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: P634034

Luminaire Tested: GWS-SA2F-830-U-T2-W-GRSWH

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:	P634034
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2F-830-U-T2-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSLLED GLARE SHIELD, WH
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	10744.2 lumens
Efficiency:	N/A
Efficacy:	86.3 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

Input Watts (W):	124.5
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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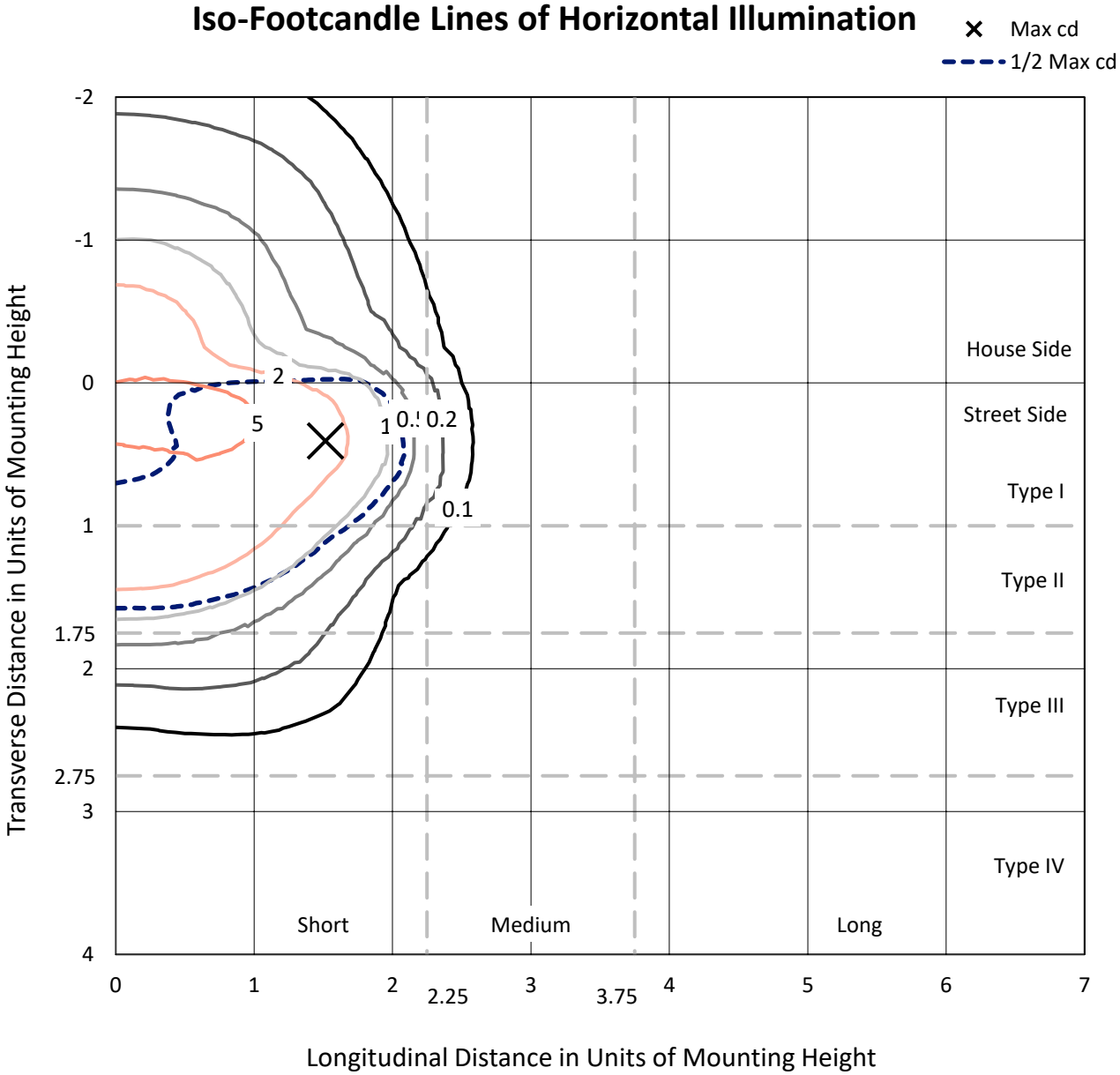
Scaled Data Report

REPORT NUMBER: P634034
CATALOG NUMBER: GWS-SA2F-830-U-T2-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 7.1 fc
Type II - Short - N/A

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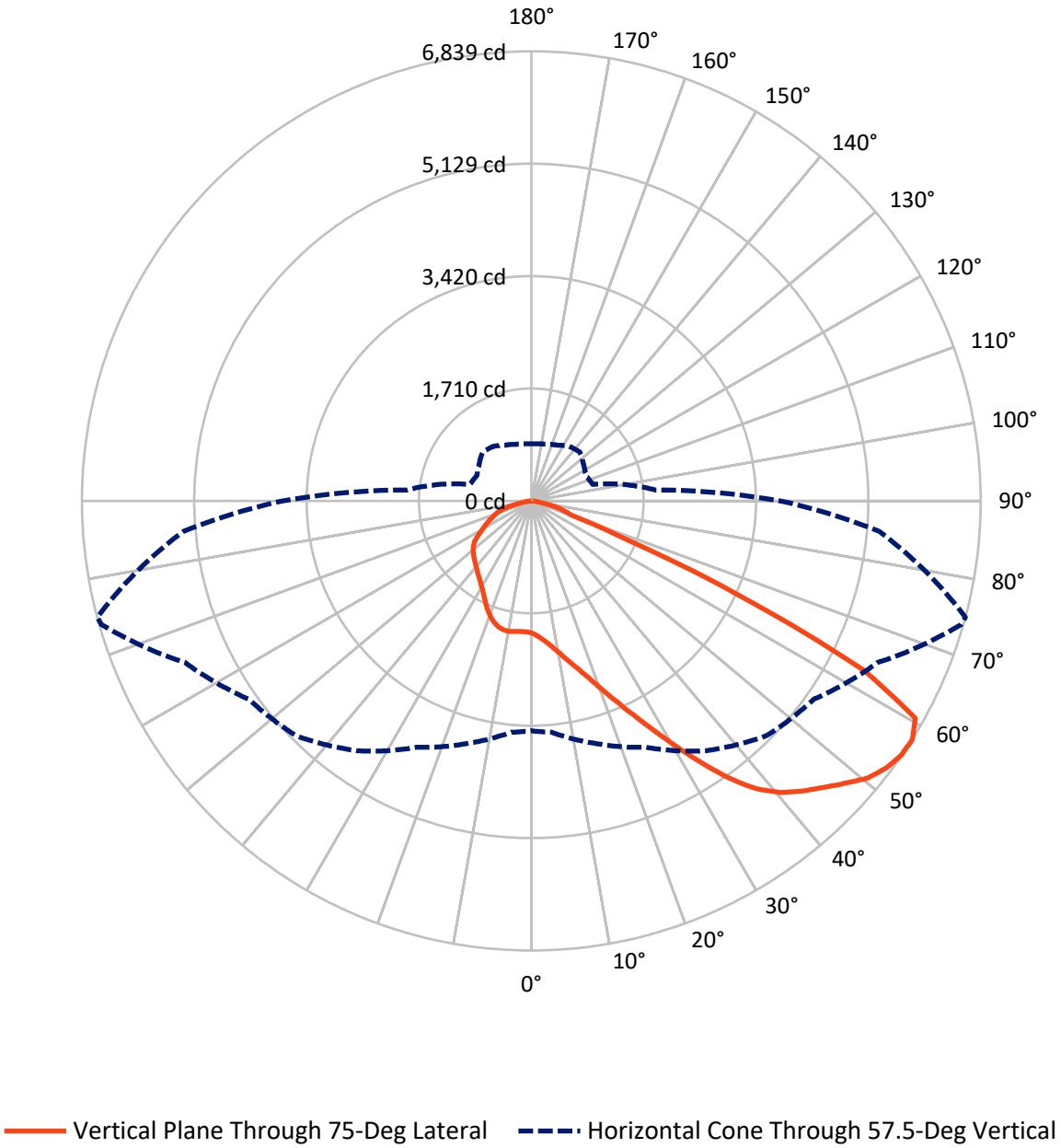
Luminous Intensity Polar Plot



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REPORT NUMBER: P634034
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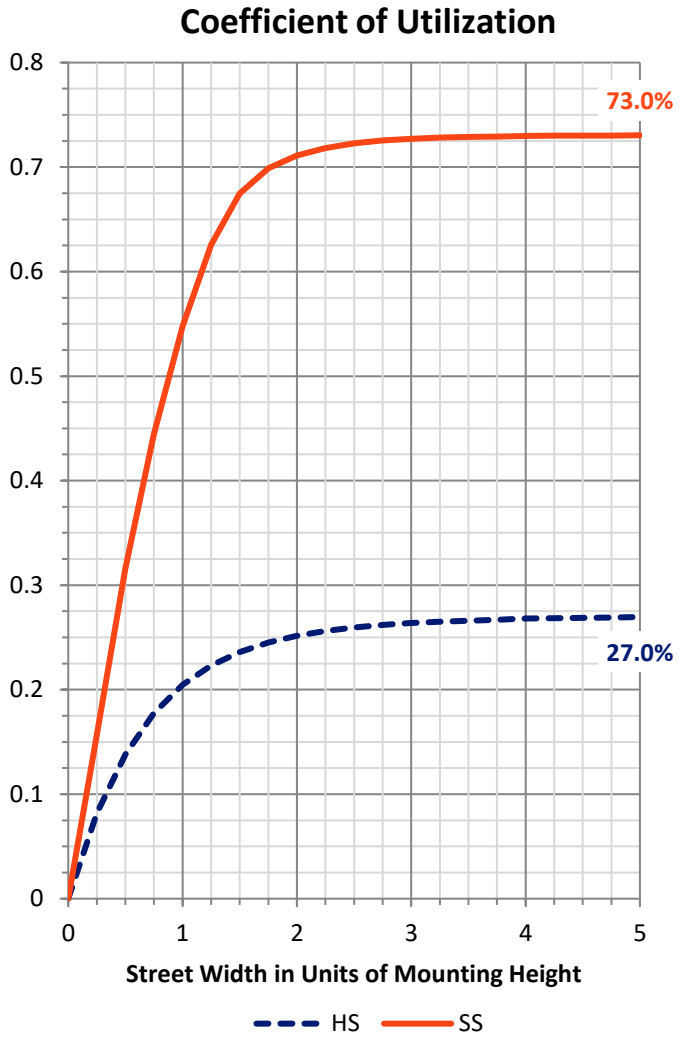
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2906.5	0.0	2906.5
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	7837.7	0.0	7837.7
	% Fixture	72.9	0.0	72.9
Total	Lumens	10744.2	0.0	10744.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.3	1.9
10°-20°	641.1	6.0
20°-30°	1136.9	10.6
30°-40°	1740.4	16.2
40°-50°	2423.4	22.6
50°-60°	2776.7	25.8
60°-70°	1426.7	13.3
70°-80°	359.2	3.3
80°-90°	38.4	0.4
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°	10744.2	100.0
0°-180°	10744.2	100.0



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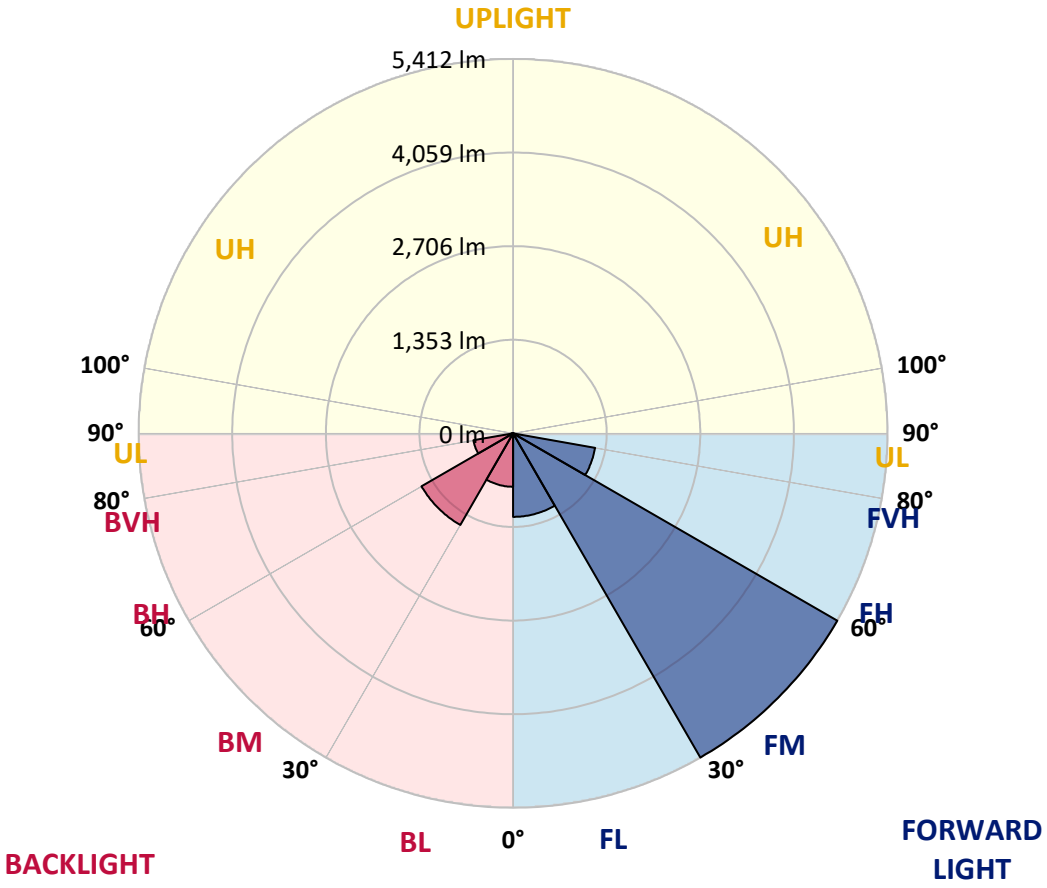
REPORT NUMBER: P634034
CATALOG NUMBER: GWS-SA2F-830-U-T2-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1207.2	11.2			
FM	(30°-60°)	5412.0	50.4			
FH	(60°-80°)	1204.3	11.2			G1/1800
FVH	(80°-90°)	14.2	0.1			G1/100
BL	(0°-30°)	772.2	7.2	B2/1000		
BM	(30°-60°)	1528.6	14.2	B2/2500		
BH	(60°-80°)	581.6	5.4	B2/1000		G2/1000
BVH	(80°-90°)	24.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type II Short



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Scaled Data Report

REPORT NUMBER: P634034
CATALOG NUMBER: GWS-SA2F-830-U-T2-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2012.1	2012.1	2012.1	2012.1	2012.1	2012.1	2012.1	2012.1	2012.1	*2012.1*	2012.1
2.5°	2161.8	2167.3	2161.8	2171.0	2152.6	2144.2	2123.9	2093.4	2069.4	*2065.7*	2038.9
5°	2329.9	2341.9	2334.6	2330.9	2305.9	2287.4	2256.9	2196.0	2146.1	*2138.7*	2086.0
7.5°	2438.0	2446.3	2446.3	2449.1	2439.9	2418.6	2386.3	2314.2	2244.0	*2232.9*	2153.5
10°	2474.1	2480.5	2492.5	2515.6	2534.1	2540.6	2519.3	2450.0	2364.1	*2353.0*	2242.2
12.5°	2482.4	2489.8	2508.2	2550.7	2601.5	2647.7	2651.4	2600.6	2504.5	*2492.5*	2344.7
15°	2498.1	2505.5	2530.4	2583.1	2657.9	2746.6	2801.1	2766.0	2659.7	*2646.8*	2461.1
17.5°	2496.2	2504.5	2541.5	2611.7	2712.4	2840.8	2946.1	2960.9	2851.0	*2828.8*	2593.2
20°	2491.6	2499.0	2538.7	2624.6	2749.4	2925.8	3116.1	3192.8	3074.6	*3054.2*	2747.5
22.5°	2528.6	2536.9	2567.4	2638.5	2768.8	2991.4	3273.2	3457.9	3339.7	*3311.1*	2924.9
25°	2611.7	2623.7	2642.2	2691.2	2803.9	3049.6	3433.9	3758.2	3637.2	*3603.0*	3118.0
27.5°	2740.1	2754.9	2780.8	2803.9	2882.4	3123.5	3593.8	4094.5	3973.5	*3937.4*	3322.1
30°	2897.2	2916.6	2949.8	2965.5	3019.1	3232.5	3767.4	4440.9	4370.7	*4320.8*	3552.2
32.5°	3114.3	3141.1	3172.5	3177.1	3209.4	3397.9	3939.3	4784.6	4783.7	*4748.6*	3813.6
35°	3397.0	3425.6	3432.1	3438.5	3454.3	3625.2	4147.1	5097.8	5218.8	*5178.1*	4098.2
37.5°	3705.5	3747.1	3757.3	3728.6	3750.8	3898.6	4380.9	5349.1	5597.6	*5554.1*	4373.5
40°	4035.3	4052.0	4079.7	4034.4	4062.1	4211.8	4610.0	5509.8	5880.3	*5834.1*	4590.6
42.5°	4271.9	4302.3	4343.9	4327.3	4343.0	4479.7	4770.7	5587.4	6081.7	*6035.5*	4746.7
45°	4528.7	4537.9	4564.7	4561.0	4570.3	4697.7	4886.2	5621.6	6261.8	*6220.2*	4879.7
47.5°	4752.2	4766.1	4783.7	4763.3	4743.0	4826.2	4980.4	5651.1	6469.7	*6419.8*	5019.2
50°	4967.5	4979.5	5000.8	4941.6	4865.9	4887.1	5026.6	5691.8	6664.6	*6629.5*	5129.2
52.5°	5007.2	5020.2	5119.9	5131.9	5034.9	4960.1	5107.9	5781.4	6779.2	*6757.0*	5168.9
55°	4507.4	4530.5	4729.2	4957.3	5196.6	5172.6	5238.2	5828.5	6824.4	*6830.0*	5240.0
57.5°	*3498.6*	*3531.9*	*3821.9*	*4135.1*	*4638.6*	*5055.3*	*5254.8*	*5816.5*	*6808.7*	*6839.2*	*5313.0*
60°	2294.8	2314.2	2657.9	3009.0	3530.9	4107.4	4703.3	5600.3	6669.2	*6712.6*	5294.5
62.5°	1385.8	1407.9	1684.2	1950.2	2257.9	2643.1	3190.0	4501.0	5590.2	*5687.2*	4240.4
65°	967.3	996.8	1238.9	1457.8	1564.1	1484.6	1615.8	2513.8	3482.9	*3523.5*	2591.4
67.5°	701.2	721.5	920.1	1180.7	1298.0	1048.6	799.1	1113.2	1517.0	*1531.7*	1068.9
70°	459.2	482.2	662.4	898.9	1059.6	849.9	597.7	602.3	638.4	*645.8*	620.8
72.5°	252.2	266.1	409.3	596.8	626.4	508.1	466.5	500.7	525.7	*525.7*	532.1
75°	130.3	142.3	167.2	196.8	237.4	278.1	336.3	387.1	413.9	*415.7*	413.0
77.5°	66.5	71.1	89.6	97.0	106.2	123.8	160.7	206.0	230.0	*239.3*	237.4
80°	31.4	33.3	37.9	44.3	54.5	69.3	86.8	103.5	118.3	*120.1*	130.3
82.5°	16.6	18.5	20.3	24.0	29.6	37.0	50.8	61.0	70.2	*72.1*	80.4
85°	6.5	7.4	8.3	9.2	12.9	15.7	21.2	28.6	35.1	*35.1*	41.6
87.5°	0.0	0.0	0.0	0.0	0.9	1.8	3.7	4.6	6.5	*6.5*	11.1
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: P634034
CATALOG NUMBER: GWS-SA2F-830-U-T2-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2012.1	2012.1	2012.1	2012.1	2012.1	2012.1	2012.1	2012.1	2012.1	2012.1	2012.1
2.5°	2032.5	2005.7	1993.7	1974.3	1958.5	1941.0	1927.1	1917.0	1910.5	1906.8	1903.1
5°	2065.7	2025.1	1992.7	1953.9	1927.1	1901.3	1880.0	1865.2	1857.8	1852.3	1848.6
7.5°	2117.4	2062.9	2002.0	1941.9	1894.8	1853.2	1826.4	1810.7	1800.6	1796.9	1794.1
10°	2188.6	2112.8	2012.1	1917.0	1846.8	1801.5	1783.0	1775.6	1776.6	1774.7	1773.8
12.5°	2269.0	2165.5	2009.4	1872.6	1795.0	1768.2	1769.2	1781.2	1795.0	1798.7	1799.6
15°	2355.8	2217.2	1982.6	1815.4	1754.4	1757.1	1781.2	1809.8	1835.7	1845.8	1847.7
17.5°	2450.0	2260.6	1933.6	1752.5	1721.1	1750.7	1795.0	1842.1	1880.0	1896.7	1901.3
20°	2555.4	2297.6	1864.3	1690.6	1689.7	1738.7	1803.3	1865.2	1913.3	1935.5	1939.1
22.5°	2667.1	2320.7	1779.3	1633.4	1657.4	1723.0	1796.9	1861.5	1912.4	1934.5	1939.1
25°	2779.8	2328.1	1686.0	1580.7	1624.1	1698.0	1765.5	1817.2	1865.2	1884.6	1888.3
27.5°	2885.2	2306.8	1597.3	1535.4	1593.6	1661.1	1706.3	1734.1	1767.3	1782.1	1784.9
30°	2992.3	2264.3	1522.5	1499.4	1559.4	1610.3	1630.6	1632.4	1645.4	1645.4	1647.2
32.5°	3100.4	2201.5	1456.9	1464.3	1517.0	1550.2	1553.0	1531.7	1516.0	1490.2	1489.2
35°	3225.1	2137.8	1403.3	1424.6	1467.1	1487.4	1479.1	1438.4	1400.5	1358.0	1356.2
37.5°	3340.6	2072.2	1358.0	1383.9	1410.7	1425.5	1406.1	1357.1	1325.7	1282.3	1275.8
40°	3435.8	2013.1	1314.6	1341.4	1354.4	1367.3	1335.9	1296.2	1300.8	1276.8	1275.8
42.5°	3491.2	1955.8	1274.0	1294.3	1302.6	1311.9	1284.1	1254.6	1279.5	1261.0	1262.0
45°	3531.9	1905.9	1237.0	1244.4	1264.7	1278.6	1252.7	1219.5	1225.0	1153.9	1137.3
47.5°	3578.0	1878.2	1201.9	1194.5	1230.6	1254.6	1214.9	1166.8	1133.6	1063.3	1056.9
50°	3627.0	1868.0	1165.0	1144.6	1188.1	1211.2	1165.0	1104.9	1061.5	1023.6	1019.9
52.5°	3643.6	1867.1	1118.8	1084.6	1128.0	1160.3	1121.5	1060.6	1008.8	971.9	970.0
55°	3709.2	1893.9	1059.6	1002.4	1043.0	1109.5	1080.9	993.1	951.6	934.9	933.1
57.5°	*3785.9*	*1898.5*	*966.3*	*912.8*	*969.1*	*1047.6*	*1011.6*	*935.9*	*890.6*	*870.3*	*868.4*
60°	3754.5	1784.9	866.6	844.4	906.3	989.4	956.2	890.6	837.9	818.5	816.7
62.5°	2861.1	1260.1	793.6	785.3	838.8	905.4	898.9	830.5	780.6	766.8	764.9
65°	1721.1	885.0	723.4	722.4	760.3	824.1	832.4	777.0	724.3	704.9	704.9
67.5°	850.9	677.2	643.9	639.3	663.3	708.6	743.7	698.4	654.1	635.6	632.8
70°	601.4	596.8	585.7	572.8	577.4	595.9	610.7	572.8	525.7	507.2	503.5
72.5°	520.1	521.0	513.7	503.5	499.8	486.9	473.9	446.2	417.6	398.2	400.0
75°	403.7	405.6	410.2	406.5	396.3	382.5	368.6	333.5	310.4	291.9	288.2
77.5°	235.6	244.8	259.6	255.9	257.8	238.4	232.8	198.6	177.4	164.4	161.7
80°	133.0	138.6	145.0	149.7	144.1	135.8	123.8	105.3	98.9	89.6	87.8
82.5°	80.4	85.9	88.7	92.4	90.5	79.5	70.2	58.2	52.7	48.0	47.1
85°	40.6	44.3	47.1	49.0	43.4	36.0	32.3	25.9	22.2	19.4	19.4
87.5°	10.2	11.1	12.9	11.1	10.2	4.6	3.7	0.9	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

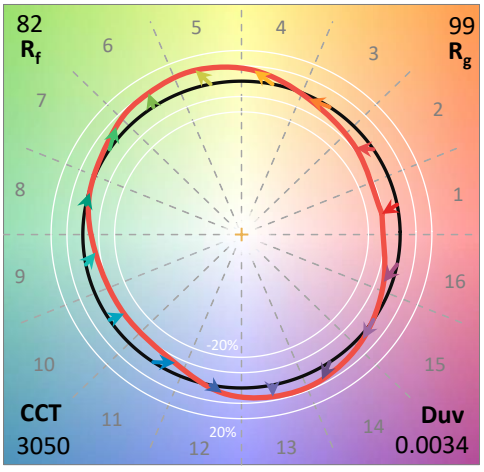
Test Information

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

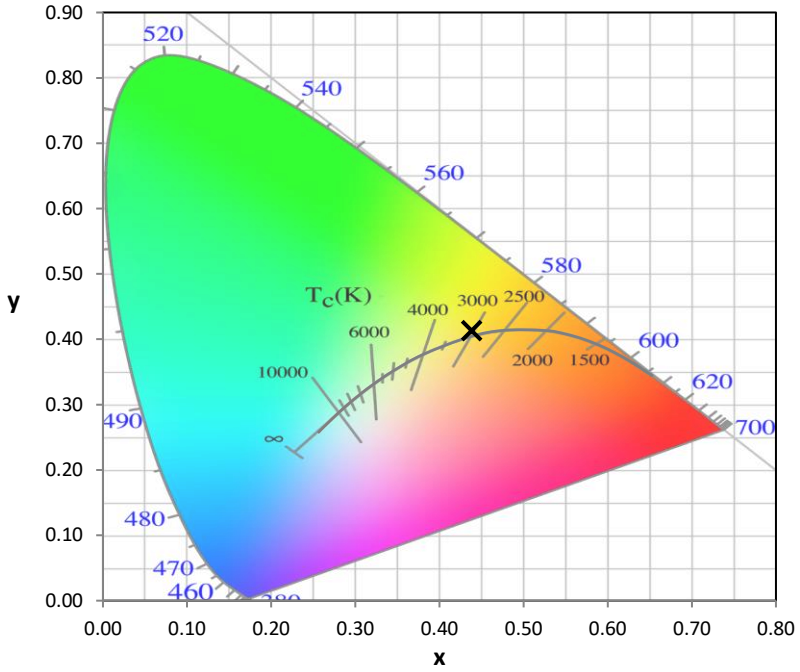
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

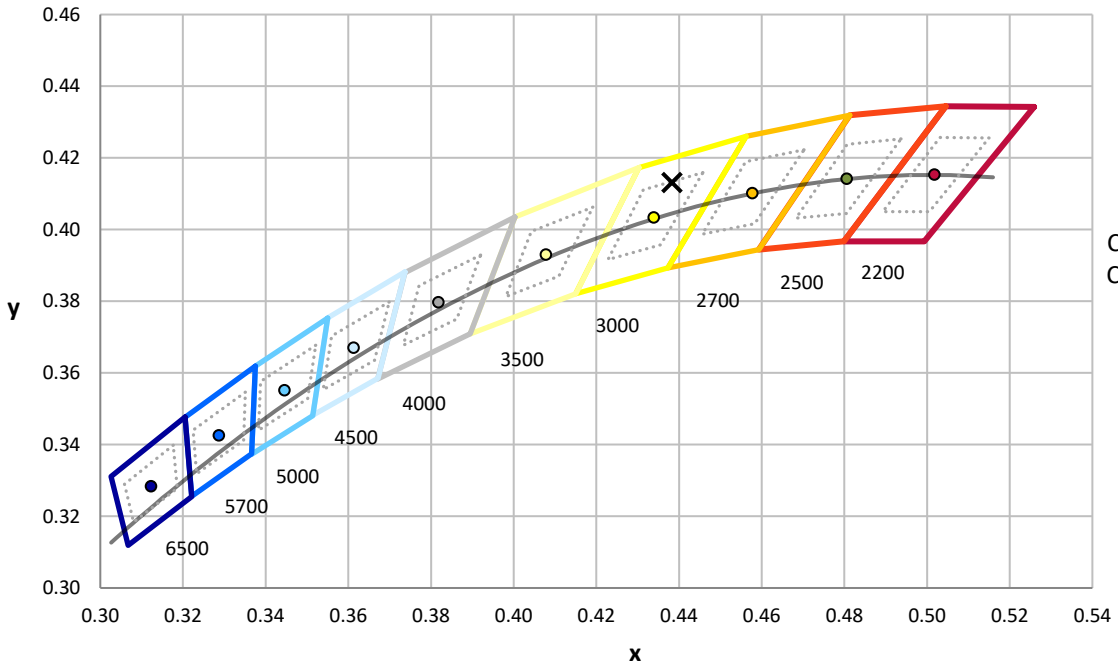
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

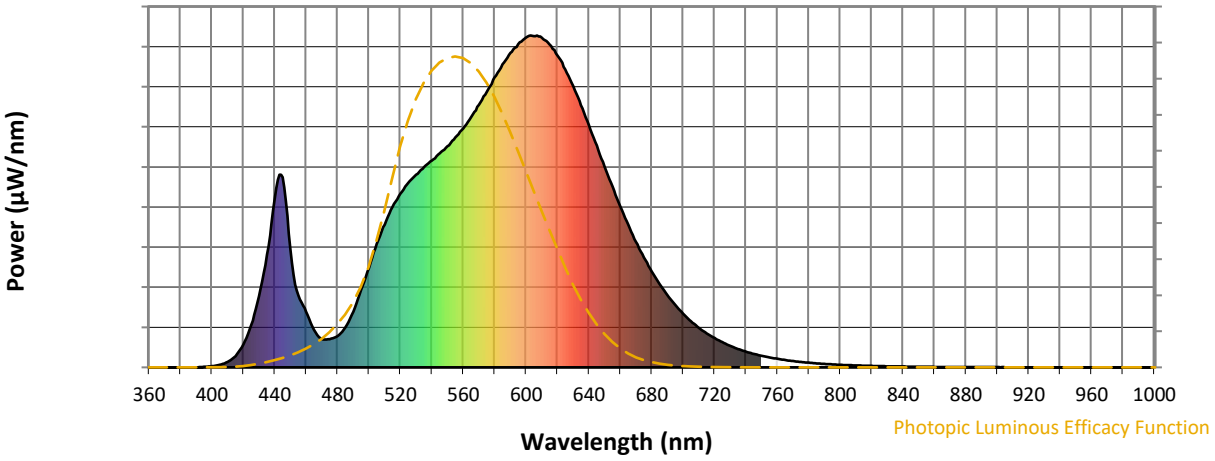


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

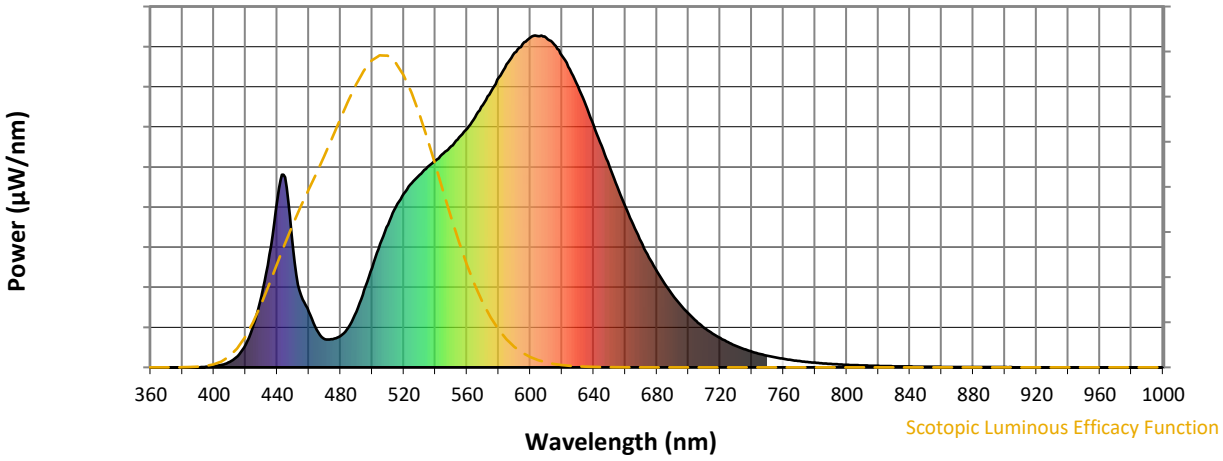


Photopic Lumens: NR

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

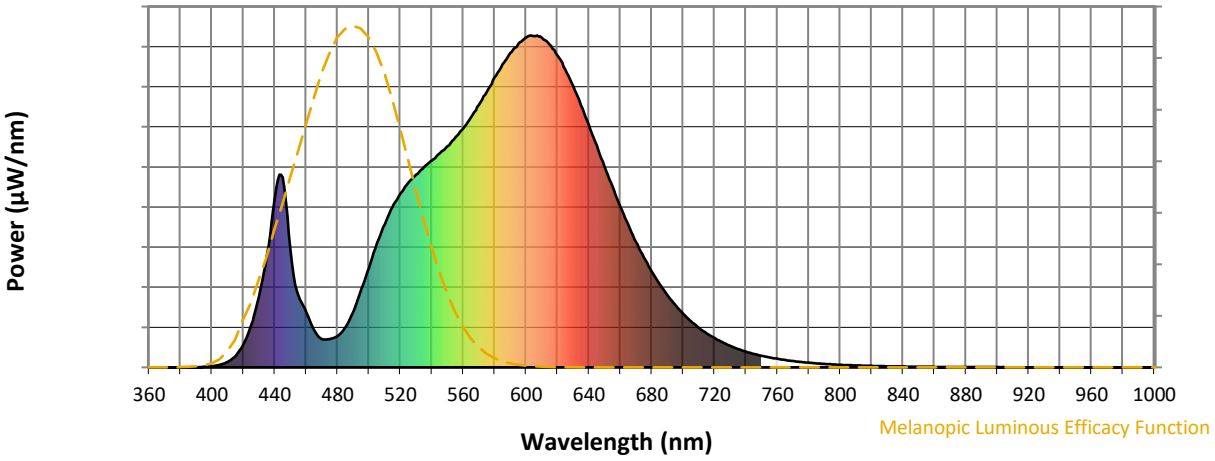


Scotopic Lumens: NR **S/P: 1.27**

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			

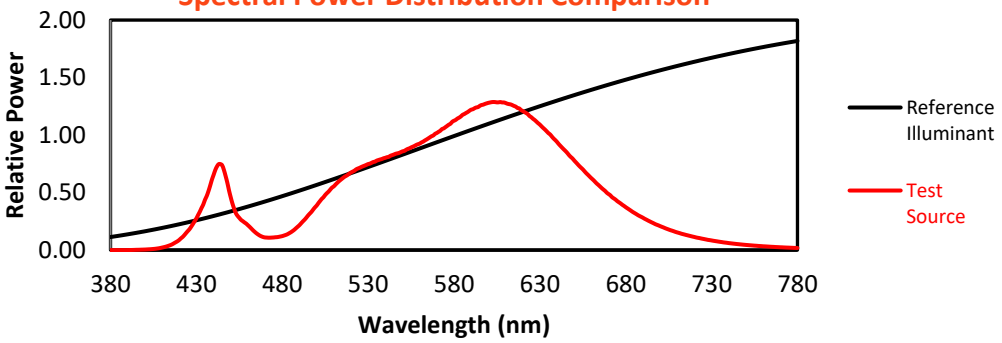
REPORT NUMBER: SP1-2408-195-9

TM-30-18

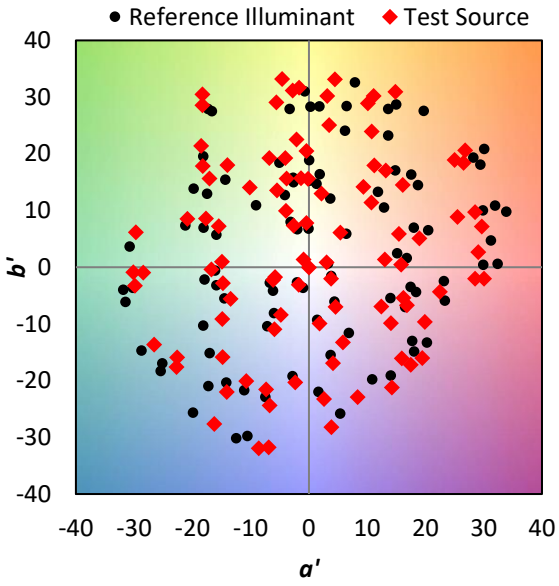
Summary

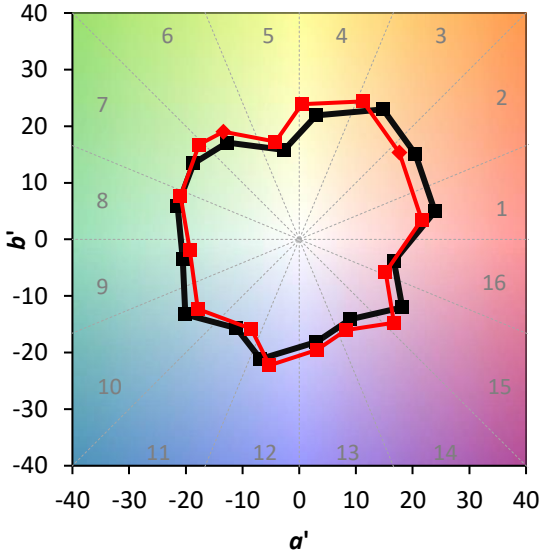
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

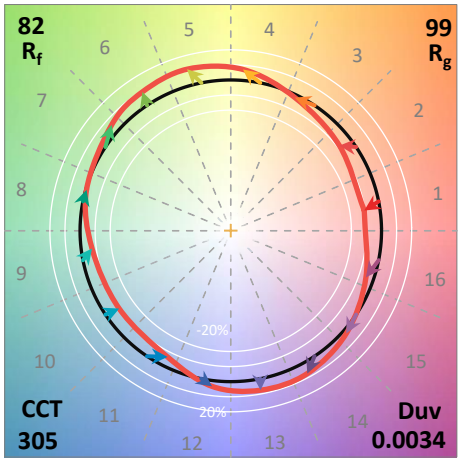
Spectral Power Distribution Comparison

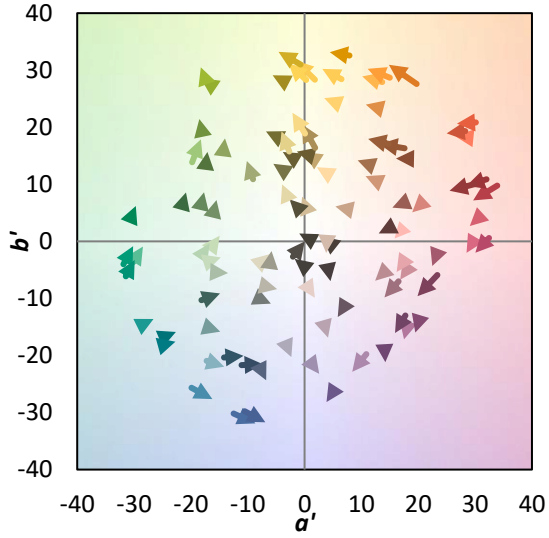


Color Vector Graphics







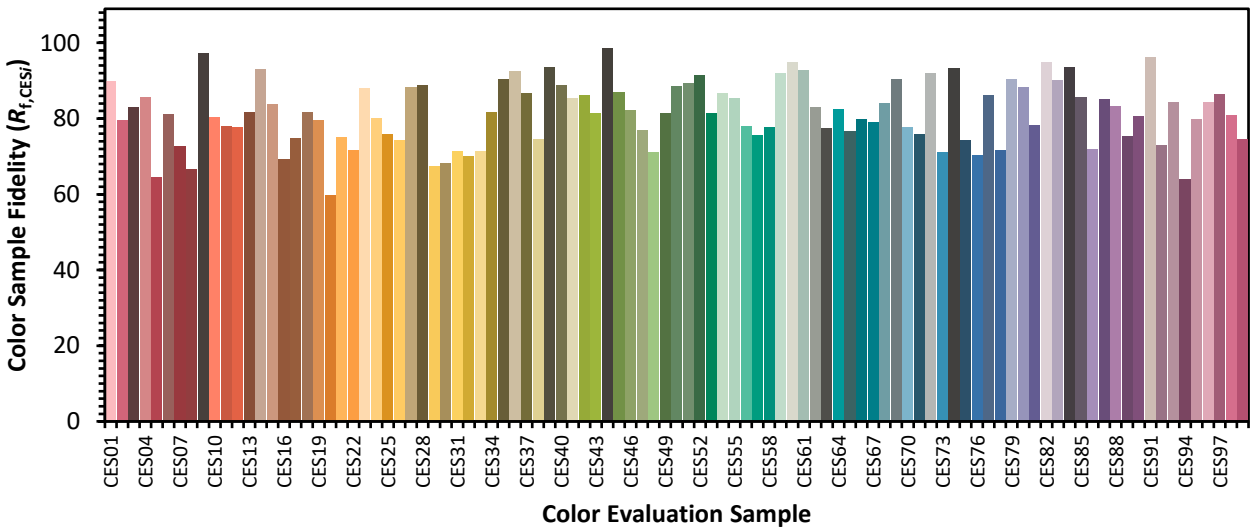


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

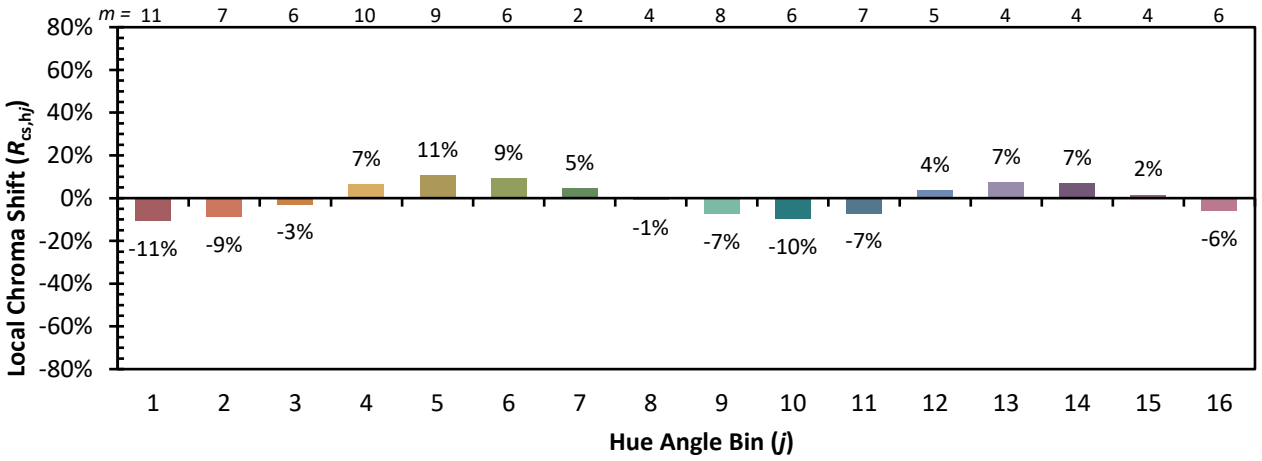
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

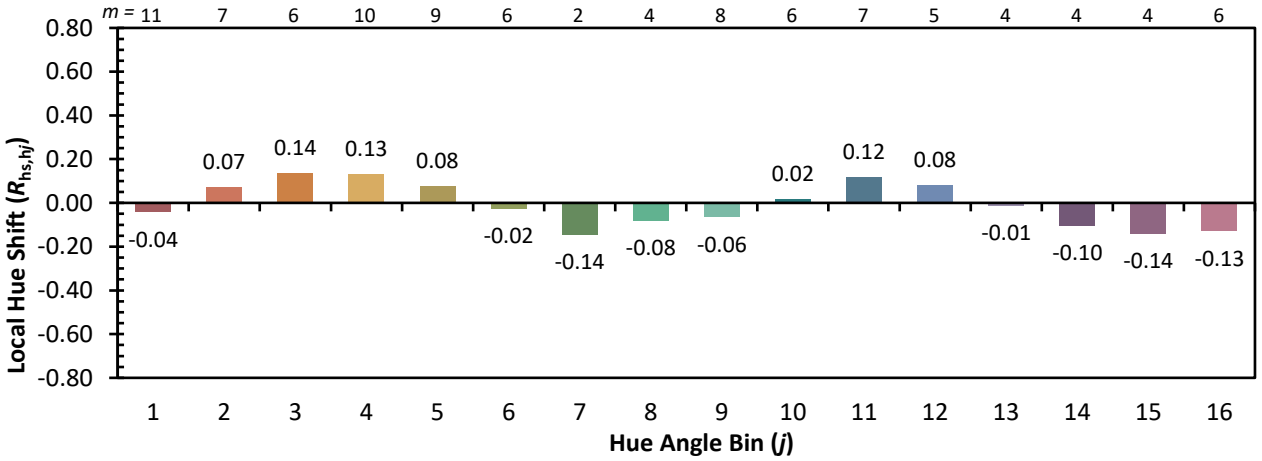


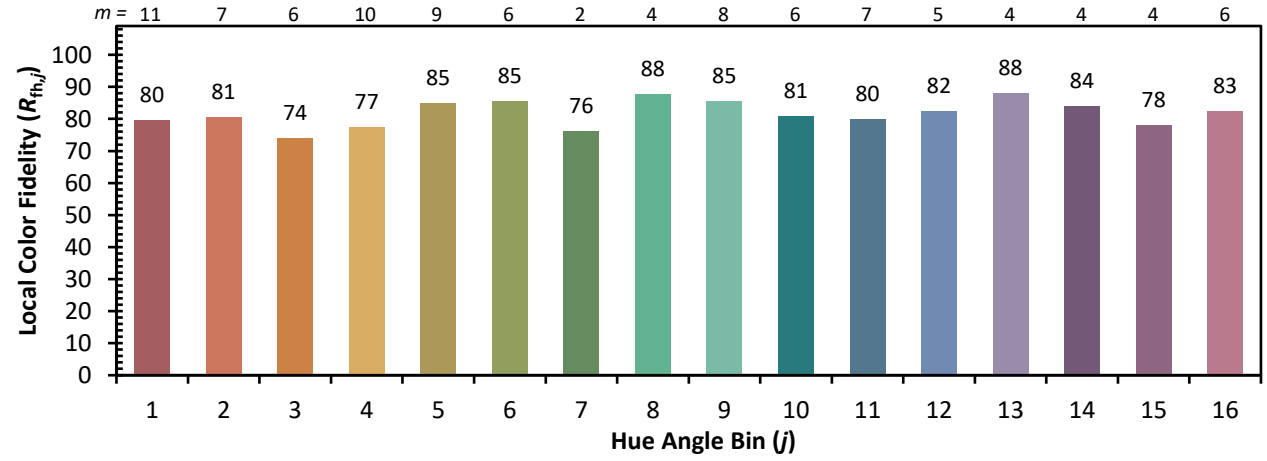
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



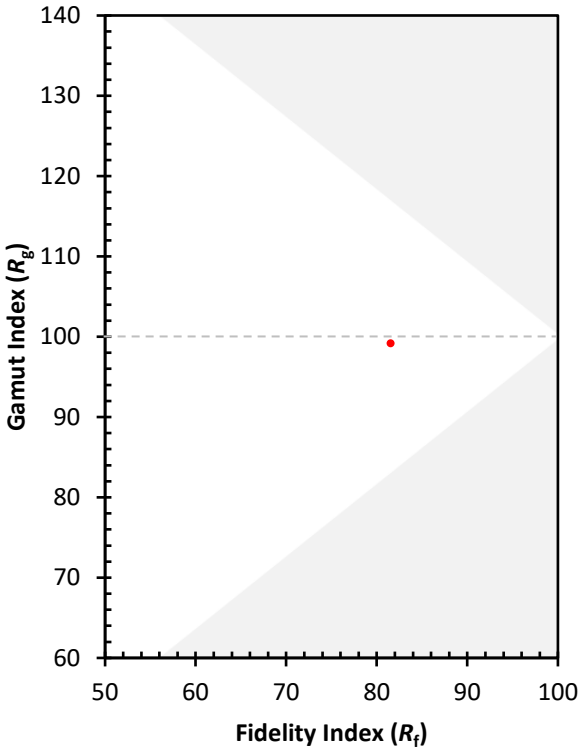


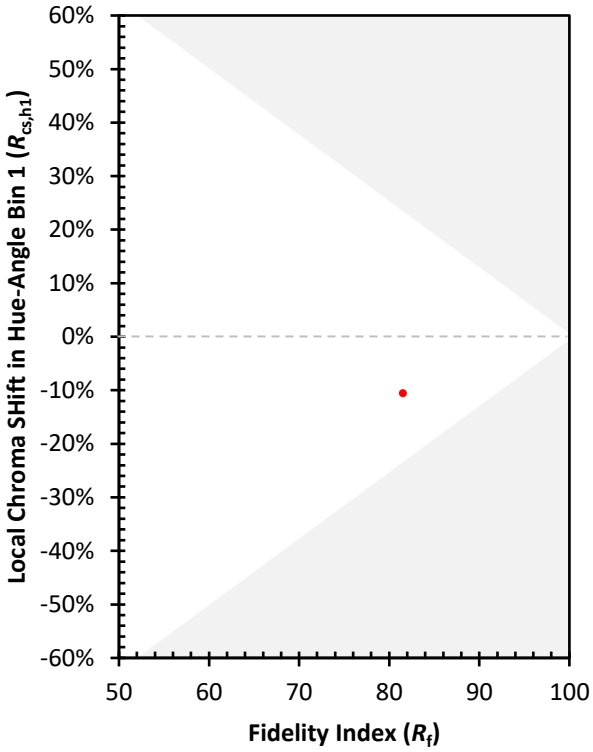


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





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