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: P633024

Luminaire Tested: GWS-SA2D-830-U-SL2-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:	P633024
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2D-830-U-SL2-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5446.4 lumens
Efficiency:	N/A
Efficacy:	66.3 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G0

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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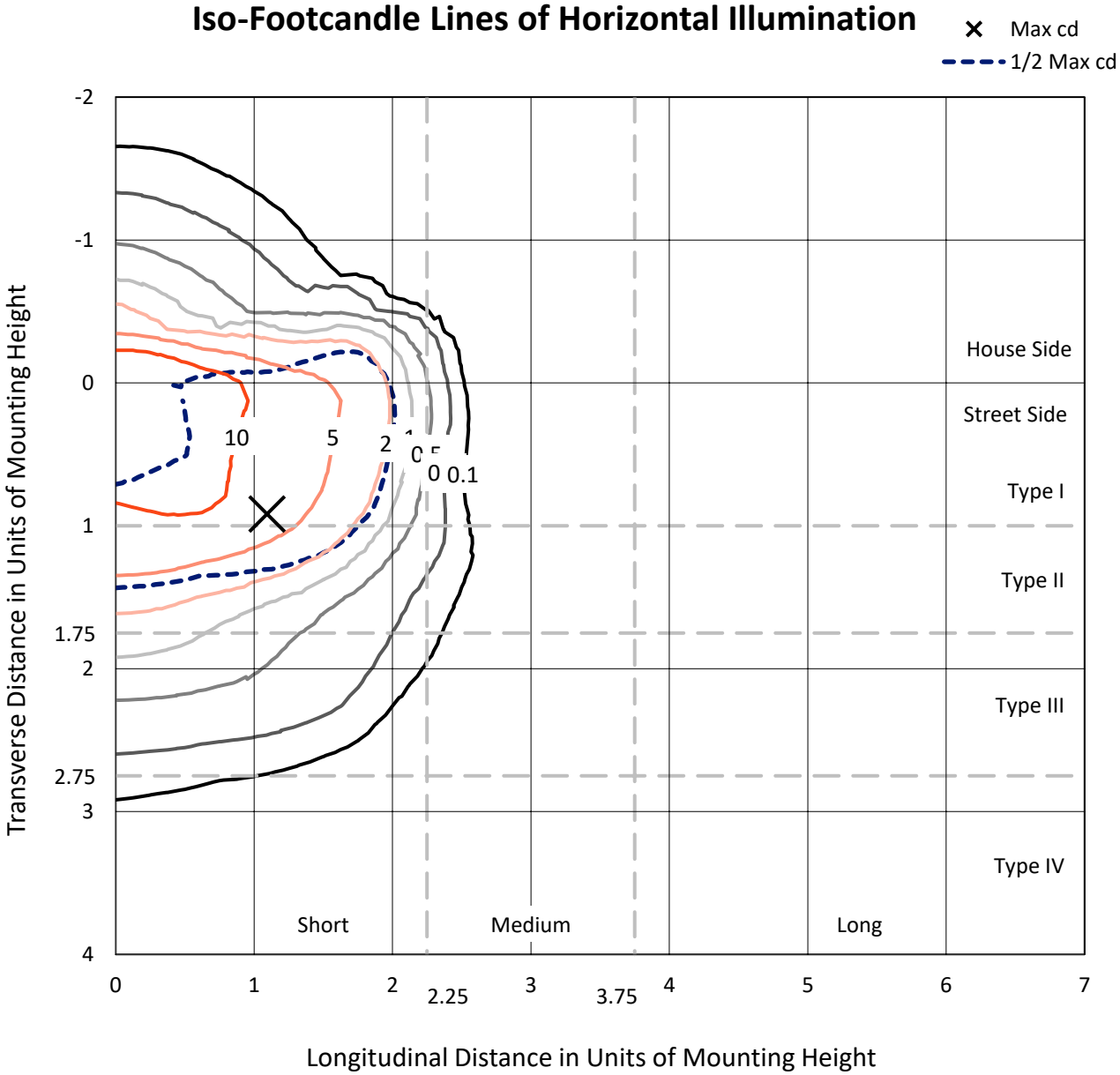
REPORT NUMBER: P633024
CATALOG NUMBER: GWS-SA2D-830-U-SL2-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 19.1 fc
Type II - Short - N/A

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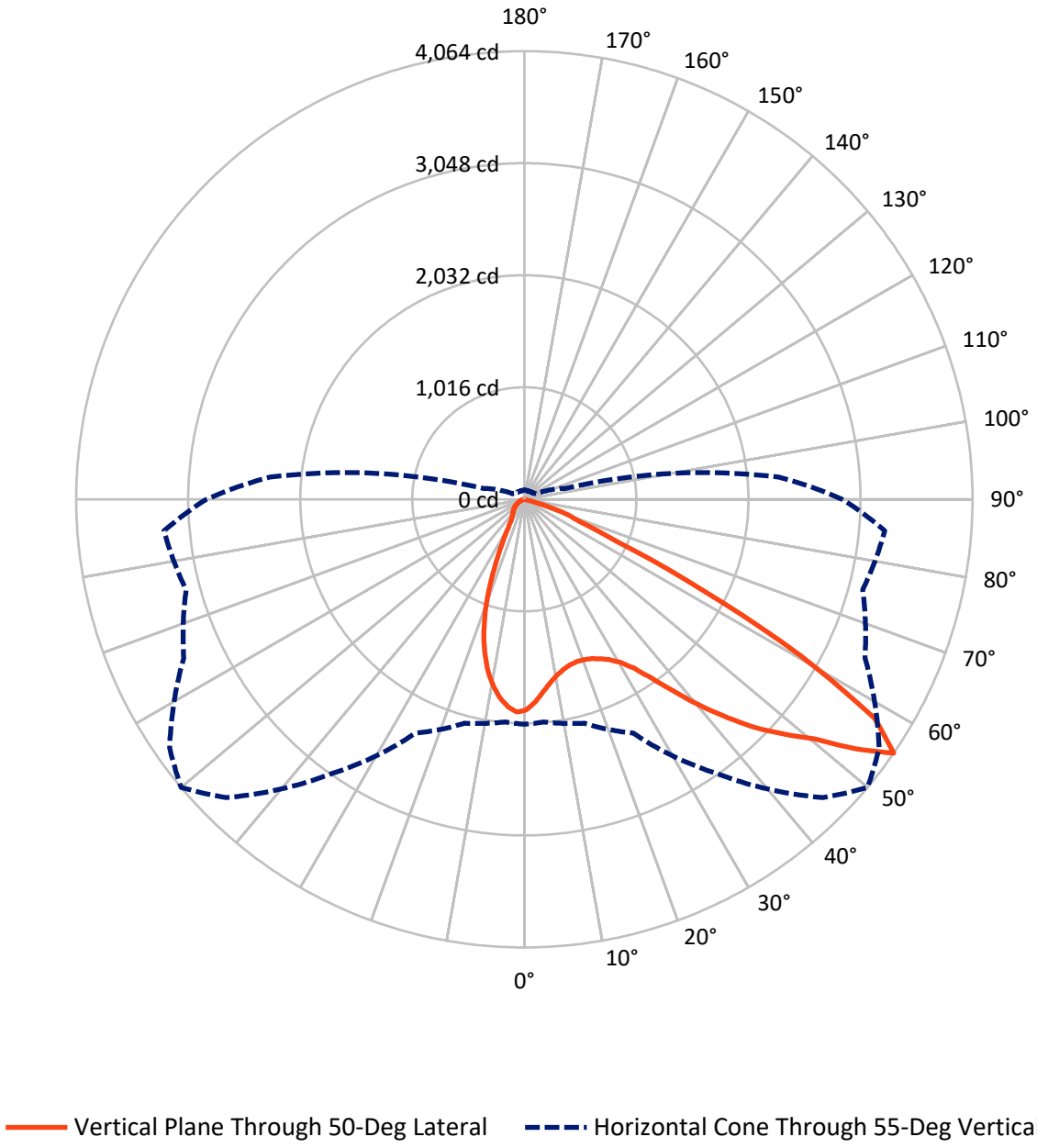
Luminous Intensity Polar Plot



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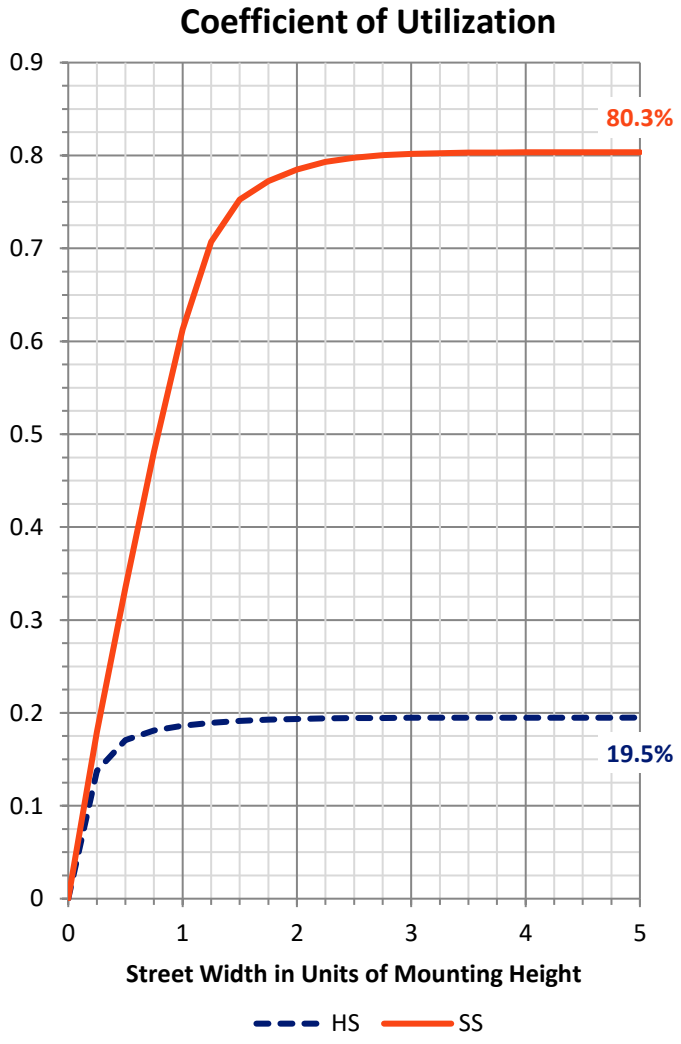
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1073.2	0.0	1073.2
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	4373.2	0.0	4373.2
	% Fixture	80.3	0.0	80.3
Total	Lumens	5446.4	0.0	5446.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.8	3.1
10°-20°	413.0	7.6
20°-30°	582.5	10.7
30°-40°	862.0	15.8
40°-50°	1243.6	22.8
50°-60°	1466.9	26.9
60°-70°	654.4	12.0
70°-80°	56.3	1.0
80°-90°	0.0	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°	5446.4	100.0
0°-180°	5446.4	100.0



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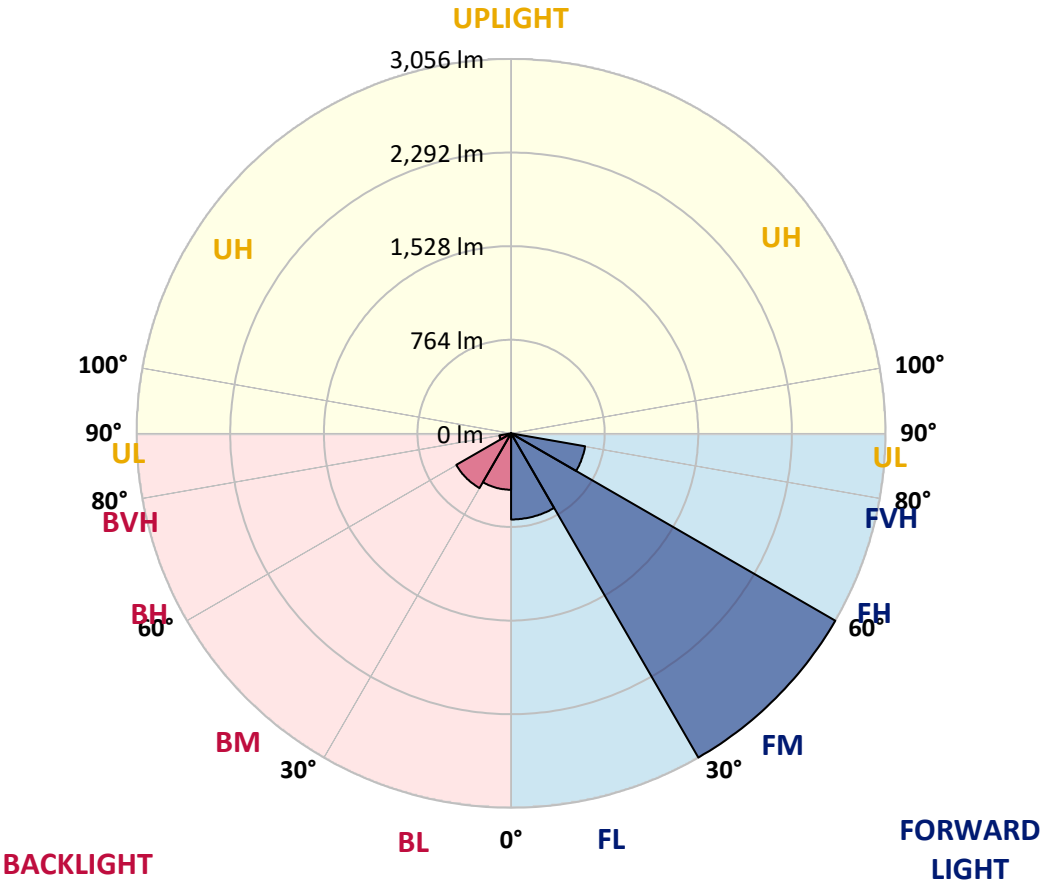
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	703.1	12.9			
FM	(30°-60°)	3056.3	56.1			
FH	(60°-80°)	613.7	11.3			G0/660
FVH	(80°-90°)	0.0	0.0			G0/10
BL	(0°-30°)	460.1	8.4	B1/500		
BM	(30°-60°)	516.1	9.5	B1/1000		
BH	(60°-80°)	96.9	1.8	B0/110		G0/110
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-G0
Type II Short



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REPORT NUMBER: P633024
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	*1910.9*	1910.9	1910.9	1910.9	1910.9
2.5°	1775.3	1776.6	1777.3	1795.2	1801.9	1828.5	*1842.4*	1849.7	1869.0	1891.6	1910.2
5°	1656.2	1654.3	1657.6	1680.2	1694.8	1734.0	*1755.3*	1769.9	1812.5	1865.7	1910.2
7.5°	1552.5	1556.5	1560.5	1585.1	1607.0	1649.6	*1680.2*	1702.1	1761.3	1840.4	1915.6
10°	1479.4	1479.4	1485.4	1513.3	1539.2	1591.8	*1622.3*	1650.3	1720.7	1817.8	1921.5
12.5°	1425.5	1426.2	1433.5	1465.4	1495.3	1549.9	*1581.8*	1609.0	1686.8	1795.2	1922.9
15°	1400.3	1398.3	1404.3	1438.2	1471.4	1522.6	*1555.8*	1582.4	1662.9	1782.6	1929.5
17.5°	1393.6	1392.3	1396.9	1430.2	1464.1	1514.0	*1546.5*	1573.1	1659.6	1786.6	1949.5
20°	1412.9	1410.2	1408.2	1436.8	1468.7	1517.9	*1551.9*	1581.8	1675.5	1808.5	1980.0
22.5°	1458.8	1458.8	1454.1	1468.1	1489.4	1533.9	*1569.1*	1608.4	1717.4	1852.4	2025.3
25°	1543.2	1536.6	1527.9	1533.9	1531.2	1559.2	*1601.1*	1655.6	1796.5	1924.9	2080.4
27.5°	1639.6	1645.6	1631.0	1631.6	1608.4	1598.4	*1646.9*	1729.4	1914.2	2027.3	2162.2
30°	1770.6	1766.0	1766.6	1764.6	1710.8	1663.6	*1716.1*	1825.8	2062.5	2183.5	2268.6
32.5°	1873.0	1879.7	1901.6	1914.2	1843.7	1767.9	*1823.8*	1956.8	2231.4	2361.7	2398.9
35°	1981.4	1993.3	2037.9	2079.1	2019.9	1932.8	*1992.7*	2130.3	2390.3	2537.9	2548.5
37.5°	2095.7	2119.7	2172.9	2245.3	2236.0	2158.9	*2213.4*	2334.4	2515.3	2644.3	2672.2
40°	2226.7	2250.0	2337.1	2441.5	2463.4	2446.1	*2464.1*	2534.6	2597.7	2648.9	2725.4
42.5°	2370.3	2402.3	2512.6	2652.3	2734.7	2750.0	*2708.1*	2700.8	2633.6	2595.7	2714.1
45°	2539.9	2577.1	2702.1	2883.0	3014.0	3034.6	*2962.1*	2868.3	2656.2	2556.5	2680.2
47.5°	2730.0	2765.3	2889.6	3107.0	3301.9	3309.8	*3183.5*	3032.6	2723.4	2601.7	2706.1
50°	2793.9	2815.8	2923.5	3178.8	3537.9	3599.1	*3416.2*	3217.4	2858.4	2734.7	2832.4
52.5°	2574.5	2583.1	2676.9	2934.8	3490.0	3883.0	*3756.0*	3493.3	3098.4	2937.5	3027.3
55°	*2039.9*	*2025.9*	*2101.7*	*2338.4*	*3033.2*	*3825.1*	*4063.8*	*3926.9*	*3407.6*	*3175.5*	*3280.6*
57.5°	1426.9	1410.2	1392.9	1553.2	2263.3	3242.7	*3744.7*	3987.4	3702.1	3411.6	3553.8
60°	1172.9	1156.9	1073.1	999.3	1368.3	2328.5	*2876.3*	3333.1	3678.2	3399.6	3545.2
62.5°	1013.3	1004.0	970.1	869.7	805.2	1329.1	*1801.2*	2238.7	2822.5	2669.5	2677.5
65°	795.9	793.2	816.5	827.1	712.1	735.4	*918.9*	1163.6	1525.9	1438.8	1364.4
67.5°	543.9	537.9	581.8	715.4	684.8	580.5	*537.9*	542.6	660.2	403.6	320.5
70°	345.7	331.8	332.4	443.5	557.2	458.1	*414.9*	365.0	328.5	59.8	67.8
72.5°	221.4	212.8	182.8	200.1	258.0	223.4	*225.4*	194.1	129.7	31.9	37.2
75°	93.1	85.8	65.8	52.5	51.9	32.6	*28.6*	26.6	18.0	18.0	19.3
77.5°	0.7	0.0	0.0	0.7	1.3	0.7	*0.7*	1.3	2.7	4.0	4.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.7
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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CATALOG NUMBER: GWS-SA2D-830-U-SL2-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9
2.5°	1921.5	1905.6	1923.5	1930.2	1929.5	1930.2	1910.9	1897.6	1896.9	1880.3	1872.3
5°	1928.9	1916.2	1929.5	1920.9	1900.3	1874.3	1839.8	1809.8	1796.5	1777.3	1767.9
7.5°	1942.8	1929.5	1927.5	1892.9	1841.8	1787.2	1726.1	1671.5	1642.3	1607.0	1609.0
10°	1952.8	1937.5	1911.6	1841.1	1756.0	1668.9	1577.8	1496.7	1445.5	1398.3	1390.3
12.5°	1956.8	1934.2	1873.7	1767.3	1647.6	1533.9	1400.3	1284.6	1204.8	1142.9	1134.3
15°	1964.1	1927.5	1825.1	1678.2	1514.0	1353.1	1182.8	1024.6	918.9	847.7	853.7
17.5°	1975.4	1920.2	1770.6	1578.5	1370.3	1142.9	912.9	731.4	634.3	593.1	593.7
20°	1991.4	1911.6	1710.8	1468.7	1198.1	905.6	638.3	501.3	474.1	472.7	470.7
22.5°	2012.6	1902.9	1646.9	1348.4	994.0	634.3	424.9	382.3	393.6	415.6	419.5
25°	2037.9	1892.3	1575.8	1212.8	771.3	416.2	318.5	311.8	339.1	368.4	375.0
27.5°	2077.1	1887.0	1494.7	1058.5	541.2	298.5	260.6	264.6	289.2	313.8	319.8
30°	2143.6	1896.9	1406.2	885.6	347.7	238.0	226.1	232.0	245.3	258.0	263.3
32.5°	2234.0	1926.2	1320.5	696.8	248.0	206.8	204.1	207.4	212.8	220.1	222.1
35°	2339.8	1976.7	1232.0	498.7	204.8	188.8	186.2	186.2	188.8	190.2	190.8
37.5°	2426.9	2029.9	1148.9	331.8	183.5	174.9	170.9	168.9	168.2	169.5	170.2
40°	2464.8	2051.9	1058.5	241.4	168.2	162.2	156.2	150.3	150.3	154.9	155.6
42.5°	2438.2	2027.3	954.1	199.5	157.6	148.9	139.6	134.3	137.0	141.6	143.0
45°	2381.6	1966.8	839.1	176.2	146.9	135.6	125.0	121.7	124.3	130.3	131.6
47.5°	2372.3	1926.9	701.5	160.9	135.6	124.3	113.0	109.7	113.0	117.7	119.0
50°	2464.8	1961.4	548.5	147.6	125.0	112.4	103.1	99.7	101.7	104.4	105.7
52.5°	2633.6	2089.8	442.8	135.0	112.4	100.4	94.4	90.4	90.4	93.1	93.7
55°	*2883.0*	*2313.8*	*382.3*	*120.3*	*97.7*	*91.1*	*85.8*	*81.8*	*81.8*	*83.1*	*83.8*
57.5°	3170.2	2585.1	396.3	101.1	85.8	82.4	77.8	74.5	75.8	75.8	75.8
60°	3130.3	2565.2	424.2	85.1	75.8	74.5	70.5	69.1	72.5	69.8	68.5
62.5°	2305.8	1771.9	222.1	69.8	65.2	63.8	61.2	63.8	68.5	61.2	58.5
65°	1119.7	857.7	89.1	57.2	55.2	53.9	52.5	56.5	59.2	47.9	45.2
67.5°	263.3	214.1	57.8	48.5	45.9	43.2	44.5	45.2	43.2	32.6	31.2
70°	68.5	67.2	45.2	40.6	36.6	33.9	33.9	33.2	28.6	20.6	19.3
72.5°	37.2	36.6	32.6	30.6	25.3	22.6	23.3	20.6	16.0	12.0	11.3
75°	18.6	19.9	18.6	17.3	14.0	12.6	12.6	11.3	8.0	4.7	4.7
77.5°	4.0	4.7	4.7	4.0	3.3	2.7	2.7	3.3	1.3	0.0	0.0
80°	0.7	0.7	0.7	0.7	0.7	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

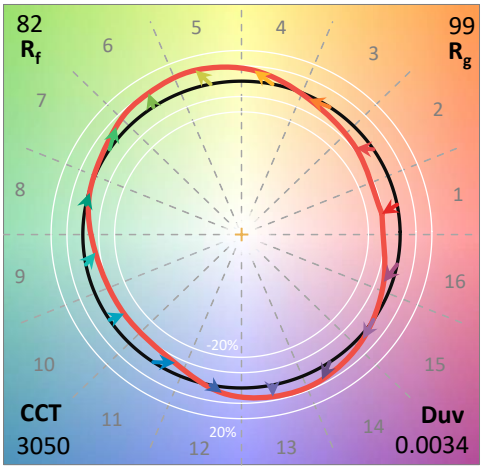
Test Information

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

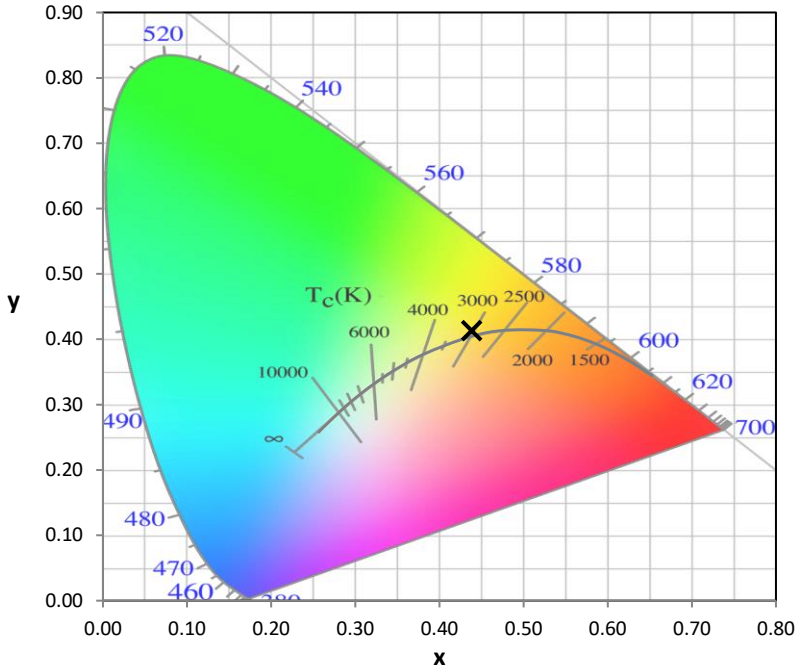
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

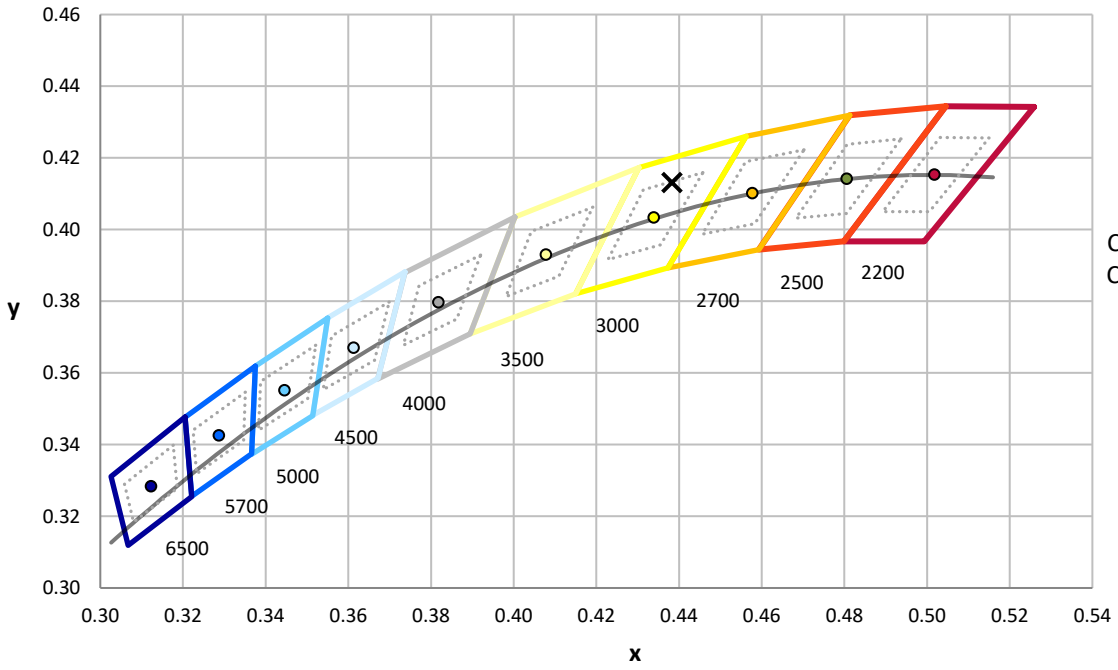
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

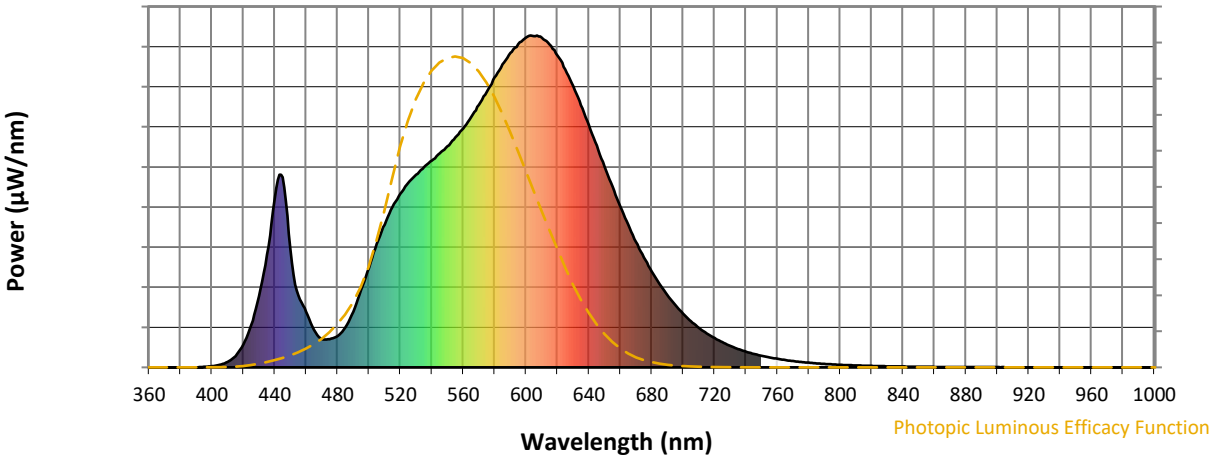


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

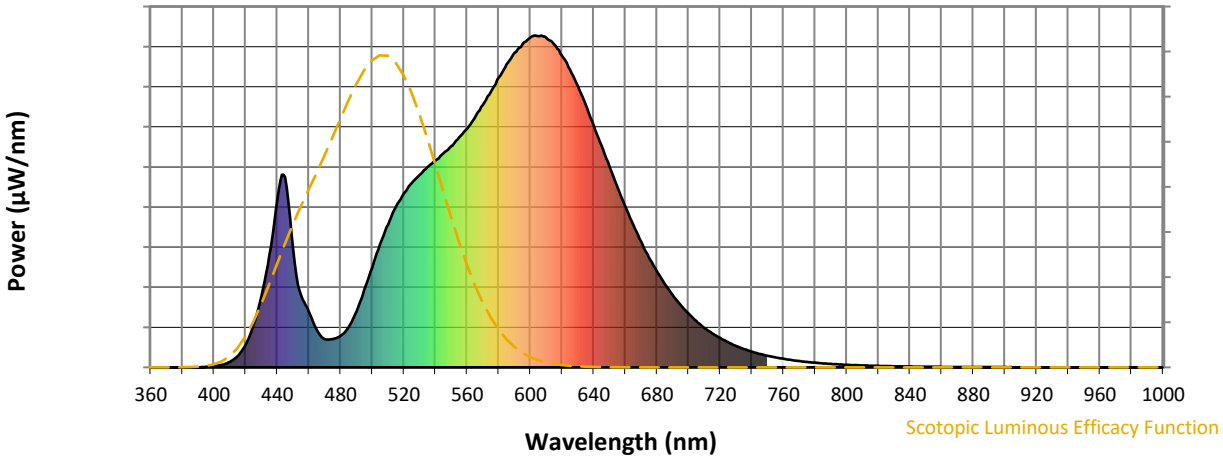


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength

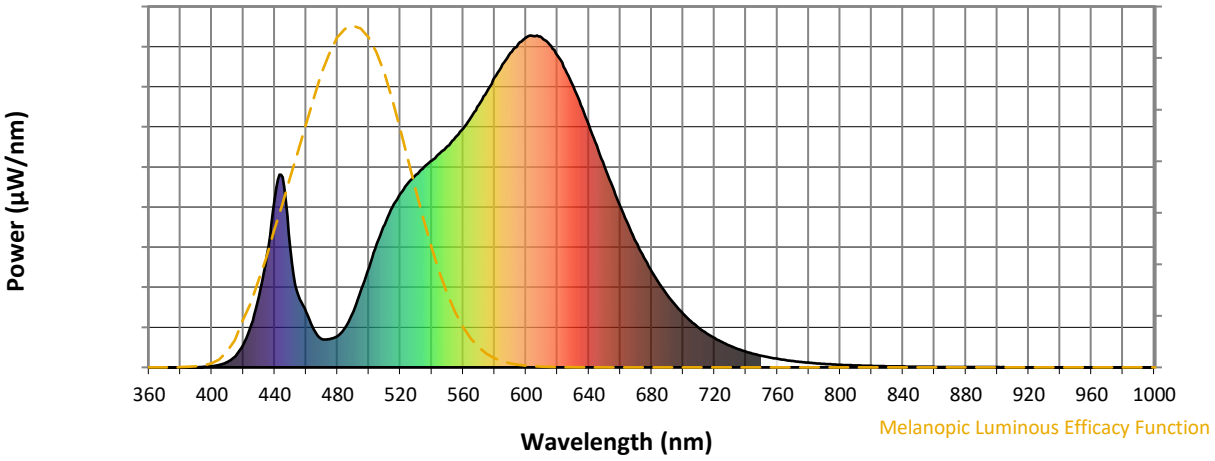


Scotopic Lumens: NR **S/P: 1.27**

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			

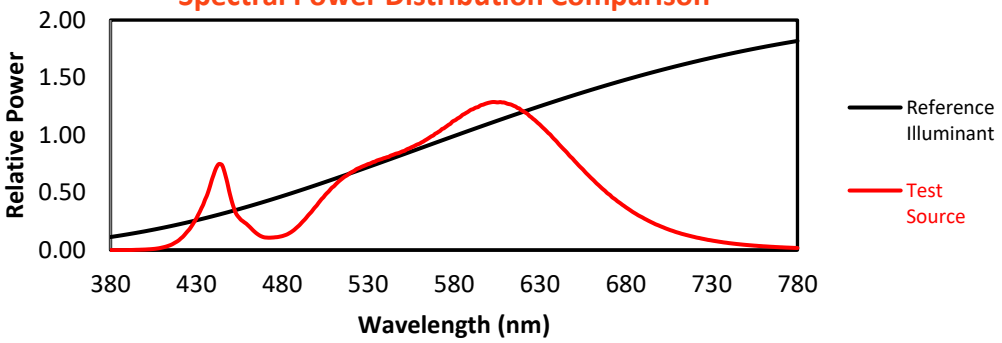
REPORT NUMBER: SP1-2408-195-9

TM-30-18

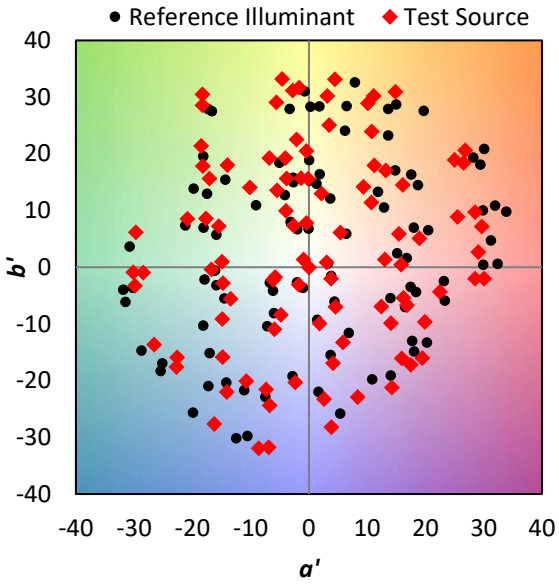
Summary

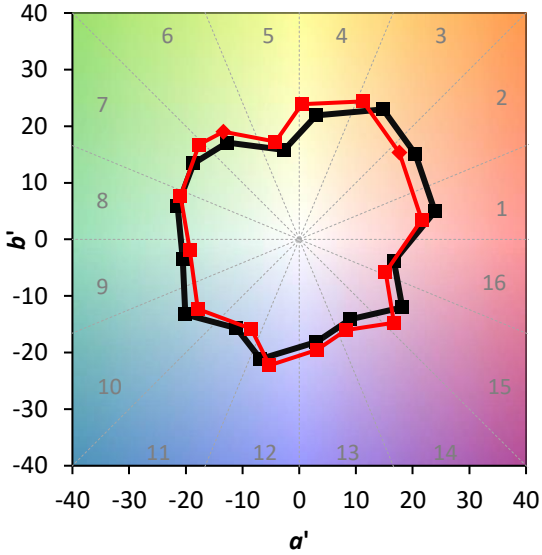
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

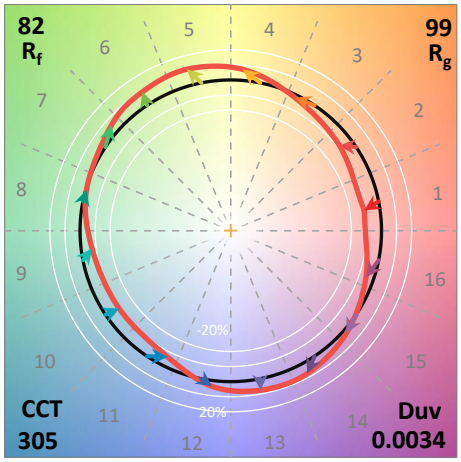
Spectral Power Distribution Comparison

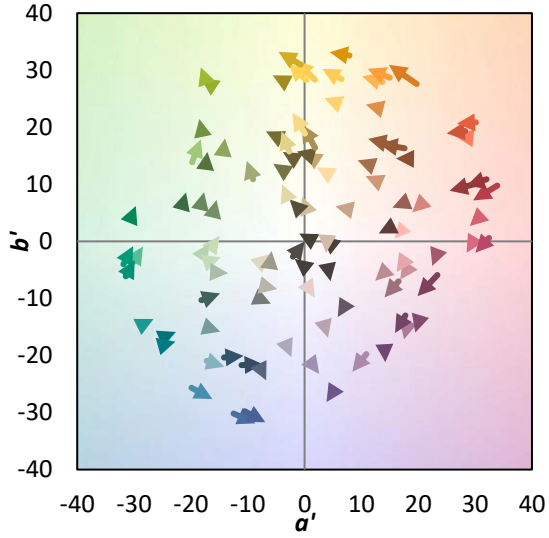


Color Vector Graphics







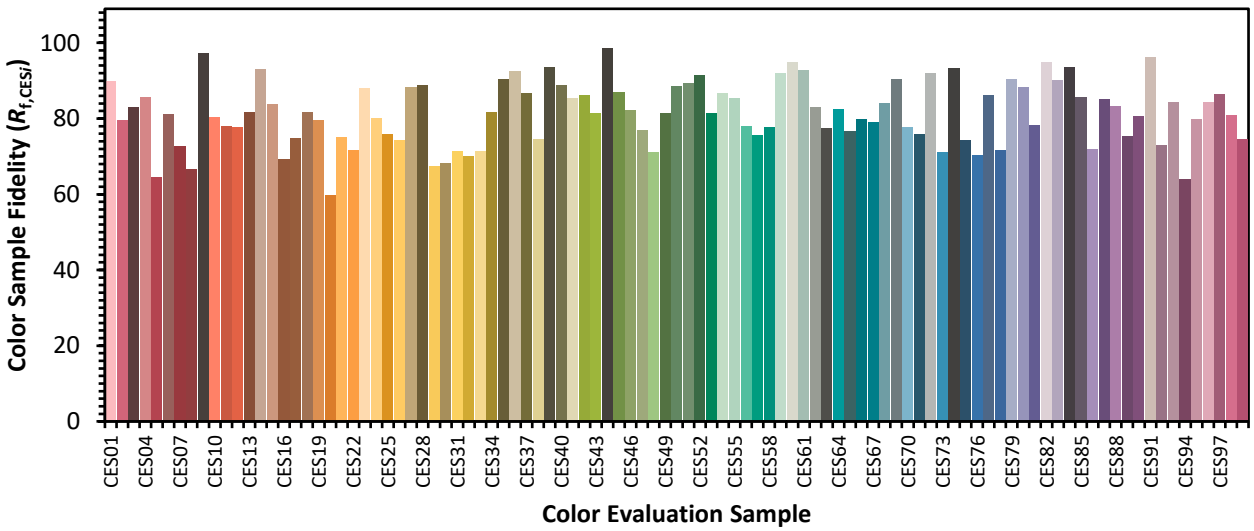


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

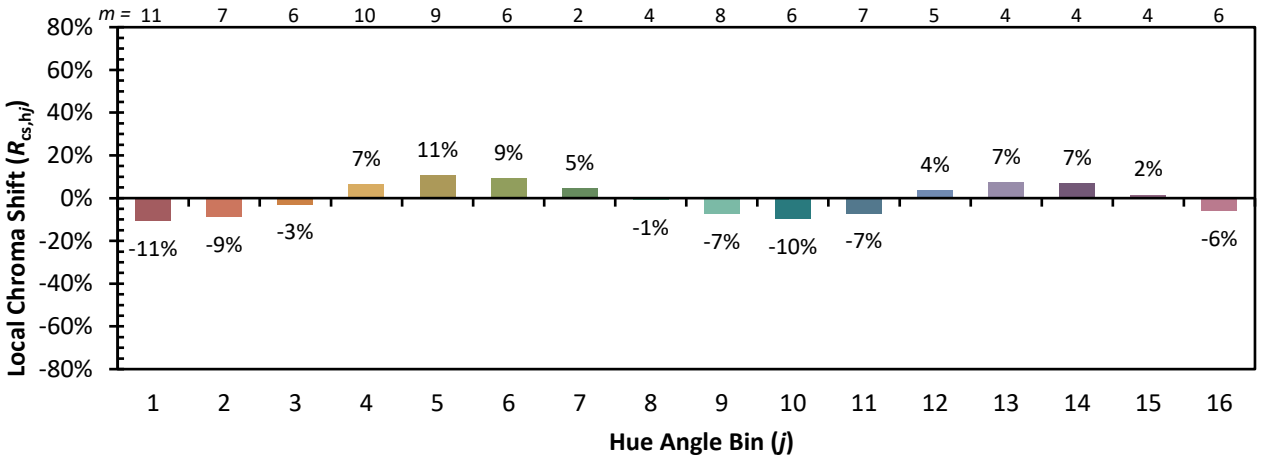
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

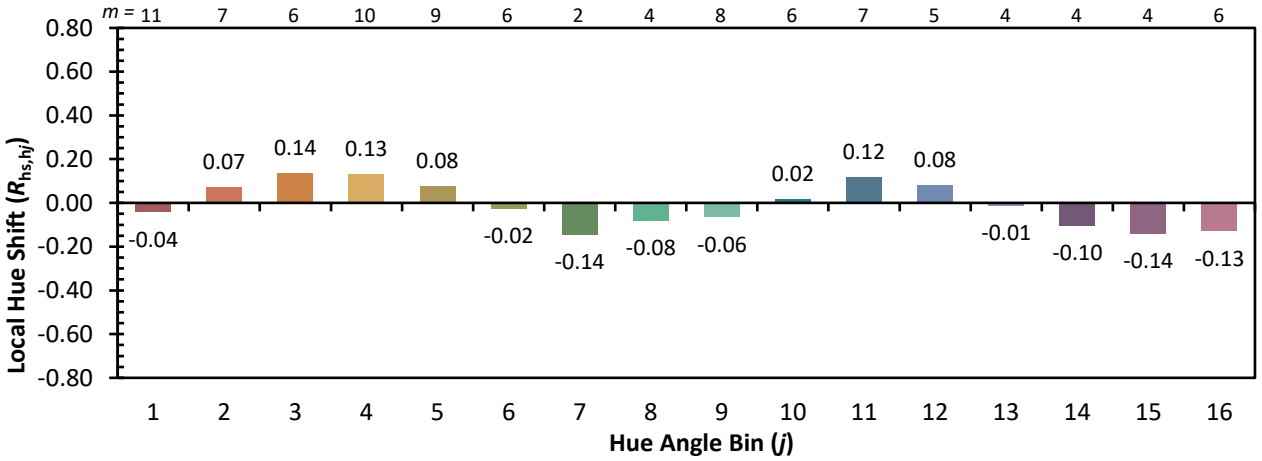


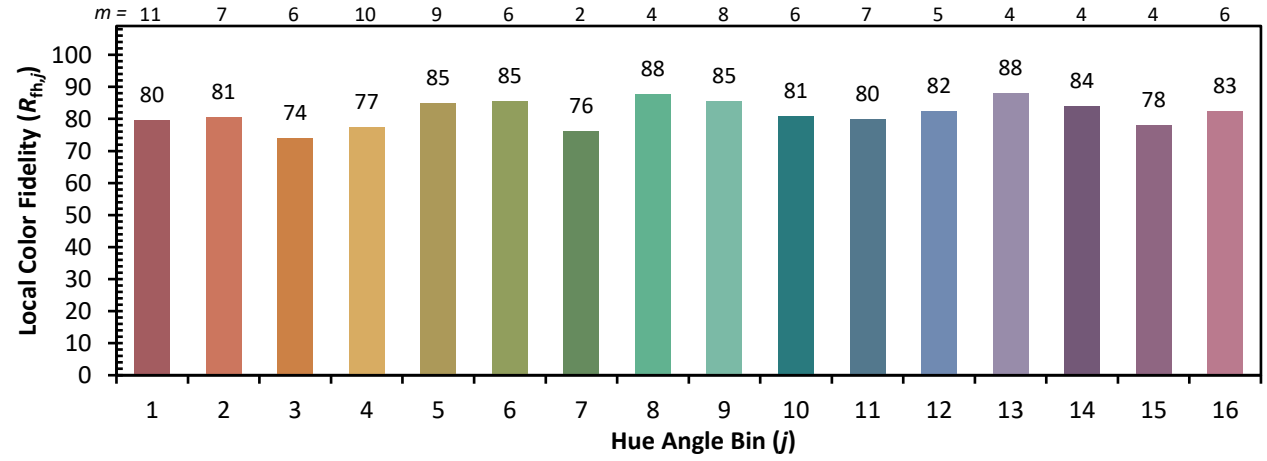
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



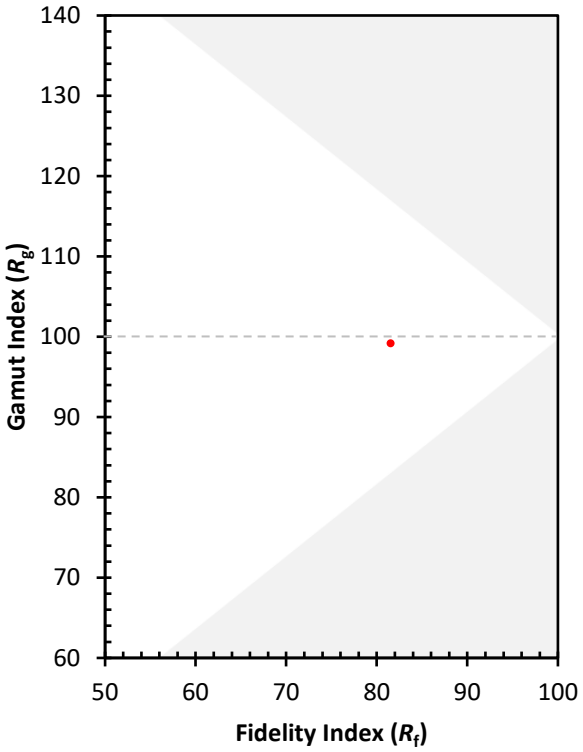


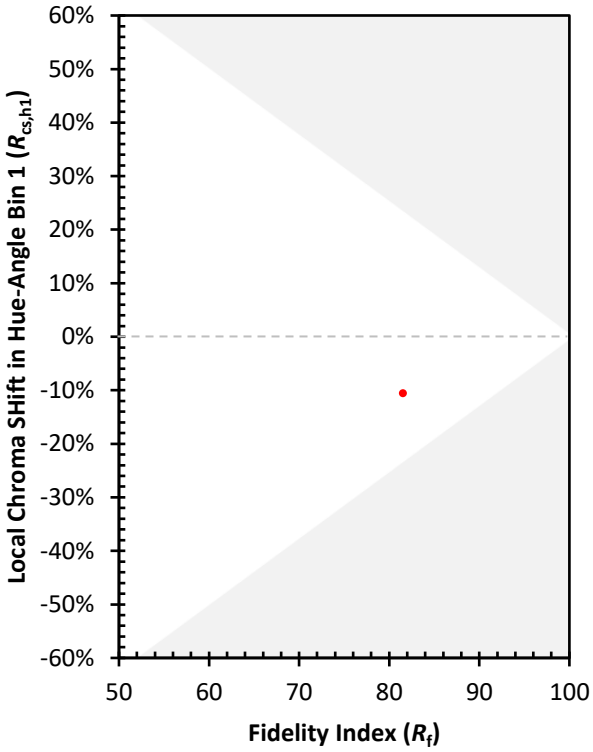


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





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