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: P635034

Luminaire Tested: GWS-SA3C-830-U-T3-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:	P635034
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA3C-830-U-T3-W
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11088.9 lumens
Efficiency:	N/A
Efficacy:	119.2 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B2 - U0 - G2

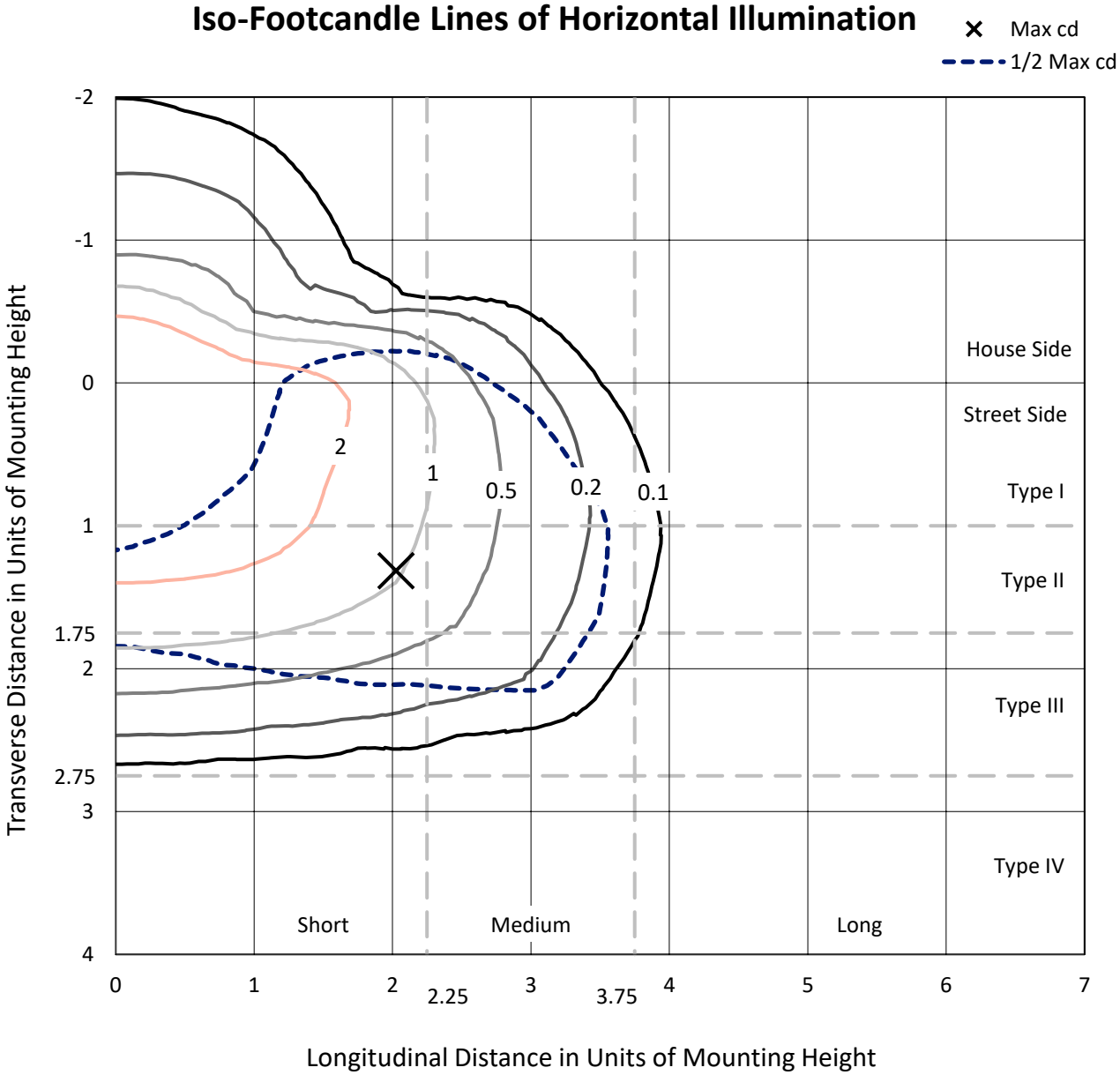
Input Watts (W):	93
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	0
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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

Scaled Data Report

REPORT NUMBER: P635034
CATALOG NUMBER: GWS-SA3C-830-U-T3-W

Iso-Footcandle Lines of Horizontal Illumination



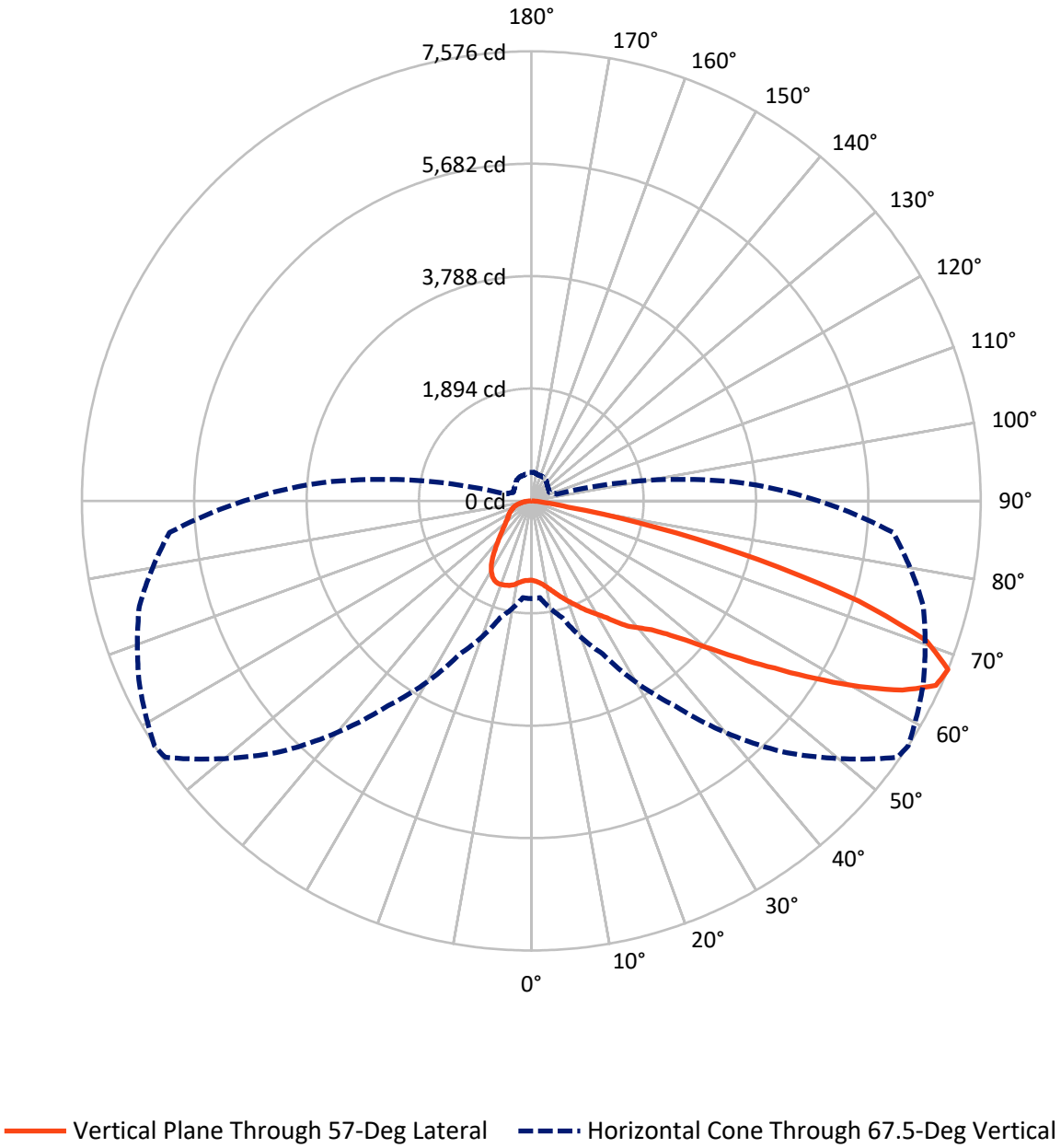
Based on 20 foot mounting height. Maximum calculated value = 3.9 fc
Type III - Short - N/A

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

Scaled Data Report

REPORT NUMBER: P635034
CATALOG NUMBER: GWS-SA3C-830-U-T3-W

Luminous Intensity Polar Plot



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

Scaled Data Report

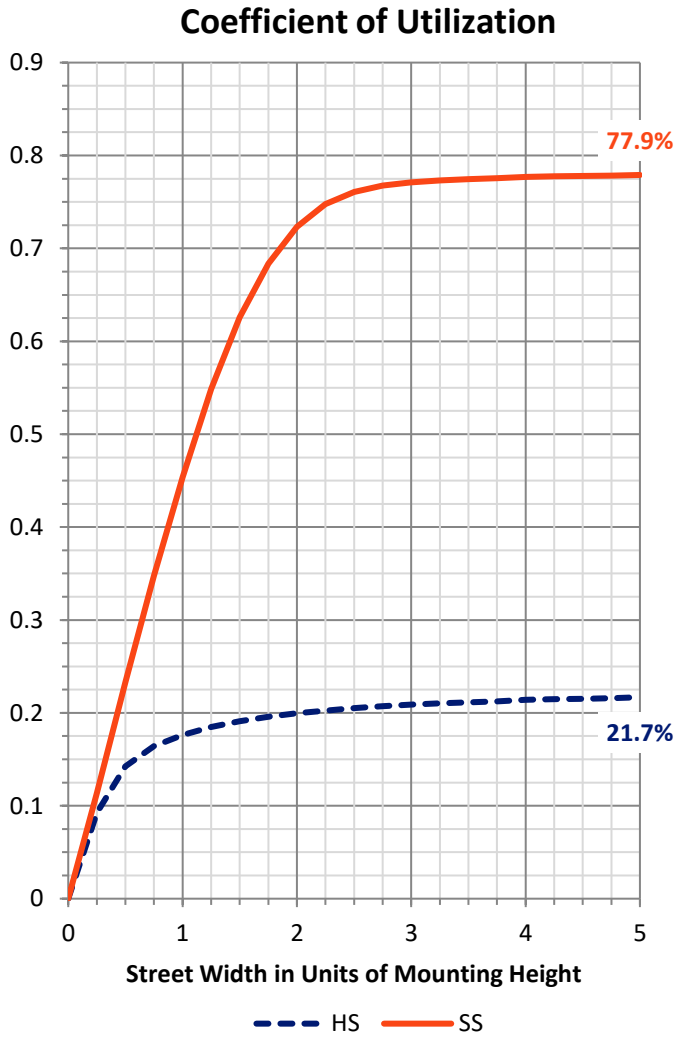
REPORT NUMBER: P635034
CATALOG NUMBER: GWS-SA3C-830-U-T3-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2438.0	0.0	2438.0
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	8650.9	0.0	8650.9
	% Fixture	78.0	0.0	78.0
Total	Lumens	11088.9	0.0	11088.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.5	1.2
10°-20°	438.7	4.0
20°-30°	782.1	7.1
30°-40°	1137.1	10.3
40°-50°	1645.8	14.8
50°-60°	2575.6	23.2
60°-70°	3004.6	27.1
70°-80°	1254.2	11.3
80°-90°	118.4	1.1
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°	11088.9	100.0
0°-180°	11088.9	100.0



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

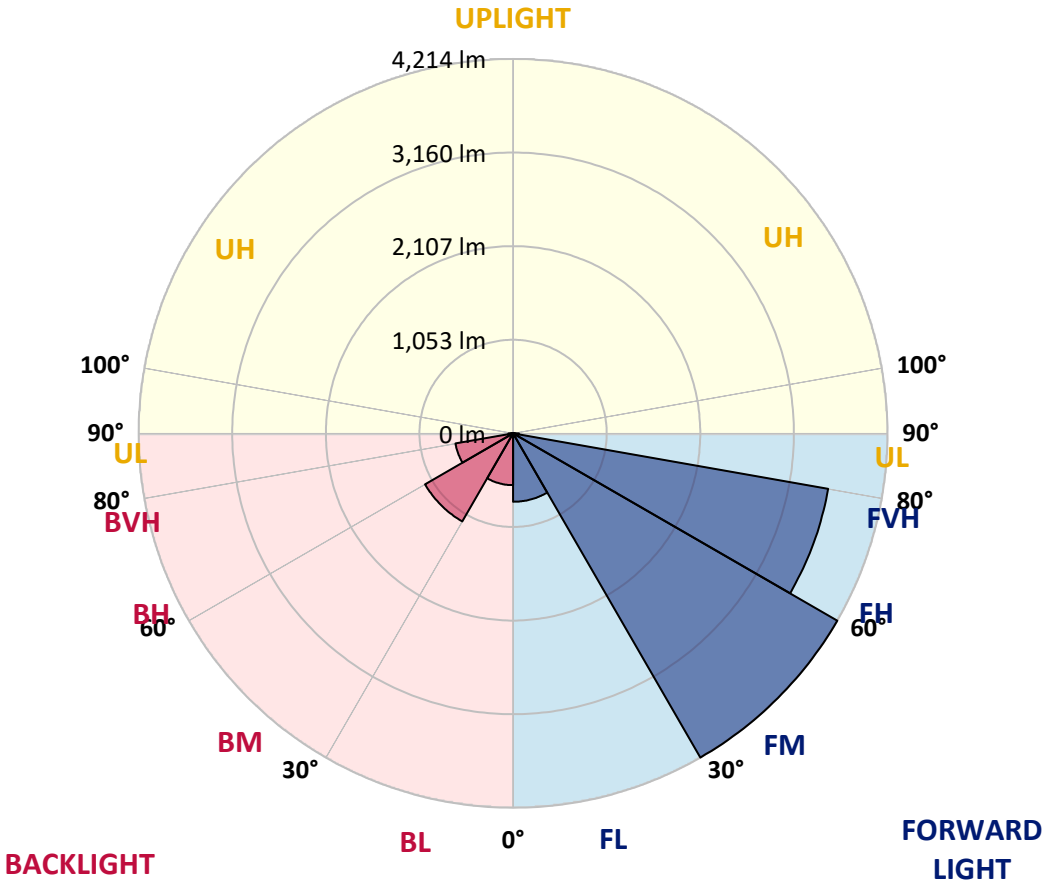
Scaled Data Report

REPORT NUMBER: P635034
CATALOG NUMBER: GWS-SA3C-830-U-T3-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	770.2	6.9			
FM	(30°-60°)	4213.9	38.0			
FH	(60°-80°)	3600.8	32.5			G2/5000
FVH	(80°-90°)	65.9	0.6			G1/100
BL	(0°-30°)	583.1	5.3	B2/1000		
BM	(30°-60°)	1144.5	10.3	B2/2500		
BH	(60°-80°)	658.0	5.9	B2/1000		G2/1000
BVH	(80°-90°)	52.4	0.5			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 III Short



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

Scaled Data Report

REPORT NUMBER: P635034
CATALOG NUMBER: GWS-SA3C-830-U-T3-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1
2.5°	1355.2	1353.6	1352.8	1357.6	1356.0	1355.2	1355.2	1354.4	1352.8	1346.5	1337.7
5°	1392.5	1389.4	1386.2	1390.2	1387.0	1383.8	1383.0	1381.4	1375.9	1366.3	1352.8
7.5°	1431.5	1428.3	1429.1	1431.5	1429.1	1427.5	1425.1	1423.5	1414.8	1399.7	1381.4
10°	1486.3	1486.3	1487.9	1490.2	1491.0	1488.7	1483.9	1481.5	1471.2	1452.1	1426.7
12.5°	1565.7	1564.1	1564.1	1562.5	1564.9	1562.5	1557.8	1553.8	1541.1	1516.5	1479.9
15°	1670.6	1664.2	1658.7	1648.3	1645.1	1636.4	1638.0	1635.6	1623.7	1590.3	1544.3
17.5°	1782.6	1781.8	1773.0	1752.4	1731.7	1717.4	1720.6	1719.8	1713.5	1668.2	1609.4
20°	1881.1	1885.0	1877.1	1861.2	1833.4	1806.4	1804.8	1808.8	1800.8	1755.6	1673.7
22.5°	1991.5	1988.3	1980.4	1959.7	1939.1	1910.5	1900.9	1897.8	1894.6	1842.9	1739.7
25°	2096.4	2105.9	2095.6	2076.5	2044.7	2013.7	2005.8	2009.0	2000.2	1931.9	1810.4
27.5°	2229.0	2233.0	2226.6	2200.4	2173.4	2129.7	2114.6	2114.6	2111.4	2015.3	1866.0
30°	2370.4	2381.5	2370.4	2349.0	2321.2	2258.4	2225.8	2222.7	2213.1	2101.1	1931.1
32.5°	2512.6	2520.5	2512.6	2492.0	2460.2	2405.4	2358.5	2351.3	2338.6	2194.9	1997.9
35°	2638.9	2646.1	2644.5	2649.2	2623.0	2553.9	2525.3	2522.1	2488.8	2317.2	2088.4
37.5°	2777.1	2785.9	2774.0	2783.5	2773.2	2708.0	2699.3	2683.4	2635.7	2432.4	2183.7
40°	2934.4	2942.4	2923.3	2927.3	2915.4	2878.8	2834.3	2812.9	2742.2	2557.1	2333.9
42.5°	3102.8	3121.1	3129.8	3122.7	3094.9	3074.2	2996.4	2969.4	2910.6	2781.9	2580.9
45°	3346.7	3373.7	3386.4	3368.1	3356.2	3326.8	3231.5	3198.9	3168.0	3098.9	2925.7
47.5°	3609.6	3634.3	3674.8	3682.7	3692.3	3670.0	3535.8	3504.0	3509.5	3501.6	3349.9
50°	3819.3	3840.0	3931.4	4029.1	4110.1	4116.4	3944.9	3910.7	3940.9	3966.3	3860.7
52.5°	3971.9	3990.1	4110.9	4312.7	4496.2	4632.0	4446.9	4408.0	4432.6	4489.8	4441.3
55°	4095.8	4121.2	4247.5	4557.3	4928.3	5142.8	5024.4	4975.2	4964.8	5035.5	5063.3
57.5°	4160.9	4168.9	4346.0	4748.8	5245.3	5644.0	5695.7	5640.1	5541.6	5580.5	5725.1
60°	4012.4	4025.9	4268.2	4798.0	5495.5	6141.3	6400.3	6354.2	6144.5	6165.9	6325.6
62.5°	3601.7	3620.8	3912.3	4563.7	5516.1	6473.4	7050.9	7021.5	6740.3	6624.3	6671.9
65°	2889.1	2895.5	3197.4	3983.8	5105.4	6514.7	7504.5	7497.3	7156.5	6884.8	6680.7
67.5°	1647.5	1636.4	2040.0	2841.5	4213.4	5977.7	7533.8	7575.9	7291.6	6841.9	6124.6
70°	714.1	715.7	901.6	1402.1	2727.1	4831.4	6997.6	7069.9	6900.7	6127.8	4872.7
72.5°	330.5	335.2	415.5	606.9	1164.6	2997.2	5706.0	5771.1	5625.8	4904.5	3545.3
75°	233.5	237.5	277.2	347.9	535.4	1167.7	3817.0	3953.6	4024.3	3668.4	2336.3
77.5°	177.1	182.7	202.6	241.5	330.5	413.9	1826.3	2152.0	2563.4	2282.2	1203.5
80°	112.8	112.8	134.2	161.3	201.8	215.3	527.5	625.2	1254.3	940.5	472.7
82.5°	76.3	78.6	91.4	102.5	116.0	122.3	226.4	241.5	362.2	320.1	194.6
85°	40.5	42.1	47.7	46.9	55.6	48.5	95.3	94.5	132.7	145.4	73.9
87.5°	0.0	0.0	0.8	0.8	1.6	2.4	10.3	11.1	27.8	44.5	24.6
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: P635034
CATALOG NUMBER: GWS-SA3C-830-U-T3-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1	1336.1
2.5°	1342.5	1333.0	1337.7	1336.1	1340.9	1340.9	1332.2	1329.8	1330.6	1321.0	1317.9
5°	1354.4	1343.3	1345.7	1342.5	1347.3	1351.2	1347.3	1347.3	1352.0	1344.9	1340.9
7.5°	1381.4	1368.7	1368.7	1364.7	1370.3	1373.5	1370.3	1375.1	1383.8	1376.7	1372.7
10°	1424.3	1409.2	1410.0	1405.2	1407.6	1406.0	1393.3	1389.4	1391.7	1385.4	1382.2
12.5°	1479.9	1459.3	1459.3	1449.7	1444.2	1427.5	1401.3	1391.7	1393.3	1387.8	1385.4
15°	1533.1	1514.1	1510.1	1491.0	1465.6	1434.6	1410.8	1404.5	1406.0	1400.5	1396.5
17.5°	1595.9	1571.3	1557.0	1522.0	1475.2	1443.4	1419.5	1404.5	1391.7	1379.0	1375.9
20°	1653.9	1622.9	1596.7	1542.7	1485.5	1441.8	1397.3	1360.0	1329.0	1312.3	1308.3
22.5°	1713.5	1673.7	1627.7	1557.0	1484.7	1413.2	1331.4	1275.0	1228.9	1204.3	1209.0
25°	1769.9	1719.8	1657.1	1570.5	1459.3	1349.6	1238.4	1154.2	1101.8	1082.7	1077.2
27.5°	1816.7	1754.8	1684.1	1564.1	1406.8	1258.3	1111.3	1017.6	966.8	945.3	939.7
30°	1869.2	1799.3	1723.0	1534.7	1324.2	1130.4	967.5	891.3	854.7	834.1	834.9
32.5°	1929.5	1856.5	1777.8	1478.3	1218.6	992.2	849.2	796.8	767.4	746.7	743.5
35°	2010.6	1938.3	1814.4	1393.3	1084.3	865.1	768.2	725.3	688.7	661.7	656.2
37.5°	2110.7	2061.4	1818.3	1279.7	940.5	777.7	710.2	664.1	619.6	583.9	579.9
40°	2282.2	2225.8	1785.8	1137.5	818.2	721.3	661.7	608.5	556.9	517.1	511.6
42.5°	2526.9	2410.9	1715.8	977.1	726.1	676.8	615.6	548.1	495.7	467.9	463.9
45°	2838.3	2617.5	1611.0	826.1	657.7	633.1	567.2	496.5	468.7	448.8	444.8
47.5°	3219.6	2858.2	1490.2	708.6	604.5	593.4	517.9	479.0	454.4	437.7	433.7
50°	3675.6	3164.8	1390.9	616.4	556.9	547.3	502.0	468.7	448.8	435.3	432.1
52.5°	4195.9	3505.6	1342.5	550.5	515.5	506.0	496.5	466.3	449.6	439.3	435.3
55°	4736.1	3864.6	1297.2	499.7	480.6	486.2	497.3	474.2	461.5	448.0	444.1
57.5°	5258.0	4201.4	1186.0	459.9	455.2	476.6	501.2	482.2	467.1	453.6	448.8
60°	5617.8	4385.7	997.7	428.2	436.1	464.7	490.9	470.3	451.2	445.6	443.3
62.5°	5714.7	4363.5	774.5	395.6	413.1	438.5	463.9	450.4	430.6	439.3	440.1
65°	5488.3	4125.2	581.5	363.8	382.9	404.3	436.1	430.6	423.4	447.2	448.0
67.5°	*4847.3*	*3539.7*	*443.3*	*336.0*	*351.9*	*378.1*	*427.4*	*450.4*	*452.0*	*482.2*	*479.0*
70°	3667.6	2644.5	347.1	309.8	328.1	378.1	455.2	465.5	446.4	474.2	467.9
72.5°	2535.6	1745.2	295.5	286.8	298.7	360.6	454.4	454.4	433.7	433.7	421.8
75°	1575.2	1026.3	257.4	257.4	257.4	315.4	441.7	418.6	382.1	365.4	355.9
77.5°	777.7	498.9	216.1	224.0	215.3	263.7	360.6	342.4	320.1	302.7	296.3
80°	332.0	249.4	174.8	183.5	173.2	198.6	286.0	282.0	260.6	237.5	230.4
82.5°	152.5	128.7	139.8	143.8	126.3	149.3	208.9	208.9	197.0	165.2	153.3
85°	65.1	68.3	96.9	96.9	79.4	84.2	112.0	106.4	95.3	77.8	71.5
87.5°	22.2	33.4	49.3	42.9	16.7	7.1	4.0	1.6	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

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

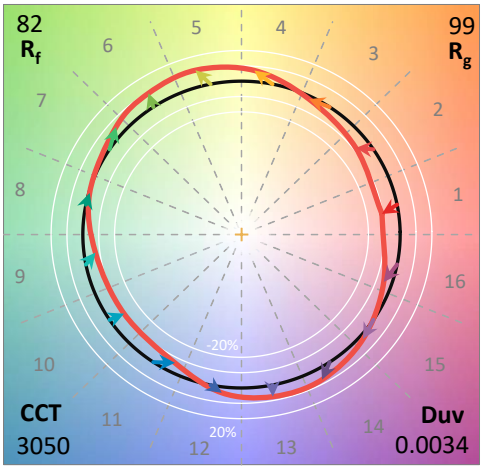
Test Information

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

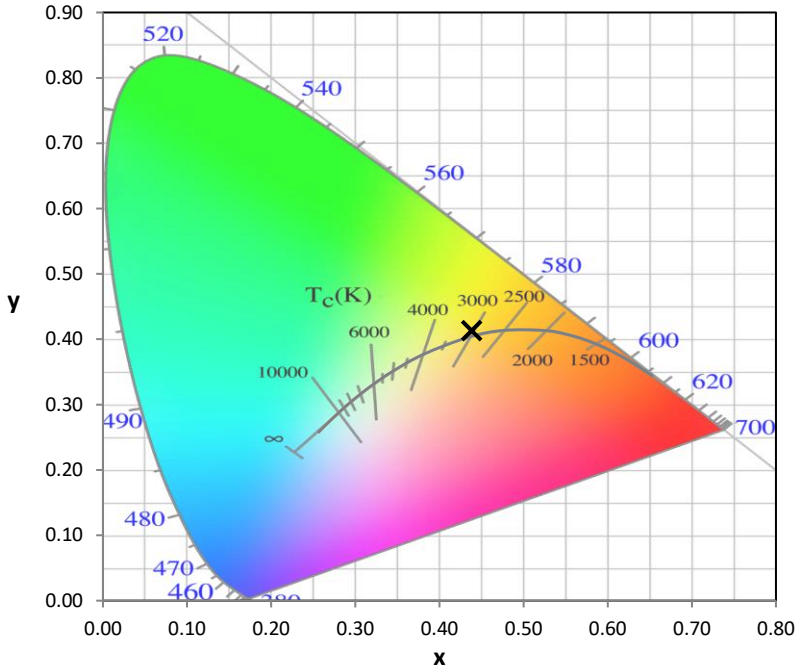
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

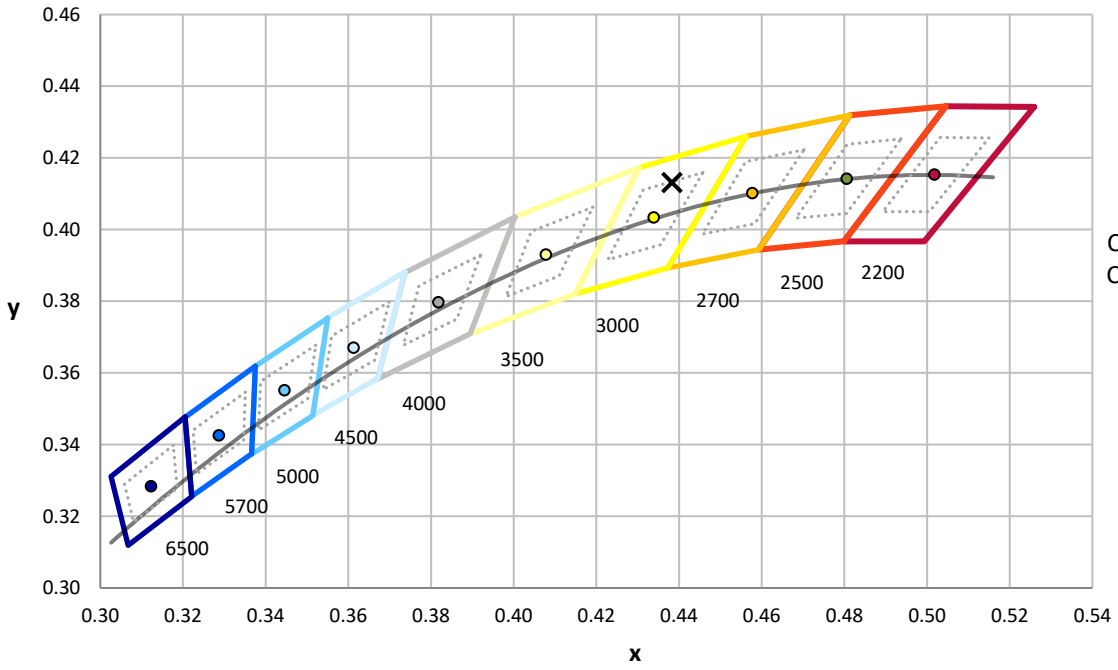
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

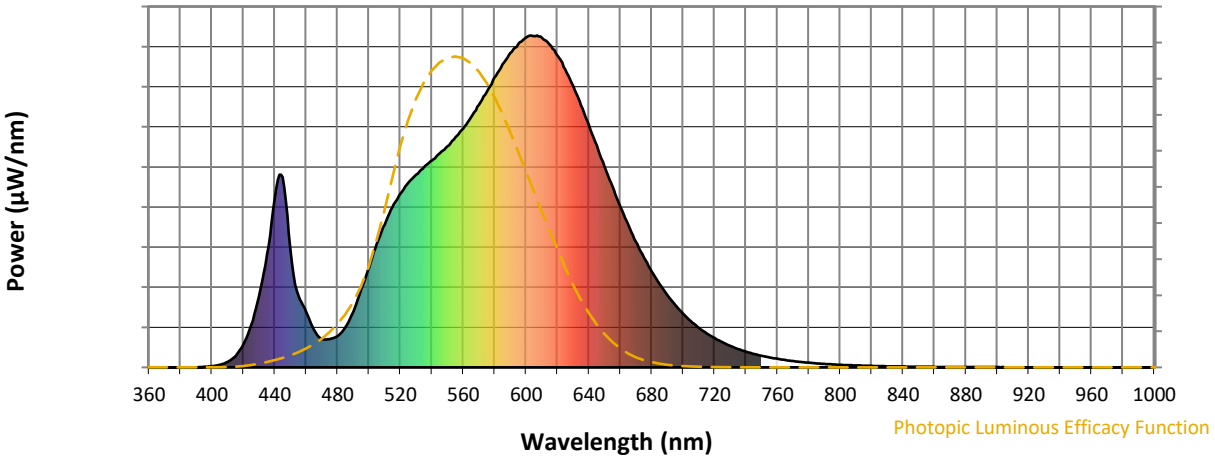


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

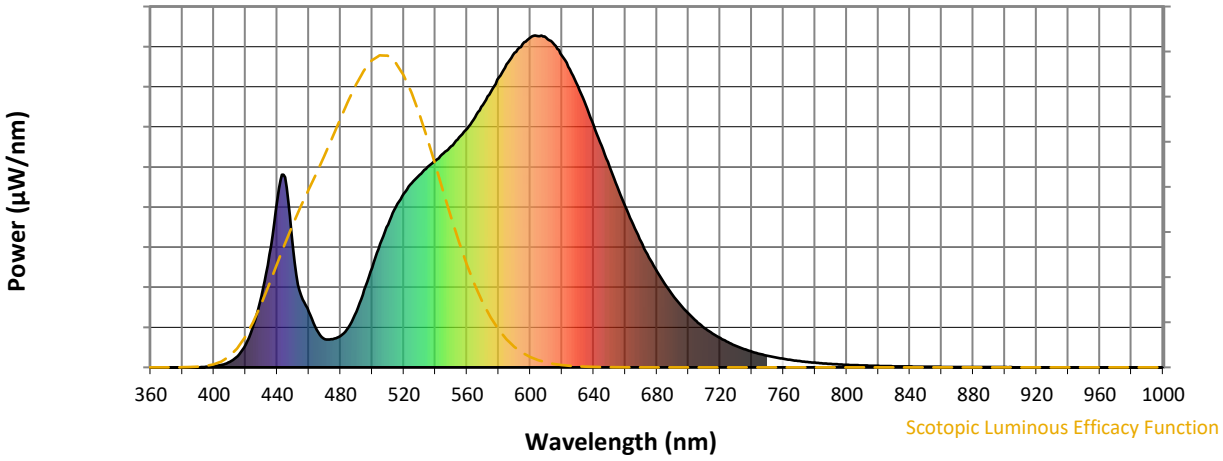


Photopic Lumens: NR

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

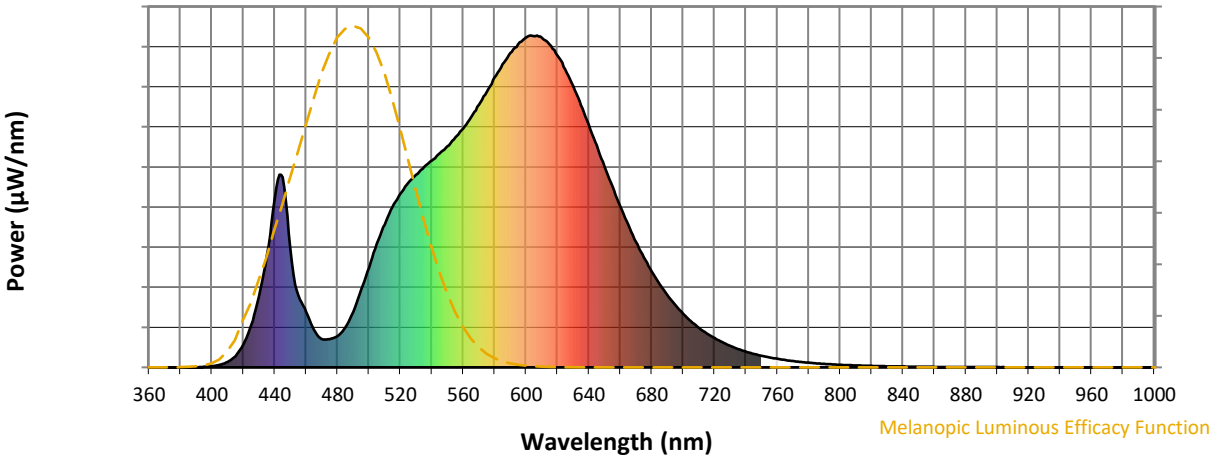


Scotopic Lumens: NR **S/P: 1.27**

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			

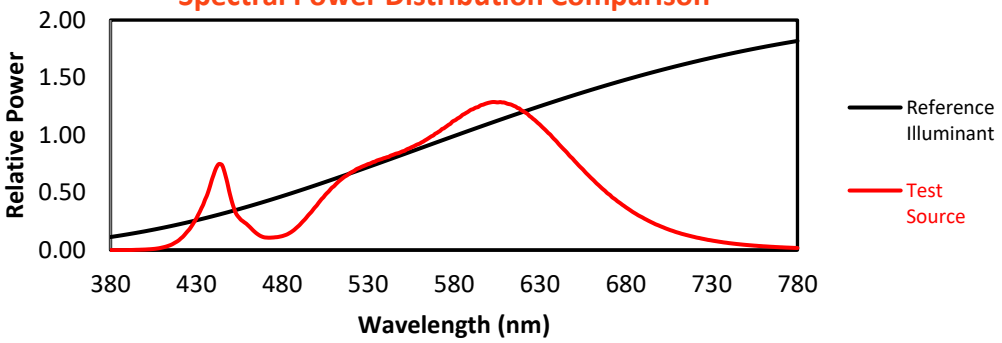
REPORT NUMBER: SP1-2408-195-9

TM-30-18

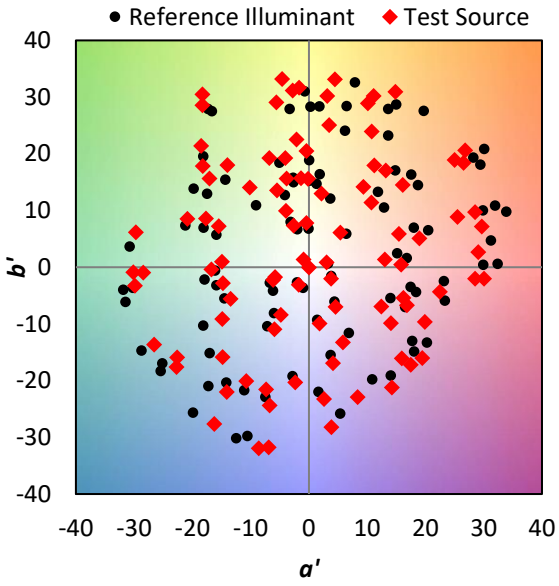
Summary

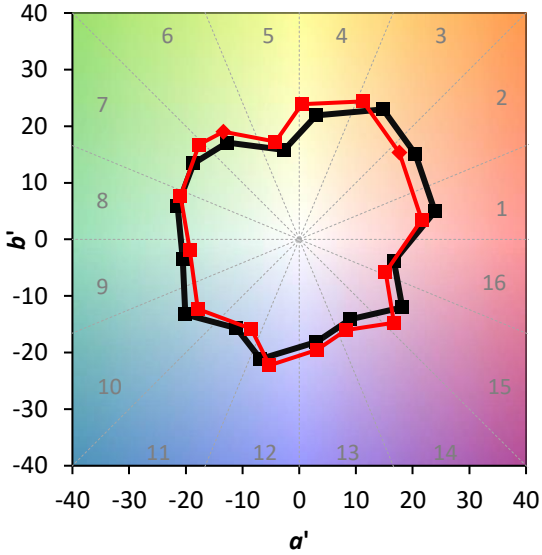
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

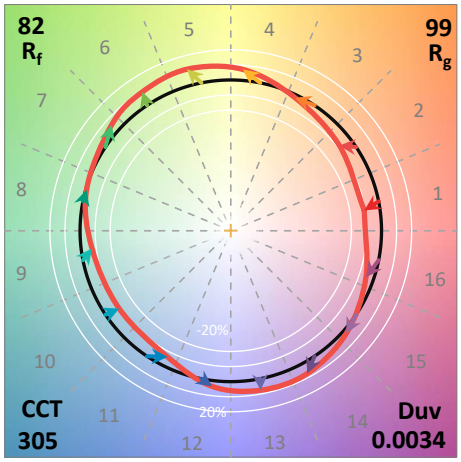
Spectral Power Distribution Comparison

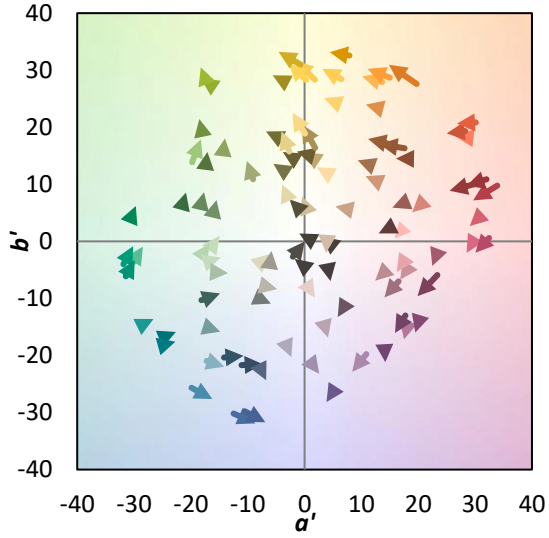


Color Vector Graphics







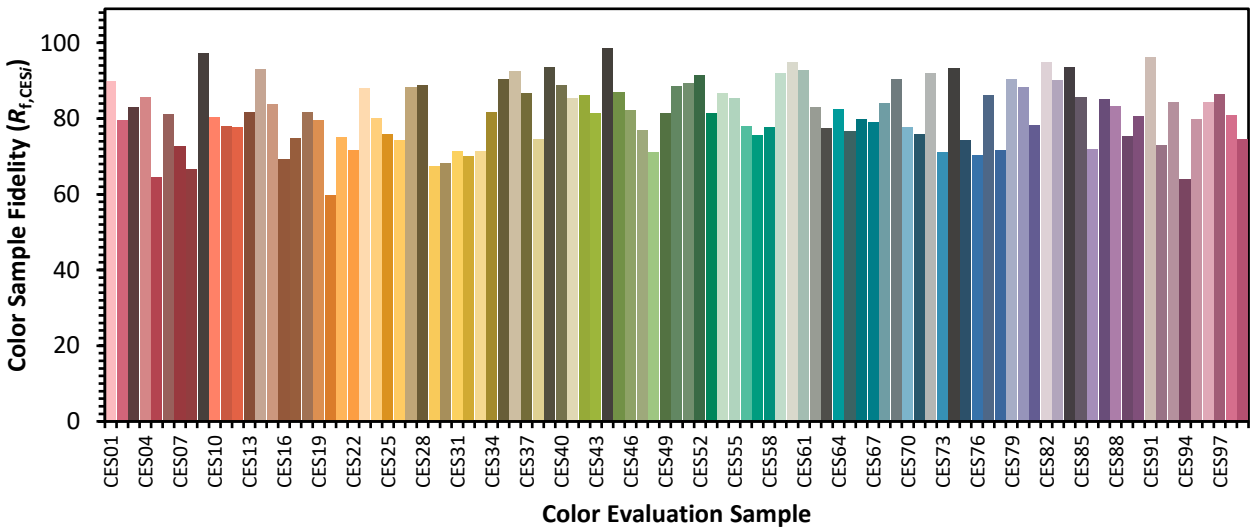


REPORT NUMBER: SP1-2408-195-9

TM-30-18

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

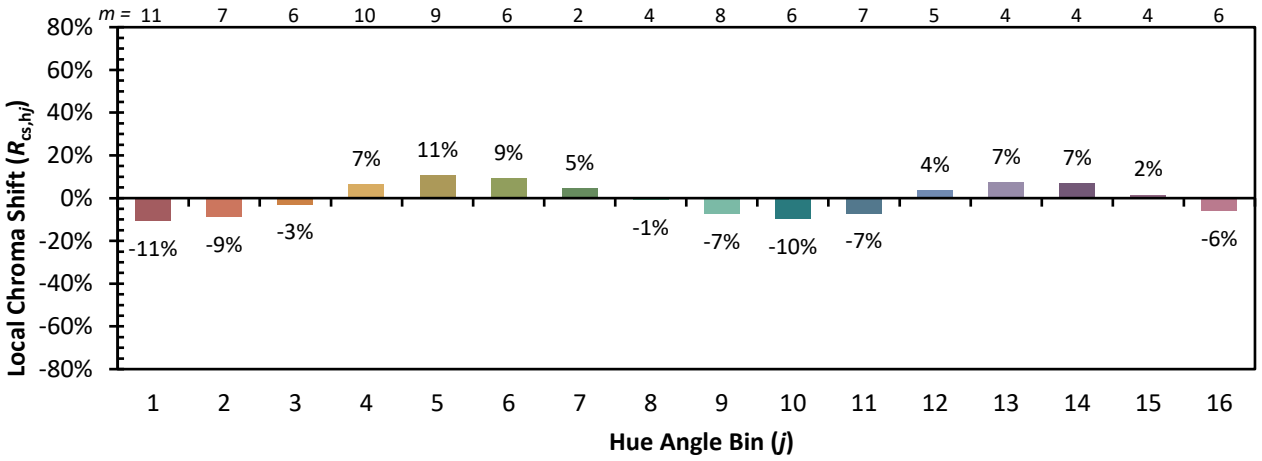
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

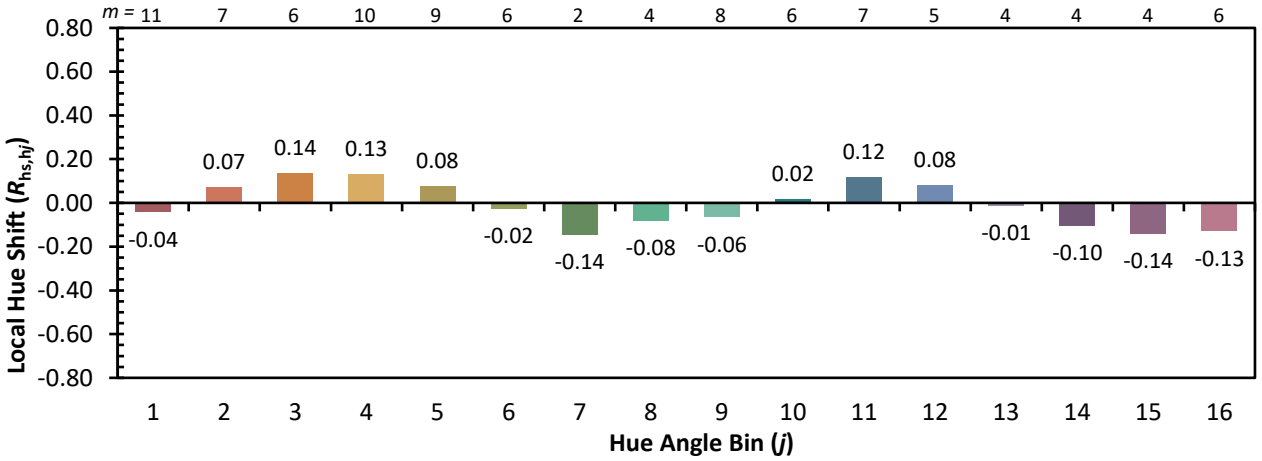


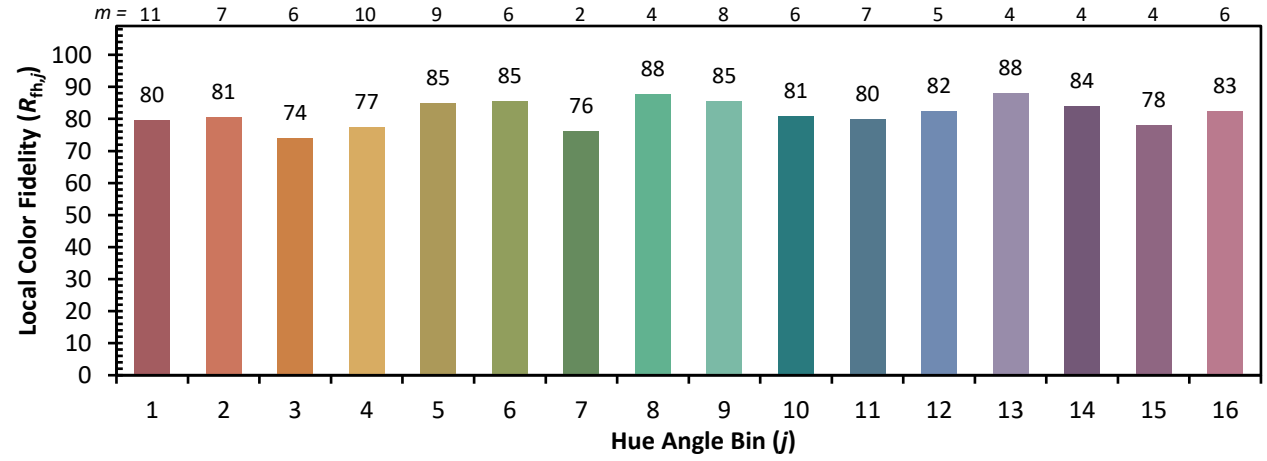
REPORT NUMBER: SP1-2408-195-9

TM-30-18

Color Rendition by Hue-Angle Bin



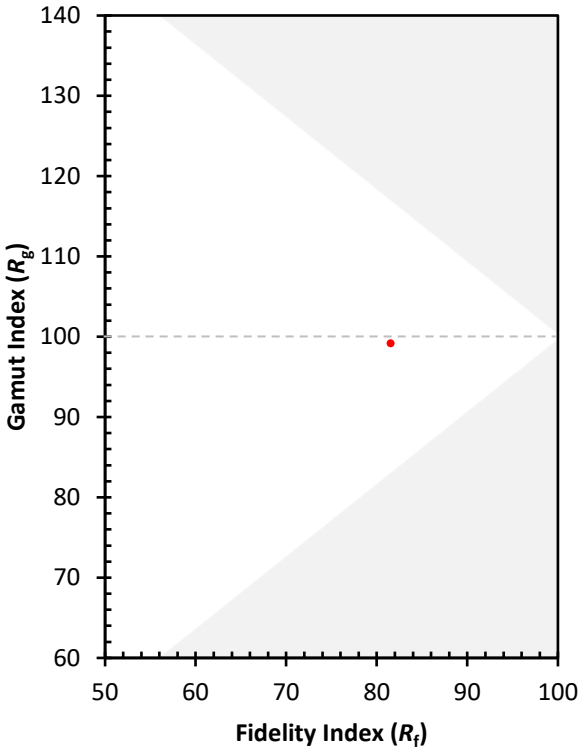


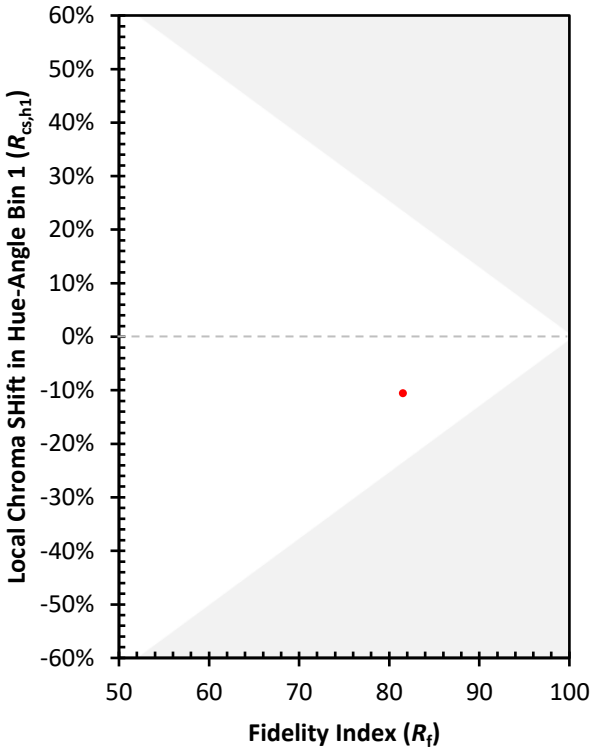


REPORT NUMBER: SP1-2408-195-9

TM-30-18

Measure Comparisons





(END OF REPORT)