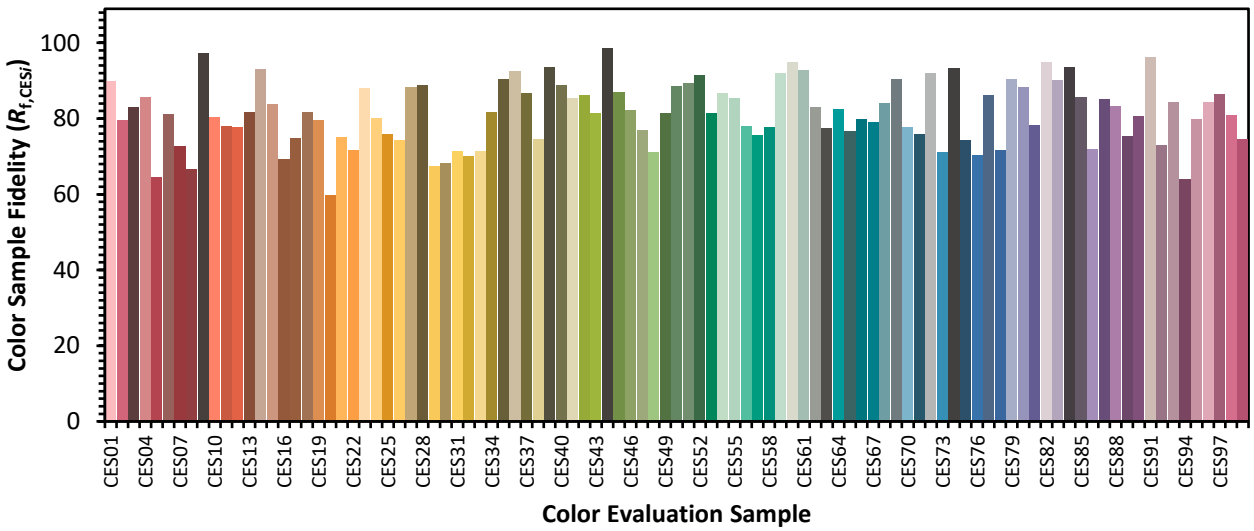


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

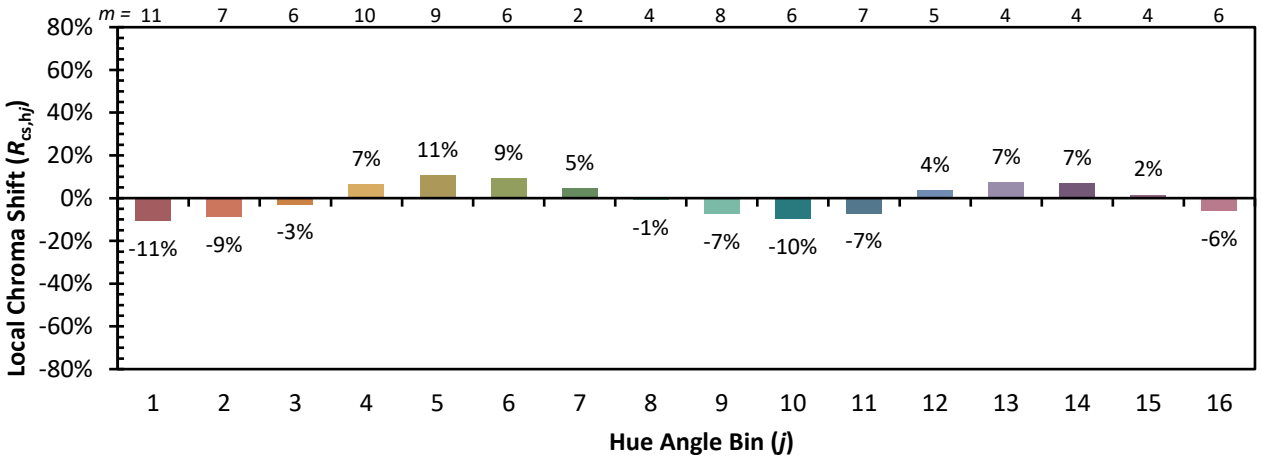
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 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	

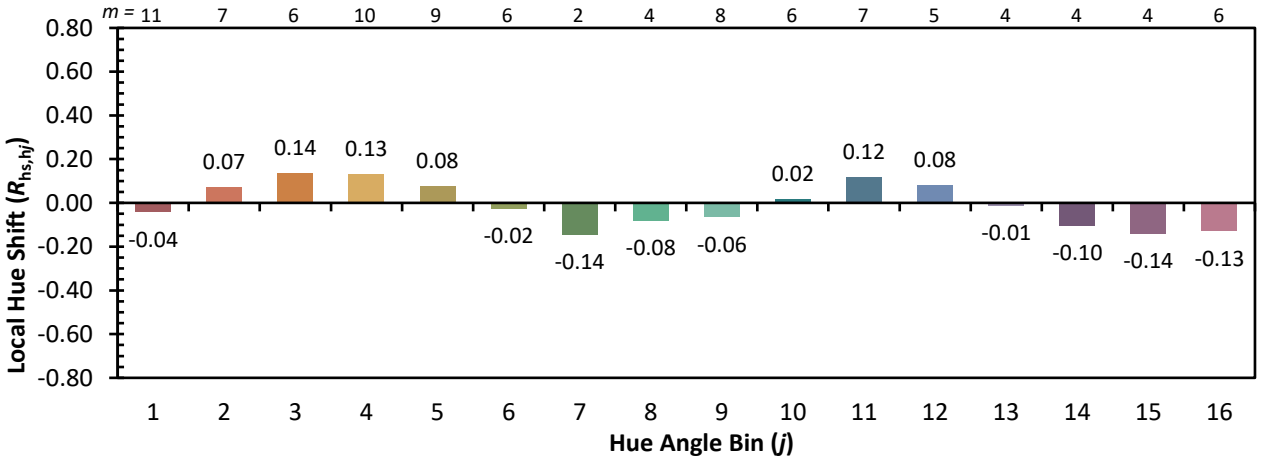


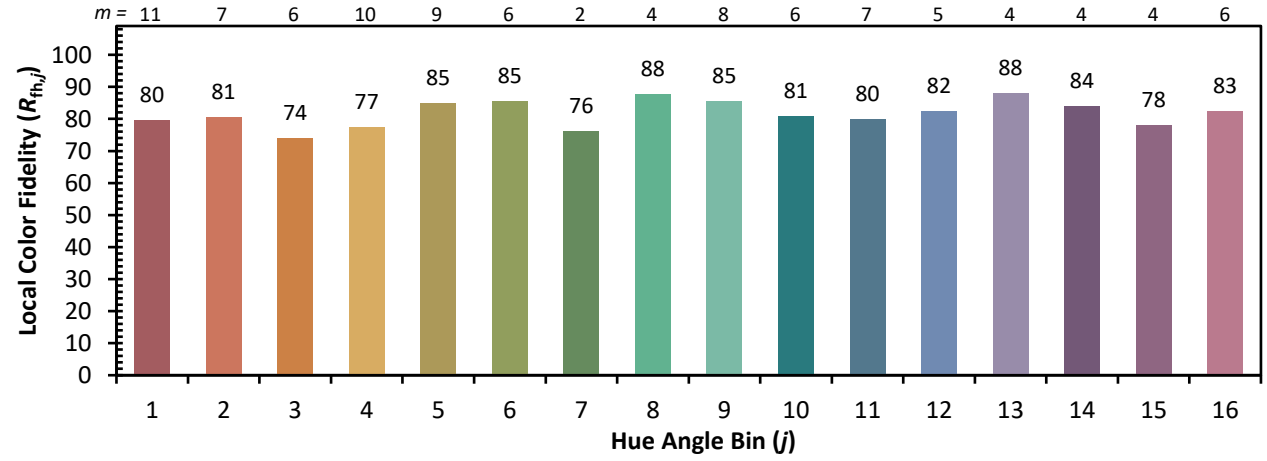
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



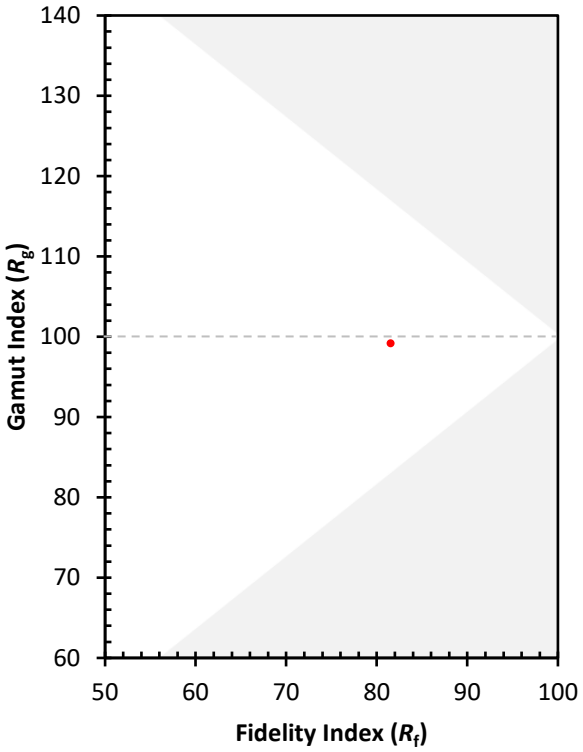


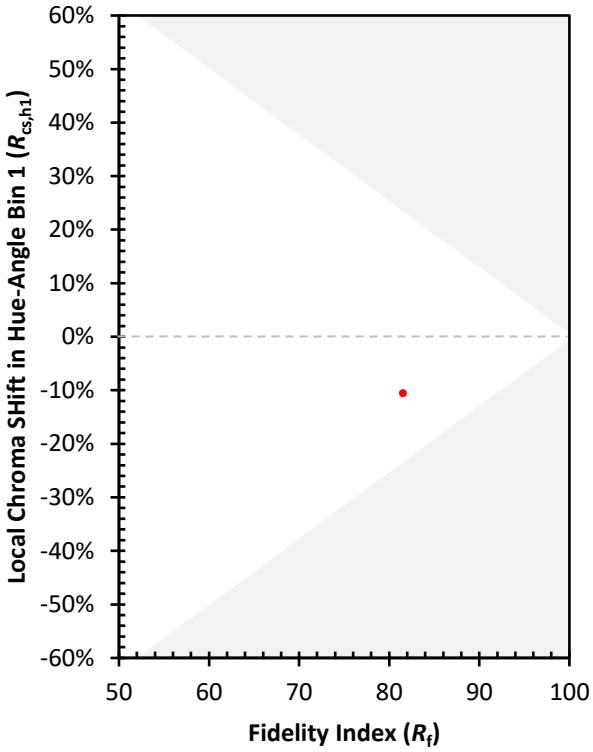


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





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