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: P634506

Luminaire Tested: GWS-SA3B-830-U-RW-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:	P634506
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA3B-830-U-RW-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5355.3 lumens
Efficiency:	N/A
Efficacy:	78.4 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type V - Short
BUG Rating:	B2 - U0 - G0

Input Watts (W):	68.3
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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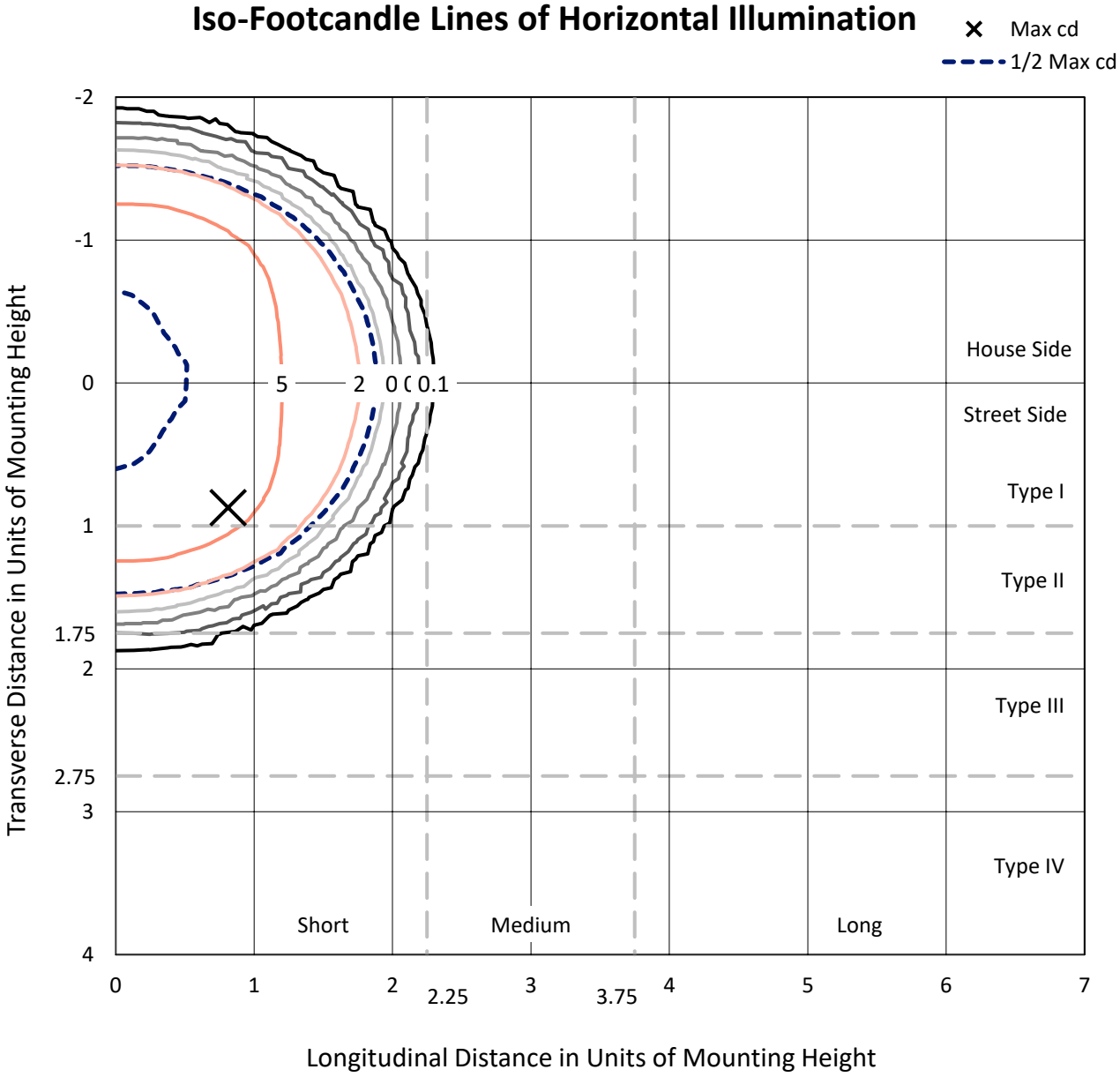
Scaled Data Report

REPORT NUMBER: P634506
CATALOG NUMBER: GWS-SA3B-830-U-RW-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 9.1 fc
Type V - Short - N/A

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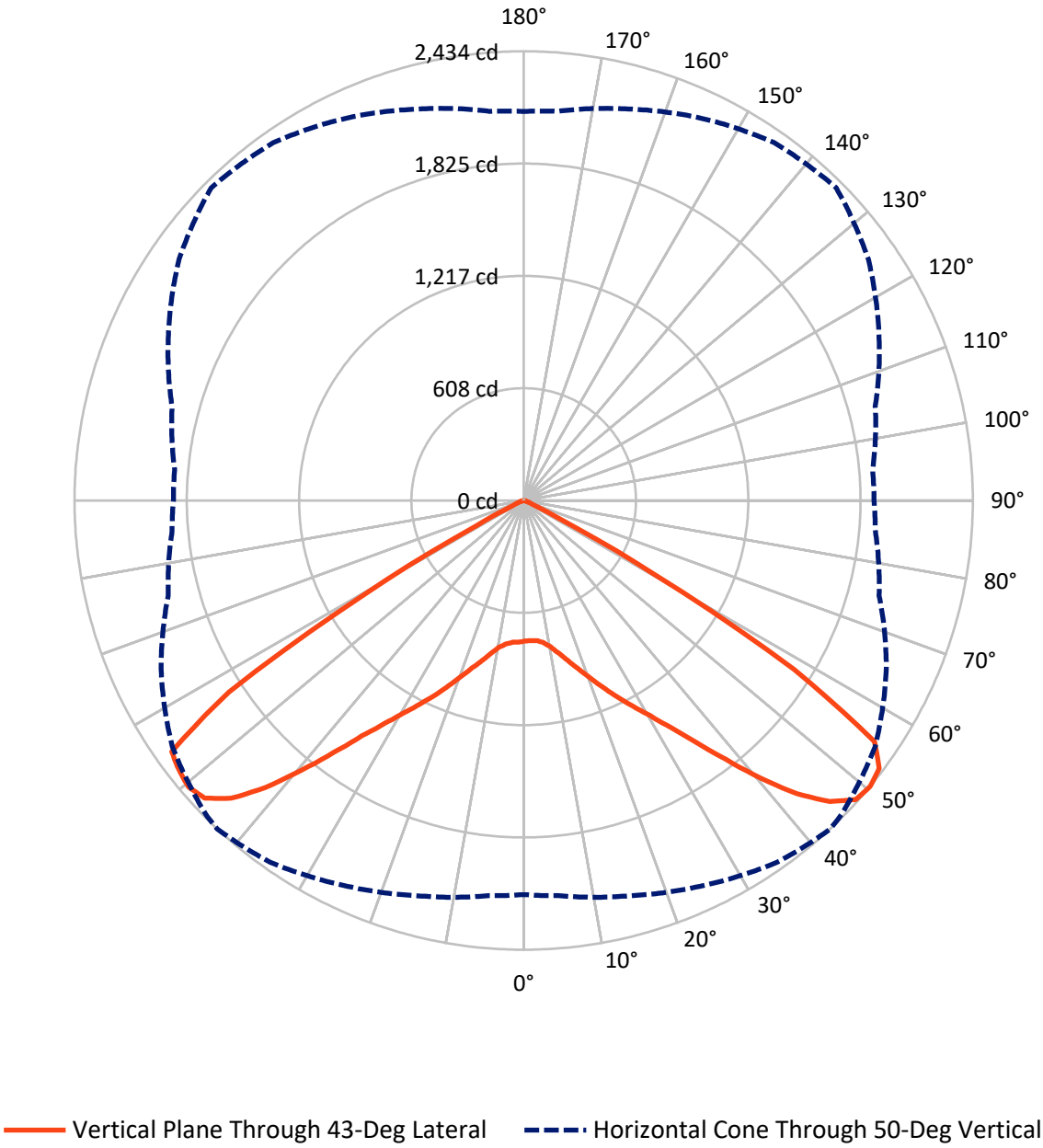
Luminous Intensity Polar Plot



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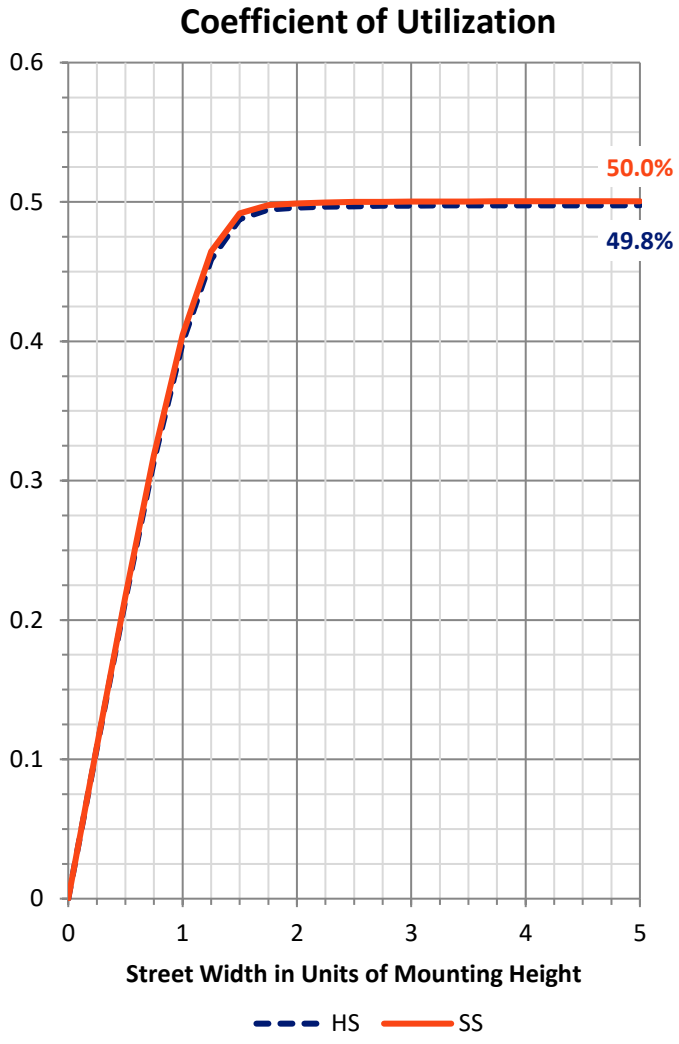
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2677.6	0.0	2677.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2677.7	0.0	2677.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	5355.3	0.0	5355.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.0	1.4
10°-20°	258.1	4.8
20°-30°	522.2	9.8
30°-40°	968.9	18.1
40°-50°	1608.4	30.0
50°-60°	1641.4	30.7
60°-70°	269.2	5.0
70°-80°	11.8	0.2
80°-90°	0.2	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°	5355.3	100.0
0°-180°	5355.3	100.0



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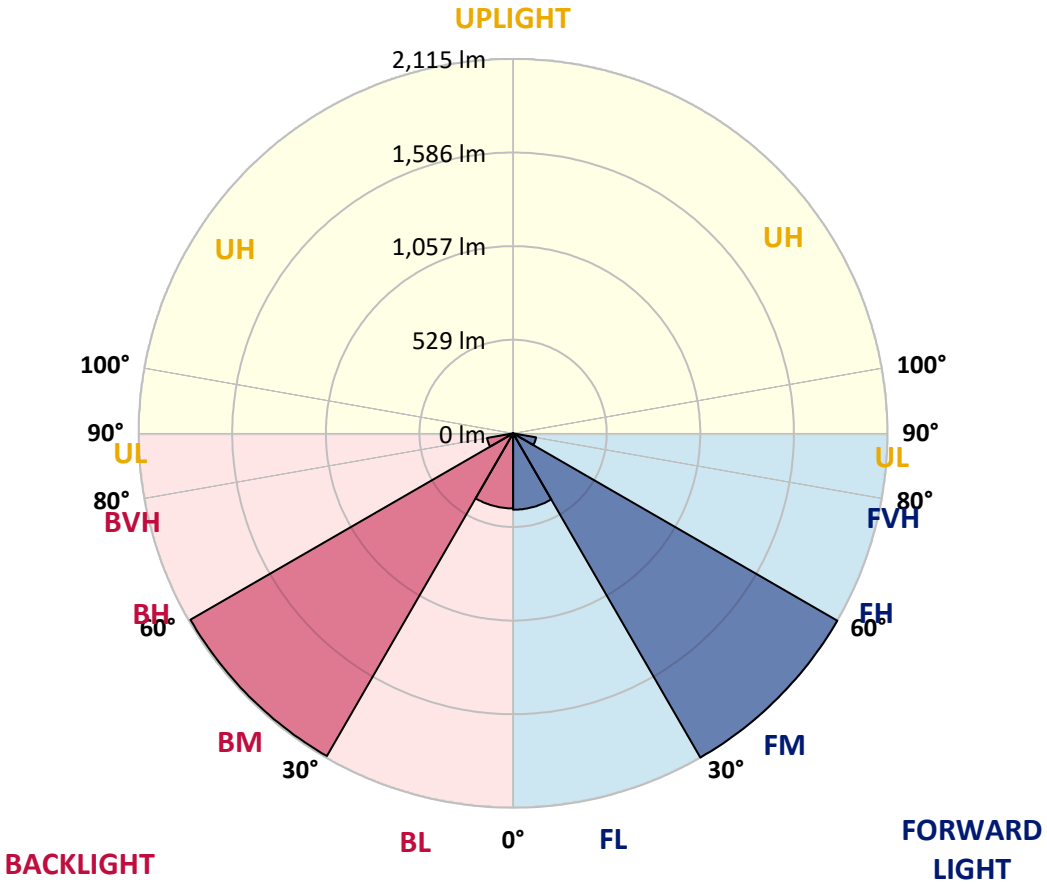
REPORT NUMBER: P634506
CATALOG NUMBER: GWS-SA3B-830-U-RW-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	431.4	8.1			
FM	(30°-60°)	2114.5	39.5			
FH	(60°-80°)	131.7	2.5			G0/660
FVH	(80°-90°)	0.1	0.0			G0/10
BL	(0°-30°)	423.9	7.9	B1/500		
BM	(30°-60°)	2104.3	39.3	B2/2500		
BH	(60°-80°)	149.3	2.8	B1/500		G0/660
BVH	(80°-90°)	0.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0
Type V Short



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Scaled Data Report

REPORT NUMBER: P634506
CATALOG NUMBER: GWS-SA3B-830-U-RW-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	761.7	761.7	761.7	761.7	761.7	*761.7*	761.7	761.7	761.7	761.7	761.7
2.5°	747.5	749.3	751.6	754.0	757.0	*759.9*	761.7	767.0	765.9	770.6	770.6
5°	739.2	741.0	743.9	749.3	755.8	*762.3*	767.0	777.7	783.6	793.1	796.7
7.5°	743.3	745.7	749.3	757.6	767.6	*777.7*	783.0	800.2	812.1	829.8	839.9
10°	757.0	759.3	765.3	779.5	792.5	*806.7*	813.2	835.2	854.1	878.4	892.6
12.5°	772.4	775.3	787.2	808.5	831.0	*850.0*	858.8	883.1	902.7	929.9	952.4
15°	788.4	793.1	811.5	842.9	874.8	*900.3*	909.8	935.8	955.4	984.4	1009.9
17.5°	825.7	831.0	851.7	885.5	929.3	*958.9*	967.2	994.5	1009.3	1028.8	1055.5
20°	872.5	882.5	908.0	948.9	996.9	*1025.3*	1031.2	1057.9	1056.7	1065.0	1088.1
22.5°	930.5	937.6	965.5	1014.0	1067.9	*1099.3*	1112.9	1124.2	1109.4	1102.3	1117.1
25°	990.9	999.2	1029.4	1082.7	1143.2	*1179.3*	1190.5	1199.4	1175.7	1149.1	1150.9
27.5°	1069.1	1075.0	1104.7	1161.5	1221.9	*1262.8*	1272.9	1288.3	1256.9	1214.2	1202.4
30°	1162.1	1168.0	1199.4	1259.2	1319.1	*1354.0*	1369.4	1388.4	1354.0	1300.7	1287.1
32.5°	1271.1	1277.0	1317.3	1378.9	1428.1	*1466.0*	1480.8	1500.9	1473.7	1413.8	1398.4
35°	1401.4	1405.0	1452.3	1519.3	1571.4	*1608.1*	1618.2	1641.9	1611.7	1551.8	1543.6
37.5°	1552.4	1556.6	1608.1	1685.7	1739.0	*1779.9*	1795.9	1802.4	1765.7	1698.7	1692.2
40°	1718.3	1731.9	1782.3	1865.8	1925.6	*1977.1*	1991.3	1969.4	1917.9	1826.7	1814.8
42.5°	1891.2	1903.1	1959.4	2050.0	2119.3	*2172.0*	2172.6	2125.2	2037.5	1911.4	1893.6
45°	2035.2	2039.9	2112.8	2204.0	2289.3	*2326.6*	2330.1	2244.3	2112.2	1960.5	1922.6
47.5°	2134.1	2141.8	2205.2	2292.8	2387.0	*2420.8*	2413.7	2306.4	2147.7	1992.5	1929.7
50°	*2135.3*	*2148.3*	*2217.0*	*2301.7*	*2392.9*	*2433.8*	*2423.7*	*2324.2*	*2167.8*	*1993.7*	*1912.6*
52.5°	1946.3	1967.6	2079.6	2202.2	2342.0	*2411.9*	2414.2	2347.3	2160.1	1974.8	1897.2
55°	1468.3	1491.4	1632.4	1841.5	2111.6	*2306.4*	2340.2	2320.1	2151.3	1983.0	1924.4
57.5°	777.1	759.3	837.5	1044.8	1384.2	*1728.9*	1827.9	1989.0	2052.3	1993.1	1974.8
60°	169.4	180.7	240.5	324.0	540.2	*813.2*	909.8	1185.8	1513.9	1659.6	1765.1
62.5°	72.9	71.7	74.6	84.7	123.8	*206.1*	251.7	411.1	648.6	890.8	1054.9
65°	59.8	60.4	62.8	62.8	58.6	*59.2*	62.2	94.2	151.6	212.6	285.5
67.5°	45.0	45.6	49.8	50.9	48.0	*42.6*	42.1	35.5	37.3	46.8	48.6
70°	28.4	28.4	30.8	32.0	32.0	*29.6*	29.0	25.5	24.9	28.4	32.0
72.5°	15.4	15.4	16.6	17.2	16.6	*16.0*	16.0	15.4	14.8	17.2	21.9
75°	6.5	6.5	7.1	7.1	6.5	*6.5*	6.5	6.5	6.5	7.7	11.8
77.5°	1.2	1.8	2.4	1.8	1.2	*1.2*	1.2	1.8	1.8	2.4	3.6
80°	0.6	0.6	1.2	0.6	0.0	*0.0*	0.0	0.0	0.6	0.6	0.6
82.5°	0.6	0.6	0.6	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0	0.6
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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Scaled Data Report

REPORT NUMBER: P634506
CATALOG NUMBER: GWS-SA3B-830-U-RW-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	761.7	761.7	761.7	761.7	761.7	761.7	761.7	761.7	761.7	761.7	761.7
2.5°	774.7	768.2	770.6	771.8	770.0	768.8	762.3	760.5	757.6	752.8	751.6
5°	800.8	795.5	794.9	791.3	783.0	773.0	760.5	755.2	749.3	743.3	742.2
7.5°	844.6	838.1	834.0	822.1	803.2	787.2	766.4	755.2	747.5	739.8	738.0
10°	900.9	893.2	881.4	859.4	834.0	810.9	786.6	771.8	759.9	749.3	748.7
12.5°	960.7	952.4	931.1	903.3	872.5	851.1	820.3	799.6	781.8	765.9	764.1
15°	1023.5	1013.4	984.4	951.2	922.8	900.9	867.1	834.0	806.7	783.6	781.3
17.5°	1071.5	1059.0	1024.7	999.8	976.7	954.2	916.3	872.5	836.3	808.5	802.0
20°	1101.7	1089.8	1057.3	1043.6	1033.0	1017.0	972.0	926.4	886.1	851.7	845.8
22.5°	1130.7	1116.5	1088.1	1088.1	1096.4	1089.8	1041.3	989.2	941.8	902.1	893.2
25°	1163.3	1152.0	1131.9	1148.5	1169.2	1168.6	1118.9	1053.7	999.2	954.8	945.9
27.5°	1210.7	1199.4	1192.3	1223.7	1249.8	1248.0	1193.5	1123.0	1065.6	1021.7	1013.4
30°	1294.2	1283.5	1275.8	1313.7	1346.9	1334.5	1274.6	1206.5	1148.5	1098.7	1092.8
32.5°	1405.5	1394.3	1384.2	1422.1	1451.7	1435.8	1378.9	1314.9	1248.0	1199.4	1187.6
35°	1551.8	1528.2	1518.1	1563.1	1575.5	1557.8	1503.3	1447.0	1375.9	1320.3	1312.6
37.5°	1702.9	1675.0	1667.9	1707.0	1727.2	1720.7	1656.7	1598.0	1521.0	1459.4	1450.6
40°	1832.0	1806.5	1794.1	1855.1	1900.7	1904.9	1847.4	1775.7	1685.1	1621.1	1605.2
42.5°	1907.8	1885.9	1882.9	1977.7	2052.3	2105.7	2036.9	1962.9	1867.5	1795.3	1782.3
45°	1925.0	1910.8	1935.7	2060.0	2176.1	2273.3	2214.6	2136.5	2033.4	1957.0	1944.5
47.5°	1923.2	1918.5	1962.9	2102.7	2249.6	2369.2	2340.2	2252.0	2152.4	2072.5	2060.6
50°	*1897.8*	*1898.3*	*1972.4*	*2124.0*	*2279.2*	*2395.3*	*2366.3*	*2284.5*	*2195.7*	*2116.9*	*2107.4*
52.5°	1887.7	1884.1	1954.6	2117.5	2309.4	2383.4	2318.3	2226.5	2127.6	2030.4	2016.2
55°	1923.2	1914.3	1957.0	2112.2	2313.0	2376.9	2205.2	2006.1	1803.6	1688.7	1679.2
57.5°	1976.5	1967.1	1987.2	2073.1	2127.6	1976.5	1622.9	1301.9	1093.4	1005.1	966.6
60°	1765.1	1758.6	1743.2	1639.5	1406.1	1060.8	722.6	460.8	331.1	267.7	267.7
62.5°	1095.2	1086.3	1002.8	745.1	541.4	313.3	172.4	107.8	81.7	76.4	75.8
65°	307.4	305.6	252.9	178.9	113.7	70.5	62.2	63.4	62.2	60.4	59.8
67.5°	46.2	50.9	50.9	41.5	39.7	44.4	52.1	55.7	52.7	49.8	48.6
70°	29.6	32.0	30.8	26.7	28.4	33.2	37.3	37.9	36.1	33.2	32.6
72.5°	20.7	23.1	19.0	17.2	17.8	19.5	21.3	21.3	20.7	19.5	18.4
75°	12.4	12.4	8.9	8.3	8.3	8.9	8.9	10.1	10.1	9.5	8.9
77.5°	4.1	4.7	3.0	2.4	2.4	2.4	3.0	3.6	3.6	3.0	2.4
80°	0.6	1.2	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	0.6
82.5°	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
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

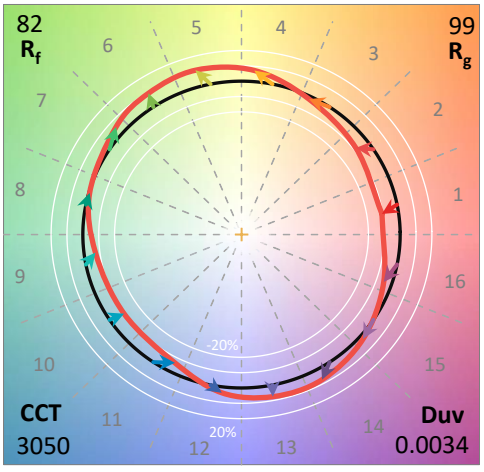
Test Information

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

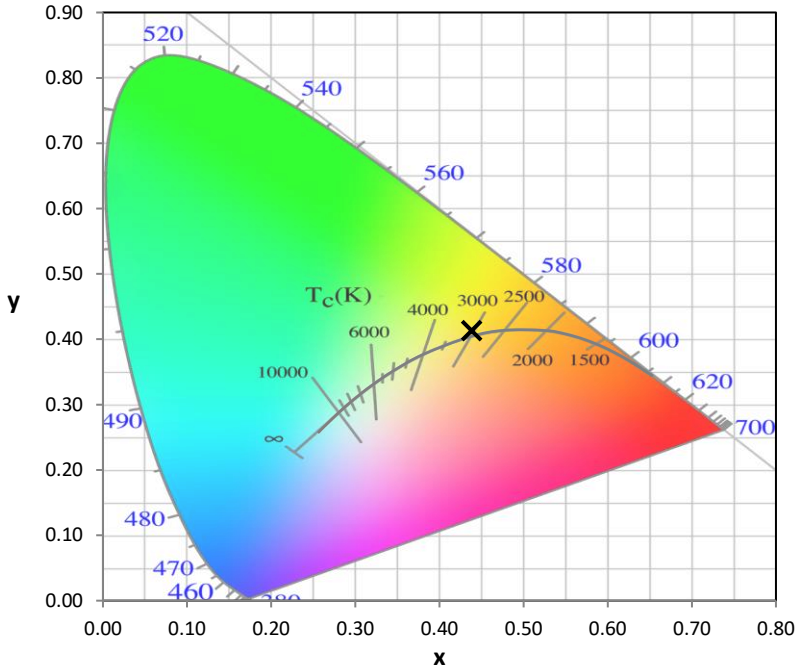
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

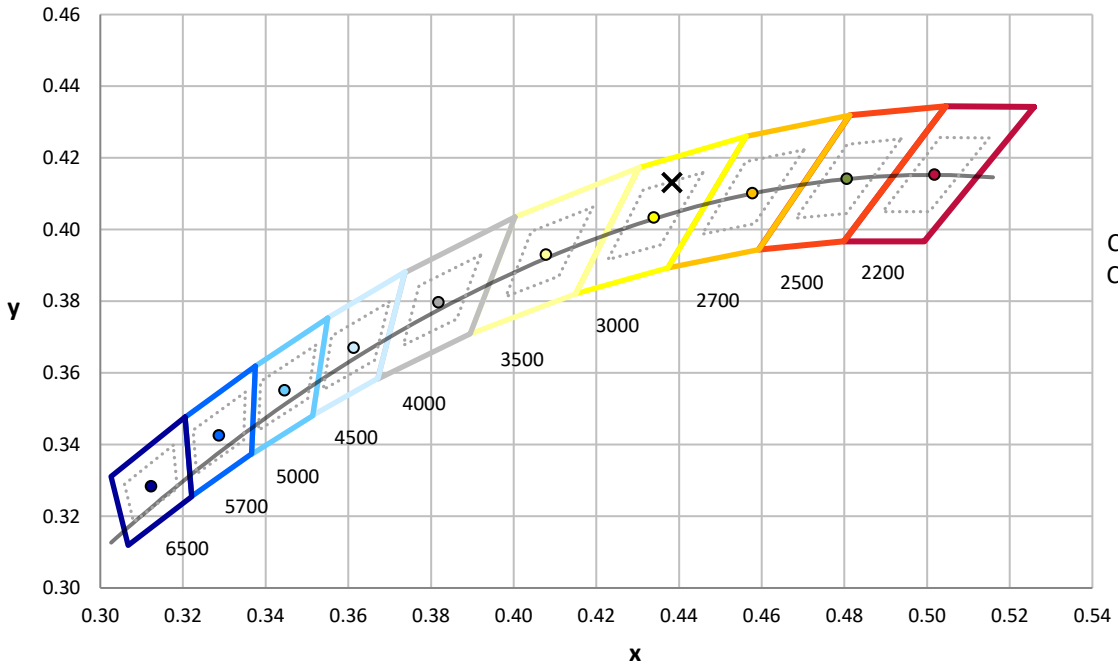
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

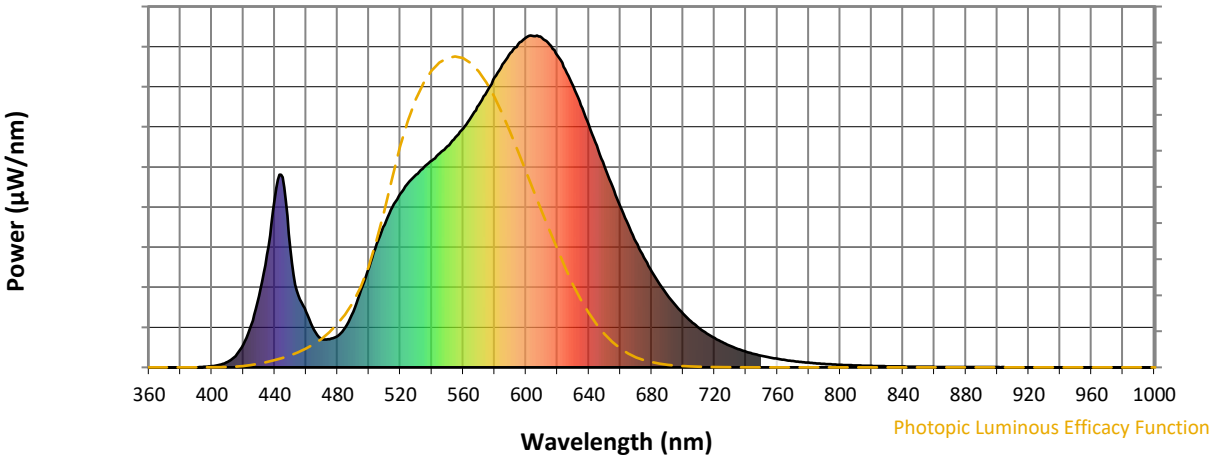


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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			

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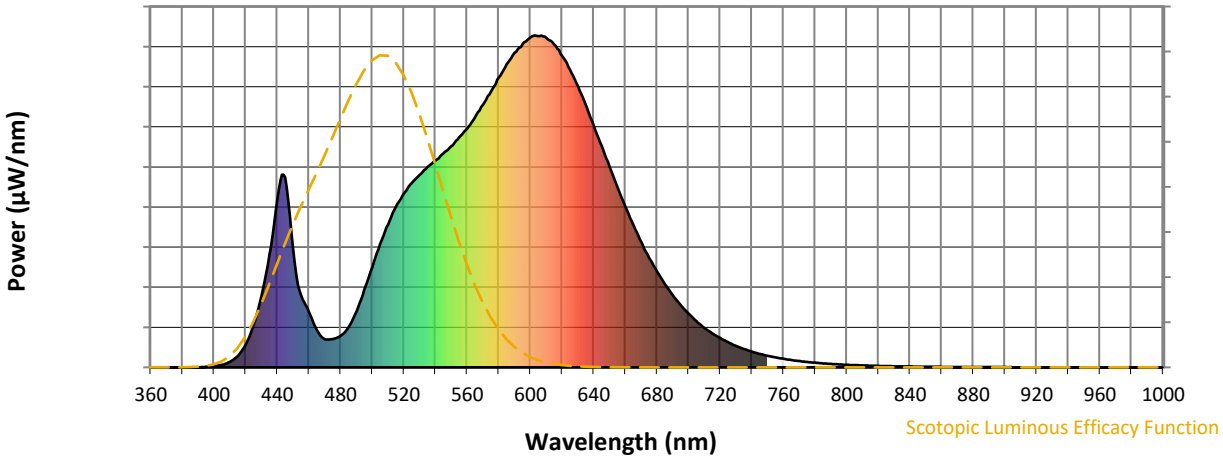
Scotopic Flux vs. Wavelength



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			

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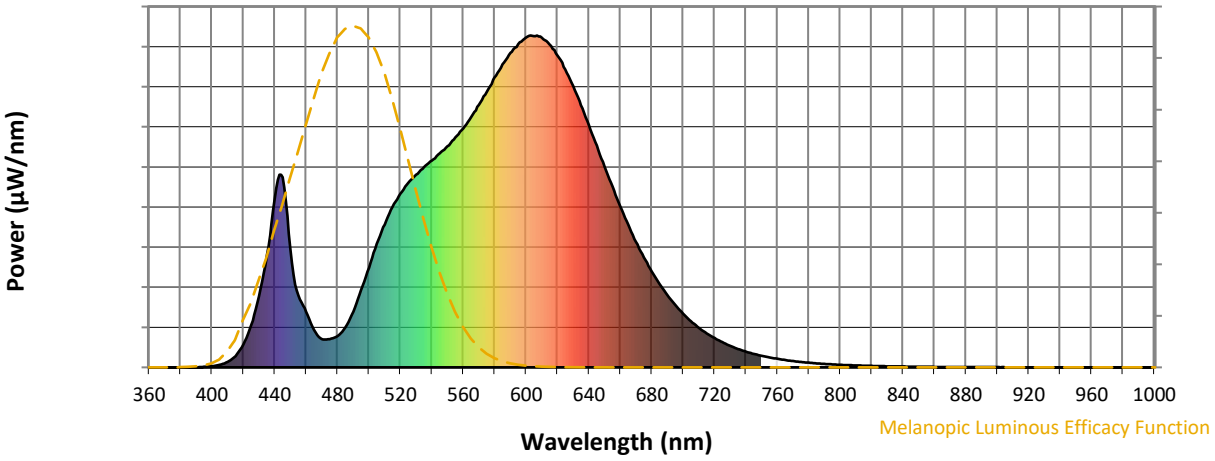
Melanopic Flux vs. Wavelength



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			

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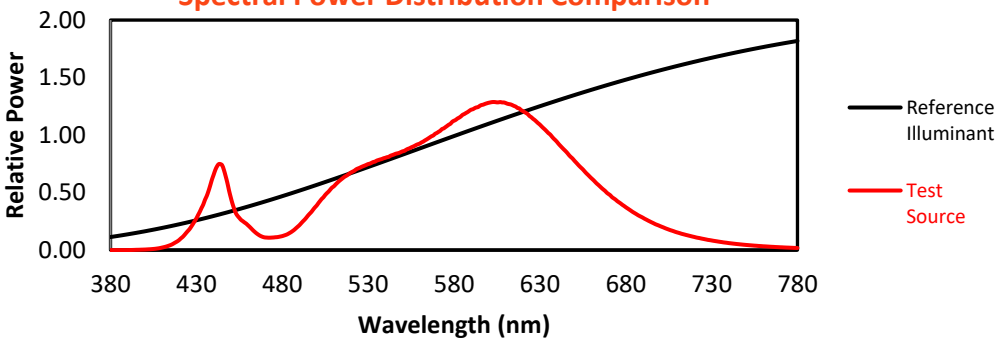
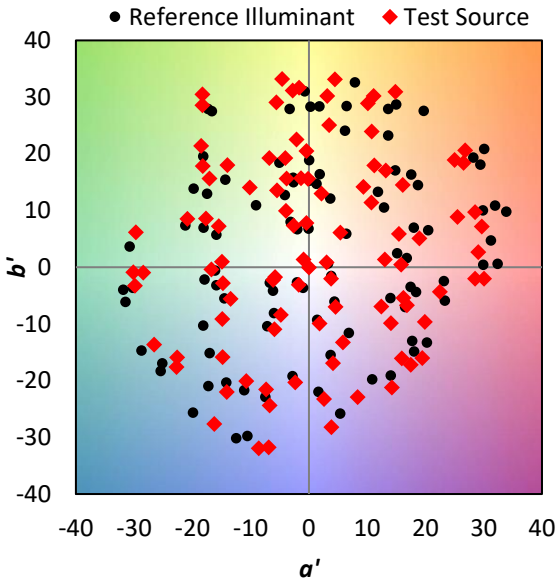
Summary

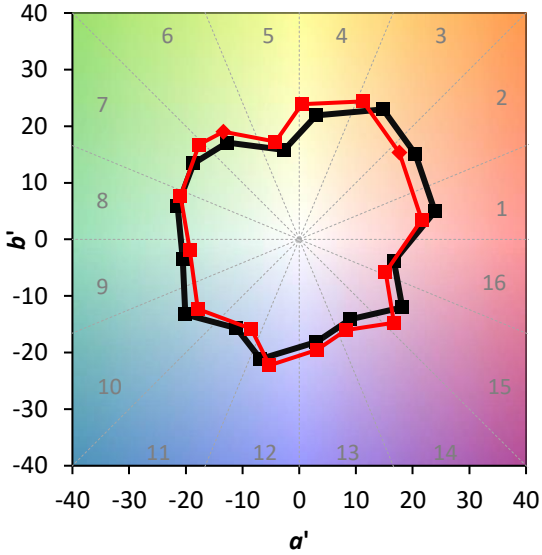
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

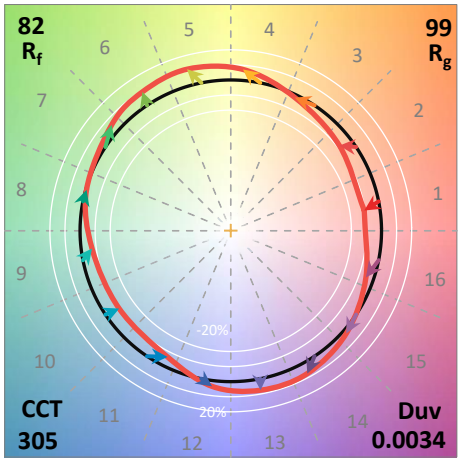
Spectral Power Distribution Comparison

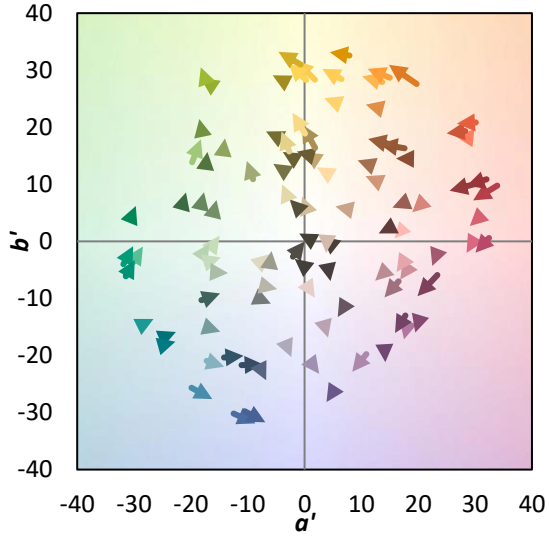


Color Vector Graphics









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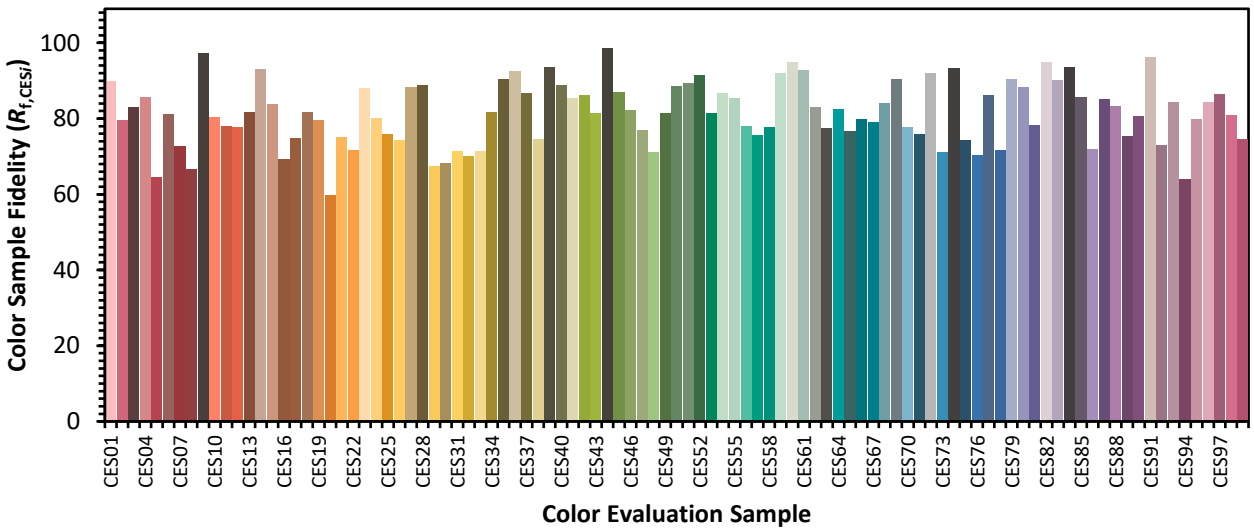
Individual Sample Fidelity Index ($R_{f,i}$)

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	



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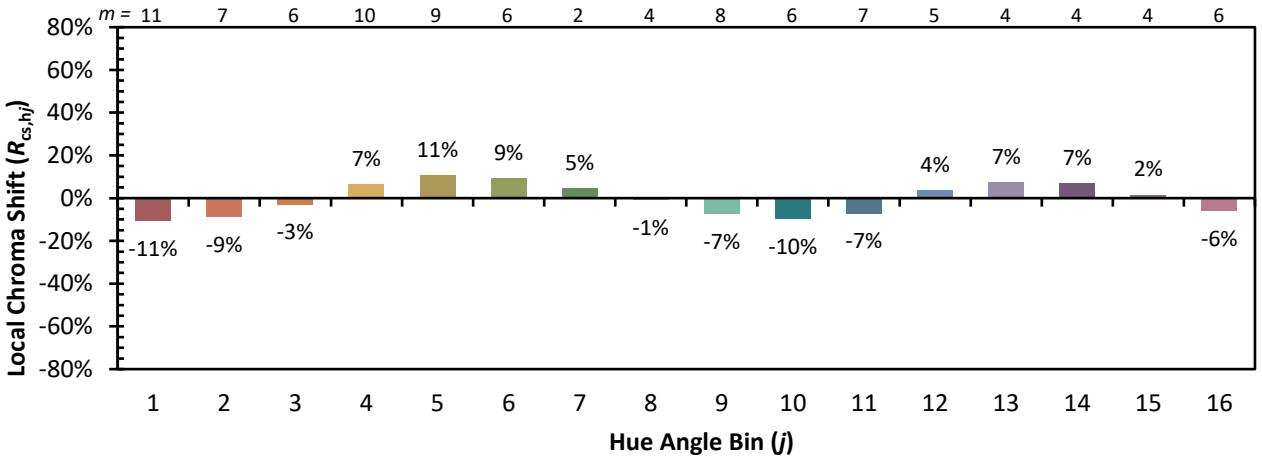
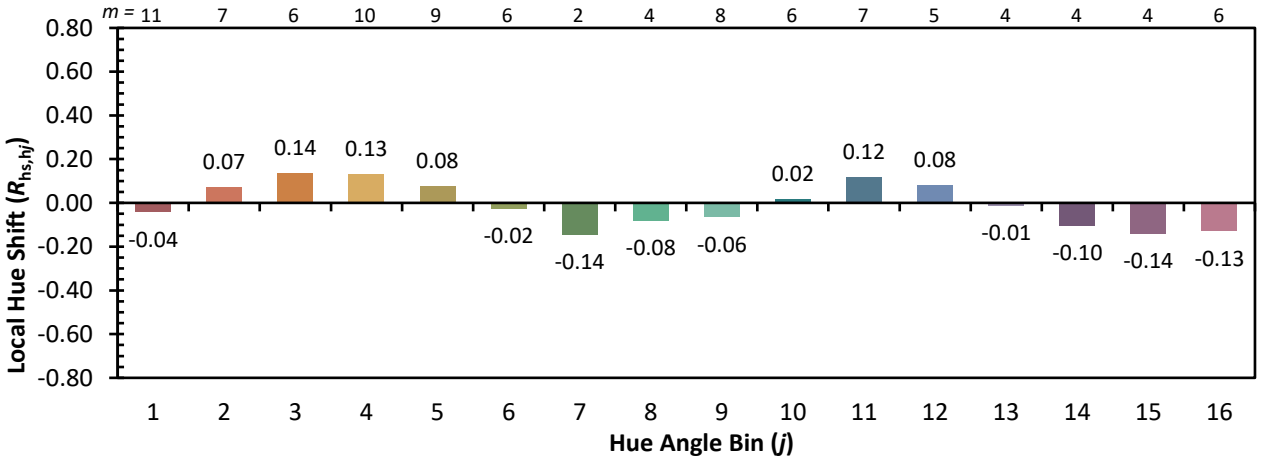
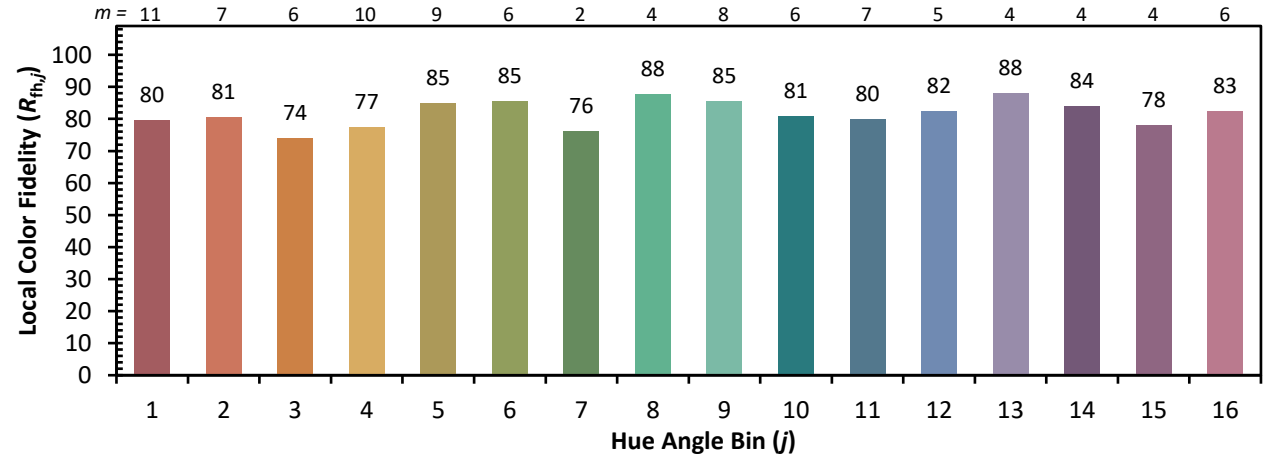
Color Rendition by Hue-Angle Bin







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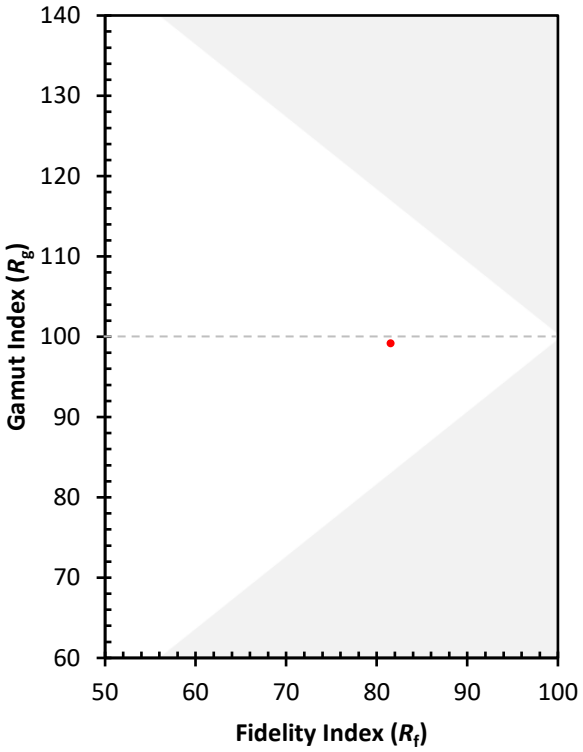
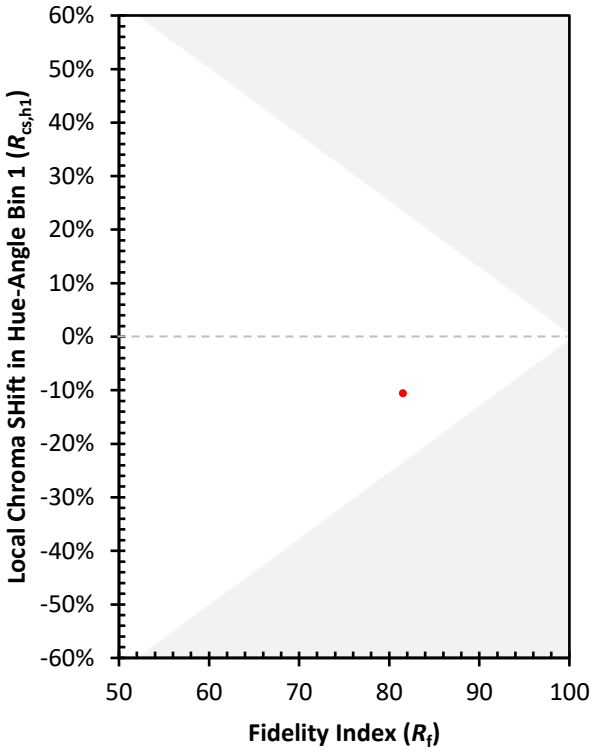
Measure Comparisons





(END OF REPORT)