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: P632547

Luminaire Tested: GWS-SA2C-830-U-T1-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:	P632547
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA2C-830-U-T1-W
Description:	GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source:	(32) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7338.8 lumens
Efficiency:	N/A
Efficacy:	116.1 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type I - Medium
BUG Rating:	B3 - U0 - G3

Input Watts (W):	63.2
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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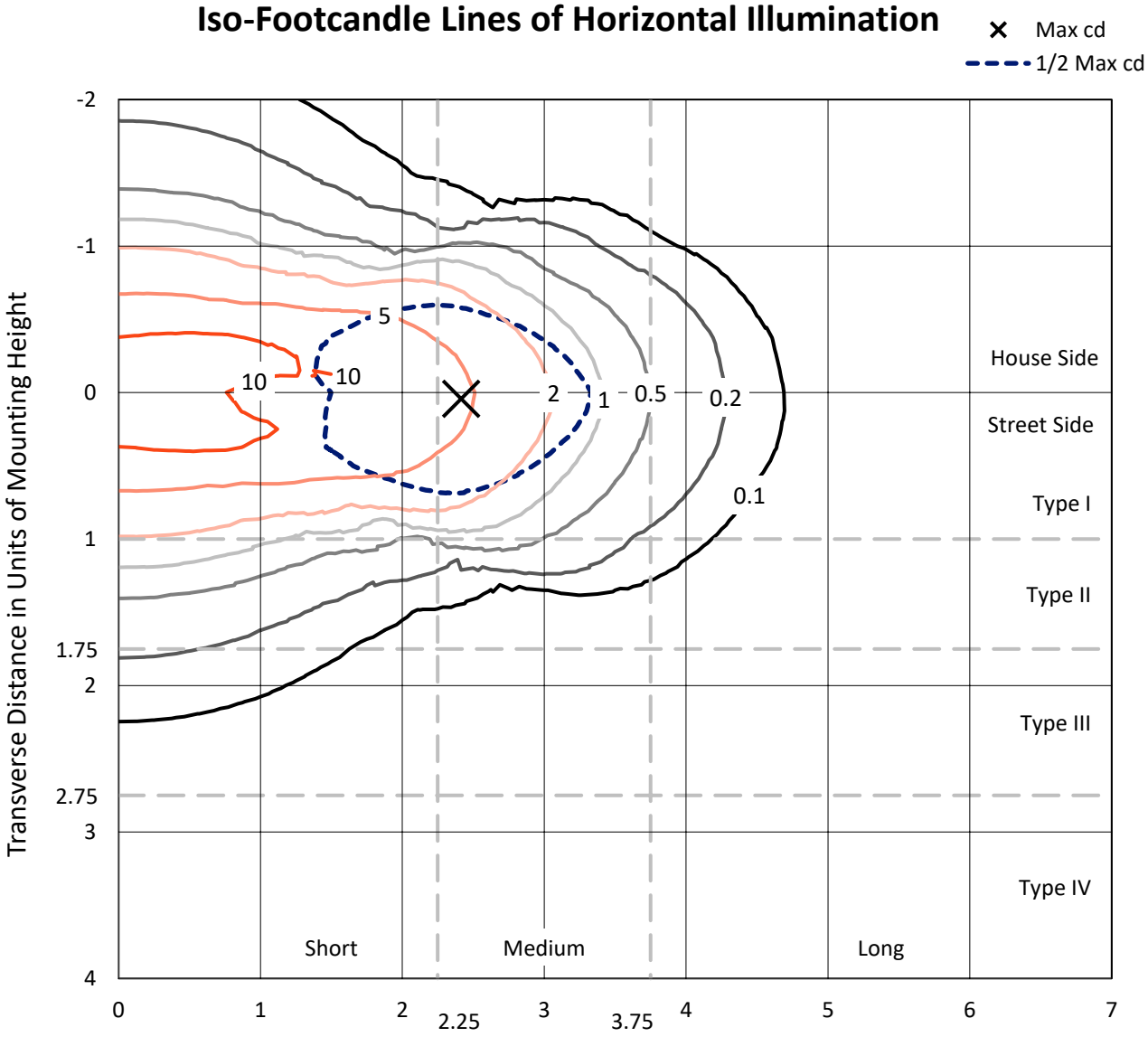
Scaled Data Report

REPORT NUMBER: P632547
CATALOG NUMBER: GWS-SA2C-830-U-T1-W

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 13.4 fc
Type I - Medium - N/A

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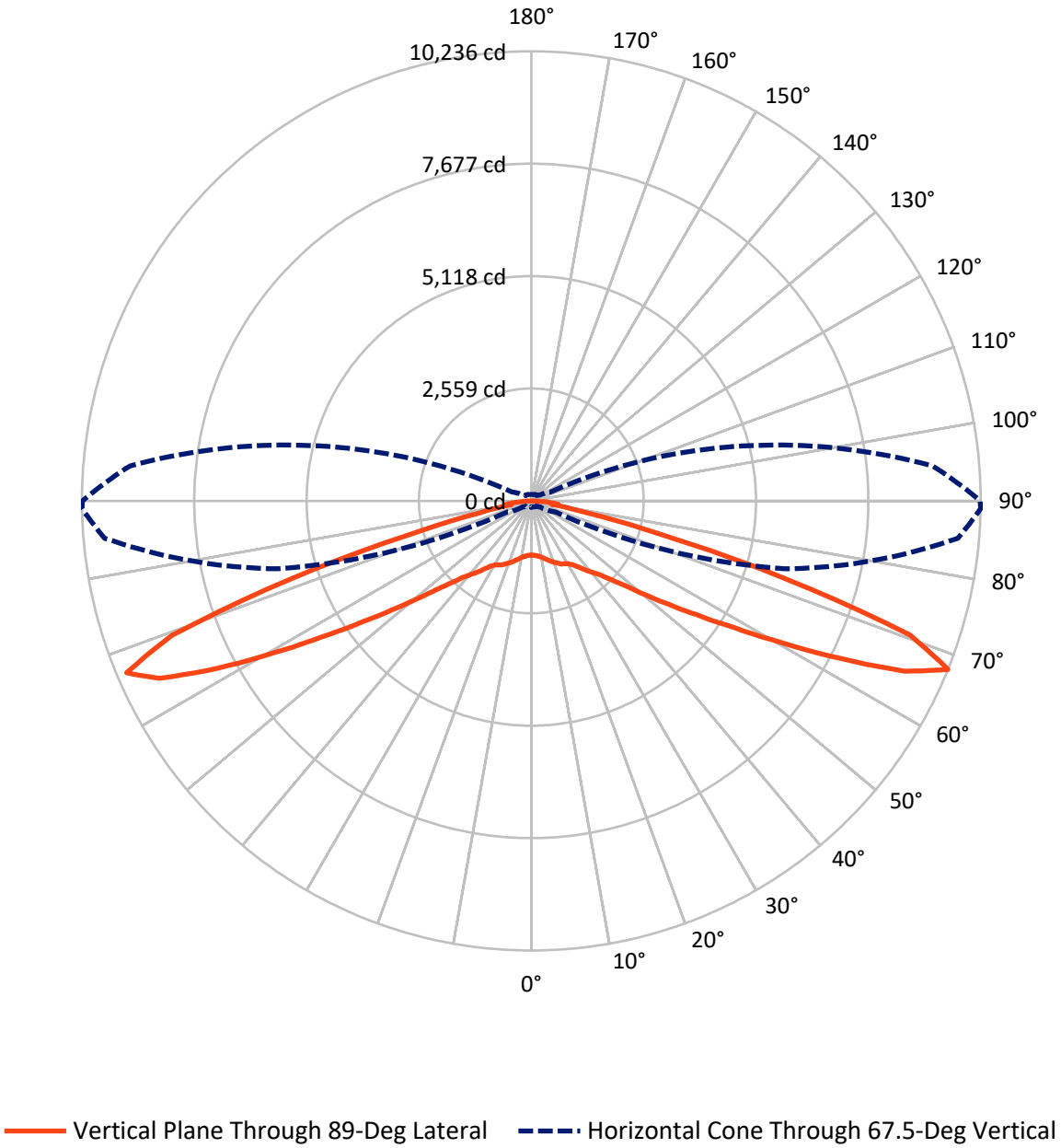
Luminous Intensity Polar Plot



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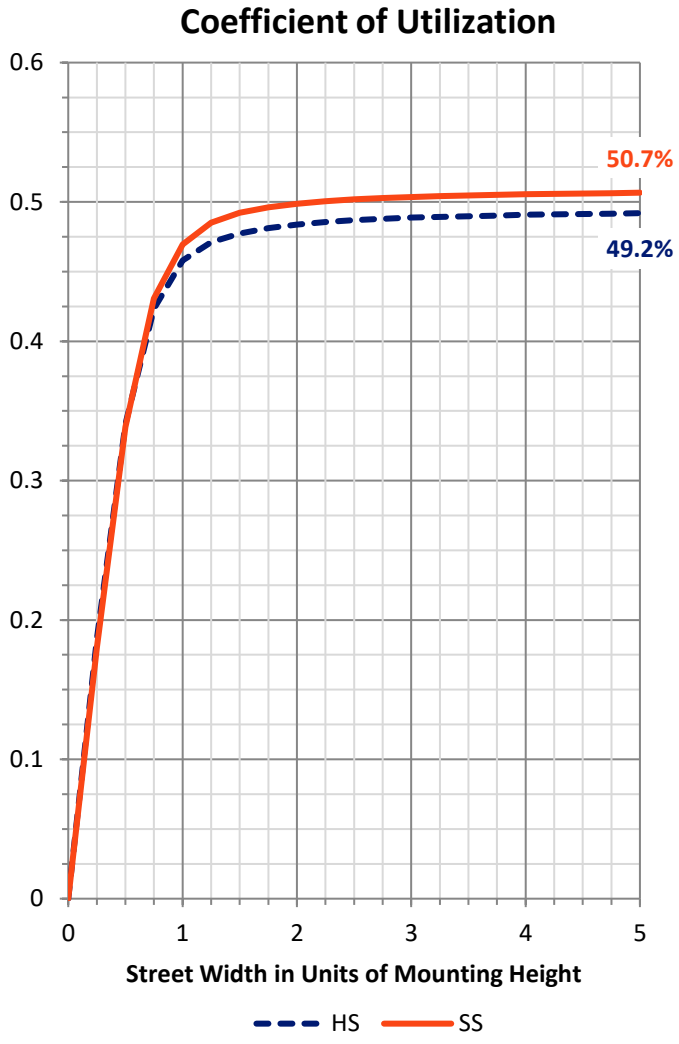
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3637.2	0.0	3637.2
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	3701.6	0.0	3701.6
	% Fixture	50.4	0.0	50.4
Total	Lumens	7338.8	0.0	7338.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.6	1.7
10°-20°	402.3	5.5
20°-30°	680.1	9.3
30°-40°	933.3	12.7
40°-50°	1190.2	16.2
50°-60°	1493.3	20.3
60°-70°	1801.1	24.5
70°-80°	651.6	8.9
80°-90°	63.4	0.9
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°	7338.8	100.0
0°-180°	7338.8	100.0



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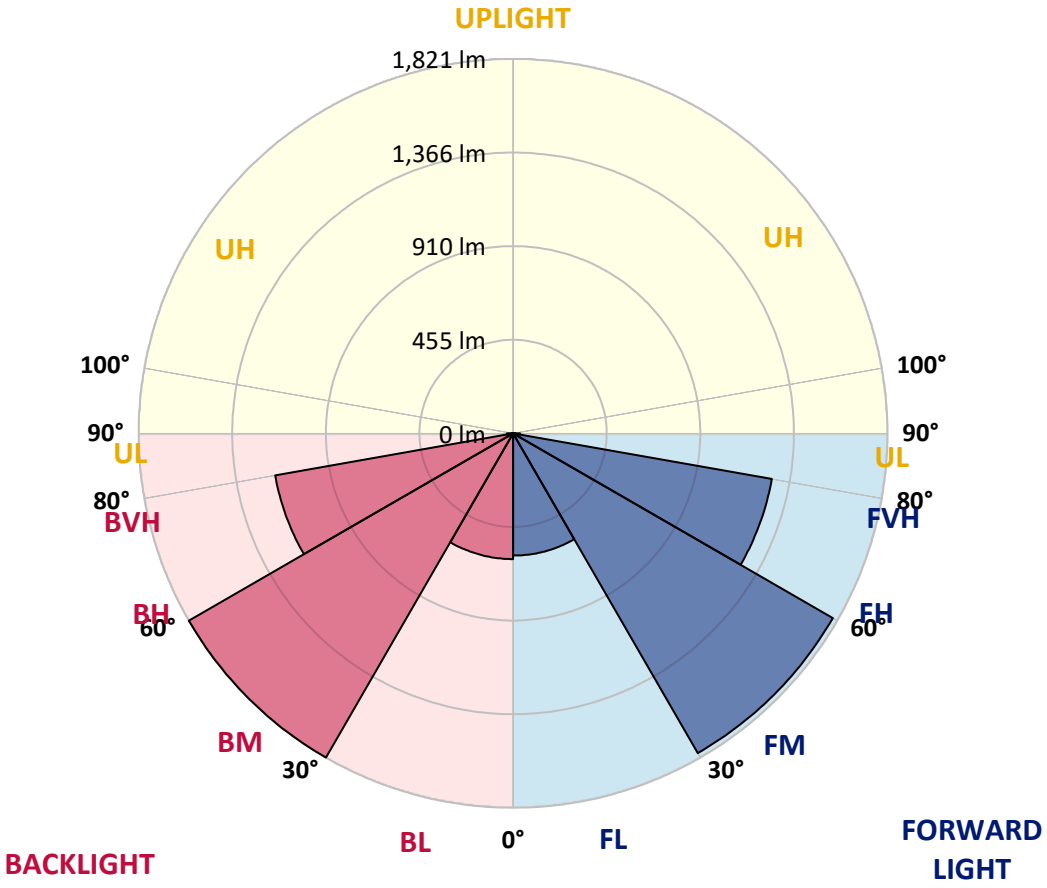
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	594.4	8.1			
FM	(30°-60°)	1796.0	24.5			
FH	(60°-80°)	1277.8	17.4			G1/1800
FVH	(80°-90°)	33.4	0.5			G1/100
BL	(0°-30°)	611.6	8.3	B2/1000		
BM	(30°-60°)	1820.9	24.8	B2/2500		
BH	(60°-80°)	1174.8	16.0	B3/2500		G3/2500
BVH	(80°-90°)	29.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
Type I Medium



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REPORT NUMBER: P632547
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	1231.8	1231.8	1231.8	1231.8	1231.8	1231.8	1231.8	1231.8	1231.8	1231.8	*1231.8*
2.5°	1235.4	1234.4	1231.8	1239.7	1238.1	1238.6	1241.8	1239.7	1236.0	1229.7	*1238.6*
5°	1270.2	1269.7	1263.9	1268.7	1263.4	1259.7	1259.2	1253.9	1249.7	1242.8	*1252.3*
7.5°	1304.0	1303.4	1298.7	1307.1	1302.9	1298.7	1294.0	1283.4	1273.4	1263.4	*1273.9*
10°	1329.8	1329.3	1328.2	1340.3	1341.4	1343.0	1340.9	1322.9	1305.5	1293.4	*1304.0*
12.5°	1344.6	1346.1	1348.8	1370.9	1382.0	1392.5	1395.1	1380.4	1351.4	1334.0	*1346.7*
15°	1334.5	1337.7	1350.9	1390.9	1421.5	1445.2	1455.2	1443.1	1405.7	1376.7	*1390.9*
17.5°	1286.6	1289.2	1315.0	1376.2	1443.6	1498.5	1514.8	1507.4	1465.8	1430.5	*1444.2*
20°	1220.2	1226.0	1253.9	1339.3	1440.0	1535.3	1579.1	1576.5	1531.1	1476.8	*1493.2*
22.5°	1160.1	1166.9	1196.4	1290.8	1415.2	1544.8	1643.9	1650.8	1590.7	1523.2	*1536.4*
25°	1092.6	1098.9	1136.9	1233.3	1372.5	1537.5	1699.3	1730.4	1658.2	1576.5	*1588.6*
27.5°	1023.6	1028.3	1065.7	1168.5	1316.6	1523.8	1743.0	1817.9	1724.6	1613.4	*1621.8*
30°	963.0	969.3	1003.5	1103.7	1255.5	1496.3	1778.9	1911.1	1801.0	1655.0	*1661.8*
32.5°	904.4	909.7	947.1	1039.9	1190.6	1454.2	1811.0	2020.8	1914.3	1732.5	*1732.5*
35°	830.7	840.1	882.3	978.8	1129.5	1398.3	1834.2	2148.3	2069.3	1846.8	*1847.4*
37.5°	762.7	767.9	812.2	909.7	1065.2	1335.1	1836.3	2280.6	2265.3	1992.3	*1993.4*
40°	685.2	692.0	739.5	835.9	991.4	1268.7	1816.3	2404.0	2470.9	2142.0	*2136.2*
42.5°	606.7	616.7	662.0	756.3	911.8	1187.5	1763.0	2521.5	2731.8	2315.4	*2301.2*
45°	530.8	537.1	582.4	671.5	820.6	1090.5	1677.7	2634.3	3041.7	2578.9	*2558.4*
47.5°	445.4	448.0	494.9	580.3	726.3	982.5	1555.4	2735.0	3382.2	2927.9	*2892.6*
50°	369.5	373.2	410.1	483.3	610.9	854.4	1403.1	2794.0	3816.0	3403.8	*3342.7*
52.5°	298.8	302.5	332.1	390.6	504.9	708.4	1214.4	2780.3	4256.1	3994.7	*3905.6*
55°	241.4	244.0	264.1	309.9	397.4	563.4	991.4	2657.5	4744.7	4766.3	*4574.4*
57.5°	204.0	205.0	218.7	246.7	310.4	434.3	765.3	2367.6	5257.0	5750.8	*5435.7*
60°	182.4	182.9	189.2	206.6	245.1	331.5	560.8	1905.9	5787.7	6982.6	*6550.4*
62.5°	168.7	168.7	173.9	183.9	203.4	255.1	412.2	1368.8	6168.8	8322.9	*7893.4*
65°	155.5	155.5	159.2	167.6	178.1	208.2	309.4	882.8	6355.9	9443.5	*9348.1*
67.5°	*138.6*	*139.1*	*141.8*	*150.7*	*160.2*	*173.9*	*234.5*	*597.2*	*5967.5*	*9753.4*	*10236.2*
70°	122.8	123.3	127.0	132.8	140.7	150.2	183.4	411.6	4343.6	8123.2	*9152.5*
72.5°	105.4	107.5	110.2	116.5	121.2	128.1	149.7	266.7	2527.3	5225.4	*6050.2*
75°	86.4	89.1	92.2	98.6	101.7	104.4	123.3	190.3	1215.9	2648.0	*3015.4*
77.5°	66.9	69.6	73.3	79.1	81.2	84.3	94.3	137.6	582.4	1173.8	*1265.5*
80°	44.8	45.9	49.0	55.9	59.6	61.7	69.6	93.8	253.0	471.2	*467.0*
82.5°	27.4	27.9	29.0	33.2	34.8	36.9	45.3	57.5	120.7	535.5	*614.0*
85°	10.0	9.5	9.0	11.6	13.7	15.8	21.1	29.0	52.7	367.9	*411.6*
87.5°	0.0	0.0	0.0	0.5	1.1	1.1	2.1	4.2	12.6	137.6	*94.3*
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: P632547
CATALOG NUMBER: GWS-SA2C-830-U-T1-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1231.8	1231.8	1231.8	1231.8	1231.8	1231.8	1231.8	1231.8	1231.8	1231.8	1231.8
2.5°	1236.0	1230.2	1237.6	1242.8	1254.4	1258.6	1259.7	1256.0	1256.0	1249.7	1250.7
5°	1250.2	1246.5	1258.6	1267.6	1284.5	1290.8	1295.0	1292.4	1294.0	1289.7	1290.8
7.5°	1271.8	1268.7	1289.7	1307.1	1324.5	1331.9	1335.6	1333.5	1334.0	1328.7	1330.3
10°	1301.9	1302.9	1328.2	1350.9	1374.1	1381.4	1383.0	1376.7	1371.4	1361.9	1362.5
12.5°	1343.0	1348.2	1384.1	1409.4	1433.1	1443.6	1432.0	1408.9	1387.2	1370.9	1368.8
15°	1387.8	1397.3	1448.9	1481.1	1506.9	1501.6	1467.4	1415.2	1372.5	1348.2	1343.5
17.5°	1441.5	1455.8	1520.6	1559.1	1581.2	1547.5	1475.8	1397.8	1338.2	1305.5	1299.2
20°	1492.1	1514.8	1596.5	1646.6	1649.2	1573.3	1472.1	1362.5	1287.6	1247.6	1239.1
22.5°	1538.5	1567.5	1676.1	1739.9	1705.6	1584.9	1449.4	1312.4	1226.5	1179.6	1172.2
25°	1589.1	1630.2	1768.8	1828.4	1762.0	1580.2	1402.0	1250.2	1152.7	1104.7	1099.5
27.5°	1623.9	1675.5	1862.1	1919.1	1808.4	1553.3	1340.9	1182.2	1085.2	1039.9	1032.5
30°	1664.0	1729.8	1964.9	2017.6	1836.8	1513.7	1275.5	1119.0	1022.5	973.5	968.2
32.5°	1736.7	1819.4	2092.5	2122.0	1845.8	1464.7	1212.8	1057.8	957.2	908.1	900.8
35°	1853.7	1950.7	2271.7	2238.5	1838.9	1411.0	1153.2	986.1	890.2	844.4	837.0
37.5°	2001.3	2122.0	2471.4	2343.3	1820.0	1351.9	1082.6	926.1	830.1	783.8	779.5
40°	2138.8	2287.5	2695.4	2434.0	1781.5	1279.2	1014.6	863.3	765.3	716.3	706.8
42.5°	2311.2	2508.8	2954.7	2512.5	1718.2	1192.2	938.2	785.9	684.1	639.9	628.3
45°	2573.1	2818.8	3256.2	2587.9	1623.9	1085.2	842.3	691.5	595.1	549.7	540.8
47.5°	2899.9	3206.2	3583.0	2632.7	1480.5	972.4	733.7	591.9	495.4	444.3	440.1
50°	3359.0	3769.6	3933.5	2624.8	1320.3	838.6	611.4	473.3	392.7	355.8	350.0
52.5°	3918.2	4476.9	4312.5	2529.9	1150.1	686.2	476.5	371.6	311.5	285.1	280.4
55°	4619.8	5323.9	4711.5	2326.5	935.0	525.5	374.2	293.0	251.9	236.1	234.0
57.5°	5488.4	6420.7	5095.7	1983.9	703.1	401.1	288.3	241.9	222.4	212.9	212.4
60°	6634.7	7585.0	5429.3	1541.7	503.4	306.8	238.2	216.1	200.8	194.5	194.0
62.5°	7997.7	8642.3	5637.0	1049.9	378.4	244.6	209.8	196.1	187.1	183.4	182.9
65°	9398.7	9310.7	5537.9	687.8	287.3	207.7	188.2	180.8	172.9	169.2	169.2
67.5°	*10226.2*	*9169.4*	*4777.3*	*477.5*	*227.7*	*182.4*	*169.7*	*162.9*	*149.7*	*146.5*	*146.5*
70°	9057.7	7430.1	3131.3	349.4	184.5	159.7	147.6	138.1	132.8	129.7	129.1
72.5°	5990.7	4834.8	1665.0	242.5	153.9	136.0	124.9	121.2	114.9	111.7	111.2
75°	2981.6	2539.4	853.3	175.0	128.1	109.1	104.4	102.8	97.5	93.3	92.2
77.5°	1242.8	1130.6	397.9	127.0	97.5	88.0	83.8	83.8	78.0	73.3	71.2
80°	468.6	417.4	188.2	87.0	72.2	65.4	62.7	60.6	55.9	50.1	46.9
82.5°	626.7	409.5	92.2	54.3	47.4	42.2	38.5	36.9	34.3	31.6	29.5
85°	405.8	290.9	41.6	27.9	23.7	17.9	15.8	14.8	13.2	11.6	10.5
87.5°	82.7	97.5	12.6	5.3	3.2	1.6	1.6	0.5	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

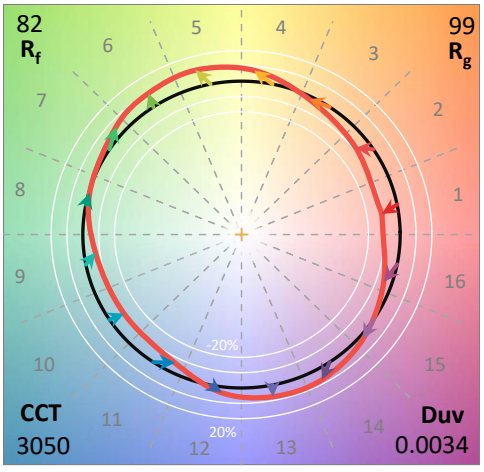
Test Information

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

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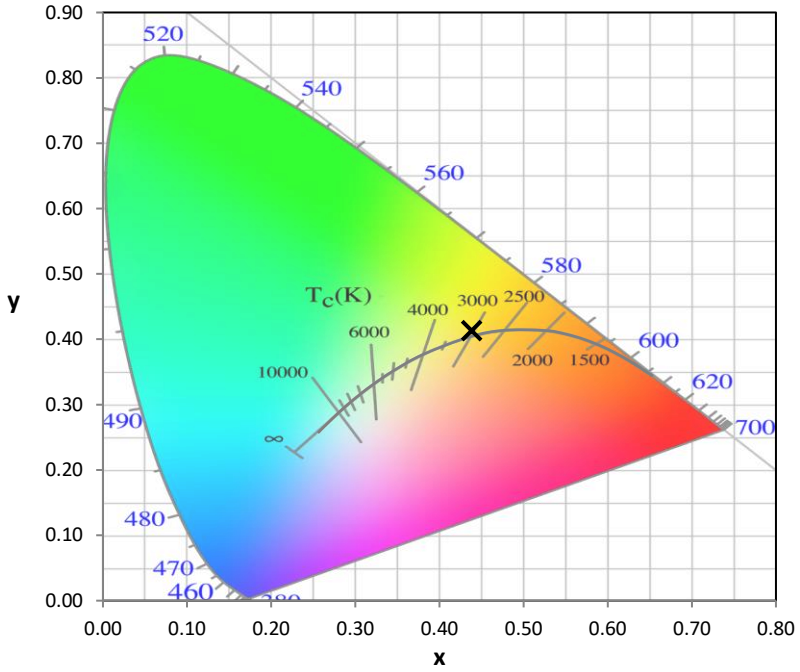
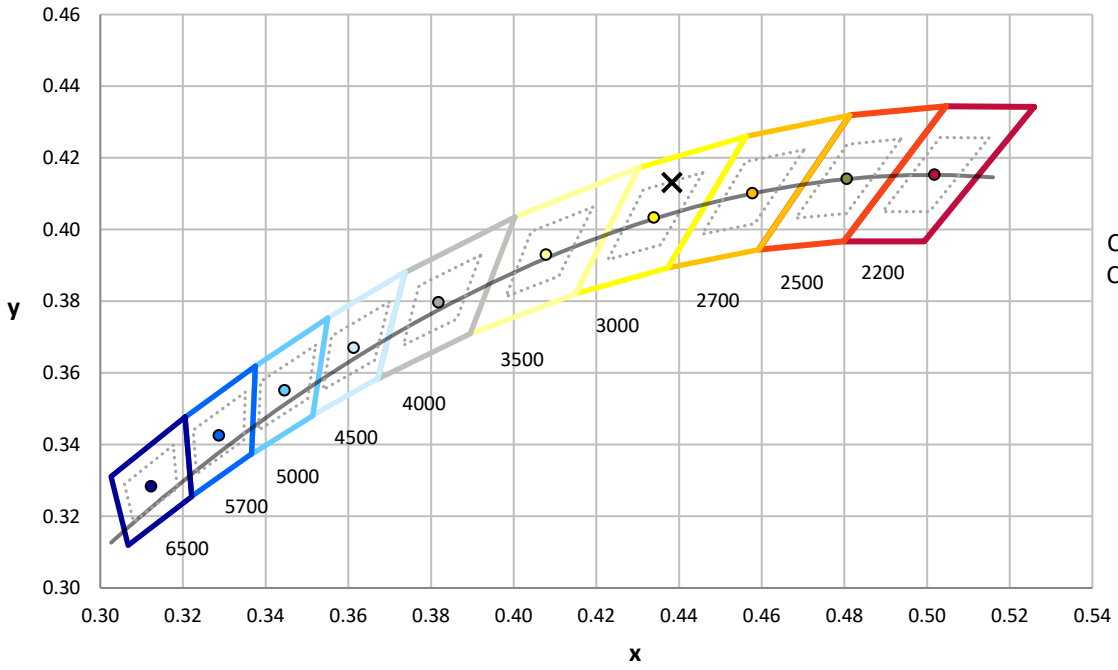
CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles

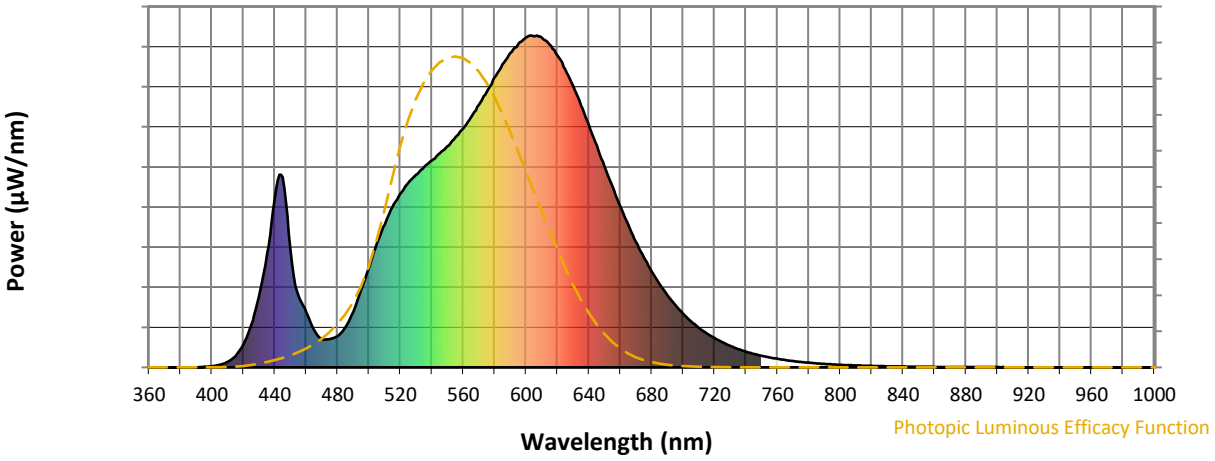


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

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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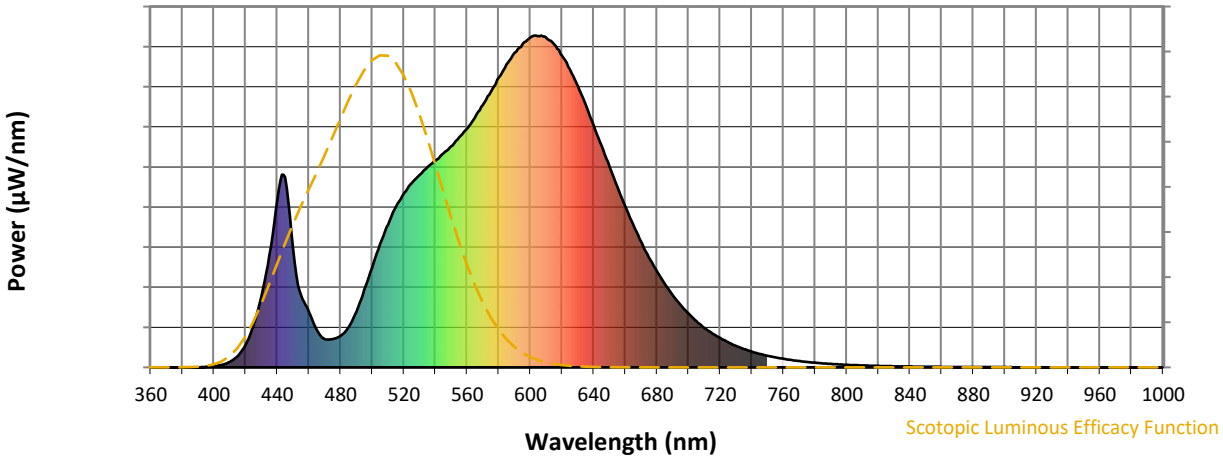
Scotopic Flux vs. Wavelength



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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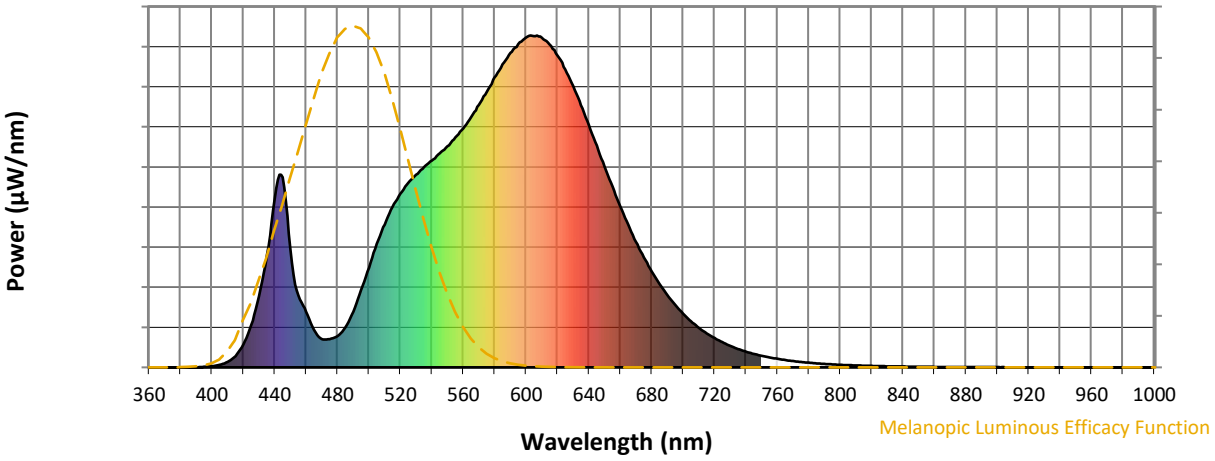
Melanopic Flux vs. Wavelength



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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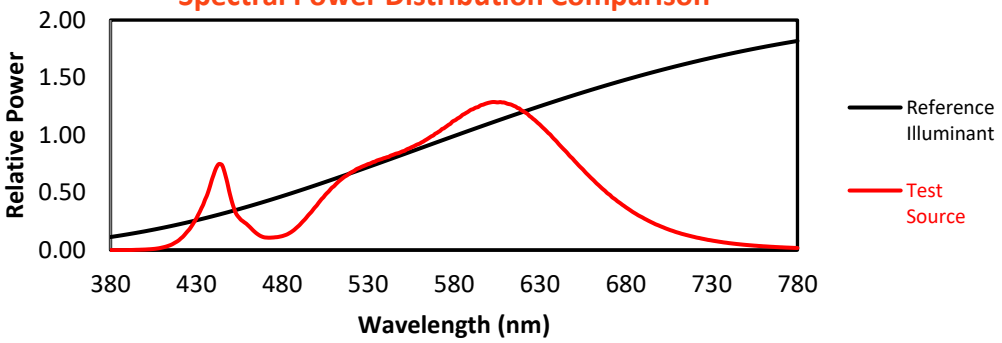
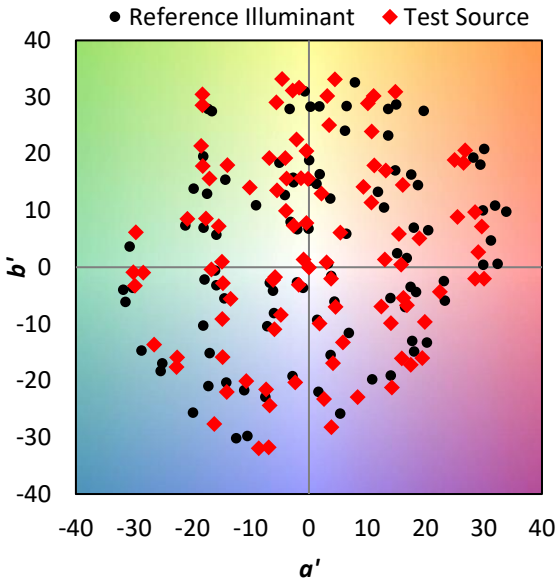
Summary

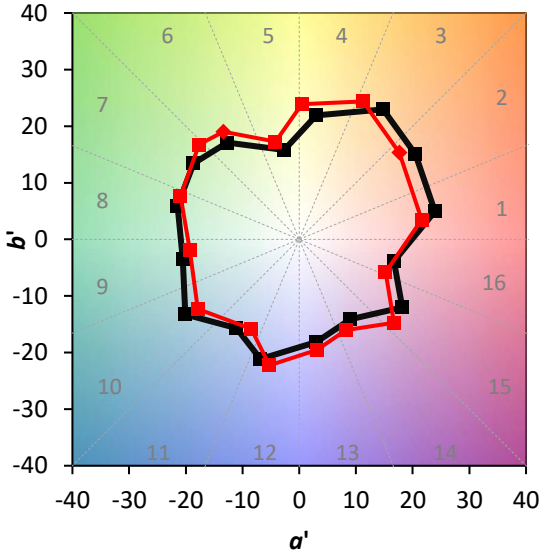
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

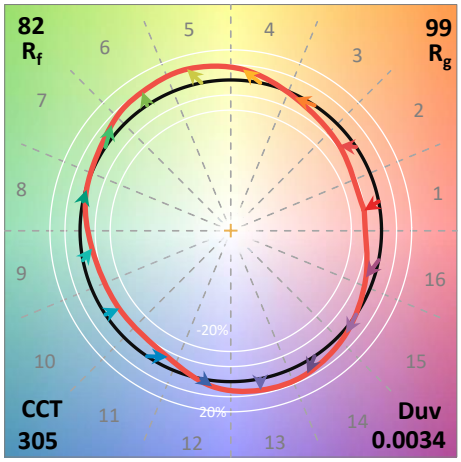
Spectral Power Distribution Comparison

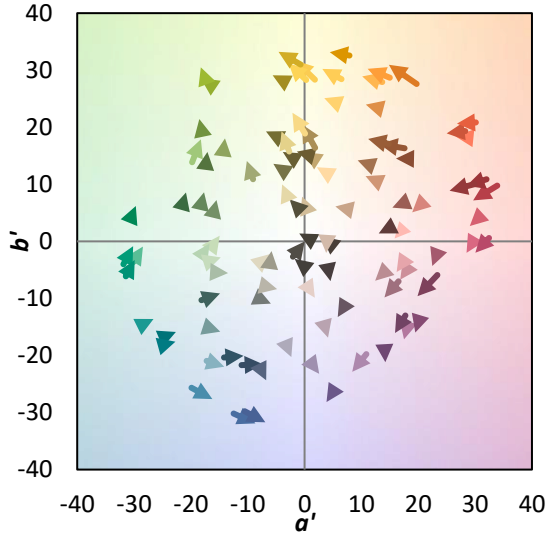


Color Vector Graphics









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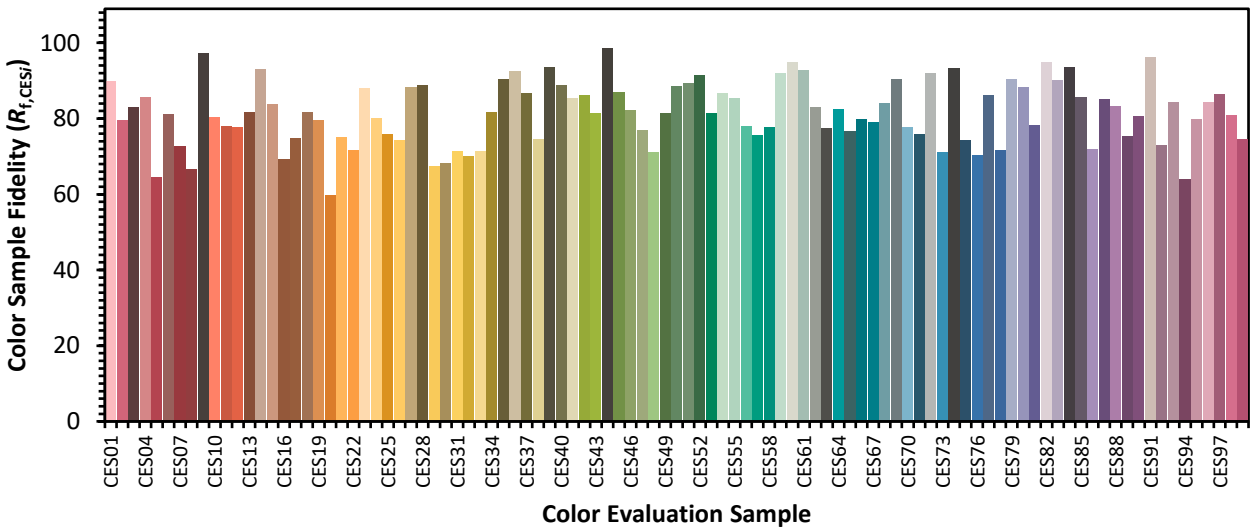
Individual Sample Fidelity Index ($R_{f,i}$)

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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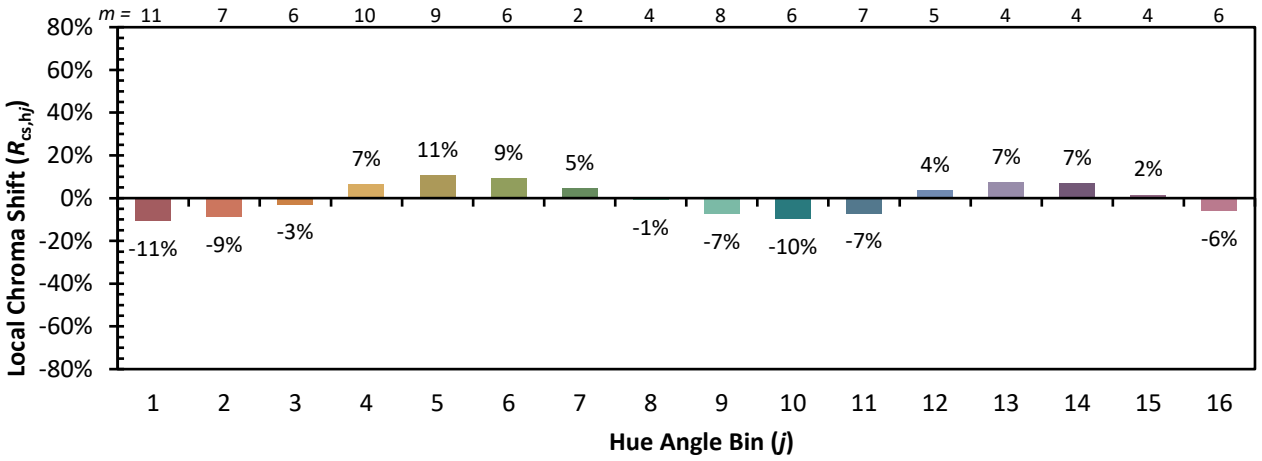
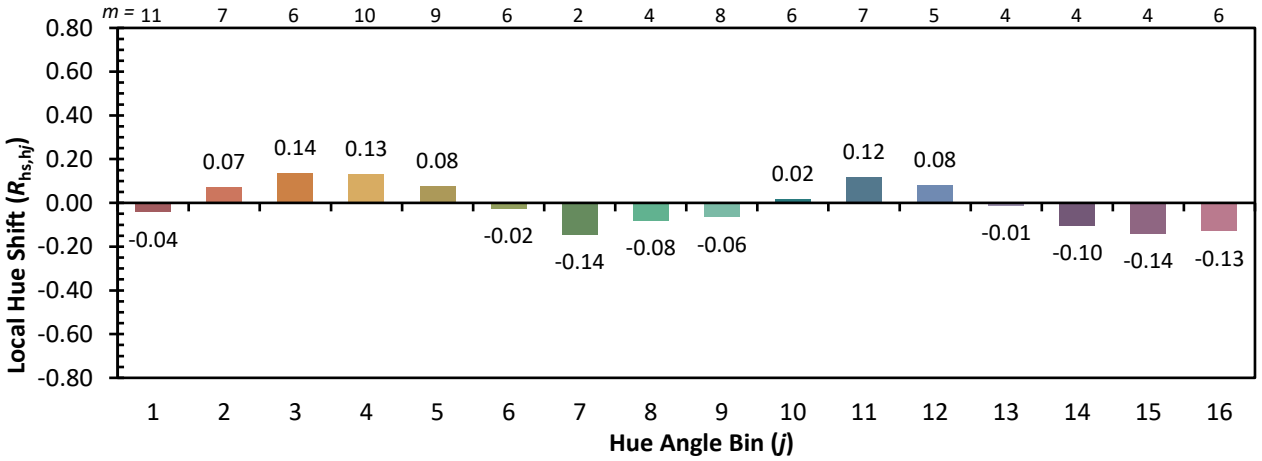
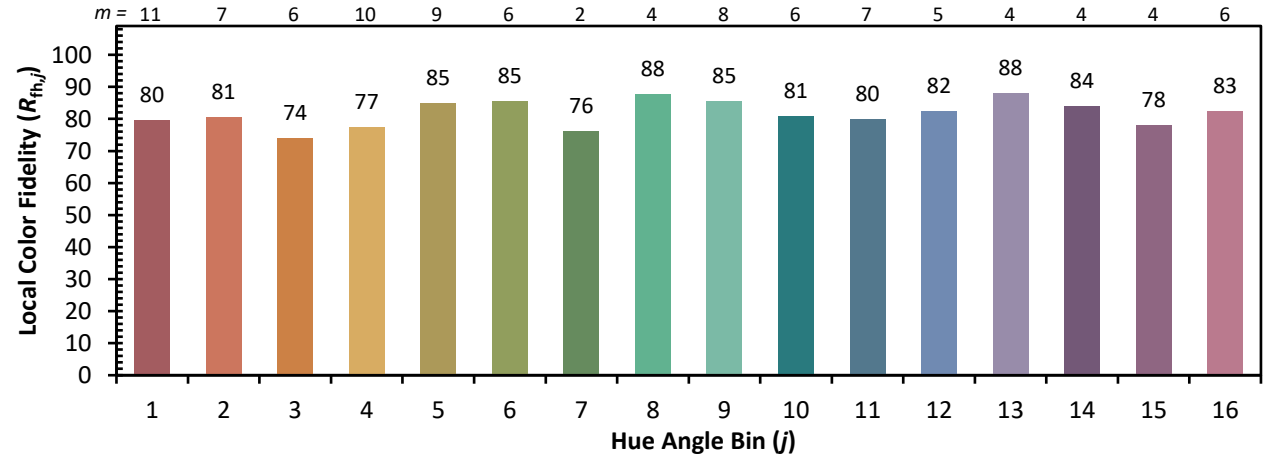
Color Rendition by Hue-Angle Bin







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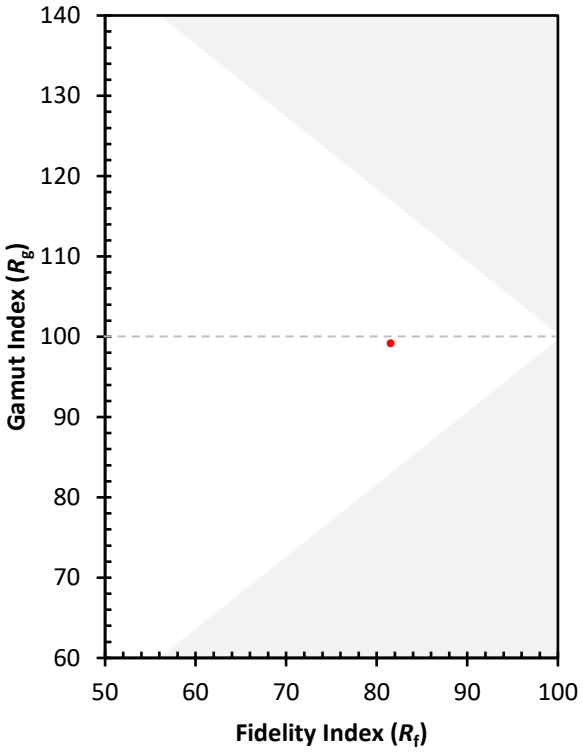
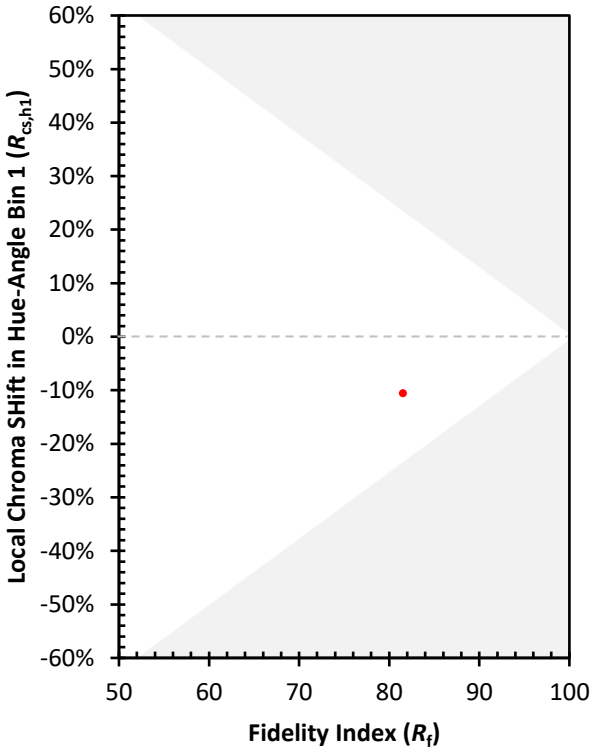
Measure Comparisons





(END OF REPORT)