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: P634023

Luminaire Tested: GWS-SA2F-830-U-SL4-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:	P634023
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2F-830-U-SL4-W
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	12376.6 lumens
Efficiency:	N/A
Efficacy:	99.4 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G2

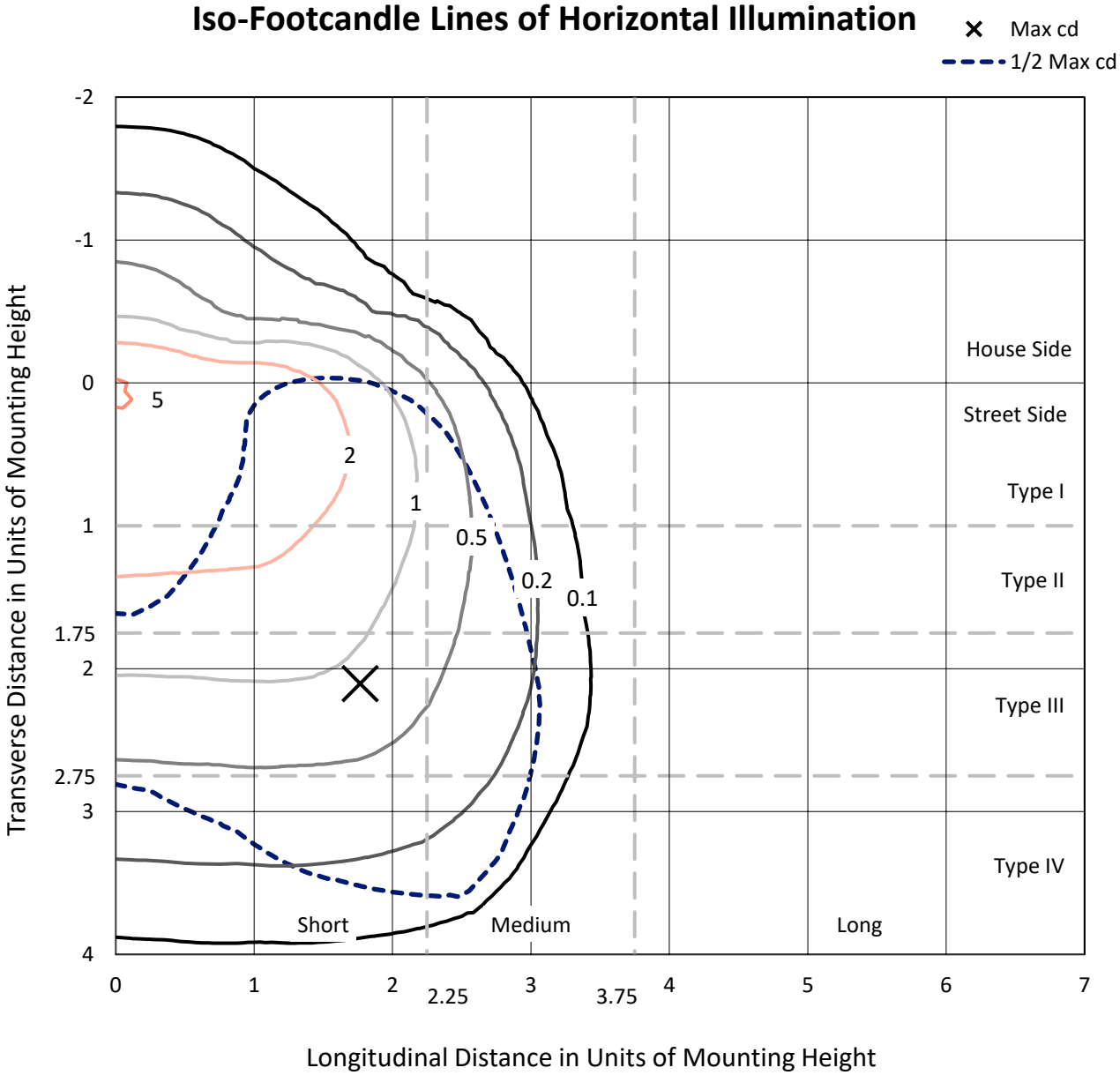
Input Watts (W):	124.5
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	0
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P634023
CATALOG NUMBER: GWS-SA2F-830-U-SL4-W

Iso-Footcandle Lines of Horizontal Illumination



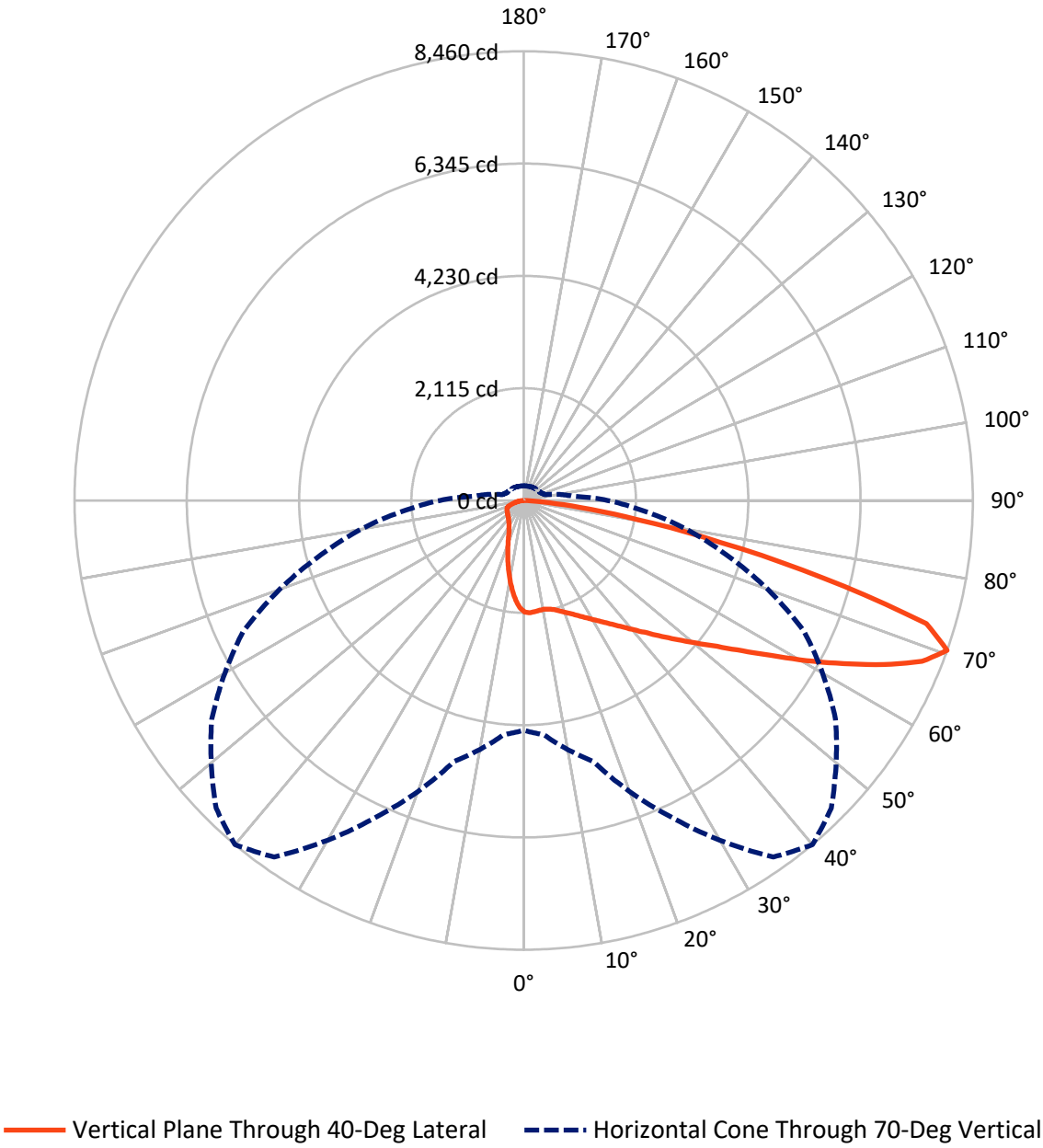
Based on 20 foot mounting height. Maximum calculated value = 5.3 fc
Type IV - Short - N/A

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P634023
CATALOG NUMBER: GWS-SA2F-830-U-SL4-W

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

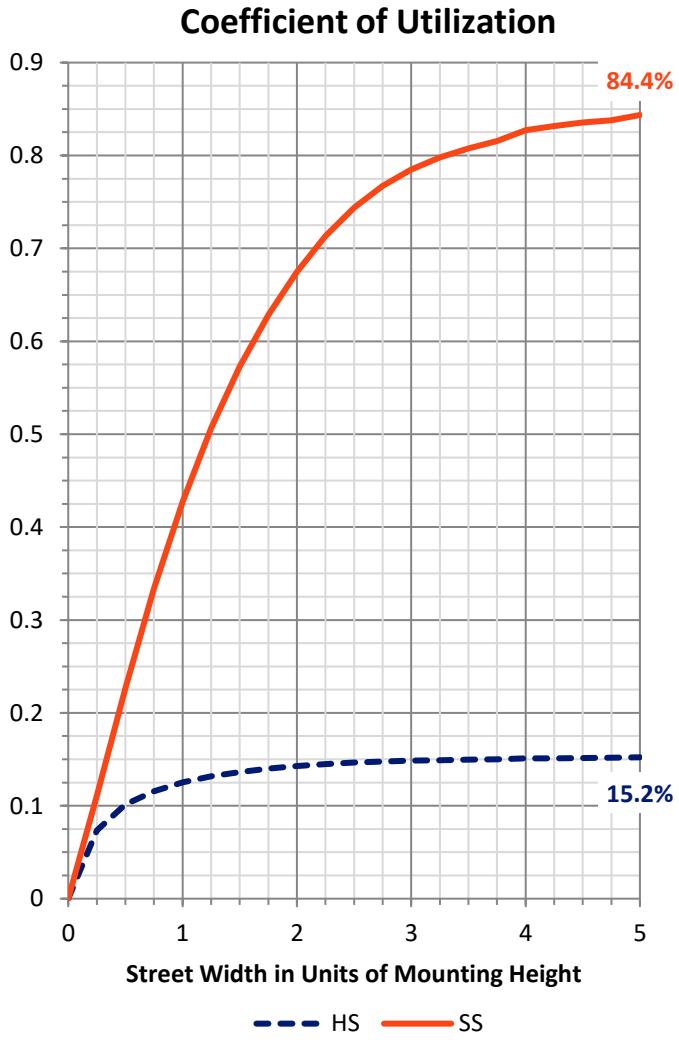
REPORT NUMBER: P634023
CATALOG NUMBER: GWS-SA2F-830-U-SL4-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1906.3	0.0	1906.3
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	10470.3	0.0	10470.3
	% Fixture	84.6	0.0	84.6
Total	Lumens	12376.6	0.0	12376.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.7	1.5
10°-20°	484.0	3.9
20°-30°	759.9	6.1
30°-40°	1142.5	9.2
40°-50°	1763.5	14.2
50°-60°	2619.0	21.2
60°-70°	3301.2	26.7
70°-80°	1909.0	15.4
80°-90°	211.9	1.7
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°	12376.6	100.0
0°-180°	12376.6	100.0



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

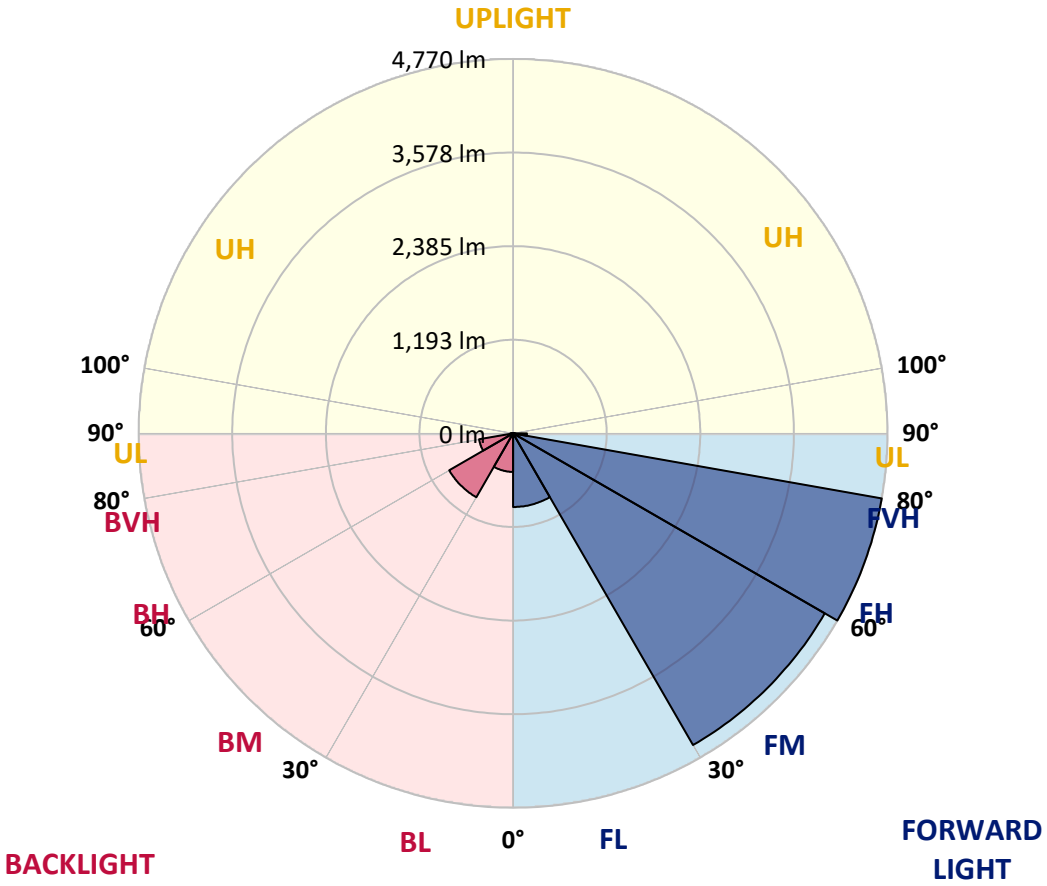
Scaled Data Report

REPORT NUMBER: P634023
CATALOG NUMBER: GWS-SA2F-830-U-SL4-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	938.2	7.6			
FM	(30°-60°)	4585.4	37.0			
FH	(60°-80°)	4770.2	38.5			G2/5000
FVH	(80°-90°)	176.5	1.4			G2/225
BL	(0°-30°)	491.3	4.0	B1/500		
BM	(30°-60°)	939.6	7.6	B1/1000		
BH	(60°-80°)	440.0	3.6	B1/500		G1/500
BVH	(80°-90°)	35.4	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 IV Short



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P634023
CATALOG NUMBER: GWS-SA2F-830-U-SL4-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7
2.5°	2114.6	2118.3	2121.1	2124.8	2122.9	2117.4	2122.0	2122.0	2111.9	2100.8	2090.6
5°	2117.4	2122.0	2121.1	2120.2	2112.8	2103.5	2103.5	2098.0	2080.4	2062.9	2046.3
7.5°	2111.9	2110.9	2110.0	2107.2	2098.9	2088.8	2086.9	2075.8	2052.7	2028.7	2004.7
10°	2086.9	2086.0	2088.8	2095.2	2093.4	2084.1	2084.1	2074.0	2047.2	2017.6	1986.2
12.5°	2066.6	2066.6	2077.7	2095.2	2101.7	2098.0	2098.9	2091.5	2061.0	2025.9	1989.0
15°	2069.4	2070.3	2094.3	2122.9	2134.9	2132.2	2133.1	2124.8	2090.6	2055.5	2005.6
17.5°	2087.8	2092.5	2134.0	2173.7	2189.5	2185.8	2179.3	2165.4	2126.6	2086.9	2025.9
20°	2126.6	2134.0	2187.6	2237.5	2256.0	2247.7	2236.6	2208.9	2166.4	2122.9	2048.1
22.5°	2203.3	2207.9	2267.1	2316.0	2330.8	2320.6	2298.5	2258.7	2209.8	2164.5	2074.9
25°	2311.4	2316.9	2373.3	2418.6	2414.9	2402.9	2372.4	2323.4	2265.2	2217.2	2113.7
27.5°	2439.8	2449.0	2504.5	2540.5	2516.5	2498.9	2464.7	2405.6	2340.0	2296.6	2172.8
30°	2580.2	2583.9	2631.0	2667.1	2630.1	2606.1	2564.5	2500.8	2441.7	2409.3	2261.5
32.5°	2716.0	2719.7	2760.4	2780.7	2741.9	2724.3	2688.3	2620.9	2579.3	2561.8	2393.6
35°	2859.2	2858.3	2891.6	2909.1	2869.4	2862.0	2825.0	2773.3	2765.9	2789.0	2586.7
37.5°	3002.4	2994.1	3011.7	3034.7	3012.6	3020.0	2995.9	2978.4	3007.0	3067.1	2843.5
40°	3117.0	3117.0	3135.4	3164.1	3171.5	3203.8	3189.9	3213.0	3305.4	3448.6	3161.3
42.5°	3218.6	3219.5	3258.3	3302.7	3356.2	3406.1	3417.2	3477.3	3668.5	3893.0	3560.4
45°	3324.8	3325.7	3378.4	3443.1	3556.7	3651.9	3674.0	3808.9	4082.4	4355.8	3993.7
47.5°	3447.7	3437.5	3510.5	3618.6	3780.3	3917.0	3974.3	4165.5	4511.0	4847.3	4402.0
50°	3586.3	3565.0	3646.3	3832.9	4032.5	4220.0	4316.1	4535.0	4971.1	5300.9	4786.3
52.5°	3742.4	3730.4	3815.4	4042.6	4347.5	4563.7	4693.9	4981.2	5418.2	5752.6	5091.2
55°	3936.4	3907.8	4030.6	4319.8	4717.0	4992.3	5146.6	5422.8	5906.9	6162.8	5324.0
57.5°	4148.9	4117.5	4281.9	4666.2	5197.4	5499.5	5692.6	5919.8	6367.0	6476.9	5460.7
60°	4378.0	4367.8	4562.7	5072.7	5770.2	6121.2	6260.7	6466.7	6767.0	6658.9	5426.5
62.5°	4587.7	4584.0	4867.6	5513.4	6377.1	6763.3	6874.1	6928.6	7055.2	6646.9	5154.9
65°	4808.5	4839.9	5223.3	6024.2	7072.8	7451.5	7497.7	7359.1	7152.2	6331.9	4598.8
67.5°	4836.2	4897.2	5446.8	6502.8	7732.4	8089.9	8052.9	7522.7	6865.8	5455.2	3604.7
70°	4325.3	4431.6	5090.2	6575.7	8197.0	8460.3	8193.4	7170.7	5826.5	3952.1	2267.1
72.5°	3614.0	3705.4	4287.4	5607.6	7597.5	7932.8	7571.6	6069.5	4117.5	2267.1	1154.8
75°	2813.0	2919.3	3456.0	4457.4	5688.0	5821.9	5640.8	4232.9	2263.4	934.9	524.7
77.5°	1716.5	1793.1	2210.7	3020.0	3979.8	3779.3	3202.9	2373.3	993.1	448.1	324.3
80°	759.4	806.5	1089.2	1622.2	2299.4	2173.7	1713.7	1013.4	543.2	284.5	226.3
82.5°	407.4	437.9	536.7	642.1	1009.7	1055.9	856.4	583.9	291.9	162.6	129.3
85°	179.2	196.8	243.9	232.8	331.7	326.1	328.9	400.9	139.5	74.8	84.1
87.5°	0.0	0.0	0.0	0.0	0.9	0.9	10.2	53.6	13.9	22.2	19.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P634023
CATALOG NUMBER: GWS-SA2F-830-U-SL4-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7
2.5°	2079.5	2062.9	2058.3	2052.7	2042.6	2025.0	2012.1	1997.3	1990.8	1983.4	1984.4
5°	2027.8	2007.5	1988.1	1963.1	1931.7	1896.6	1872.6	1844.9	1830.1	1816.2	1819.9
7.5°	1983.4	1952.0	1912.3	1859.6	1803.3	1740.5	1689.7	1649.9	1623.2	1604.7	1613.9
10°	1955.7	1918.8	1849.5	1763.6	1668.4	1572.3	1499.4	1431.0	1388.5	1355.2	1353.4
12.5°	1950.2	1902.1	1801.4	1676.7	1539.1	1410.7	1303.5	1211.1	1154.8	1113.2	1128.9
15°	1955.7	1894.8	1759.9	1596.4	1422.7	1249.0	1116.0	1009.7	942.3	904.4	901.6
17.5°	1962.2	1887.4	1712.8	1509.5	1300.7	1102.1	947.8	835.1	765.8	728.0	728.9
20°	1967.7	1876.3	1657.3	1414.4	1176.9	965.4	805.6	698.4	636.5	608.8	613.4
22.5°	1977.0	1865.2	1598.2	1312.7	1050.4	833.3	692.9	606.0	569.1	550.6	551.5
25°	1994.5	1858.7	1537.2	1201.9	925.7	728.0	615.3	557.1	534.0	522.9	522.0
27.5°	2030.6	1864.3	1473.5	1094.7	813.0	647.6	565.4	527.5	511.8	504.4	503.5
30°	2090.6	1886.4	1418.1	985.7	716.0	584.8	531.2	508.1	498.9	492.4	491.5
32.5°	2182.1	1928.0	1358.0	884.1	637.4	538.6	504.4	492.4	485.9	482.2	482.2
35°	2320.6	2003.8	1298.9	795.4	576.5	502.6	483.2	478.5	473.0	471.1	473.0
37.5°	2520.2	2124.8	1245.3	717.8	533.0	474.8	460.1	461.9	457.3	460.1	462.8
40°	2773.3	2286.5	1200.0	654.1	500.7	454.5	439.7	446.2	443.4	446.2	450.8
42.5°	3093.9	2486.9	1165.9	604.2	477.6	437.9	424.0	430.5	428.7	432.3	437.0
45°	3451.4	2751.1	1150.2	569.1	461.0	425.9	411.1	415.7	413.9	416.6	421.3
47.5°	3794.1	2991.3	1164.0	548.7	447.1	415.7	400.0	401.9	400.9	400.0	402.8
50°	4089.7	3182.6	1203.7	542.3	437.9	405.6	390.8	391.7	388.9	383.4	385.2
52.5°	4330.9	3335.9	1227.8	542.3	433.3	394.5	380.6	381.5	376.0	368.6	369.5
55°	4489.8	3397.8	1208.4	541.4	431.4	385.2	370.5	371.4	365.8	356.6	357.5
57.5°	4535.0	3337.8	1127.1	531.2	429.6	377.8	360.3	362.1	358.4	348.3	348.3
60°	4408.5	3117.9	978.3	508.1	425.0	373.2	352.9	355.7	353.8	343.7	343.7
62.5°	4076.8	2727.1	801.0	473.0	412.0	367.7	346.4	352.0	356.6	351.1	350.1
65°	3456.0	2184.8	651.3	434.2	395.4	358.4	337.2	351.1	361.2	368.6	368.6
67.5°	2593.2	1564.0	531.2	393.5	370.5	340.0	325.2	338.1	345.5	350.1	352.9
70°	*1580.7*	*920.1*	*418.5*	*346.4*	*334.4*	*312.3*	*301.2*	*288.2*	*278.1*	*276.2*	*277.1*
72.5°	773.2	526.6	340.0	294.7	285.5	265.1	240.2	234.7	230.0	227.3	226.3
75°	425.9	366.8	280.8	244.8	228.2	203.2	197.7	188.5	186.6	182.9	183.8
77.5°	301.2	289.2	231.9	198.6	173.7	160.7	163.5	157.0	157.0	154.3	153.4
80°	226.3	227.3	178.3	145.0	128.4	123.8	126.6	126.6	124.7	123.8	122.9
82.5°	143.2	161.7	120.1	93.3	91.5	92.4	91.5	90.5	92.4	89.6	88.7
85°	98.8	116.4	73.0	55.4	55.4	54.5	56.4	55.4	57.3	54.5	54.5
87.5°	22.2	51.7	26.8	16.6	17.6	16.6	17.6	18.5	20.3	21.2	21.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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

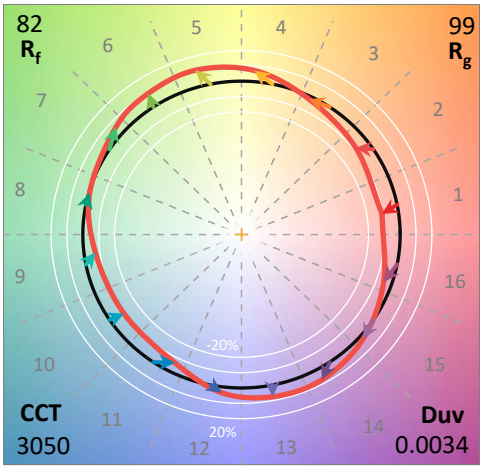
Test Information

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

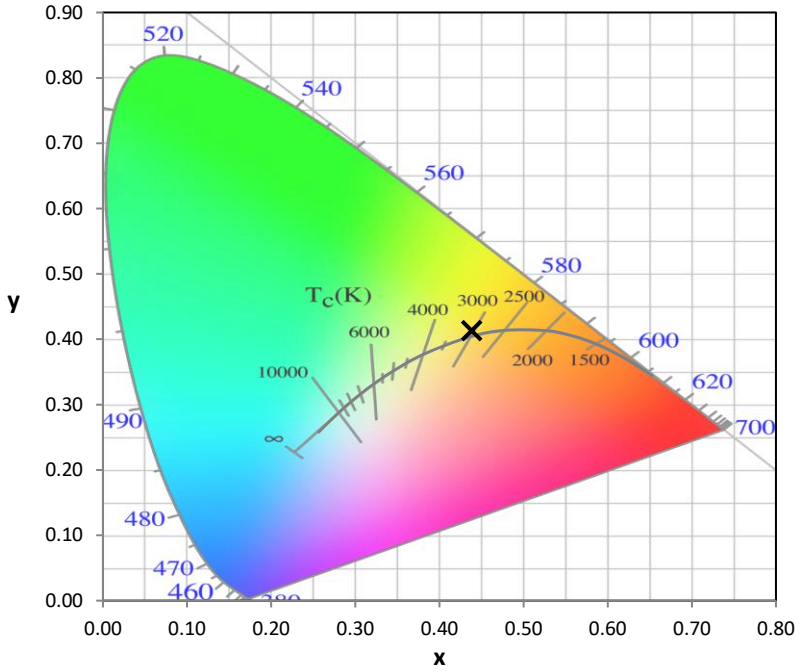
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

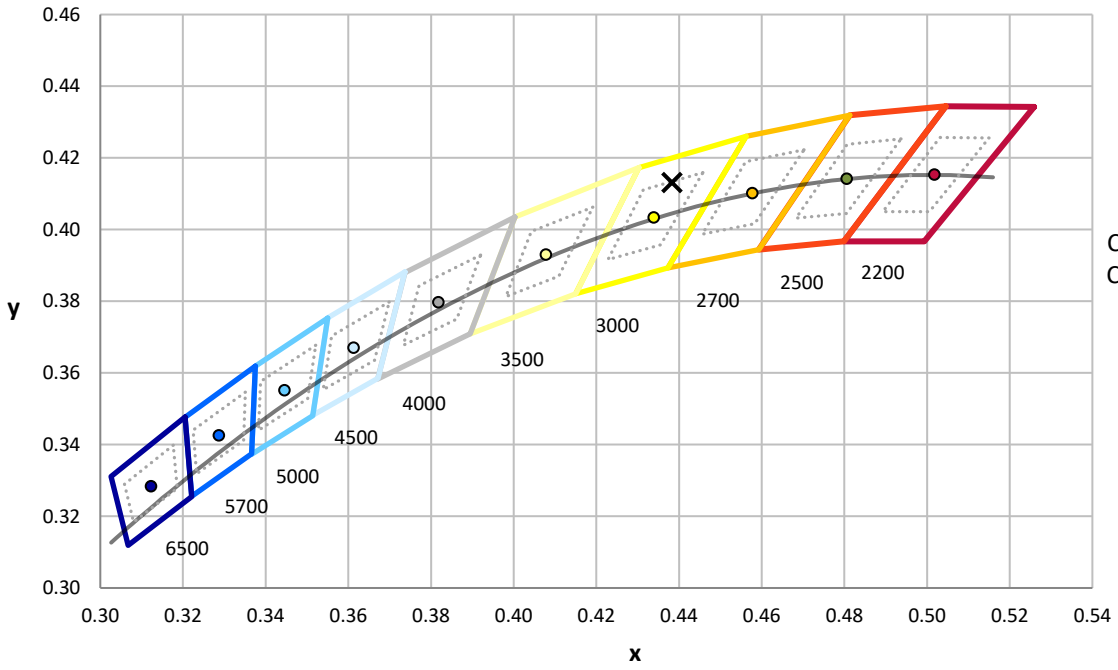
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

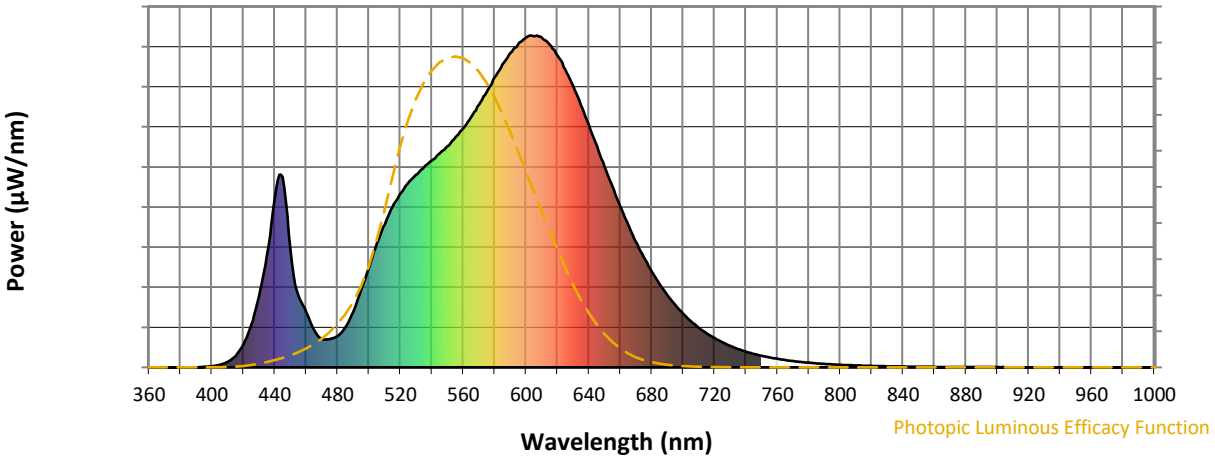


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

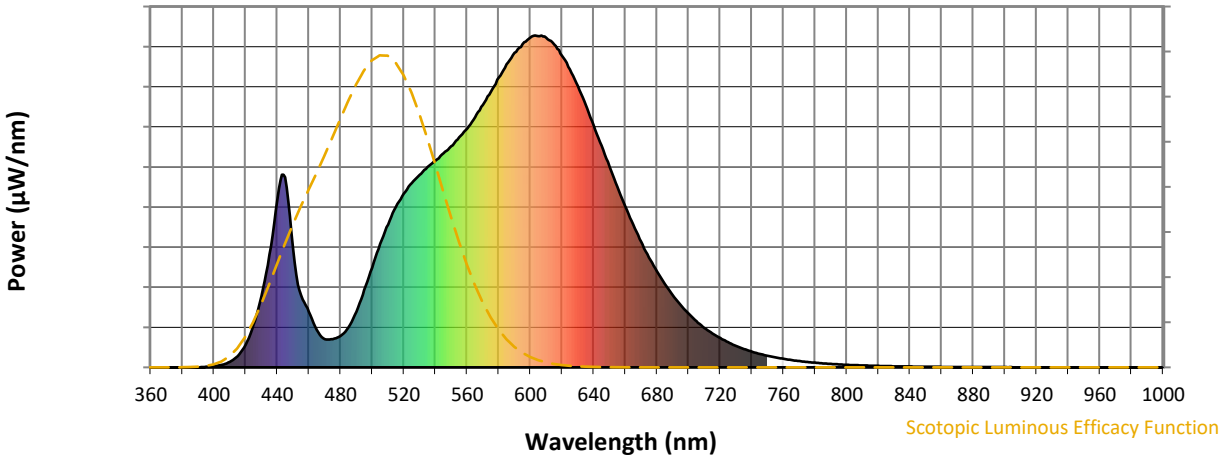


Photopic Lumens: NR

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

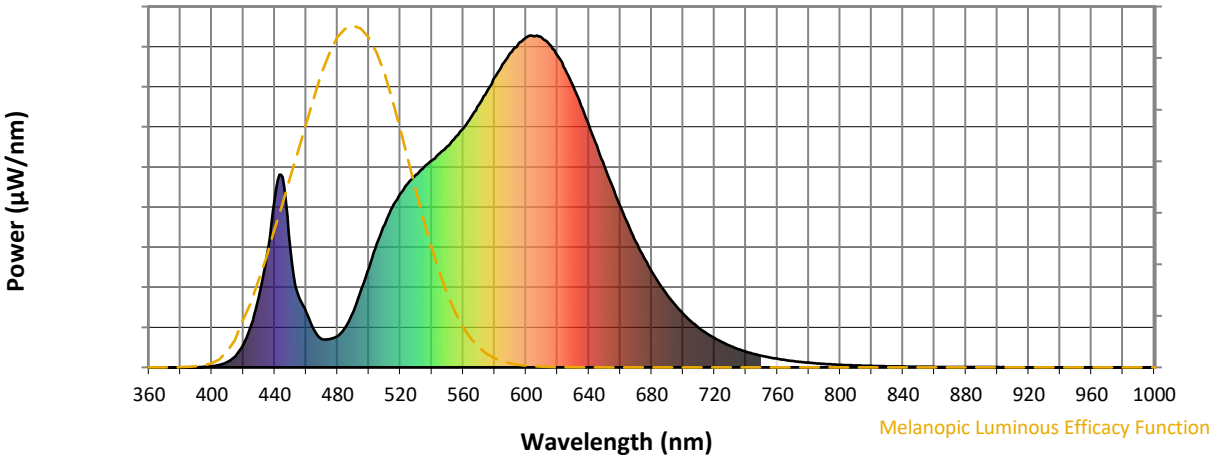


Scotopic Lumens: NR **S/P: 1.27**

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			

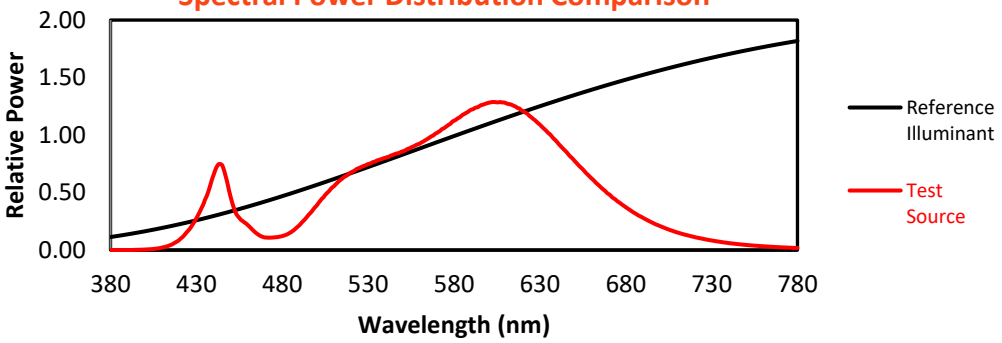
REPORT NUMBER: SP1-2408-195-9

TM-30-18

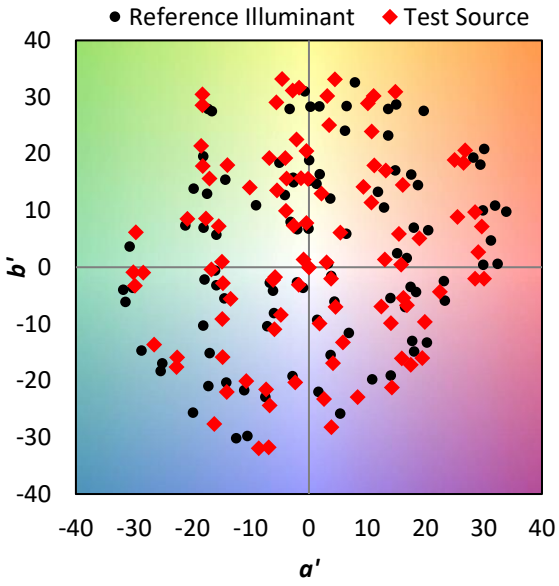
Summary

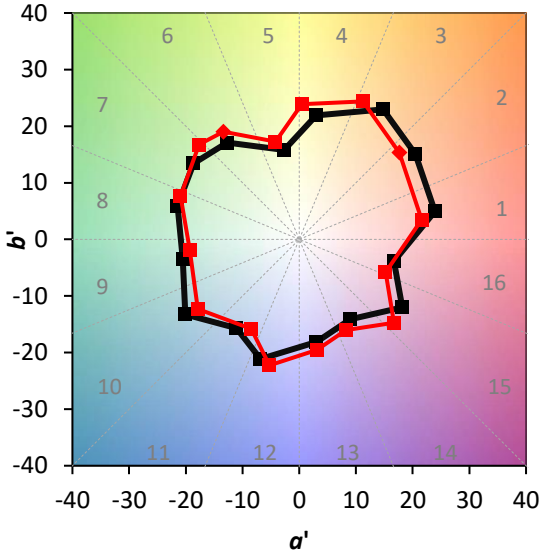
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

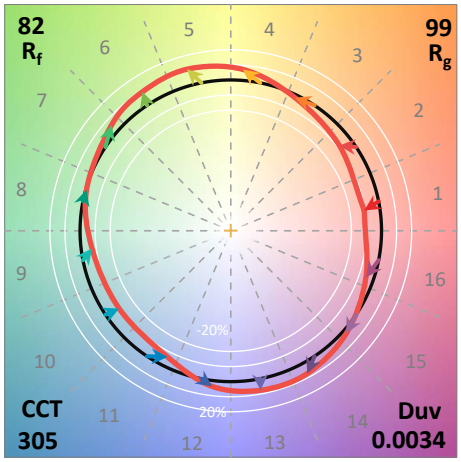
Spectral Power Distribution Comparison

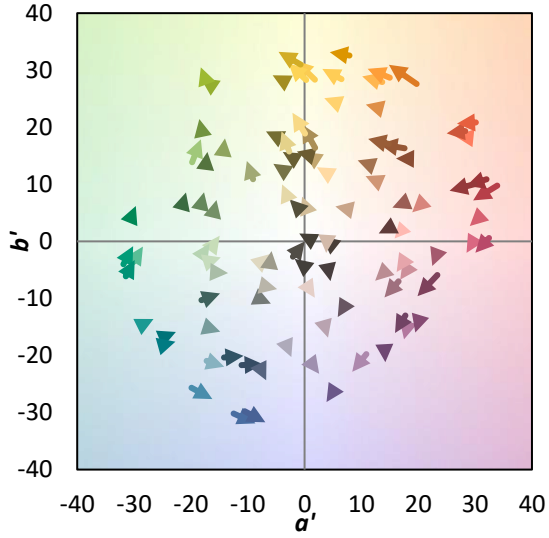


Color Vector Graphics







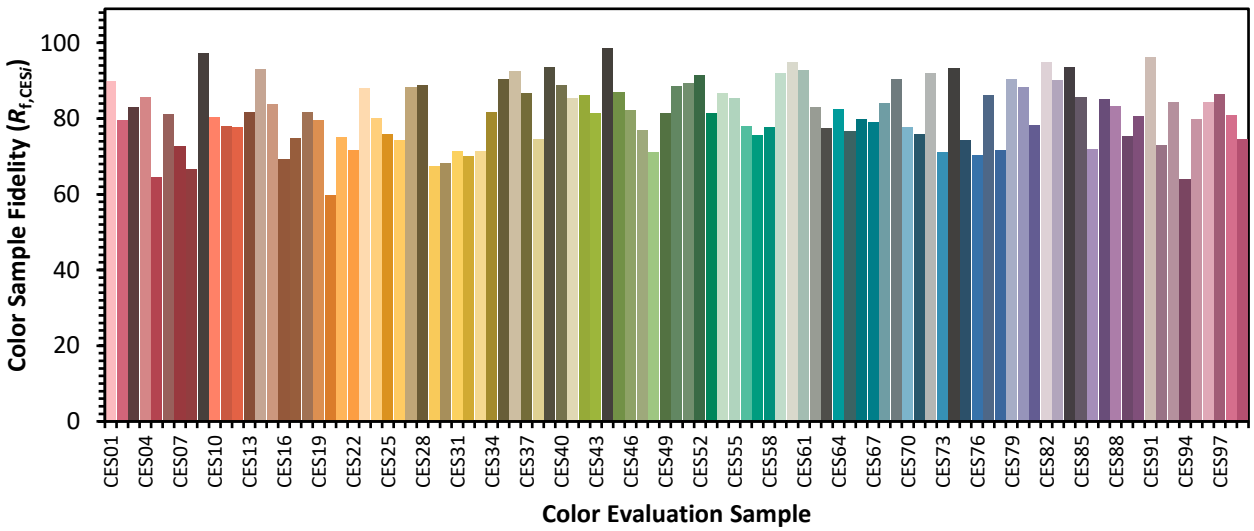


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

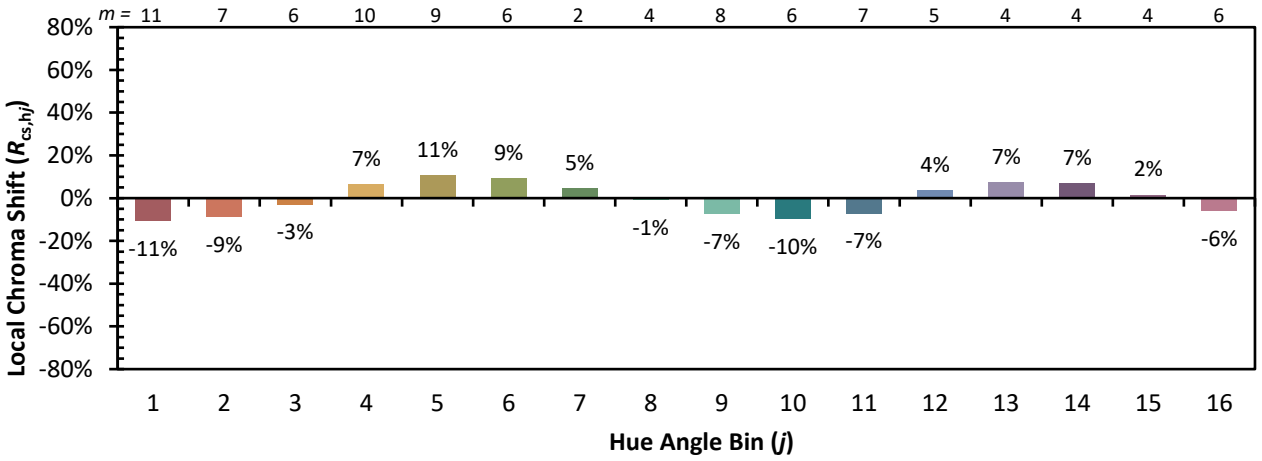
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

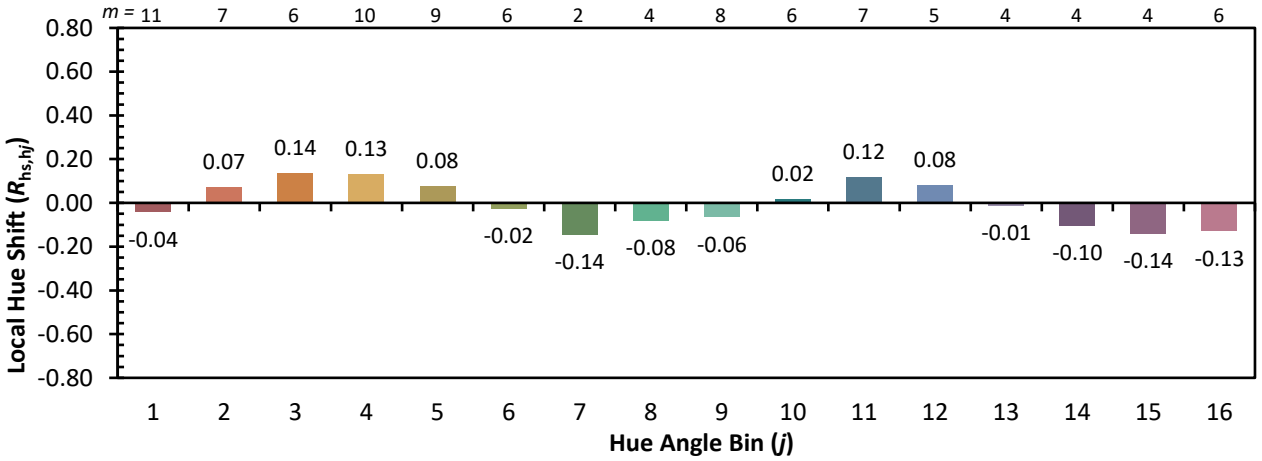


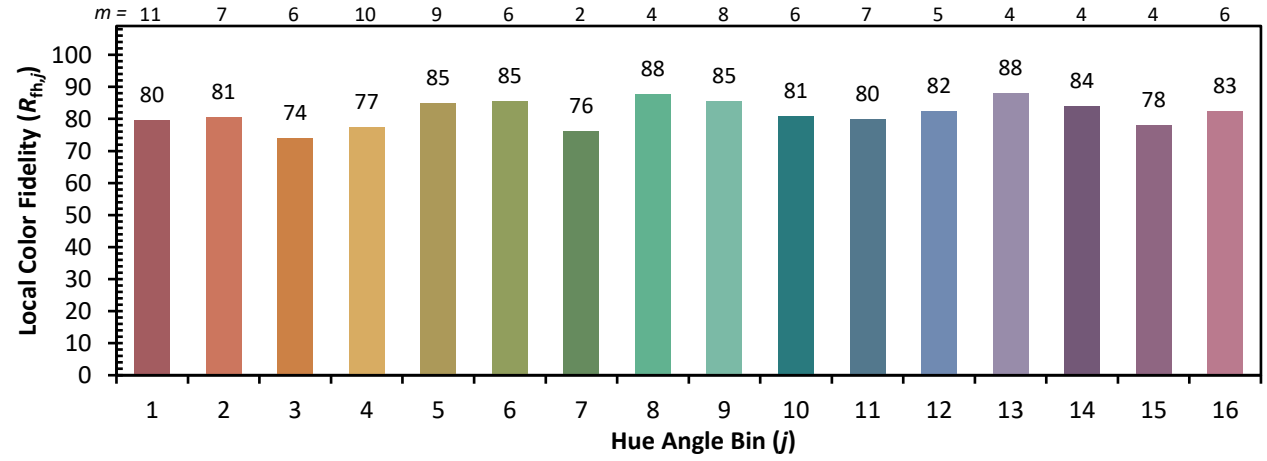
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



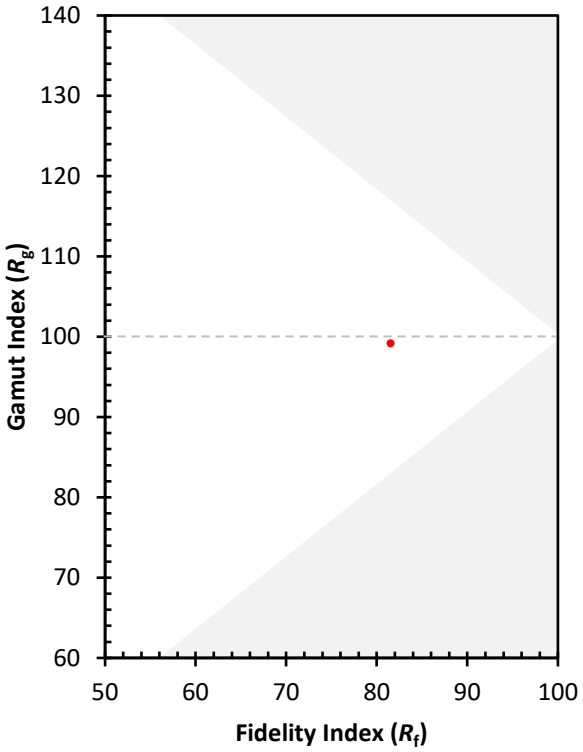


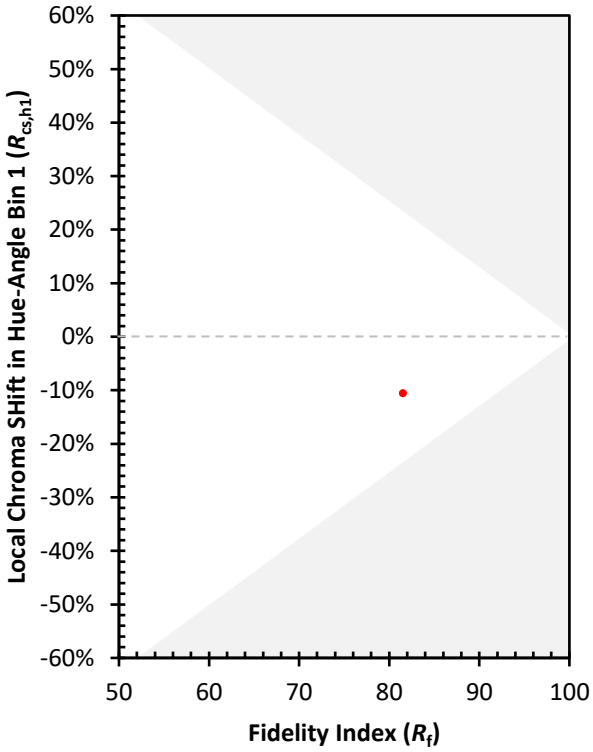


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)