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: P630065

Luminaire Tested: GWS-SA1C-830-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Report Generated By 670246102 / DESKTOP-G35701P

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P630065
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-39)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA1C-830-U-SLL-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(16) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2972.1 lumens
Efficiency:	N/A
Efficacy:	87.2 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B1 - U0 - G1

Input Watts (W):	34.1
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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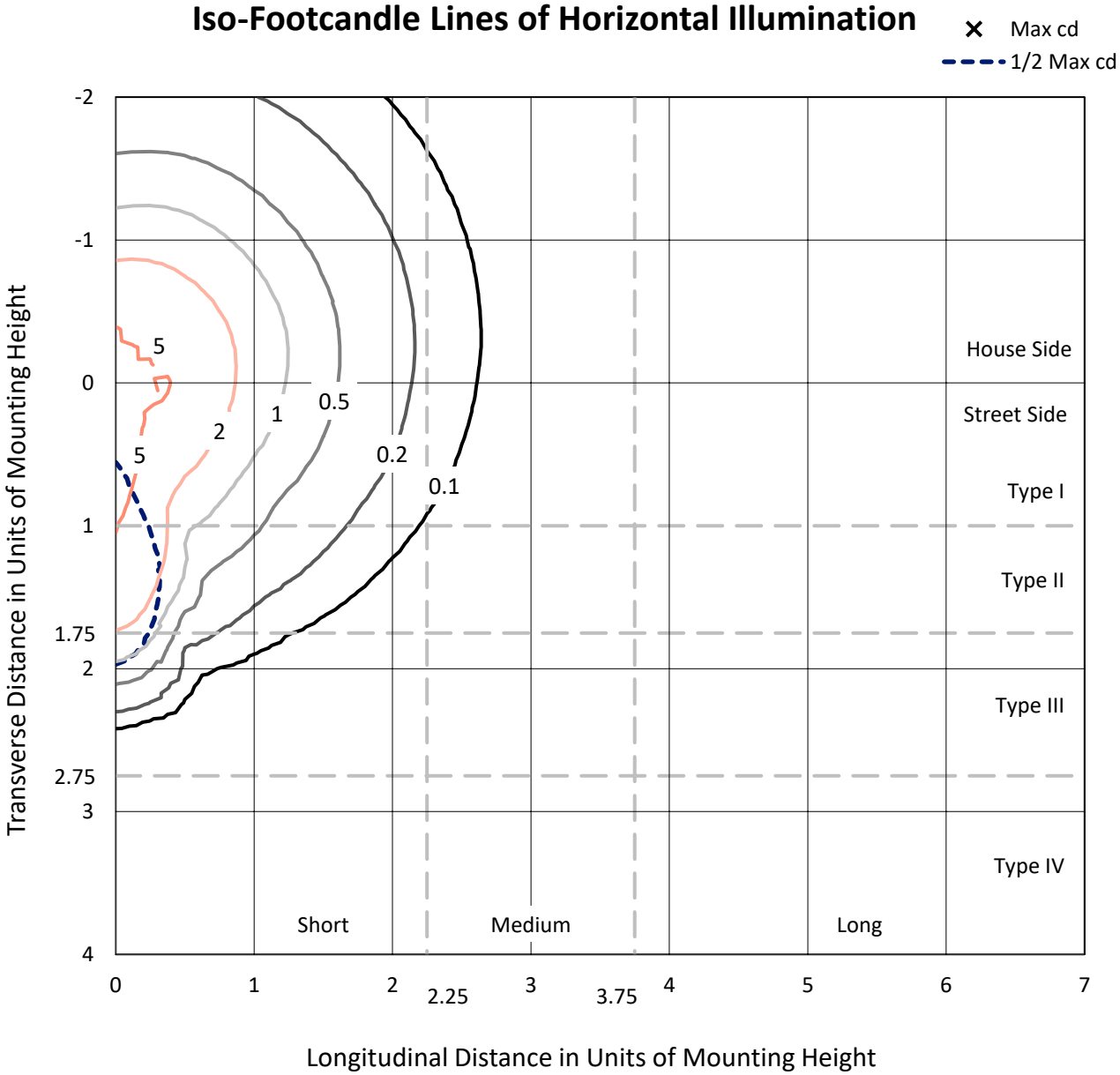
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 7.2 fc
Type III - Short - N/A

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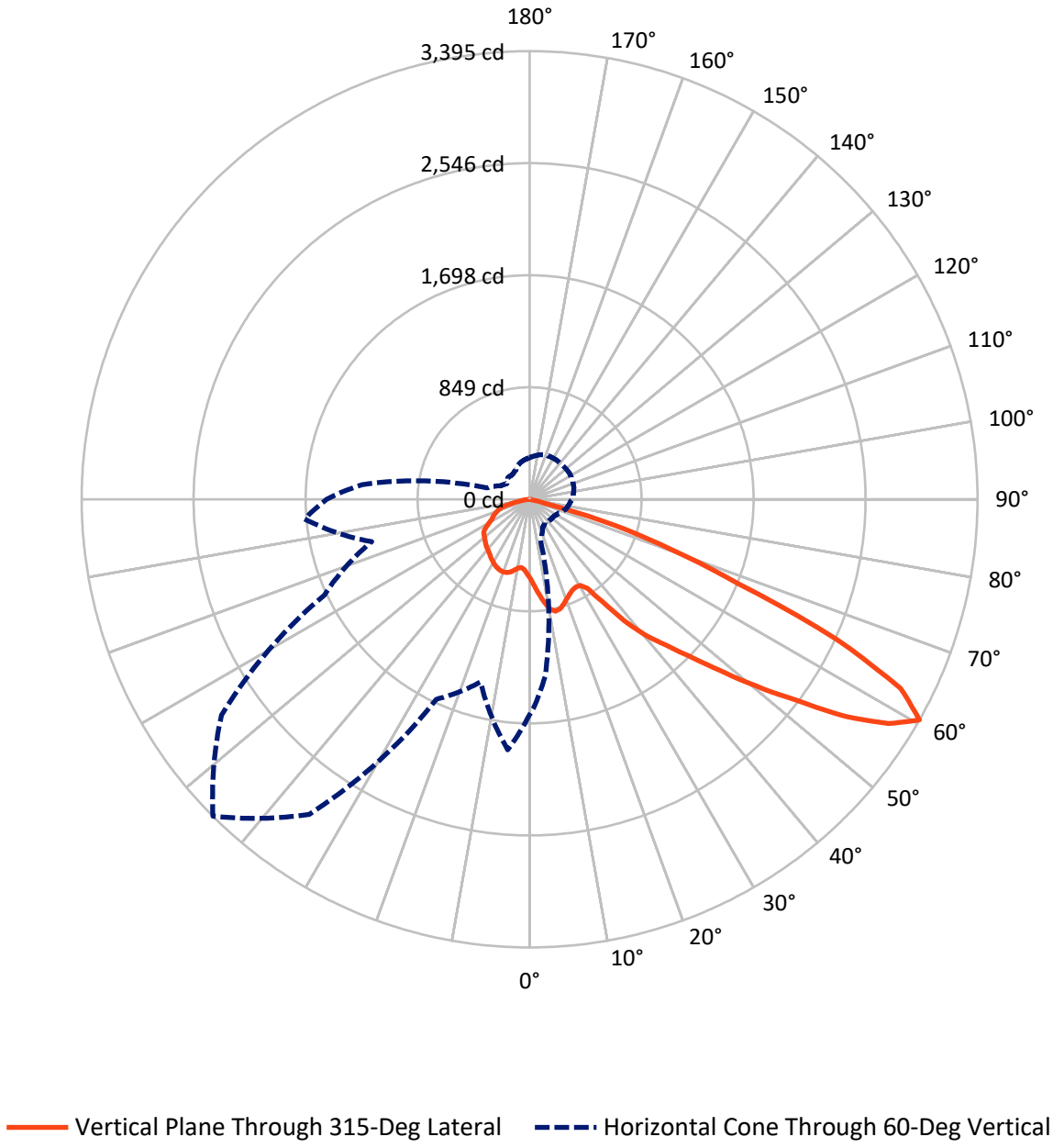
Luminous Intensity Polar Plot



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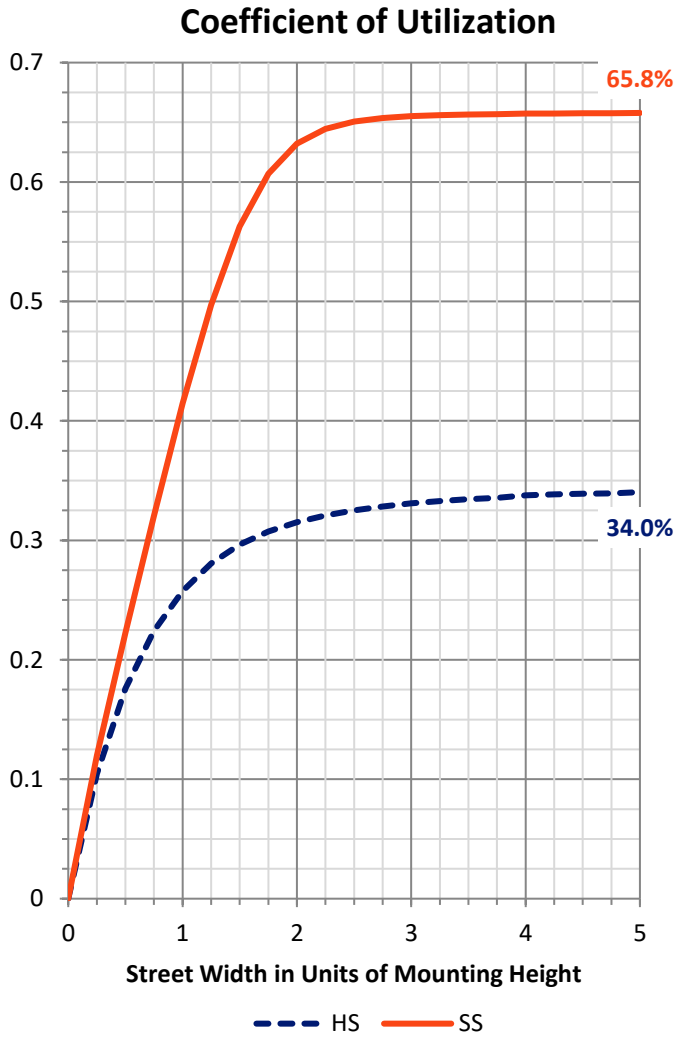
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1016.7	0.0	1016.7
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	1955.4	0.0	1955.4
	% Fixture	65.8	0.0	65.8
Total	Lumens	2972.1	0.0	2972.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.6	2.0
10°-20°	187.8	6.3
20°-30°	305.9	10.3
30°-40°	429.8	14.5
40°-50°	588.1	19.8
50°-60°	754.5	25.4
60°-70°	508.0	17.1
70°-80°	127.0	4.3
80°-90°	12.4	0.4
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°	2972.1	100.0
0°-180°	2972.1	100.0



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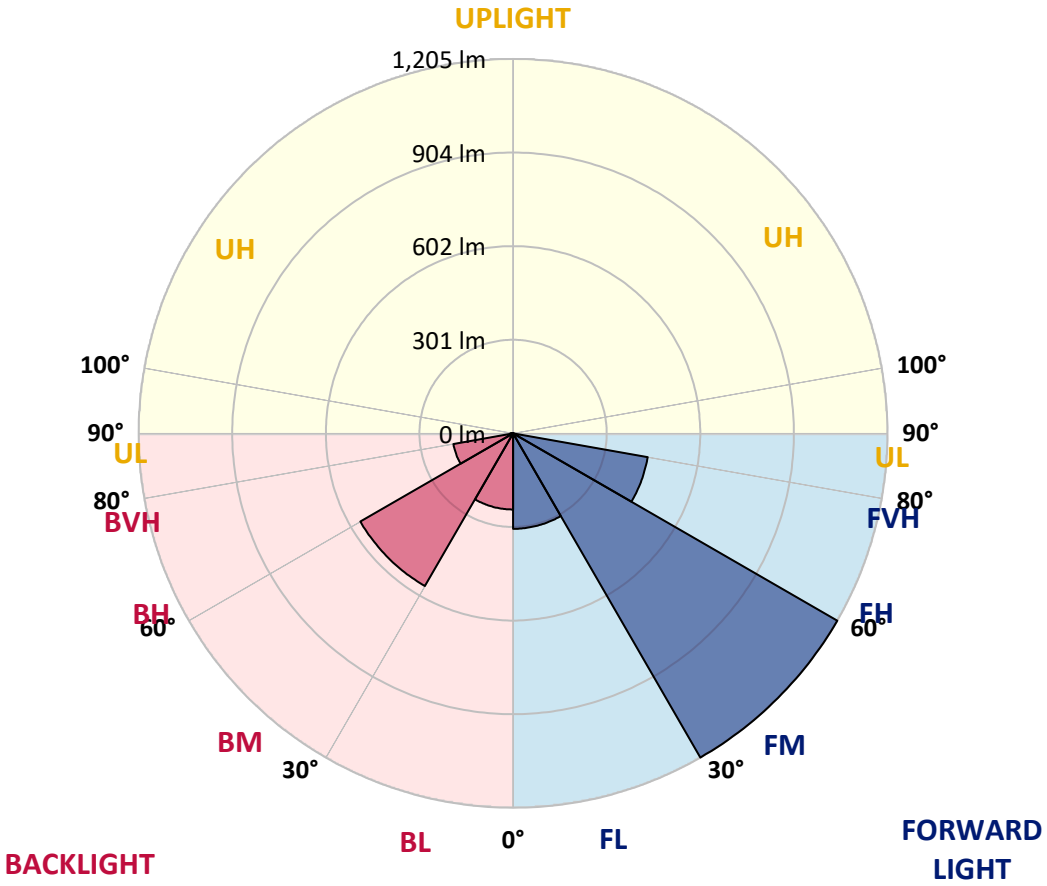
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	307.2	10.3			
FM	(30°-60°)	1204.9	40.5			
FH	(60°-80°)	440.0	14.8			G0/660
FVH	(80°-90°)	3.2	0.1			G0/10
BL	(0°-30°)	245.1	8.2	B1/500		
BM	(30°-60°)	567.4	19.1	B1/1000		
BH	(60°-80°)	195.1	6.6	B1/500		G1/500
BVH	(80°-90°)	9.2	0.3			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4
2.5°	634.2	632.8	631.5	620.8	618.1	610.4	604.9	598.1	588.2	582.7	578.1
5°	673.9	671.7	664.3	642.4	628.2	612.6	599.7	585.5	570.4	560.6	552.9
7.5°	711.4	710.8	698.3	662.1	639.1	616.7	599.2	578.4	556.7	542.0	532.1
10°	746.2	742.0	727.0	679.9	649.8	624.1	605.2	582.2	557.0	537.0	523.9
12.5°	776.8	771.6	750.8	696.3	659.1	627.4	606.8	587.9	571.2	554.6	539.5
15°	802.0	795.7	774.6	711.7	667.3	625.4	596.7	581.9	587.7	595.1	578.4
17.5°	825.5	819.0	793.2	722.9	669.8	613.7	571.8	565.5	594.5	628.2	620.5
20°	845.2	837.8	808.0	728.4	665.4	591.2	539.5	550.4	588.8	629.0	641.3
22.5°	866.6	860.6	824.7	736.3	659.9	560.3	512.4	539.2	578.9	614.2	632.8
25°	900.8	893.4	850.7	750.3	657.2	531.3	493.0	528.3	565.2	597.3	611.8
27.5°	950.3	936.7	886.3	774.6	660.2	503.9	480.6	514.9	549.4	576.7	588.5
30°	1004.3	987.8	925.7	799.8	664.6	487.2	474.1	499.5	525.0	552.4	565.2
32.5°	1068.0	1053.5	967.9	818.7	655.3	479.6	469.2	482.8	503.1	525.0	535.7
35°	1144.1	1118.1	1013.8	834.0	625.2	468.3	464.8	464.5	475.2	496.5	508.6
37.5°	1226.0	1198.1	1070.5	850.4	578.4	450.5	454.4	442.9	452.7	469.7	483.4
40°	1293.0	1263.8	1127.7	872.9	519.8	422.6	431.4	419.1	425.1	442.6	457.9
42.5°	1358.7	1327.5	1181.1	898.3	463.1	395.2	399.6	395.0	396.9	415.2	436.6
45°	1445.0	1409.9	1246.8	916.4	412.2	373.6	369.5	361.6	371.7	395.5	418.2
47.5°	1588.9	1547.1	1354.4	928.2	375.3	361.3	342.4	337.8	350.4	376.9	400.4
50°	1757.3	1721.1	1526.2	927.6	347.6	350.9	316.1	312.0	332.8	359.7	384.6
52.5°	1895.2	1858.5	1673.2	900.3	324.9	328.7	300.8	289.3	317.8	342.7	367.6
55°	2006.6	1965.3	1740.8	785.8	296.2	293.4	284.1	263.0	298.9	325.7	349.0
57.5°	1946.7	1897.4	1659.0	597.5	266.6	249.4	255.4	239.8	273.2	306.8	329.3
60°	*1632.2*	*1587.8*	*1347.8*	*318.1*	*234.6*	*208.3*	*220.9*	*223.4*	*245.0*	*284.1*	*307.1*
62.5°	1121.1	1088.8	913.4	193.0	185.0	167.2	186.9	204.7	220.9	254.0	274.0
65°	548.5	538.9	456.8	123.7	129.5	135.2	154.9	176.5	200.4	229.4	250.5
67.5°	151.1	152.2	138.5	96.6	102.1	118.0	133.6	150.8	174.6	201.5	222.8
70°	66.5	67.6	69.8	74.5	84.9	99.4	115.5	133.3	155.2	177.6	198.2
72.5°	46.3	47.4	50.6	56.7	66.0	79.7	95.0	112.0	134.7	153.6	170.5
75°	28.5	29.3	32.3	37.5	43.8	54.2	69.3	84.9	104.8	122.1	137.1
77.5°	15.1	14.5	16.4	20.0	25.5	30.9	41.1	50.9	65.1	79.1	91.7
80°	8.2	7.9	9.0	10.9	12.6	17.0	23.8	30.4	38.6	46.5	53.4
82.5°	3.6	3.3	3.6	4.7	5.7	8.2	12.0	16.7	21.3	26.8	31.2
85°	0.0	0.0	0.0	0.3	1.4	2.2	4.1	6.0	8.8	12.0	14.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.5
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4
2.5°	575.4	568.5	568.0	562.5	563.0	563.3	557.8	555.6	557.6	559.8	558.7
5°	550.2	543.1	540.0	534.8	534.3	531.8	529.6	526.9	528.8	530.7	531.8
7.5°	528.3	523.6	521.7	520.3	520.9	519.8	515.4	512.9	512.7	513.5	514.6
10°	521.2	517.3	519.8	523.6	526.4	528.3	523.6	519.5	515.7	514.0	514.0
12.5°	536.5	531.6	536.5	540.6	546.1	547.4	542.2	537.9	536.5	538.1	541.4
15°	570.4	558.9	558.7	561.1	565.5	567.7	562.8	560.6	560.6	571.0	579.2
17.5°	604.4	585.5	577.5	576.2	578.9	579.7	575.6	573.7	578.6	598.9	614.2
20°	628.2	605.2	587.9	584.7	585.5	585.8	582.5	581.1	588.2	612.9	625.7
22.5°	625.7	608.7	587.7	583.6	584.9	584.4	581.4	580.8	586.6	607.9	613.9
25°	608.7	595.6	577.8	575.1	577.3	577.0	574.0	572.6	575.1	589.3	589.9
27.5°	589.3	577.8	562.5	561.7	565.2	567.1	561.9	557.8	557.0	566.6	564.4
30°	566.0	557.6	545.2	545.8	552.4	553.5	547.2	541.1	539.5	544.7	541.7
32.5°	538.4	535.7	529.1	530.5	536.8	538.9	532.4	526.1	524.2	525.8	519.5
35°	514.9	513.8	514.3	516.8	522.3	523.9	518.4	513.5	510.8	505.0	496.8
37.5°	490.5	493.5	501.5	506.1	509.1	508.6	505.6	502.0	497.6	486.9	476.8
40°	467.8	475.4	489.7	494.9	496.0	496.2	494.1	491.0	485.6	471.3	459.8
42.5°	450.3	458.8	477.6	485.6	486.1	486.7	484.5	482.0	474.4	455.5	444.2
45°	431.9	443.1	465.3	474.9	474.4	474.1	472.2	471.1	462.0	440.1	427.8
47.5°	416.3	429.5	453.3	461.5	461.2	460.9	459.6	459.6	450.5	426.7	412.8
50°	401.0	416.1	441.0	447.8	448.3	447.8	447.3	448.1	437.4	411.9	398.3
52.5°	384.3	401.3	427.3	433.6	436.9	438.2	438.2	436.3	423.7	397.2	382.1
55°	366.0	382.1	412.2	420.7	423.4	425.9	425.9	422.1	410.3	383.5	367.3
57.5°	343.2	357.5	381.3	389.8	396.3	398.0	398.0	391.7	382.1	356.4	343.2
60°	*318.6*	*330.9*	*347.1*	*356.1*	*361.0*	*357.7*	*360.2*	*358.6*	*350.9*	*327.1*	*316.1*
62.5°	285.8	298.4	316.1	325.4	327.6	324.4	327.6	327.4	317.0	295.6	282.5
65°	262.2	274.5	292.1	304.1	307.7	306.8	309.0	305.7	292.9	272.6	260.0
67.5°	234.3	247.4	267.7	281.1	288.5	289.3	292.3	285.5	272.3	250.2	234.3
70°	207.8	219.0	234.6	247.2	257.6	262.8	263.3	253.5	237.0	218.7	207.2
72.5°	179.8	191.3	210.2	223.9	237.0	243.1	243.1	231.0	213.2	193.0	180.7
75°	145.9	156.6	173.8	188.6	203.6	211.3	211.0	200.6	180.9	161.8	148.9
77.5°	98.8	106.7	117.7	128.9	131.1	137.1	140.1	127.0	116.1	105.7	94.2
80°	57.5	62.4	68.4	74.7	76.1	78.0	73.1	68.2	62.4	55.6	50.4
82.5°	33.7	37.0	40.0	44.9	45.7	46.3	41.9	39.7	35.0	30.9	27.6
85°	16.4	17.5	20.3	22.7	21.6	21.1	19.2	17.0	15.1	13.4	11.8
87.5°	3.3	3.3	4.9	4.7	3.8	3.3	1.9	2.5	0.5	0.5	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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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4
2.5°	562.2	566.9	572.6	580.3	589.0	598.3	607.4	614.2	621.1	631.2	629.5
5°	533.5	541.4	550.4	562.2	576.4	592.6	610.7	628.7	648.2	664.6	671.7
7.5°	516.8	525.5	536.2	551.5	569.9	589.6	615.0	644.3	675.8	697.4	710.8
10°	516.8	528.0	542.0	556.7	572.9	593.1	624.6	661.3	701.8	730.3	745.9
12.5°	546.6	557.8	560.8	560.3	569.3	591.8	632.3	679.1	727.5	757.6	776.8
15°	593.1	597.0	574.3	553.5	554.8	581.9	635.8	693.3	749.7	785.8	806.6
17.5°	624.3	614.2	573.7	537.3	529.6	565.2	635.8	707.0	773.3	814.0	833.5
20°	626.8	601.6	559.8	521.7	502.0	543.1	631.5	717.4	796.0	841.1	861.9
22.5°	605.2	580.3	545.0	508.3	479.3	516.2	624.3	725.4	815.4	866.6	892.3
25°	580.6	559.8	529.9	494.6	463.7	489.1	617.8	738.8	842.5	901.1	927.1
27.5°	556.5	538.9	511.9	483.1	454.9	465.6	613.7	758.5	874.8	950.1	972.5
30°	532.9	517.1	492.4	472.2	450.3	450.3	610.1	781.2	917.5	1005.1	1027.5
32.5°	509.1	494.1	474.1	461.5	447.5	444.2	600.3	802.5	961.6	1065.3	1088.3
35°	486.9	471.9	456.6	451.4	446.2	439.6	575.9	819.2	1004.5	1135.7	1155.4
37.5°	466.1	451.6	440.1	438.8	439.3	427.0	537.6	833.2	1058.2	1207.6	1218.0
40°	448.1	431.9	422.9	422.6	425.4	406.7	489.1	853.2	1119.5	1268.7	1264.3
42.5°	431.9	415.0	404.0	406.5	404.8	386.5	441.8	871.5	1172.9	1325.9	1317.1
45°	416.1	399.6	384.3	387.9	385.9	373.9	401.5	884.9	1232.0	1394.6	1395.7
47.5°	400.7	384.6	369.2	364.9	364.6	370.1	370.6	889.3	1328.4	1505.2	1480.3
50°	386.5	370.3	354.5	339.7	345.4	362.4	347.6	886.0	1472.6	1627.2	1557.7
52.5°	371.7	356.4	338.9	312.3	327.4	344.1	327.1	874.3	1560.7	1735.1	1693.5
55°	354.7	340.2	316.4	284.1	302.5	306.0	306.0	760.4	1598.2	1841.8	1867.6
57.5°	332.0	312.9	275.1	249.1	265.5	251.8	283.6	532.1	1536.4	1808.2	1908.1
60°	*306.3*	*285.8*	*245.8*	*227.2*	*232.1*	*208.0*	*241.7*	*333.7*	*1273.3*	*1538.6*	*1711.6*
62.5°	272.3	253.5	220.3	205.8	195.7	169.7	194.6	211.0	872.9	1142.5	1260.5
65°	249.6	228.8	199.3	180.1	159.3	136.6	129.2	138.5	469.4	639.4	719.1
67.5°	222.8	202.3	174.4	150.3	133.6	117.2	104.3	101.0	160.9	213.0	230.5
70°	197.4	177.6	154.4	131.9	115.2	99.1	86.5	77.5	74.5	73.9	72.8
72.5°	171.3	153.0	133.6	112.8	94.4	79.7	68.4	58.0	53.6	52.3	50.9
75°	140.4	125.9	106.5	84.0	69.3	55.6	46.8	40.0	36.1	34.8	33.1
77.5°	90.3	83.8	66.8	54.2	41.9	33.1	28.5	24.1	21.6	21.1	19.7
80°	48.2	44.9	37.0	31.2	24.9	20.3	17.8	15.3	14.0	13.4	12.9
82.5°	26.8	24.4	20.5	18.1	14.5	12.3	10.9	9.9	9.0	8.8	8.5
85°	12.0	10.4	8.2	7.7	6.8	6.3	6.0	5.5	5.2	4.9	4.7
87.5°	0.5	1.1	1.4	1.1	1.1	1.6	1.9	1.9	1.6	1.6	1.4
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: P630065
CATALOG NUMBER: GWS-SA1C-830-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4
2.5°	639.7	647.9	648.7	651.4	647.9	647.1	641.3	638.0	635.0	634.2
5°	689.5	705.9	712.5	717.1	712.8	710.6	698.0	684.8	677.5	673.9
7.5°	740.7	765.3	778.2	783.9	784.5	774.6	753.0	728.4	716.0	711.4
10°	786.4	816.8	833.7	844.7	840.9	828.8	799.3	765.9	750.3	746.2
12.5°	820.3	849.3	862.5	869.6	869.3	862.8	834.8	798.7	780.9	776.8
15°	842.2	859.5	860.3	861.9	866.6	875.3	860.8	827.4	807.7	802.0
17.5°	859.5	852.6	839.8	835.4	845.8	870.1	878.9	851.8	830.5	825.5
20°	870.4	835.9	813.2	804.7	816.8	856.5	889.9	873.7	851.5	845.2
22.5°	878.9	820.3	783.7	777.9	790.5	841.7	901.1	899.7	875.3	866.6
25°	892.3	809.9	762.9	758.7	770.5	834.6	916.1	935.0	913.4	900.8
27.5°	913.4	808.8	752.2	750.8	767.0	840.9	937.8	986.8	959.7	950.3
30°	942.7	819.2	754.6	757.4	777.1	863.6	971.4	1045.9	1018.8	1004.3
32.5°	984.8	847.2	792.1	803.9	818.4	900.0	1020.7	1109.9	1089.4	1068.0
35°	1040.4	923.8	903.0	953.1	939.4	979.6	1080.1	1187.7	1162.8	1144.1
37.5°	1114.6	1080.9	1100.1	1169.0	1135.9	1130.2	1152.6	1258.3	1244.6	1226.0
40°	1218.6	1225.4	1260.7	1351.3	1303.4	1266.5	1241.6	1311.4	1316.0	1293.0
42.5°	1287.6	1319.0	1404.2	1507.1	1441.1	1352.7	1316.0	1379.3	1379.5	1358.7
45°	1313.3	1395.7	1573.6	1692.1	1581.8	1402.0	1357.1	1471.5	1468.8	1445.0
47.5°	1304.0	1460.3	1749.6	1930.8	1762.5	1437.0	1351.3	1602.9	1625.1	1588.9
50°	1284.6	1525.2	1955.2	2223.1	1984.2	1474.2	1342.6	1748.5	1785.2	1757.3
52.5°	1304.3	1597.4	2198.2	2525.3	2262.3	1533.6	1401.7	1935.5	1928.9	1895.2
55°	1366.7	1682.8	2493.6	2905.0	2567.7	1634.1	1553.6	2113.6	2046.9	2006.6
57.5°	1363.7	1743.9	2752.5	3205.2	2833.5	1716.5	1606.4	2132.5	1997.6	1946.7
60°	1237.7	1715.9	2851.0	3395.2	2913.7	1671.0	1432.6	1904.8	1685.6	1632.2
62.5°	923.8	1522.7	2660.0	3157.3	2686.8	1443.3	1077.4	1367.2	1211.2	1121.1
65°	591.0	1191.2	2236.3	2557.9	2214.6	1103.9	641.6	733.0	574.3	548.5
67.5°	251.5	840.9	1738.4	1709.6	1656.8	715.2	247.7	206.4	153.8	151.1
70°	83.2	572.1	1071.6	1140.3	989.5	492.7	81.8	69.3	69.0	66.5
72.5°	54.5	307.1	603.3	671.7	636.7	283.6	49.5	46.3	47.4	46.3
75°	32.6	66.8	101.5	131.9	101.5	47.6	29.8	29.3	29.8	28.5
77.5°	19.2	18.6	18.1	18.1	17.8	16.4	15.1	14.5	14.8	15.1
80°	12.3	11.8	11.2	10.9	9.6	9.0	8.5	7.9	7.9	8.2
82.5°	7.9	7.4	6.8	6.0	4.9	4.1	3.8	3.3	3.3	3.6
85°	4.1	3.3	2.5	1.9	1.1	0.5	0.0	0.0	0.0	0.0
87.5°	0.8	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

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.

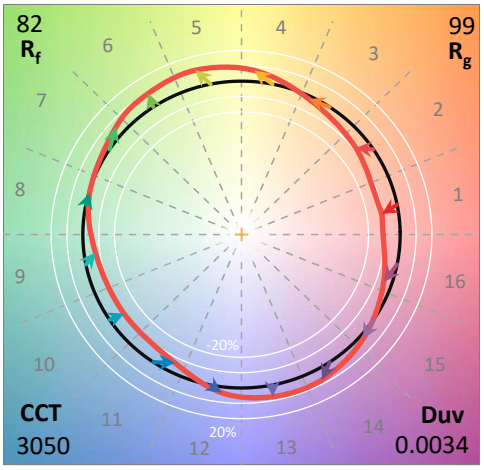
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

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

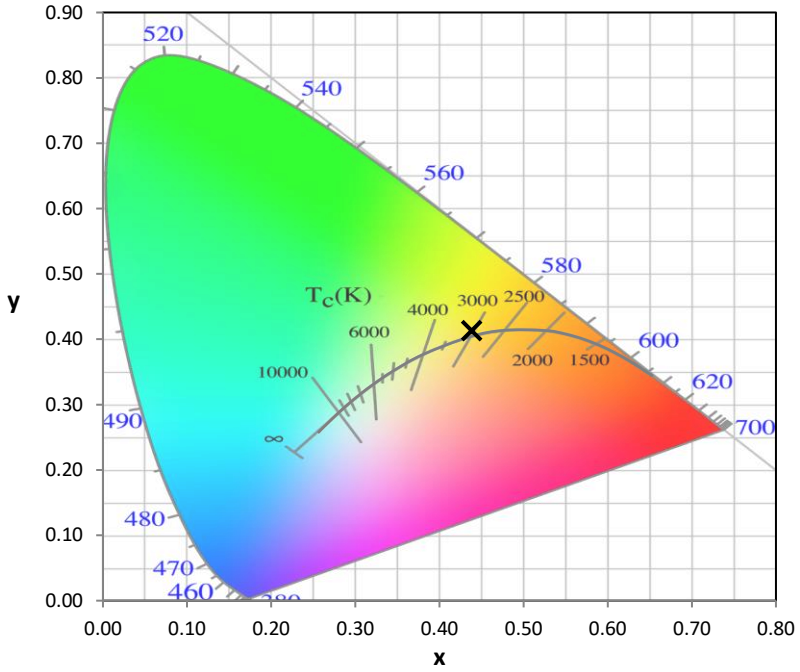
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

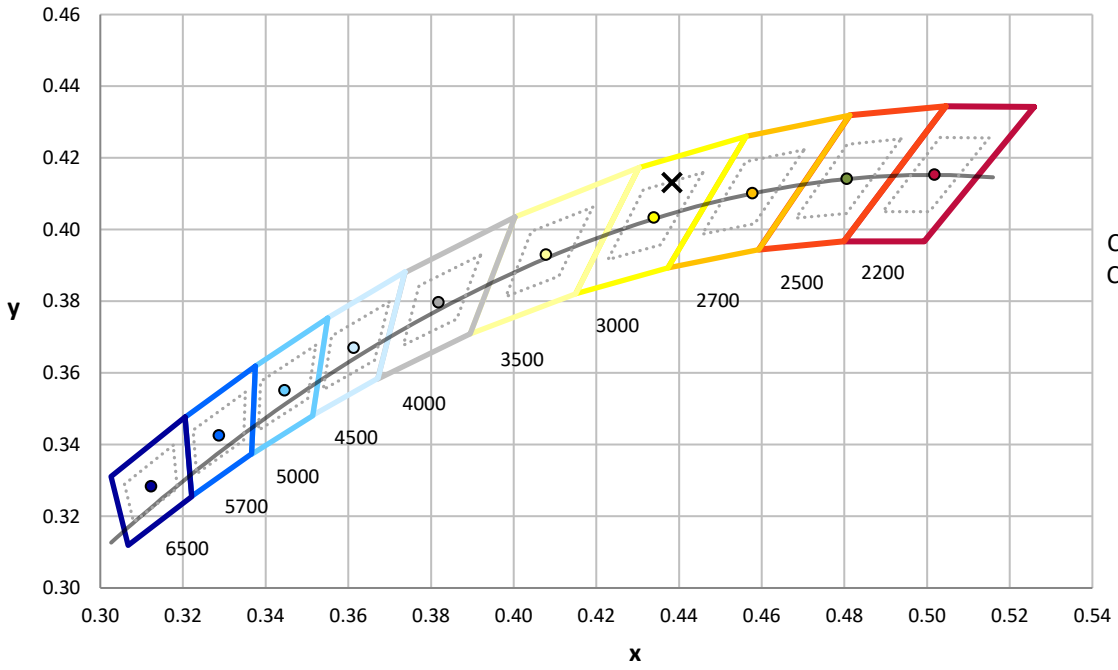
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

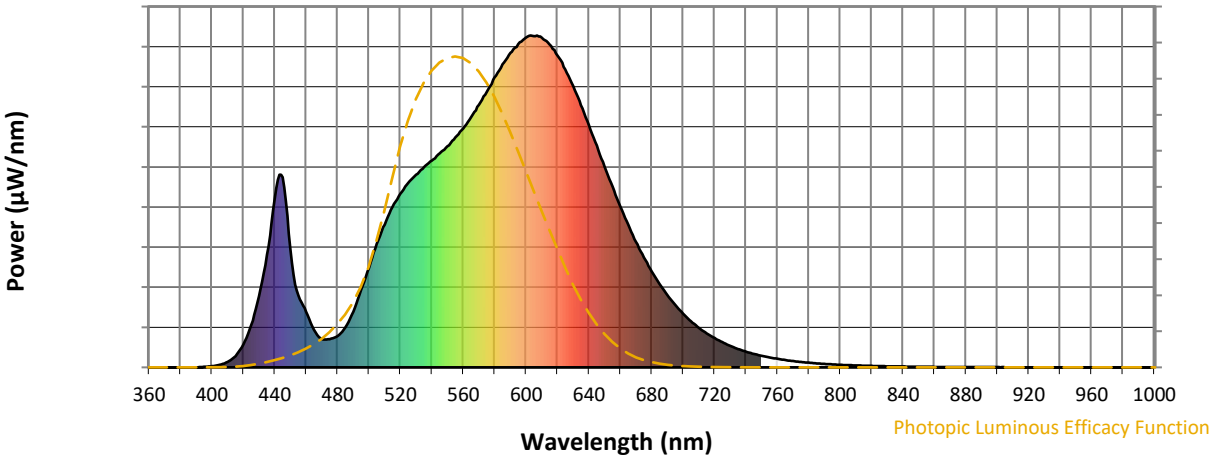


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

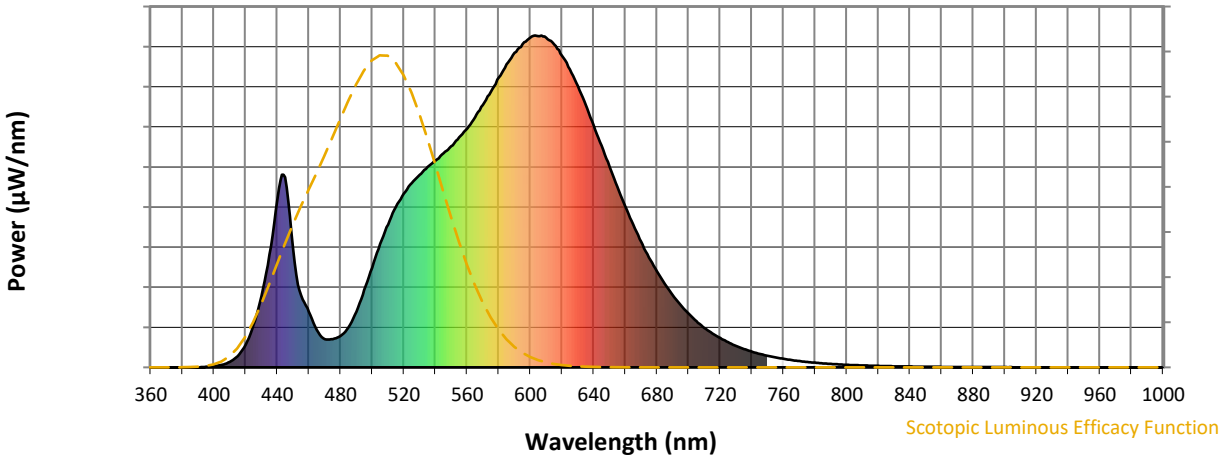


Photopic Lumens: NR

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

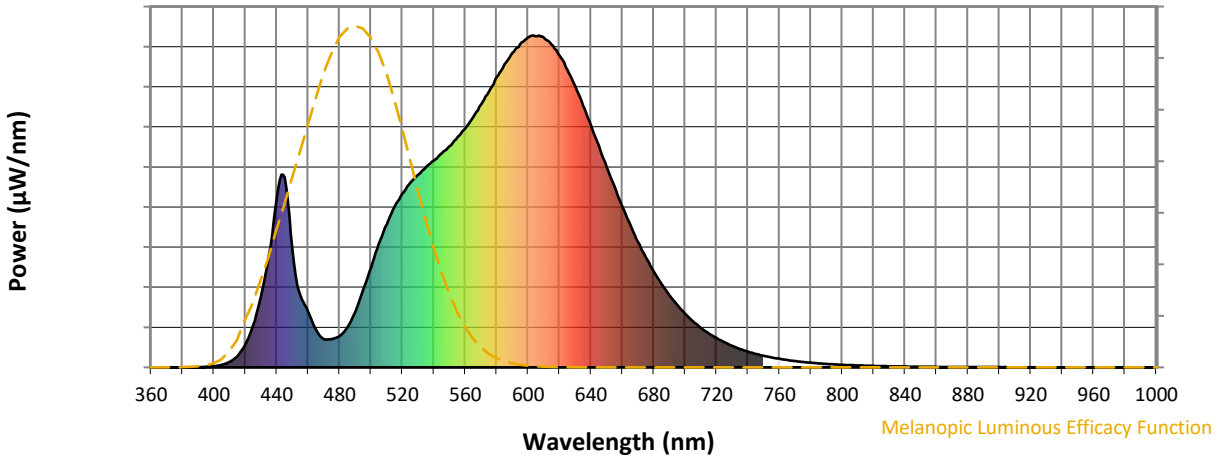


Scotopic Lumens: NR **S/P: 1.27**

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			

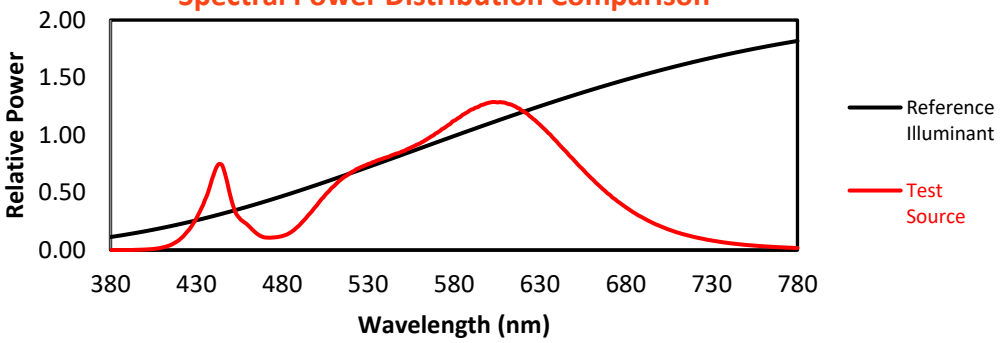
REPORT NUMBER: SP1-2408-195-9

TM-30-18

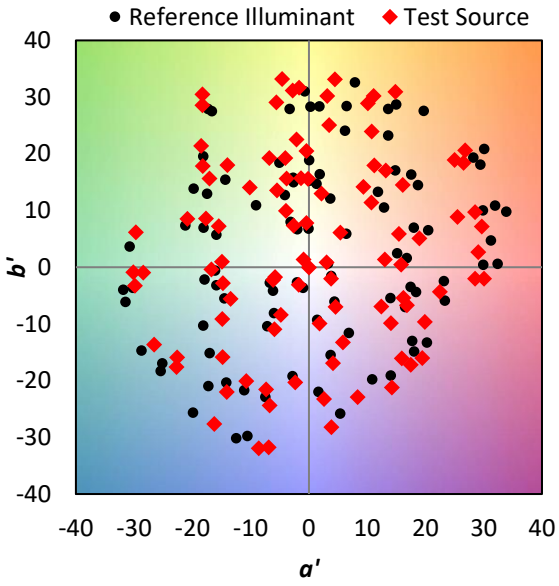
Summary

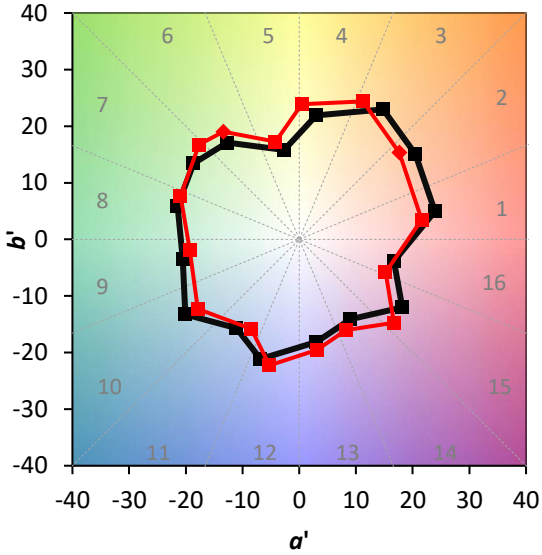
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

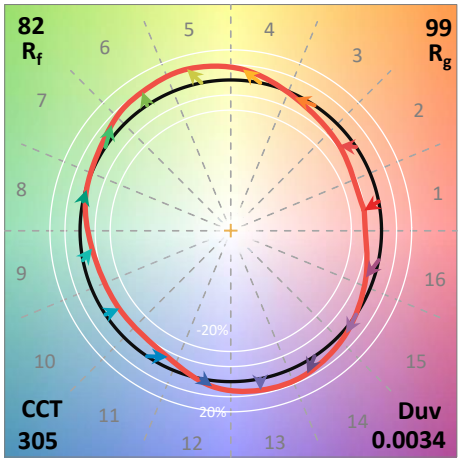
Spectral Power Distribution Comparison

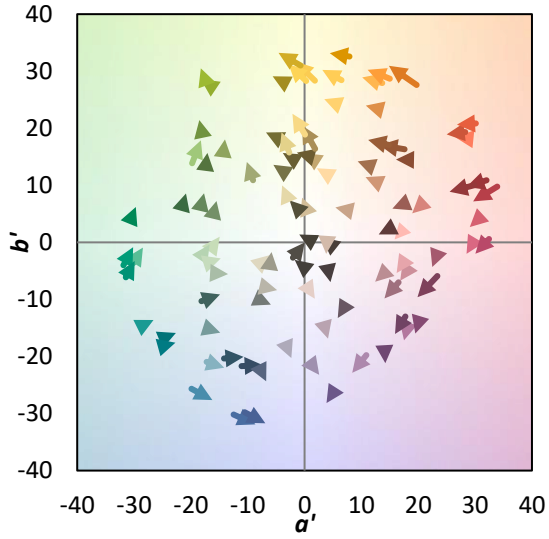


Color Vector Graphics







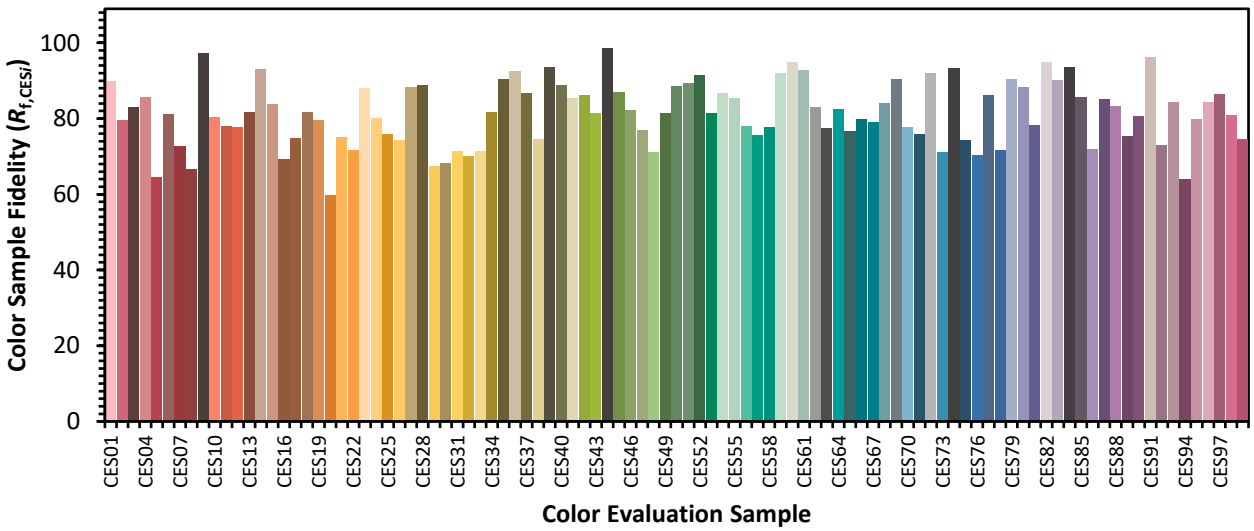


REPORT NUMBER: SP1-2408-195-9

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

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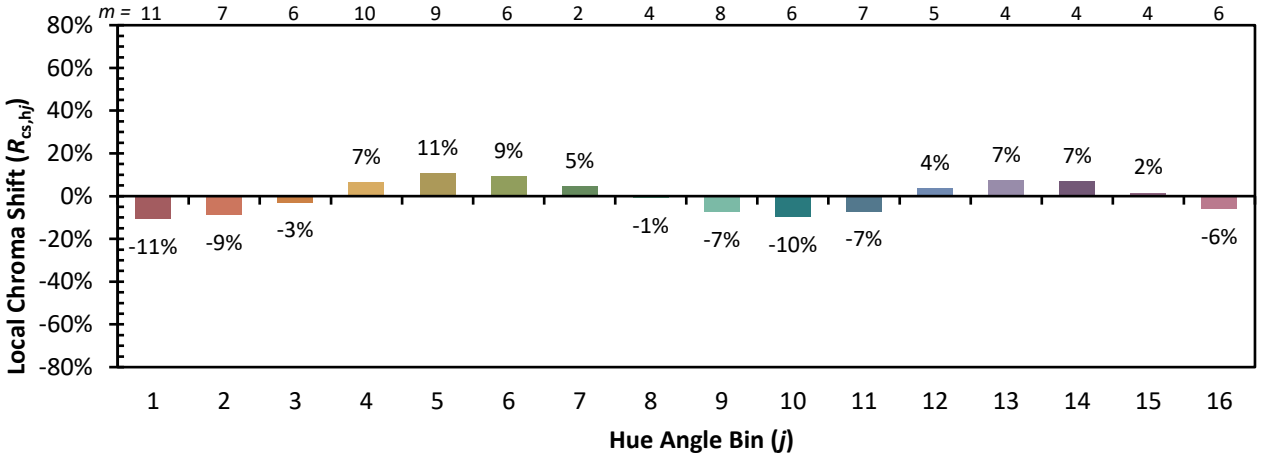
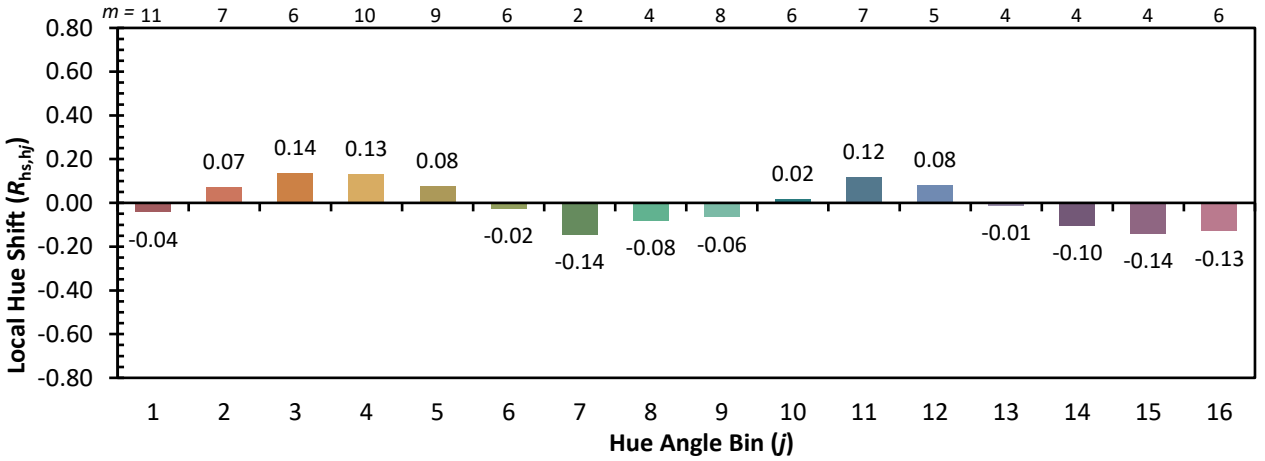
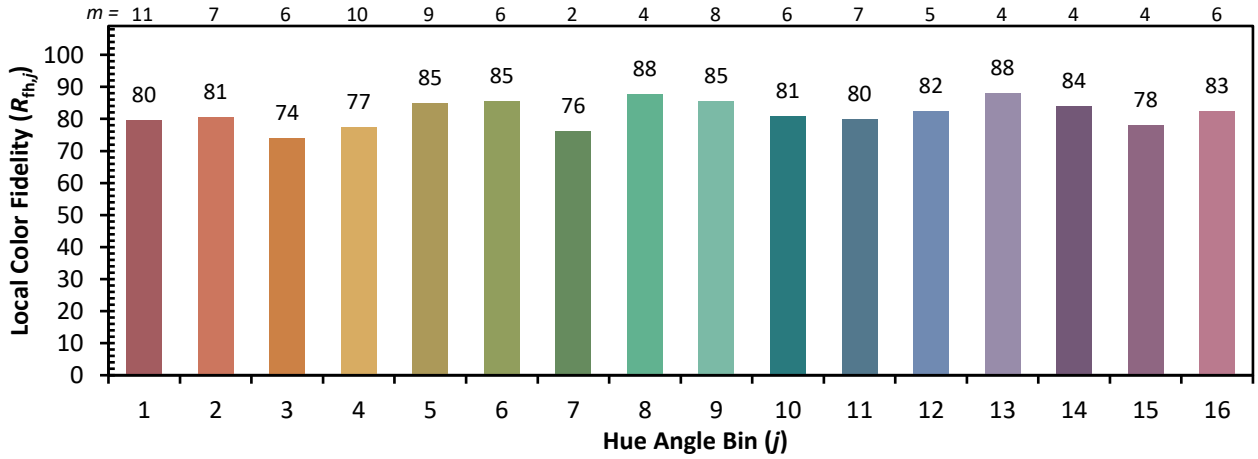
Color Rendition by Hue-Angle Bin







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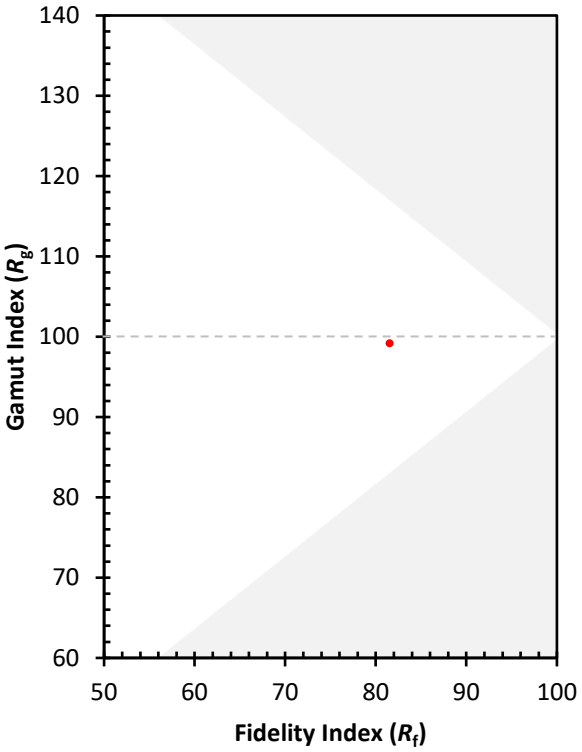
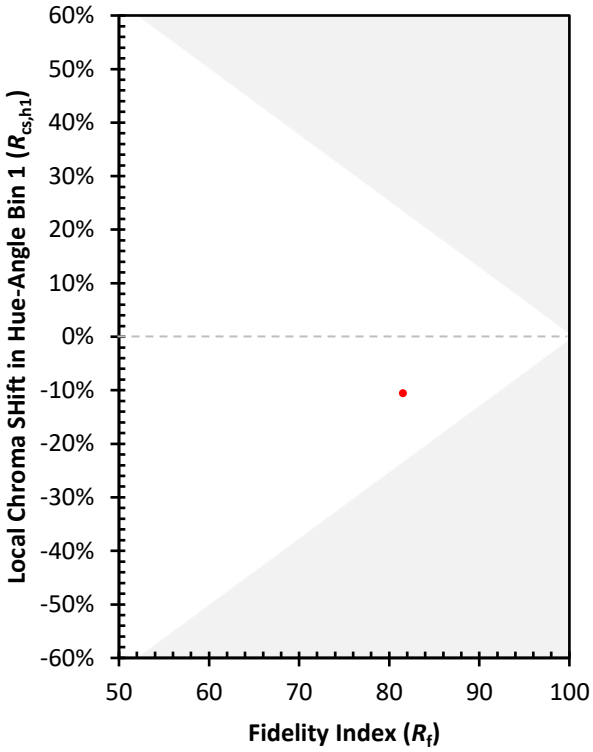
Measure Comparisons





(END OF REPORT)