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: P633021

Luminaire Tested: GWS-SA2D-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:	P633021
	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-SA2D-830-U-RW-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE 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:	6011.6 lumens
Efficiency:	N/A
Efficacy:	73.2 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type V - Short
BUG Rating:	B2 - 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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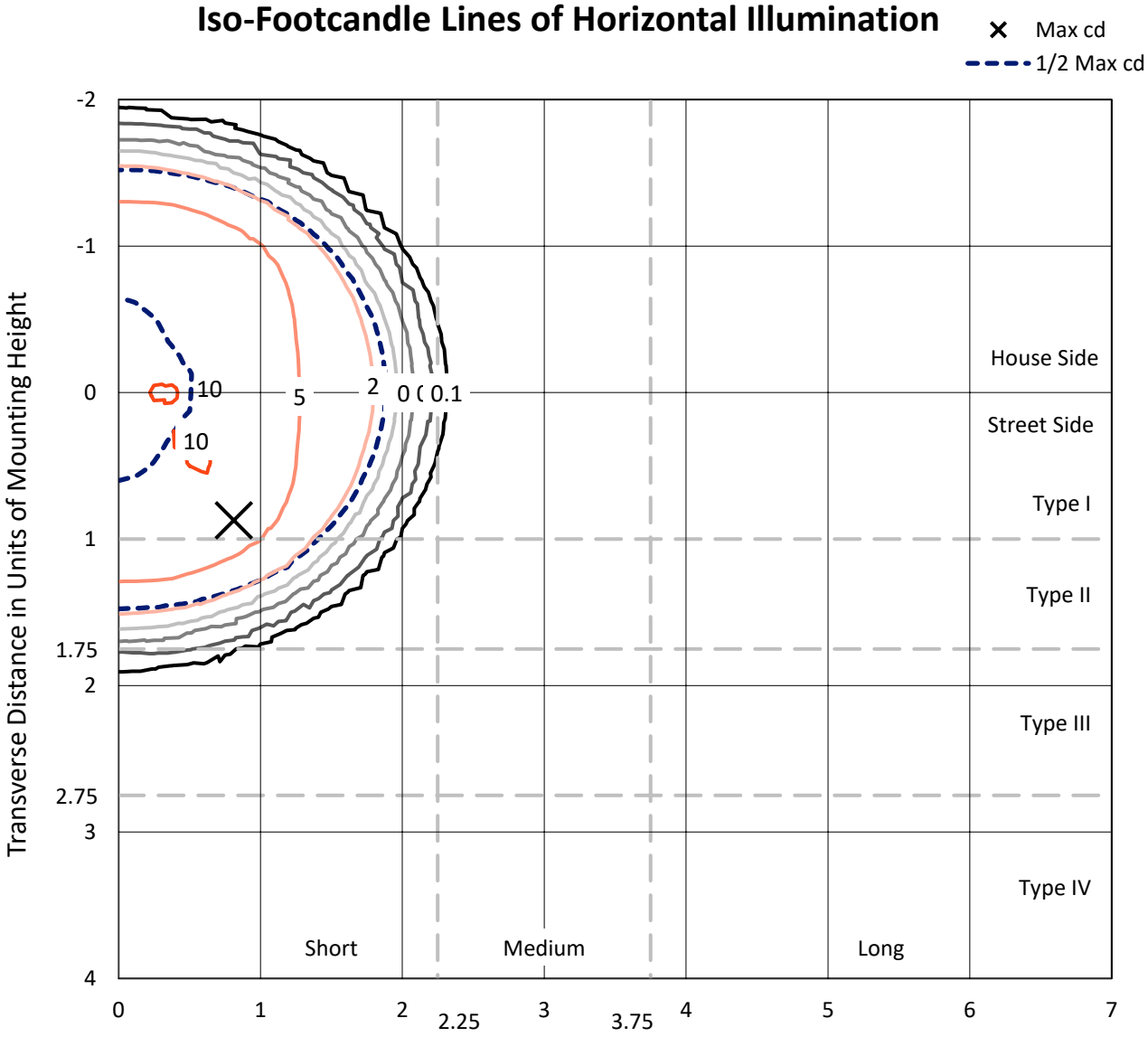
Scaled Data Report

REPORT NUMBER: P633021
CATALOG NUMBER: GWS-SA2D-830-U-RW-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 10.2 fc
Type V - Short - N/A

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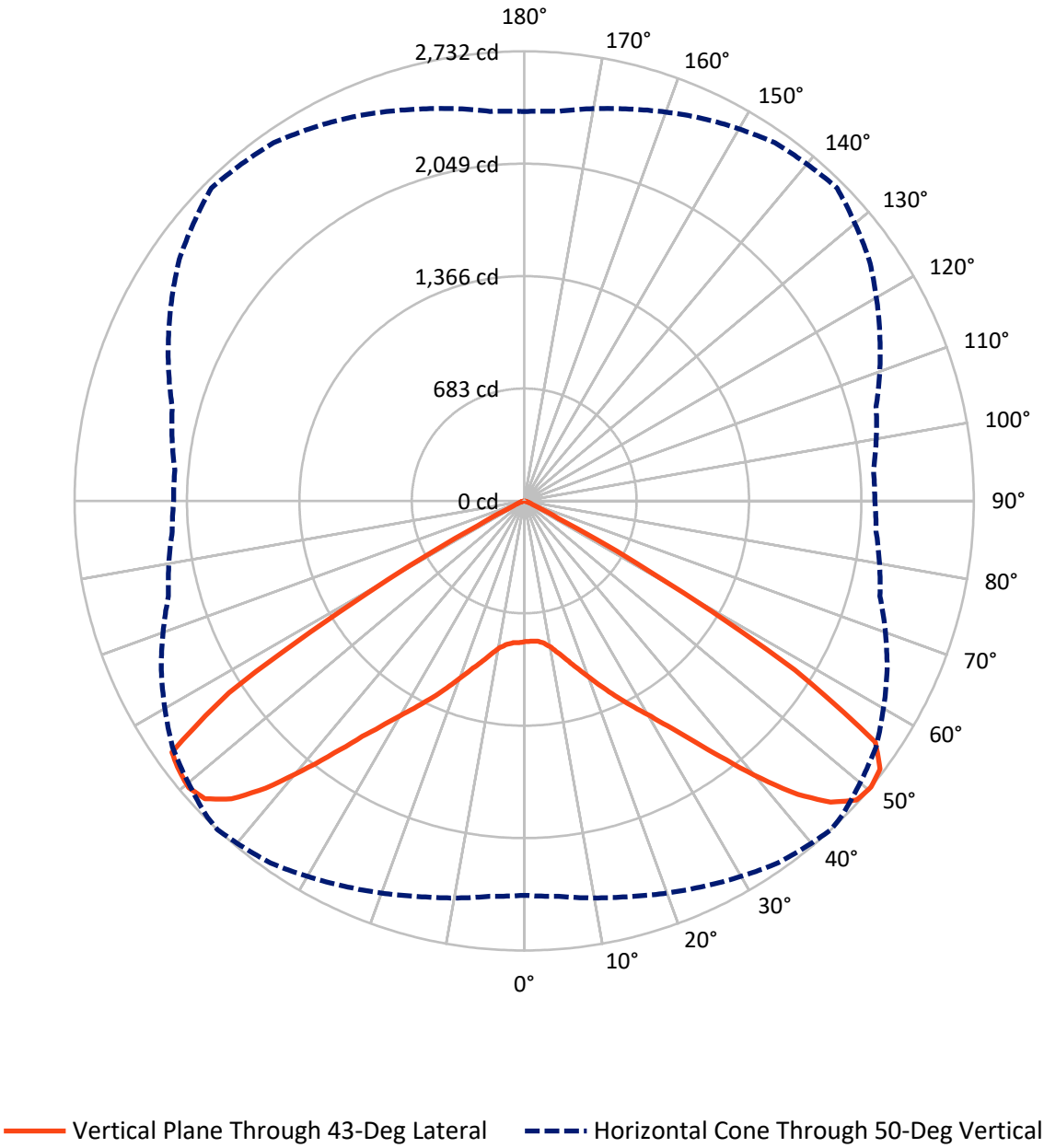
Luminous Intensity Polar Plot



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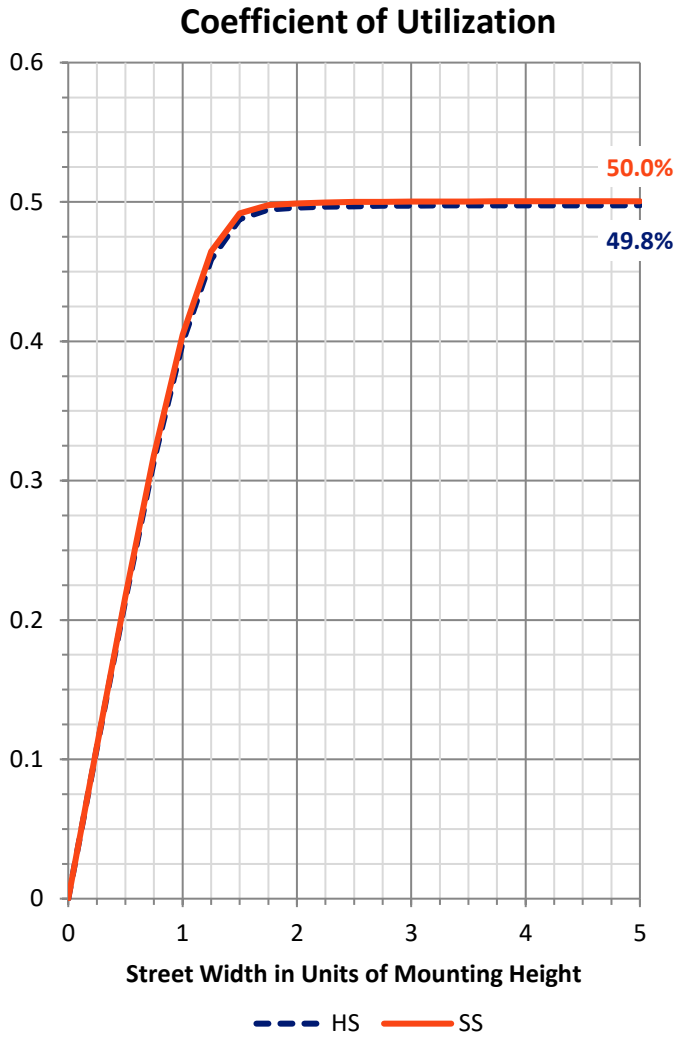
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3005.7	0.0	3005.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3005.9	0.0	3005.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	6011.6	0.0	6011.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.2	1.4
10°-20°	289.8	4.8
20°-30°	586.2	9.8
30°-40°	1087.7	18.1
40°-50°	1805.5	30.0
50°-60°	1842.6	30.7
60°-70°	302.2	5.0
70°-80°	13.2	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°	6011.6	100.0
0°-180°	6011.6	100.0



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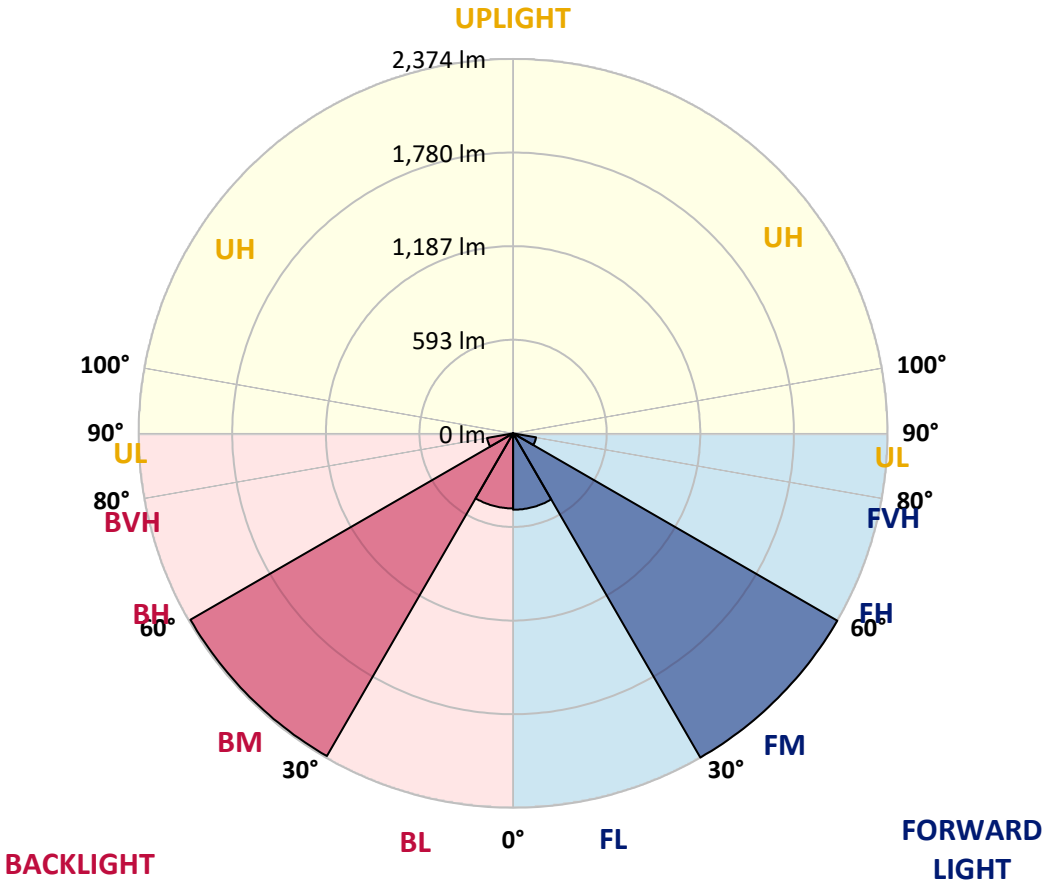
CATALOG NUMBER: GWS-SA2D-830-U-RW-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	484.3	8.1			
FM	(30°-60°)	2373.7	39.5			
FH	(60°-80°)	147.8	2.5			G0/660
FVH	(80°-90°)	0.1	0.0			G0/10
BL	(0°-30°)	475.9	7.9	B1/500		
BM	(30°-60°)	2362.1	39.3	B2/2500		
BH	(60°-80°)	167.6	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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REPORT NUMBER: P633021
CATALOG NUMBER: GWS-SA2D-830-U-RW-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	855.1	855.1	855.1	855.1	855.1	*855.1*	855.1	855.1	855.1	855.1	855.1
2.5°	839.1	841.1	843.8	846.4	849.7	*853.1*	855.1	861.0	859.7	865.0	865.0
5°	829.8	831.8	835.1	841.1	848.4	*855.7*	861.0	873.0	879.7	890.3	894.3
7.5°	834.4	837.1	841.1	850.4	861.7	*873.0*	879.0	898.3	911.6	931.5	942.8
10°	849.7	852.4	859.0	875.0	889.6	*905.6*	912.9	937.5	958.8	986.0	1002.0
12.5°	867.0	870.3	883.6	907.6	932.8	*954.1*	964.1	991.4	1013.3	1043.9	1069.2
15°	885.0	890.3	910.9	946.1	982.0	*1010.6*	1021.3	1050.5	1072.5	1105.1	1133.6
17.5°	926.9	932.8	956.1	994.0	1043.2	*1076.5*	1085.8	1116.4	1133.0	1154.9	1184.8
20°	979.4	990.7	1019.3	1065.2	1119.0	*1150.9*	1157.6	1187.5	1186.2	1195.5	1221.4
22.5°	1044.6	1052.5	1083.8	1138.3	1198.8	*1234.0*	1249.3	1262.0	1245.3	1237.4	1254.0
25°	1112.4	1121.7	1155.6	1215.4	1283.2	*1323.8*	1336.4	1346.4	1319.8	1289.9	1291.9
27.5°	1200.1	1206.8	1240.0	1303.9	1371.7	*1417.6*	1428.9	1446.1	1410.9	1363.0	1349.7
30°	1304.5	1311.2	1346.4	1413.6	1480.7	*1520.0*	1537.2	1558.5	1520.0	1460.1	1444.8
32.5°	1426.9	1433.5	1478.7	1547.9	1603.1	*1645.6*	1662.2	1684.8	1654.3	1587.1	1569.8
35°	1573.1	1577.1	1630.3	1705.5	1764.0	*1805.2*	1816.5	1843.1	1809.2	1742.0	1732.7
37.5°	1742.7	1747.3	1805.2	1892.3	1952.1	*1998.0*	2016.0	2023.3	1982.1	1906.9	1899.6
40°	1928.9	1944.2	2000.7	2094.4	2161.6	*2219.4*	2235.4	2210.8	2152.9	2050.5	2037.2
42.5°	2123.0	2136.3	2199.5	2301.2	2379.0	*2438.2*	2438.8	2385.6	2287.2	2145.6	2125.7
45°	2284.6	2289.9	2371.7	2474.1	2569.8	*2611.7*	2615.7	2519.3	2371.0	2200.8	2158.2
47.5°	2395.6	2404.3	2475.4	2573.8	2679.5	*2717.4*	2709.4	2589.1	2410.9	2236.7	2166.2
50°	*2396.9*	*2411.6*	*2488.7*	*2583.8*	*2686.2*	*2732.1*	*2720.8*	*2609.0*	*2433.5*	*2238.0*	*2146.9*
52.5°	2184.8	2208.8	2334.4	2472.1	2629.0	*2707.5*	2710.1	2635.0	2424.9	2216.8	2129.7
55°	1648.3	1674.2	1832.5	2067.2	2370.4	*2589.1*	2627.0	2604.4	2414.9	2226.1	2160.2
57.5°	872.3	852.4	940.2	1172.9	1553.9	*1940.8*	2051.9	2232.7	2303.9	2237.4	2216.8
60°	190.2	202.8	269.9	363.7	606.4	*912.9*	1021.3	1331.1	1699.5	1863.0	1981.4
62.5°	81.8	80.5	83.8	95.1	139.0	*231.4*	282.6	461.4	728.1	1000.0	1184.2
65°	67.2	67.8	70.5	70.5	65.8	*66.5*	69.8	105.7	170.2	238.7	320.5
67.5°	50.5	51.2	55.9	57.2	53.9	*47.9*	47.2	39.9	41.9	52.5	54.5
70°	31.9	31.9	34.6	35.9	35.9	*33.2*	32.6	28.6	27.9	31.9	35.9
72.5°	17.3	17.3	18.6	19.3	18.6	*18.0*	18.0	17.3	16.6	19.3	24.6
75°	7.3	7.3	8.0	8.0	7.3	*7.3*	7.3	7.3	7.3	8.6	13.3
77.5°	1.3	2.0	2.7	2.0	1.3	*1.3*	1.3	2.0	2.0	2.7	4.0
80°	0.7	0.7	1.3	0.7	0.0	*0.0*	0.0	0.0	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0	0.7
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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REPORT NUMBER: P633021
CATALOG NUMBER: GWS-SA2D-830-U-RW-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	855.1	855.1	855.1	855.1	855.1	855.1	855.1	855.1	855.1	855.1	855.1
2.5°	869.7	862.4	865.0	866.4	864.4	863.0	855.7	853.7	850.4	845.1	843.8
5°	898.9	893.0	892.3	888.3	879.0	867.7	853.7	847.7	841.1	834.4	833.1
7.5°	948.1	940.8	936.2	922.9	901.6	883.6	860.4	847.7	839.1	830.5	828.5
10°	1011.3	1002.7	989.4	964.8	936.2	910.2	883.0	866.4	853.1	841.1	840.4
12.5°	1078.5	1069.2	1045.2	1014.0	979.4	955.5	920.9	897.6	877.7	859.7	857.7
15°	1148.9	1137.6	1105.1	1067.8	1035.9	1011.3	973.4	936.2	905.6	879.7	877.0
17.5°	1202.8	1188.8	1150.3	1122.3	1096.4	1071.1	1028.6	979.4	938.8	907.6	900.3
20°	1236.7	1223.4	1186.8	1171.5	1159.6	1141.6	1091.1	1039.9	994.7	956.1	949.5
22.5°	1269.3	1253.3	1221.4	1221.4	1230.7	1223.4	1168.9	1110.4	1057.2	1012.6	1002.7
25°	1305.9	1293.2	1270.6	1289.2	1312.5	1311.8	1256.0	1182.8	1121.7	1071.8	1061.8
27.5°	1359.0	1346.4	1338.4	1373.7	1402.9	1400.9	1339.8	1260.6	1196.1	1146.9	1137.6
30°	1452.8	1440.8	1432.2	1474.7	1512.0	1498.0	1430.9	1354.4	1289.2	1233.4	1226.7
32.5°	1577.8	1565.2	1553.9	1596.4	1629.7	1611.7	1547.9	1476.1	1400.9	1346.4	1333.1
35°	1742.0	1715.4	1704.1	1754.7	1768.6	1748.7	1687.5	1624.3	1544.6	1482.1	1473.4
37.5°	1911.6	1880.3	1872.3	1916.2	1938.8	1931.5	1859.7	1793.9	1707.5	1638.3	1628.3
40°	2056.5	2027.9	2014.0	2082.5	2133.6	2138.3	2073.8	1993.4	1891.6	1819.8	1801.9
42.5°	2141.6	2117.0	2113.7	2220.1	2303.9	2363.7	2286.6	2203.5	2096.4	2015.3	2000.7
45°	2160.9	2145.0	2172.9	2312.5	2442.8	2551.9	2486.0	2398.3	2282.6	2196.8	2182.9
47.5°	2158.9	2153.6	2203.5	2360.4	2525.3	2659.6	2627.0	2527.9	2416.2	2326.5	2313.2
50°	*2130.3*	*2131.0*	*2214.1*	*2384.3*	*2558.5*	*2688.8*	*2656.3*	*2564.5*	*2464.8*	*2376.3*	*2365.7*
52.5°	2119.0	2115.0	2194.2	2377.0	2592.4	2675.5	2602.4	2499.3	2388.3	2279.3	2263.3
55°	2158.9	2148.9	2196.8	2371.0	2596.4	2668.2	2475.4	2252.0	2024.6	1895.6	1885.0
57.5°	2218.8	2208.1	2230.7	2327.1	2388.3	2218.8	1821.8	1461.4	1227.4	1128.3	1085.1
60°	1981.4	1974.1	1956.8	1840.4	1578.5	1190.8	811.2	517.3	371.7	300.5	300.5
62.5°	1229.4	1219.4	1125.7	836.4	607.7	351.7	193.5	121.0	91.8	85.8	85.1
65°	345.1	343.1	283.9	200.8	127.7	79.1	69.8	71.1	69.8	67.8	67.2
67.5°	51.9	57.2	57.2	46.5	44.5	49.9	58.5	62.5	59.2	55.9	54.5
70°	33.2	35.9	34.6	29.9	31.9	37.2	41.9	42.6	40.6	37.2	36.6
72.5°	23.3	25.9	21.3	19.3	19.9	21.9	23.9	23.9	23.3	21.9	20.6
75°	14.0	14.0	10.0	9.3	9.3	10.0	10.0	11.3	11.3	10.6	10.0
77.5°	4.7	5.3	3.3	2.7	2.7	2.7	3.3	4.0	4.0	3.3	2.7
80°	0.7	1.3	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3	0.7
82.5°	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
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

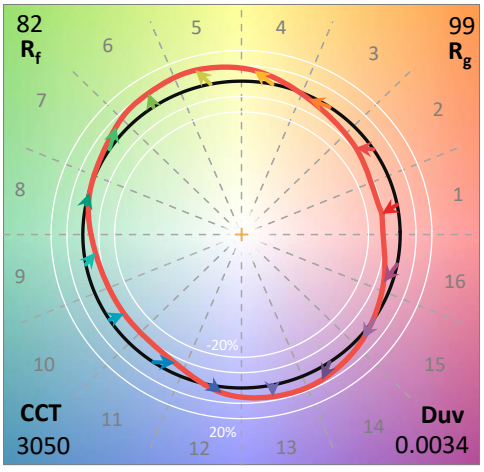
Test Information

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

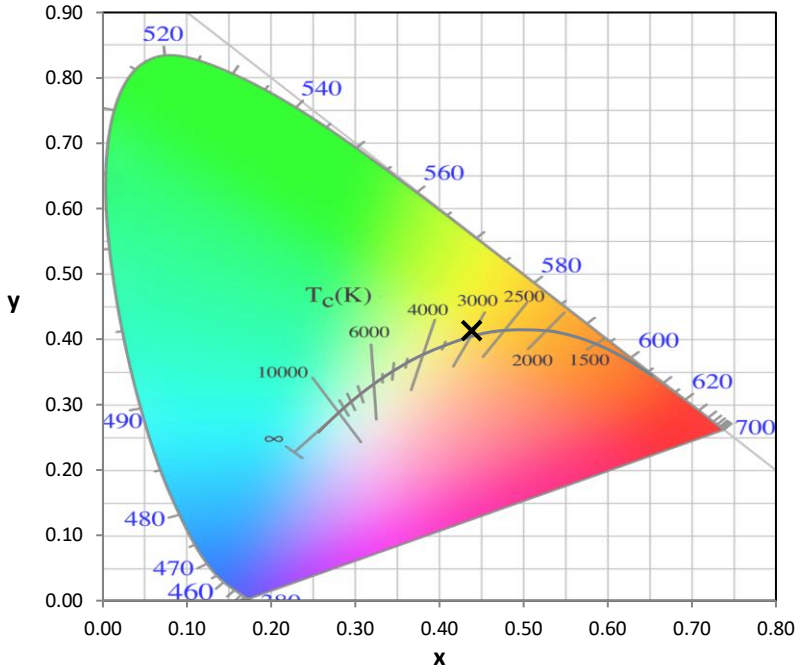
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

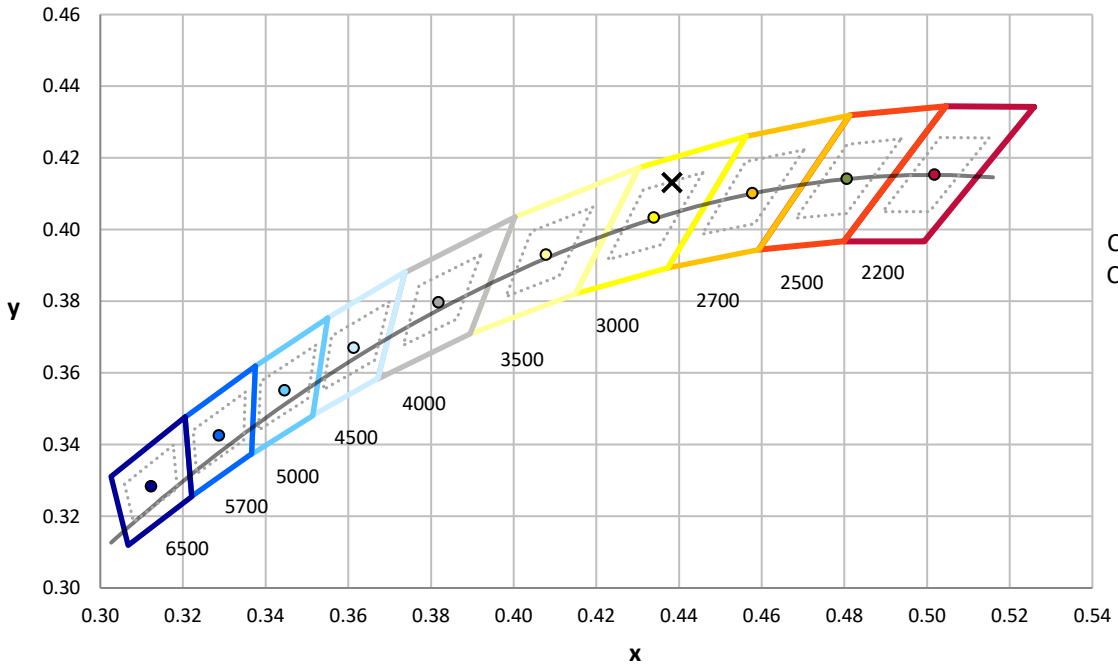
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

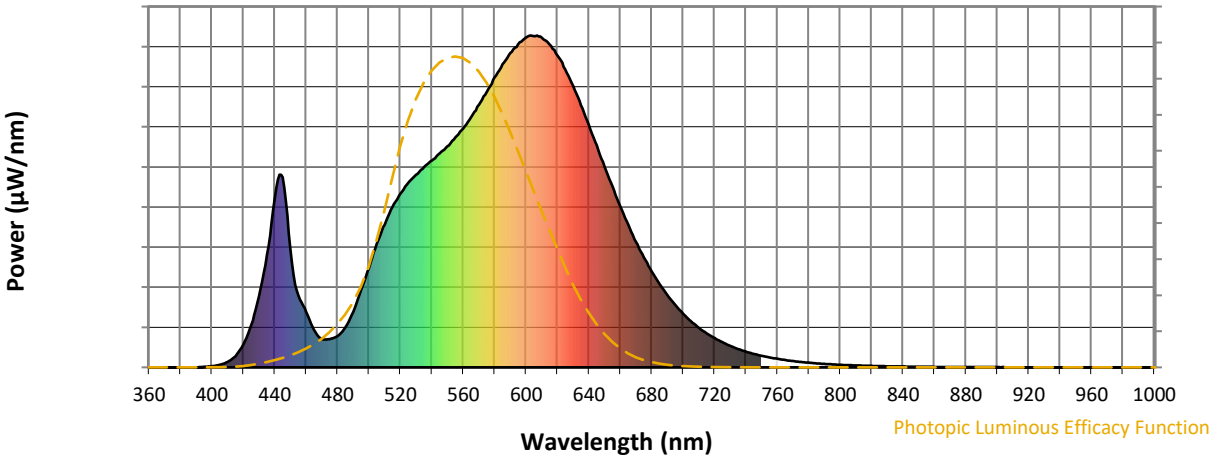


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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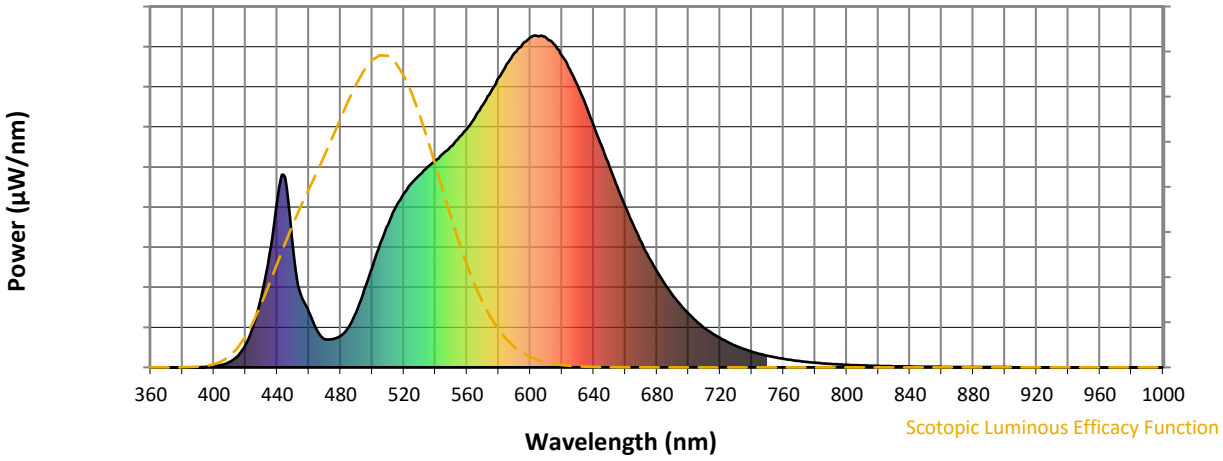
Scotopic Flux vs. Wavelength



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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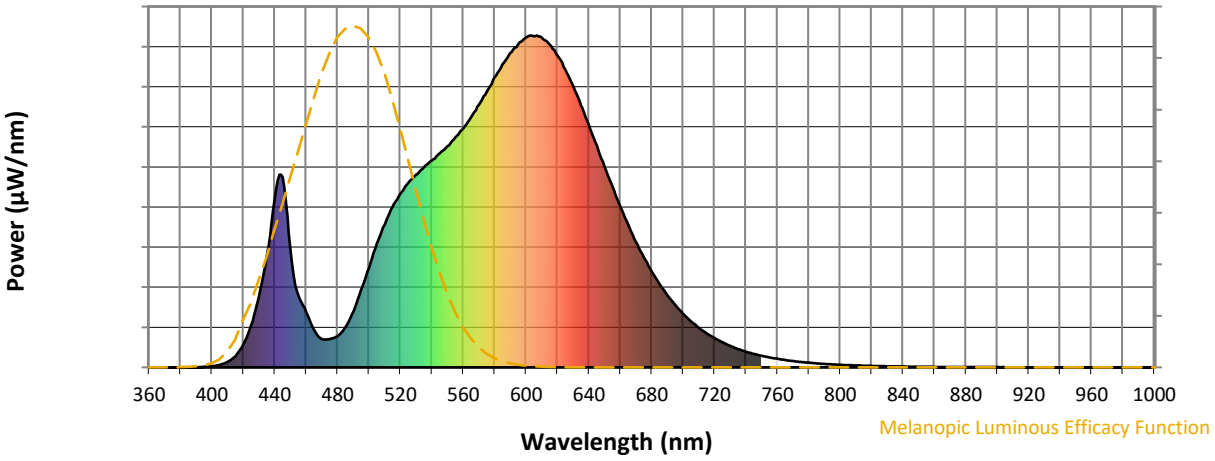
Melanopic Flux vs. Wavelength



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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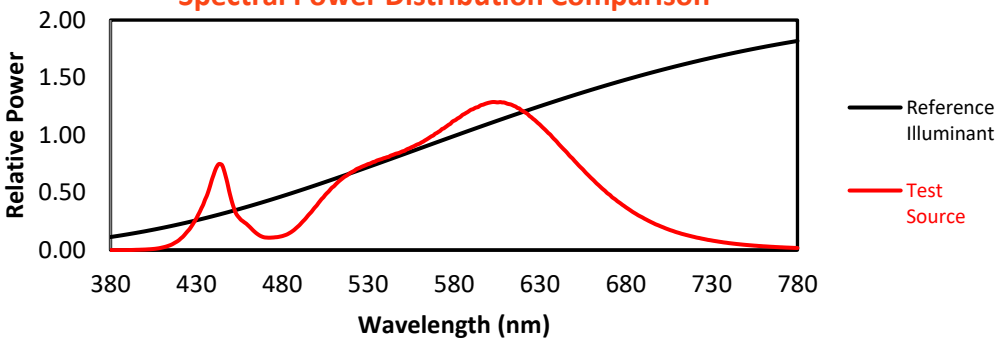
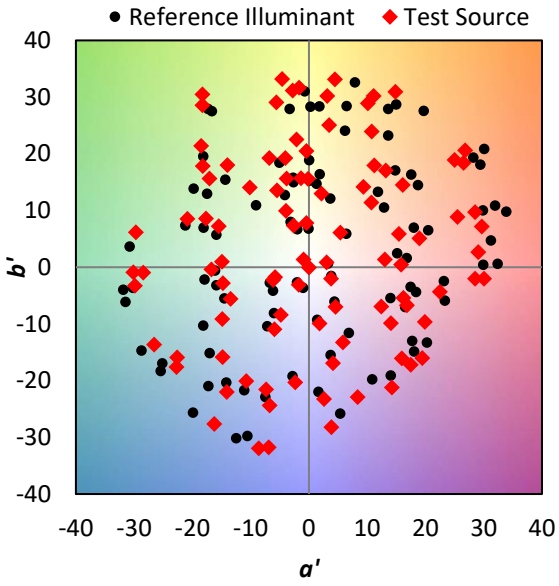
Summary

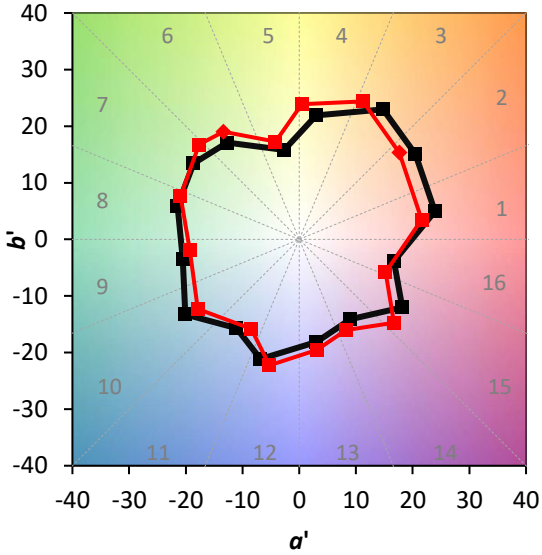
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

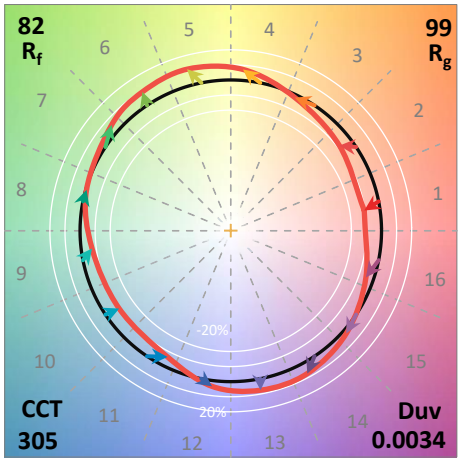
Spectral Power Distribution Comparison

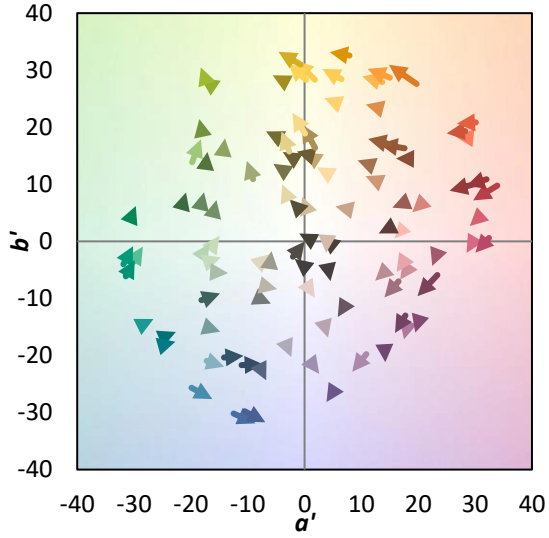


Color Vector Graphics









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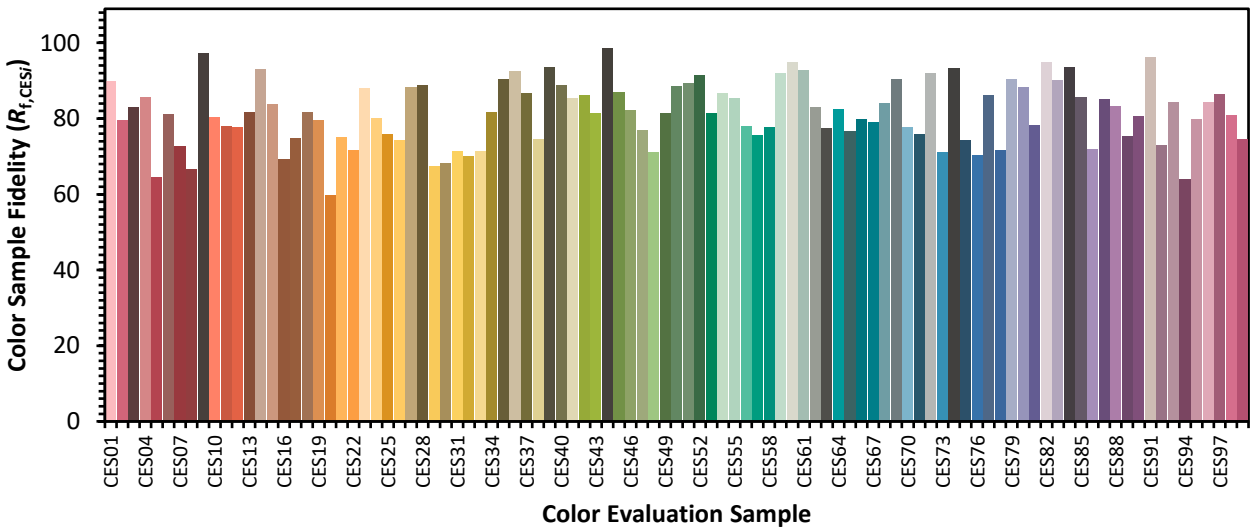
Individual Sample Fidelity Index ($R_{f,i}$)

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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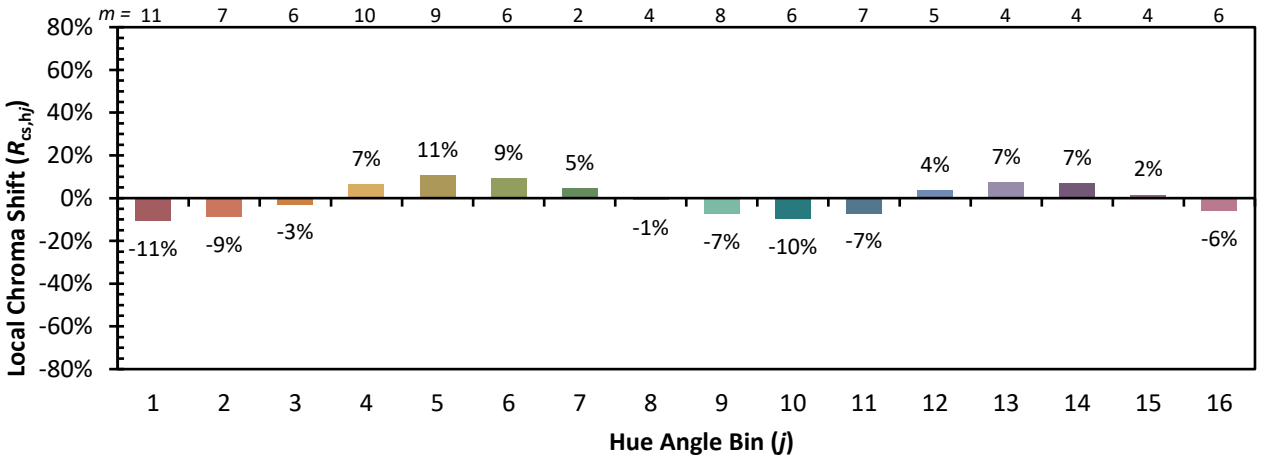
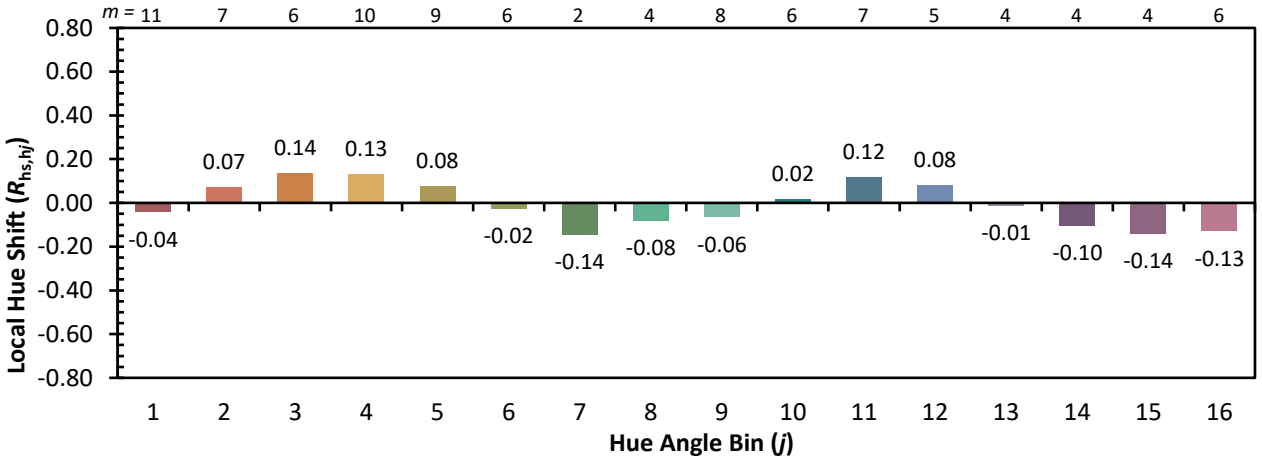
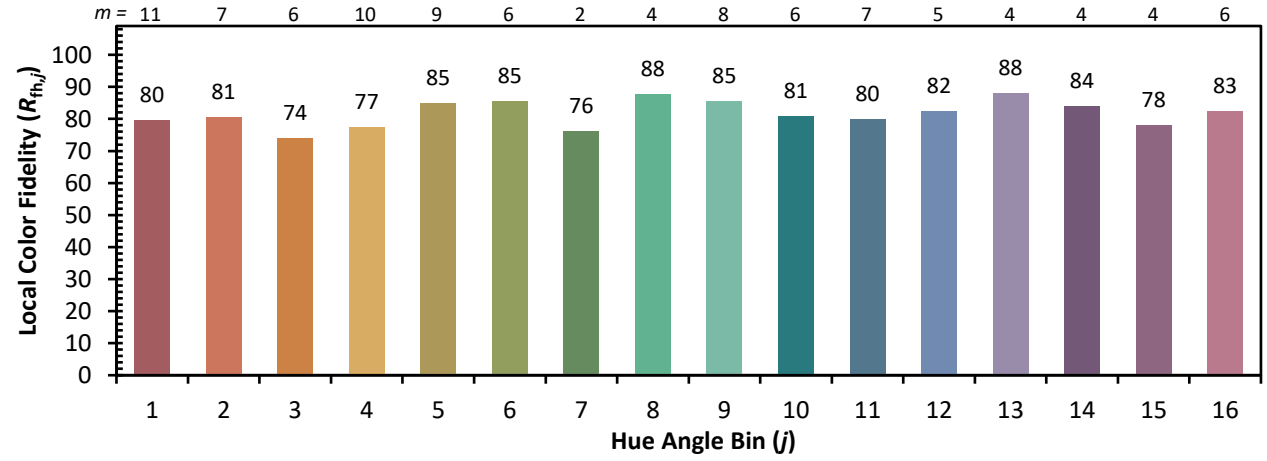
Color Rendition by Hue-Angle Bin







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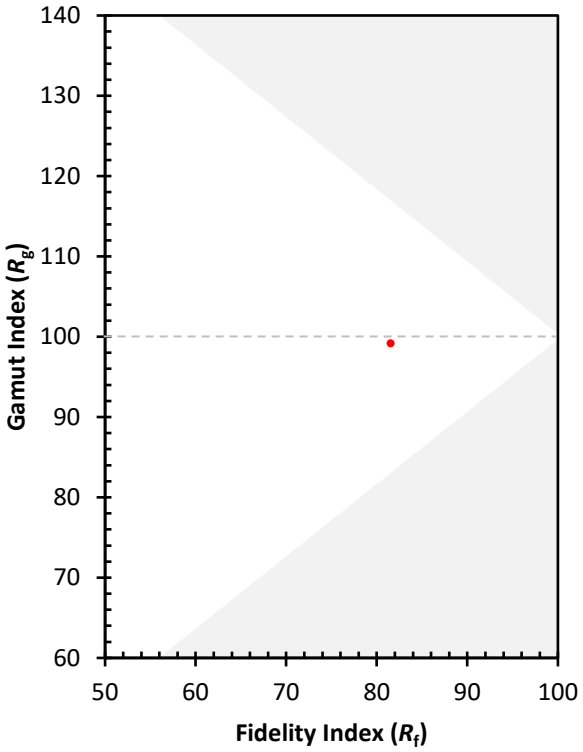
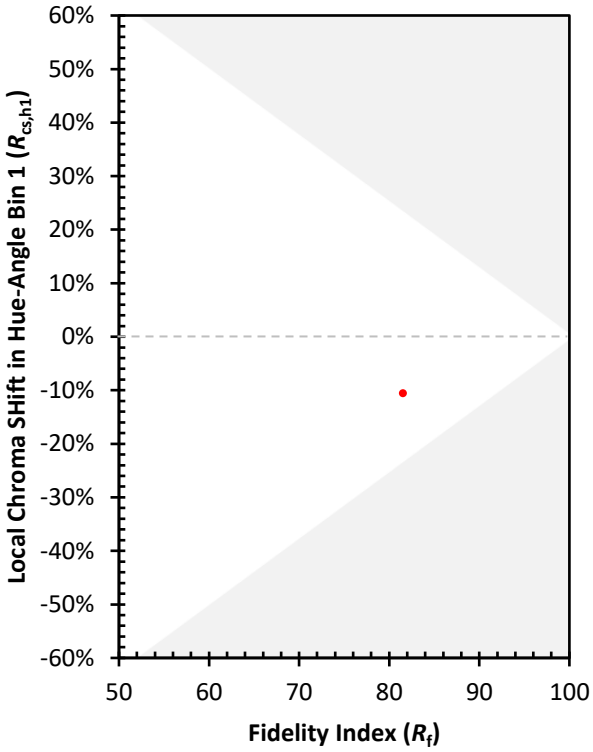
Measure Comparisons





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