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: P635014

Luminaire Tested: GWS-SA3C-830-U-SLL-W-GRSBK

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:	P635014
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-38)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA3C-830-U-SLL-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT 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:	5942 lumens
Efficiency:	N/A
Efficacy:	63.9 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B1 - U0 - G1

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

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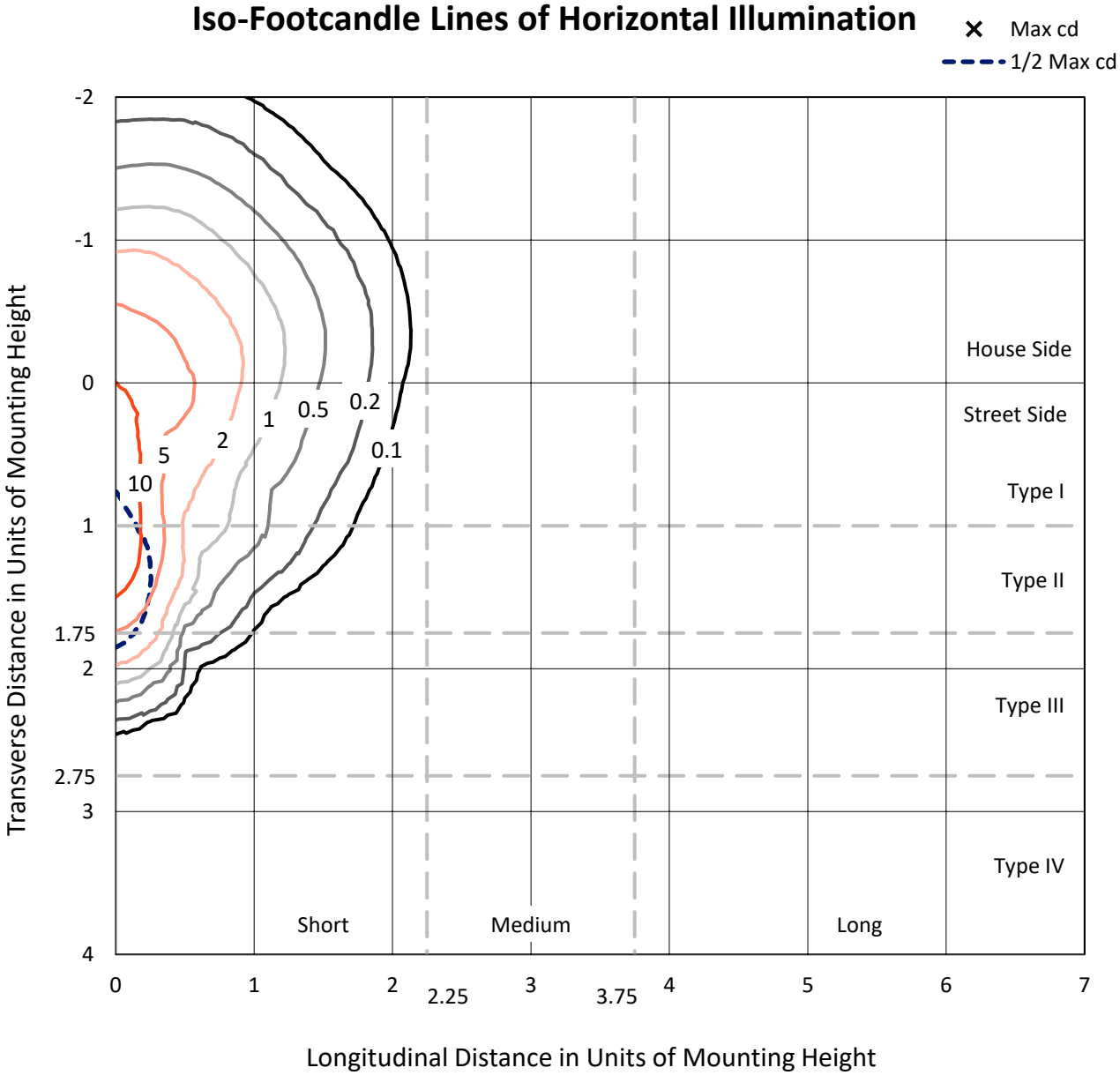
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 15.9 fc
Type III - Short - N/A

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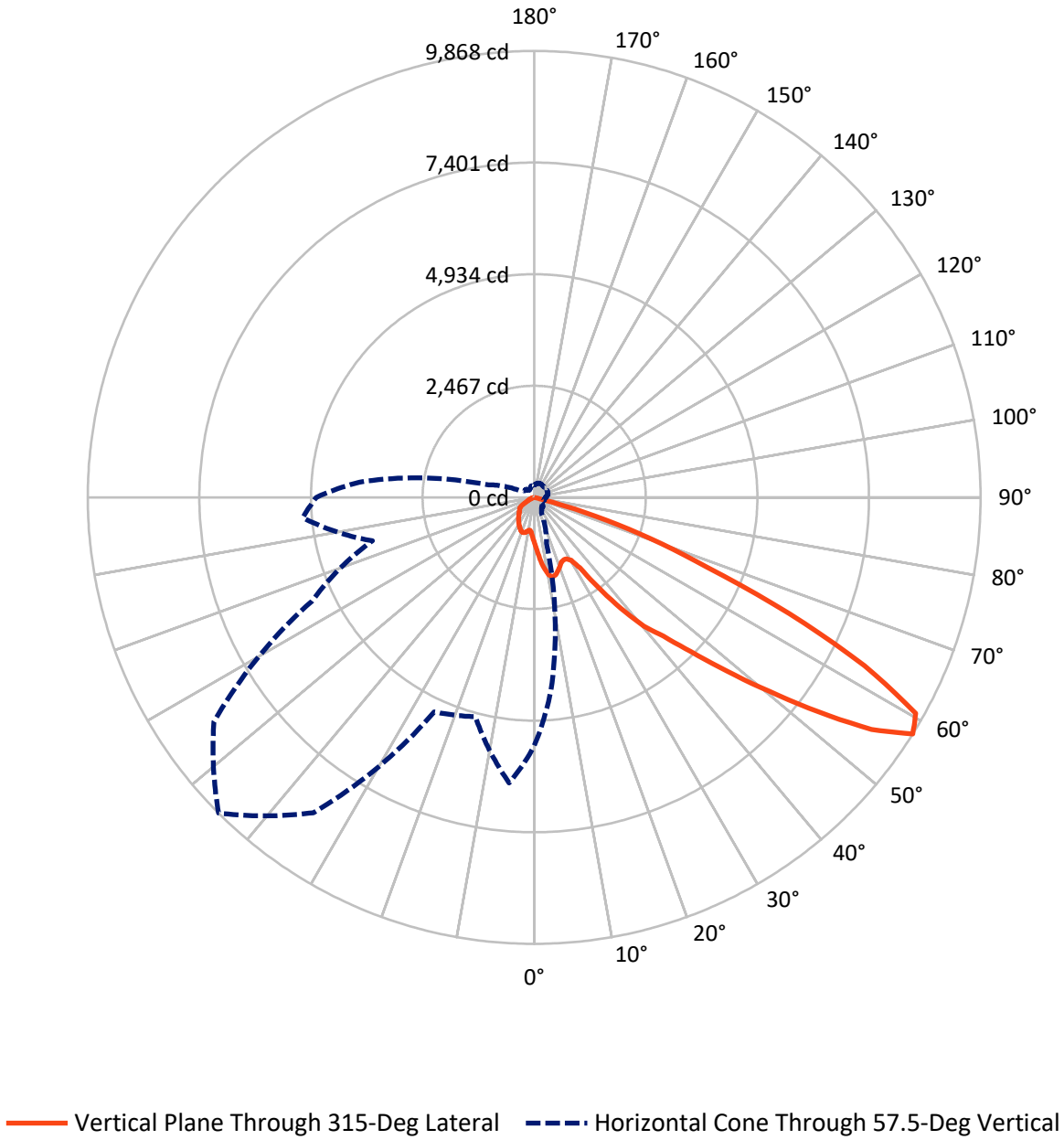
Luminous Intensity Polar Plot



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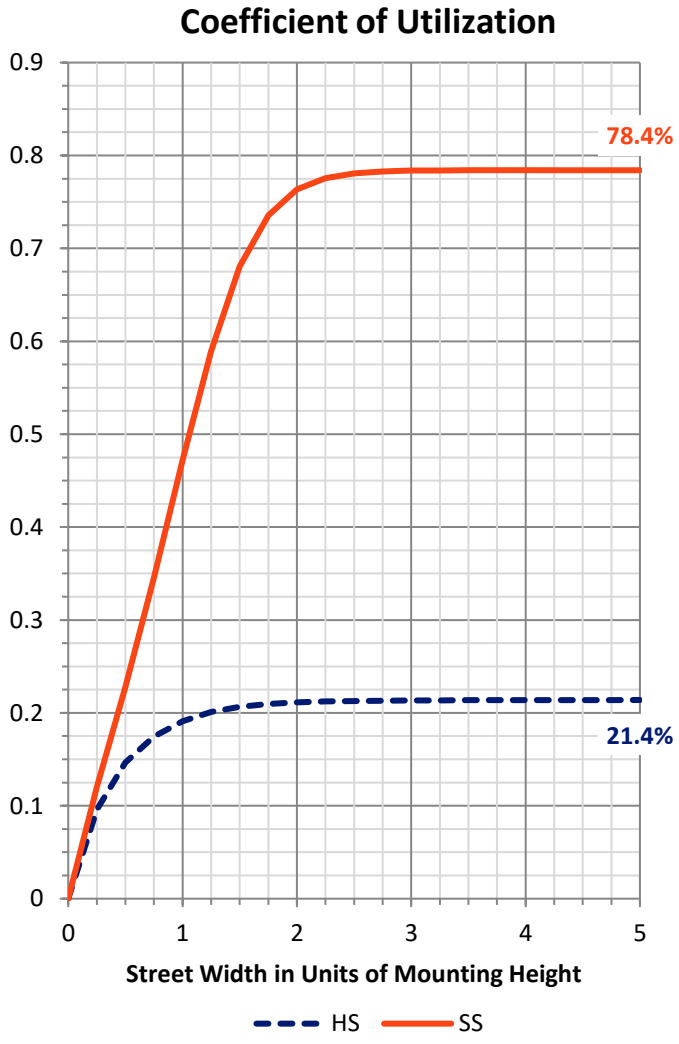
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1280.1	0.0	1280.1
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	4661.9	0.0	4661.9
	% Fixture	78.5	0.0	78.5
Total	Lumens	5942.0	0.0	5942.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.8	1.7
10°-20°	328.4	5.5
20°-30°	532.9	9.0
30°-40°	817.9	13.8
40°-50°	1306.2	22.0
50°-60°	1828.9	30.8
60°-70°	937.7	15.8
70°-80°	90.3	1.5
80°-90°	0.0	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°	5942.0	100.0
0°-180°	5942.0	100.0



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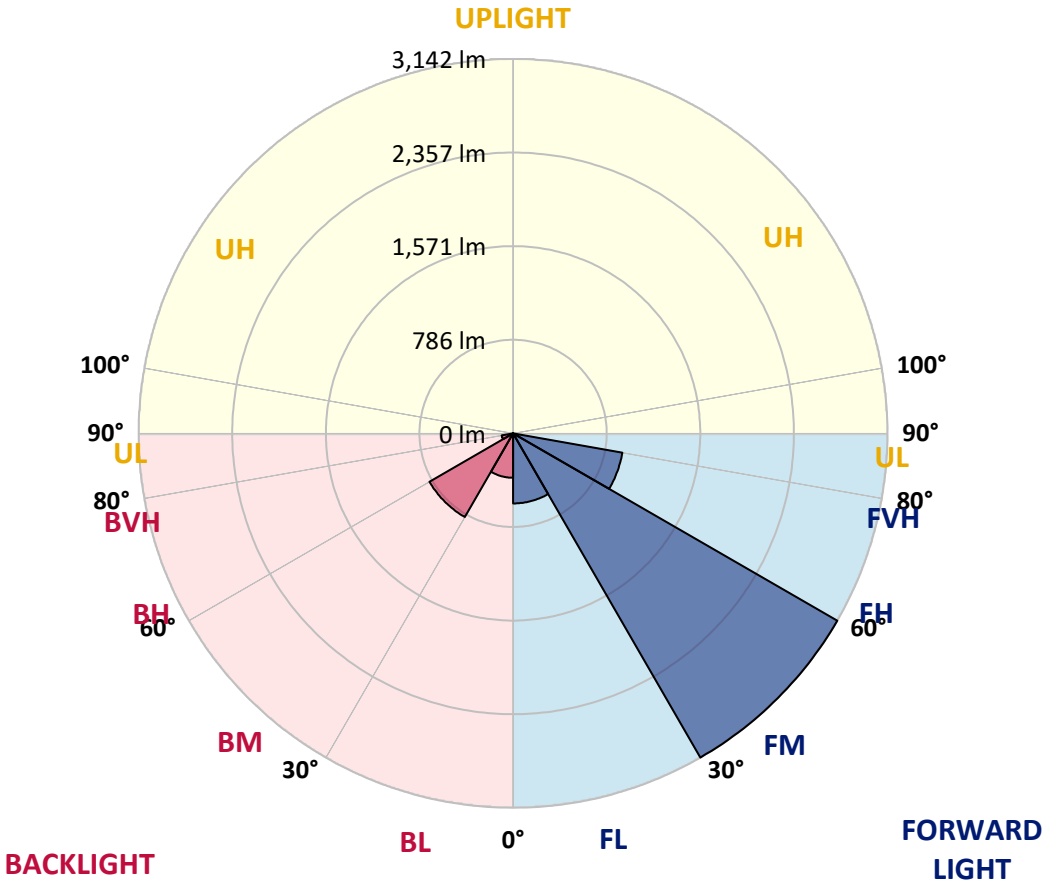
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	588.3	9.9			
FM	(30°-60°)	3142.3	52.9			
FH	(60°-80°)	931.3	15.7			G1/1800
FVH	(80°-90°)	0.0	0.0			G0/10
BL	(0°-30°)	372.7	6.3	B1/500		
BM	(30°-60°)	810.7	13.6	B1/1000		
BH	(60°-80°)	96.7	1.6	B0/110		G0/110
BVH	(80°-90°)	0.0	0.0			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°	1009.6	1009.6	1009.6	1009.6	1009.6	1009.6	1009.6	1009.6	1009.6	1009.6	1009.6
2.5°	1121.6	1119.3	1111.3	1084.3	1067.6	1041.4	1022.3	997.7	970.7	954.0	937.3
5°	1240.8	1234.4	1213.0	1151.0	1103.4	1051.7	1010.4	965.1	916.7	884.9	855.5
7.5°	1355.2	1345.6	1317.1	1212.2	1139.9	1066.0	1007.3	941.3	873.0	825.3	788.8
10°	1467.2	1445.7	1400.5	1271.8	1174.1	1085.1	1016.0	940.5	860.3	799.9	759.4
12.5°	1559.3	1543.4	1481.5	1328.2	1202.7	1089.1	1004.1	934.2	880.2	839.6	802.3
15°	1638.8	1621.3	1562.5	1379.0	1227.3	1073.2	954.0	892.9	901.6	917.5	885.7
17.5°	1711.8	1693.6	1630.0	1421.1	1236.8	1034.3	884.1	854.7	903.2	962.8	950.9
20°	1787.3	1766.7	1688.8	1455.3	1233.6	973.1	813.4	822.2	890.5	958.8	965.1
22.5°	1875.5	1854.0	1763.5	1499.0	1231.3	900.0	752.3	793.6	866.6	924.6	935.8
25°	1992.3	1966.8	1867.5	1563.3	1237.6	833.3	708.6	765.8	826.1	878.6	884.9
27.5°	2146.4	2113.8	1987.5	1642.7	1251.1	780.9	689.5	727.6	774.5	821.4	826.9
30°	2347.3	2306.0	2124.9	1711.8	1244.8	744.3	676.8	689.5	717.3	755.4	756.2
32.5°	2582.5	2526.1	2279.0	1771.4	1190.0	717.3	659.3	650.6	656.9	686.3	691.9
35°	2858.9	2785.8	2449.0	1827.8	1089.9	664.9	627.5	598.2	595.8	610.1	623.6
37.5°	3175.9	3088.5	2663.5	1900.1	971.5	610.1	580.7	551.3	538.6	545.7	566.4
40°	3468.2	3371.3	2887.5	1987.5	850.8	560.8	525.9	495.7	480.6	483.0	508.4
42.5°	3811.3	3711.3	3161.6	2101.9	750.7	527.5	468.7	437.7	417.8	429.0	458.3
45°	4332.4	4218.9	3561.1	2201.2	671.2	519.5	418.6	374.9	365.4	384.5	419.4
47.5°	5044.2	4905.2	4110.0	2261.5	603.7	526.7	383.7	324.1	326.5	347.9	382.9
50°	5750.4	5600.3	4744.7	2182.1	548.1	512.4	366.2	284.4	299.5	318.5	350.3
52.5°	6235.7	6040.3	5053.7	1952.5	497.3	458.3	364.6	247.0	275.6	282.0	309.0
55°	6254.8	6014.1	4895.7	1539.5	428.2	386.9	347.9	216.1	249.4	251.8	274.8
57.5°	*5482.7*	*5265.0*	*4278.4*	*1057.3*	*380.5*	*283.6*	*277.2*	*189.1*	*204.9*	*224.8*	*239.1*
60°	4171.2	3986.1	3199.7	484.6	289.1	180.3	189.9	162.8	153.3	182.7	197.0
62.5°	2554.7	2436.3	1919.2	214.5	184.3	96.1	115.2	129.5	115.2	126.3	138.2
65°	1014.4	962.0	728.4	91.4	75.5	48.5	52.4	75.5	81.0	89.0	100.1
67.5°	176.3	166.8	122.3	40.5	31.0	29.4	25.4	35.0	49.3	54.8	63.5
70°	23.0	22.2	19.9	16.7	15.9	14.3	11.1	22.2	33.4	35.0	40.5
72.5°	5.6	4.8	4.8	4.0	4.8	1.6	1.6	11.9	23.8	24.6	28.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	15.1	16.7	19.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1009.6	1009.6	1009.6	1009.6	1009.6	1009.6	1009.6	1009.6	1009.6	1009.6	1009.6
2.5°	923.8	908.0	902.4	894.5	884.1	887.3	873.0	868.2	875.4	884.9	882.5
5°	839.6	822.2	810.2	792.0	788.8	781.7	776.9	770.5	778.5	789.6	792.0
7.5°	772.9	757.8	745.9	740.3	736.4	733.2	723.7	718.9	718.9	723.7	727.6
10°	744.3	733.2	730.8	732.4	738.8	738.0	729.2	722.9	714.9	711.0	715.7
12.5°	784.0	765.8	762.6	763.4	771.3	770.5	761.0	753.1	751.5	753.1	768.1
15°	851.6	823.8	803.1	799.1	803.1	801.5	794.4	789.6	792.0	815.0	840.4
17.5°	911.9	869.0	831.7	817.4	816.6	814.2	807.1	805.5	817.4	860.3	897.6
20°	929.4	887.3	834.1	815.8	811.8	809.5	801.5	803.9	819.0	870.6	902.4
22.5°	906.4	865.9	810.2	792.0	788.8	788.0	780.1	783.2	796.0	841.2	867.4
25°	862.7	828.5	770.5	754.6	754.6	753.1	745.9	747.5	755.4	795.2	820.6
27.5°	809.5	776.9	728.4	712.5	714.9	717.3	708.6	706.2	712.5	749.9	765.0
30°	748.3	725.3	687.1	672.8	672.0	681.6	669.6	666.5	675.2	704.6	707.8
32.5°	688.7	677.6	650.6	639.5	640.3	641.8	635.5	635.5	643.4	659.3	658.5
35°	630.7	623.6	618.8	610.9	610.1	606.9	606.9	608.5	617.2	622.8	612.5
37.5°	575.1	582.3	587.8	579.9	573.5	573.5	573.5	580.7	588.6	586.2	568.8
40°	525.9	541.0	558.4	549.7	534.6	533.8	537.0	548.9	560.8	546.5	530.6
42.5°	483.8	502.8	527.5	522.7	506.0	503.6	506.0	521.1	530.6	512.4	494.9
45°	442.5	466.3	495.7	495.7	477.4	475.0	475.8	495.7	501.2	479.8	457.6
47.5°	407.5	433.7	464.7	464.7	449.6	444.8	448.8	469.5	473.4	443.3	422.6
50°	374.1	402.7	436.9	434.5	424.2	420.2	427.4	449.6	444.8	411.5	390.0
52.5°	332.0	362.2	409.1	411.5	405.9	406.7	415.5	429.7	416.2	375.7	357.5
55°	293.9	324.9	371.8	384.5	384.5	383.7	387.6	398.8	387.6	339.2	317.0
57.5°	*252.6*	*278.8*	*317.7*	*320.9*	*323.3*	*314.6*	*320.1*	*335.2*	*329.7*	*288.4*	*275.6*
60°	207.3	229.6	251.8	254.2	243.9	225.6	235.9	253.4	257.4	226.4	212.1
62.5°	147.0	168.4	194.6	194.6	184.3	166.0	179.5	194.6	189.1	157.3	148.5
65°	109.6	129.5	149.3	158.1	149.3	136.6	147.0	158.1	149.3	123.1	110.4
67.5°	70.7	84.2	96.1	103.3	104.9	103.3	108.0	104.9	94.5	77.1	69.9
70°	42.9	50.0	56.4	62.8	67.5	69.9	72.3	65.1	54.8	45.3	42.9
72.5°	31.0	37.3	42.9	47.7	53.2	54.8	54.8	50.0	40.5	31.8	29.4
75°	21.4	27.0	31.8	35.0	39.7	41.3	41.3	37.3	30.2	23.0	20.7
77.5°	0.8	5.6	5.6	4.8	6.4	7.9	7.9	9.5	8.7	6.4	5.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1009.6	1009.6	1009.6	1009.6	1009.6	1009.6	1009.6	1009.6	1009.6	1009.6	1009.6
2.5°	887.3	915.9	923.8	953.2	979.4	1005.7	1037.4	1056.5	1085.1	1105.0	1116.1
5°	799.9	823.8	852.4	896.0	941.3	991.4	1051.7	1104.2	1170.1	1218.6	1234.4
7.5°	736.4	767.4	800.7	855.5	917.5	984.2	1069.2	1155.0	1255.9	1321.8	1363.9
10°	724.5	756.2	800.7	854.7	919.9	996.1	1100.2	1211.4	1337.7	1417.9	1465.6
12.5°	781.7	815.8	834.9	859.5	908.7	993.7	1127.2	1268.6	1417.1	1504.5	1555.4
15°	865.9	896.0	865.1	834.1	865.9	968.3	1142.3	1316.3	1487.0	1587.9	1640.4
17.5°	923.8	926.2	858.7	792.8	801.5	922.3	1147.9	1363.9	1561.7	1667.4	1722.2
20°	918.3	899.2	830.9	757.8	730.8	862.7	1141.5	1406.0	1637.2	1747.6	1801.6
22.5°	875.4	853.1	795.2	723.7	671.2	792.0	1130.4	1444.1	1706.3	1831.8	1882.6
25°	823.8	799.9	752.3	689.5	633.1	723.7	1121.6	1496.6	1793.7	1941.4	1981.1
27.5°	763.4	742.7	702.2	656.9	617.2	672.0	1119.3	1565.7	1899.3	2074.9	2102.7
30°	704.6	685.5	653.8	627.5	610.9	641.8	1111.3	1639.6	2025.6	2228.2	2258.4
32.5°	648.2	629.1	609.3	605.3	606.1	630.7	1084.3	1712.6	2175.8	2450.6	2472.8
35°	599.7	577.5	569.6	579.1	596.6	611.7	1008.0	1773.0	2337.0	2692.9	2711.2
37.5°	553.7	531.4	530.6	553.7	572.7	582.3	918.3	1832.6	2554.7	2939.1	2962.2
40°	511.6	489.3	497.3	525.1	540.2	544.9	809.5	1923.1	2785.0	3198.9	3186.2
42.5°	475.8	452.8	457.6	493.3	506.8	519.5	709.4	1998.6	3006.7	3445.1	3441.2
45°	440.9	423.4	420.2	459.1	471.1	521.9	636.3	2056.6	3291.8	3758.9	3765.3
47.5°	406.7	393.2	394.0	410.7	440.1	533.8	574.3	2094.7	3705.7	4256.2	4145.8
50°	375.7	365.4	374.1	355.1	420.2	518.7	521.1	2086.8	4168.0	4732.8	4511.2
52.5°	341.6	339.2	343.2	297.1	388.4	457.6	471.1	1981.1	4384.9	5058.5	4932.2
55°	306.6	305.8	274.1	237.5	324.9	365.4	403.5	1653.1	4377.7	5231.7	5385.0
57.5°	*265.3*	*259.0*	*208.1*	*193.8*	*252.6*	*254.2*	*367.8*	*1082.7*	*3879.7*	*4817.0*	*5134.8*
60°	201.0	196.2	152.5	157.3	176.3	162.8	293.1	539.4	2899.4	3752.6	4110.8
62.5°	139.0	132.7	113.6	121.5	113.6	92.9	179.5	266.9	1756.3	2369.6	2694.5
65°	101.7	94.5	77.8	66.7	53.2	53.2	68.3	102.5	680.0	1007.3	1214.6
67.5°	62.8	59.6	46.1	33.4	32.6	35.0	35.7	50.8	109.6	174.8	213.7
70°	40.5	37.3	31.0	21.4	19.9	20.7	21.4	23.8	27.8	30.2	36.5
72.5°	27.8	26.2	22.2	11.9	9.5	10.3	11.1	11.1	13.5	12.7	15.1
75°	19.9	18.3	15.9	5.6	3.2	4.0	4.8	4.0	4.8	3.2	4.0
77.5°	5.6	5.6	4.0	0.8	0.0	0.8	1.6	1.6	0.8	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

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

Scaled Data Report

REPORT NUMBER: P635014
CATALOG NUMBER: GWS-SA3C-830-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1009.6	1009.6	1009.6	*1009.6*	1009.6	1009.6	1009.6	1009.6	1009.6	1009.6
2.5°	1144.7	1162.9	1170.1	*1159.8*	1168.5	1154.2	1148.6	1127.2	1125.6	1121.6
5°	1298.8	1340.1	1364.7	*1379.8*	1362.3	1343.3	1314.7	1265.4	1250.3	1240.8
7.5°	1450.5	1514.8	1556.9	*1576.8*	1572.0	1533.1	1481.5	1398.9	1369.5	1355.2
10°	1582.4	1661.0	1711.8	*1736.5*	1726.1	1692.0	1618.1	1514.8	1475.9	1467.2
12.5°	1674.5	1746.8	1781.8	*1803.2*	1804.0	1790.5	1720.6	1616.5	1570.5	1559.3
15°	1732.5	1763.5	1764.3	*1777.0*	1799.2	1829.4	1796.8	1704.7	1655.4	1638.8
17.5°	1769.0	1734.9	1699.9	*1703.1*	1739.7	1819.9	1853.2	1782.5	1730.1	1711.8
20°	1795.3	1687.2	1622.1	*1622.9*	1660.2	1781.8	1892.2	1858.0	1804.0	1787.3
22.5°	1811.9	1645.1	1552.2	*1549.8*	1589.5	1736.5	1927.9	1947.8	1894.6	1875.5
25°	1846.1	1625.3	1510.1	*1523.6*	1558.5	1722.2	1976.4	2066.9	2017.7	1992.3
27.5°	1907.3	1645.1	1506.1	*1537.1*	1576.8	1764.3	2060.6	2225.8	2175.0	2146.4
30°	2012.9	1719.8	1567.3	*1610.2*	1657.8	1874.7	2202.0	2447.4	2374.3	2347.3
32.5°	2182.9	1874.7	1756.3	*1848.5*	1894.6	2055.8	2414.1	2696.1	2636.5	2582.5
35°	2417.2	2228.2	2214.7	*2429.2*	2418.0	2399.0	2674.6	3001.1	2911.3	2858.9
37.5°	2739.8	2796.9	2897.0	*3109.9*	3102.8	2957.4	3017.0	3289.5	3243.4	3175.9
40°	3142.5	3264.0	3434.0	*3739.1*	3643.7	3461.0	3437.2	3585.0	3547.6	3468.2
42.5°	3380.0	3589.7	3913.8	*4187.9*	4111.6	3792.3	3765.3	3979.8	3897.9	3811.3
45°	3490.4	3855.0	4490.5	*4861.5*	4630.3	4012.3	4002.0	4494.5	4448.4	4332.4
47.5°	3541.3	4122.7	5165.7	*5727.3*	5295.2	4205.4	4168.0	5241.2	5180.8	5044.2
50°	3597.7	4492.1	5979.2	*6730.6*	6098.3	4423.8	4450.8	5937.1	5911.6	5750.4
52.5°	3721.6	4882.9	6980.9	*7877.7*	7072.2	4766.2	4936.2	6593.2	6421.6	6235.7
55°	3907.5	5308.7	8023.1	*9049.4*	8065.9	5226.1	5461.2	6941.9	6460.5	6254.8
57.5°	*3701.7*	*5415.2*	*8640.3*	*9867.6*	*8506.8*	*5227.7*	*5017.2*	*6337.4*	*5682.1*	*5482.7*
60°	2937.5	5037.8	8402.8	*9690.4*	8131.1	4642.3	3841.5	4948.1	4304.6	4171.2
62.5°	1985.9	4225.2	7397.1	*8195.4*	6959.4	3651.7	2496.7	3218.0	2665.1	2554.7
65°	1088.3	3152.0	5976.8	*6200.0*	5446.9	2550.7	1284.5	1396.5	1063.7	1014.4
67.5°	300.3	2194.0	4397.6	*4113.2*	3821.7	1661.0	332.0	249.4	177.9	176.3
70°	75.5	1451.3	2634.9	*2715.9*	2343.4	1063.7	63.5	30.2	23.8	23.0
72.5°	31.8	624.4	1250.3	*1437.0*	1199.5	492.5	23.0	8.7	7.1	5.6
75°	4.0	50.0	106.4	*161.3*	110.4	53.2	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0
85°	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
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.

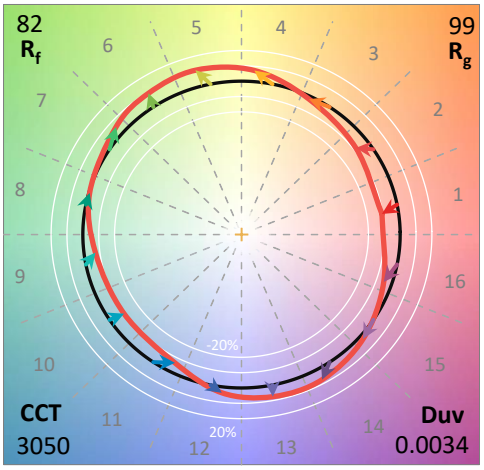
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

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

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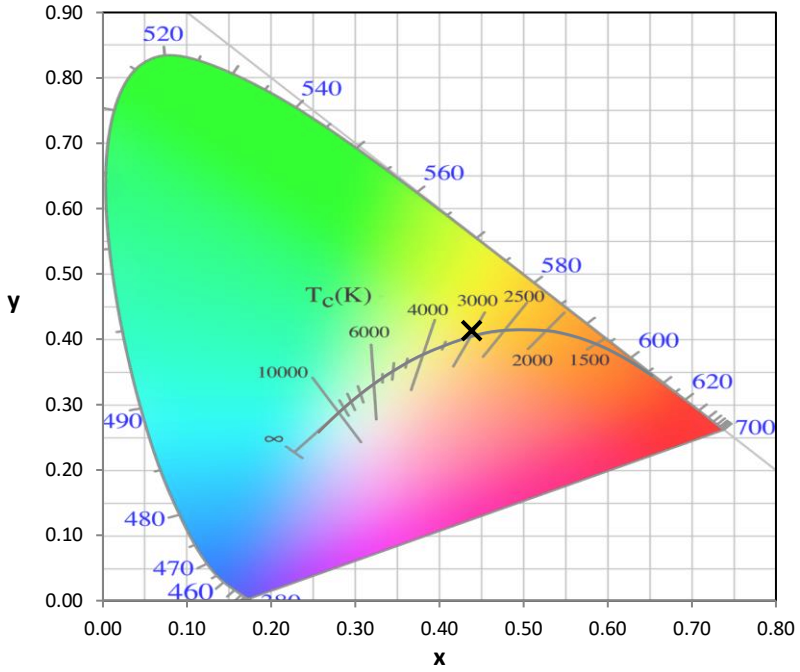
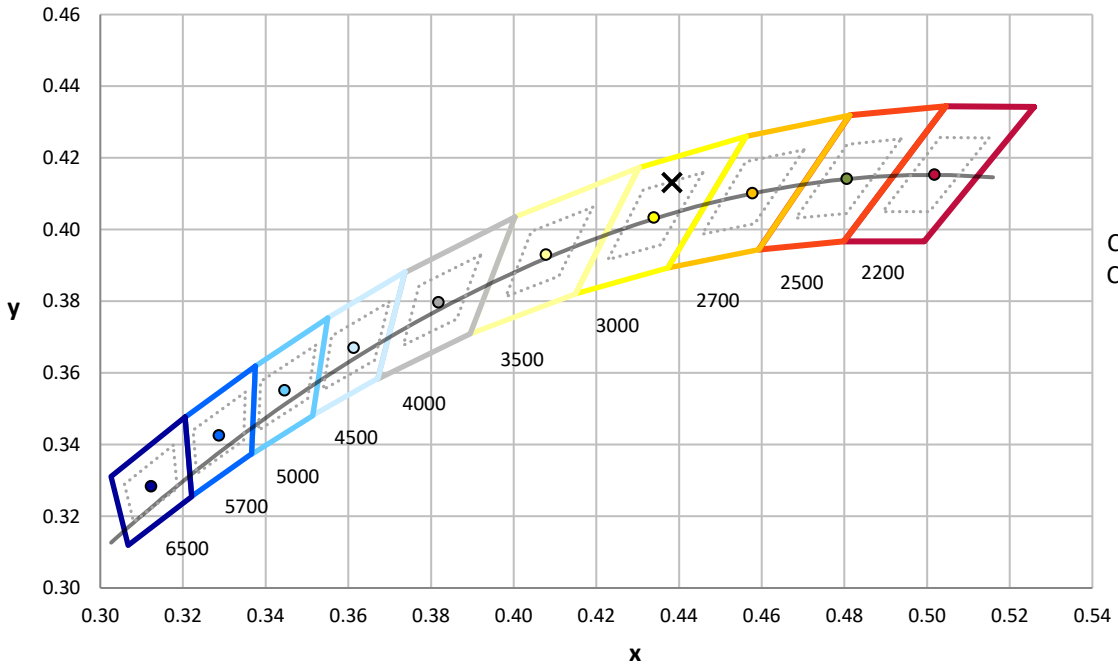
CIE 1931 Chromaticity Diagram



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

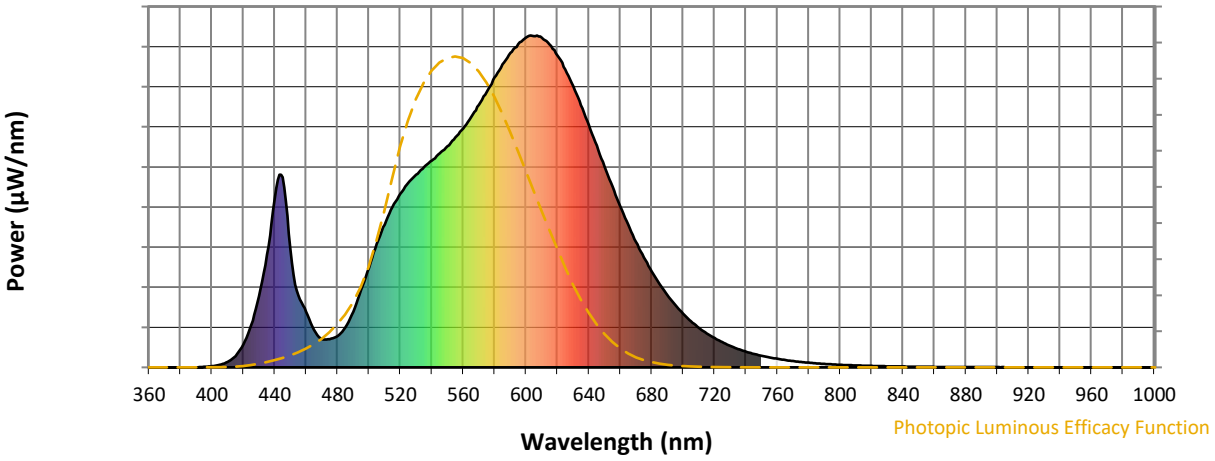


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

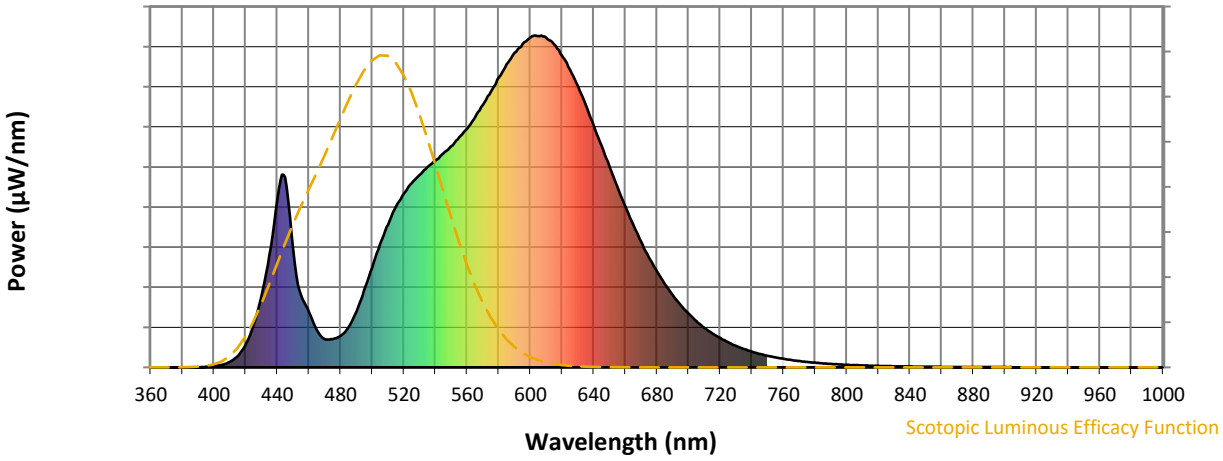


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength

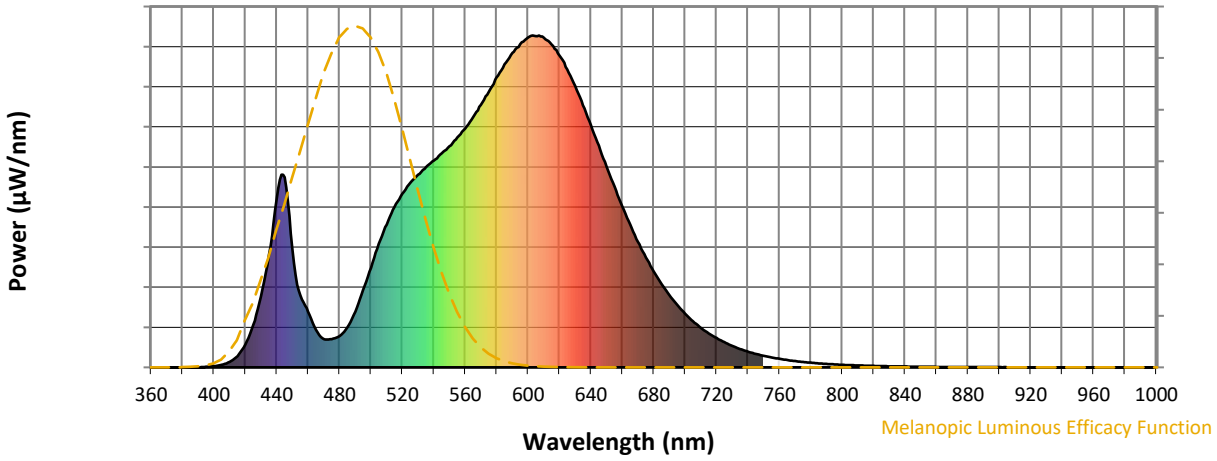


Scotopic Lumens: NR **S/P: 1.27**

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			

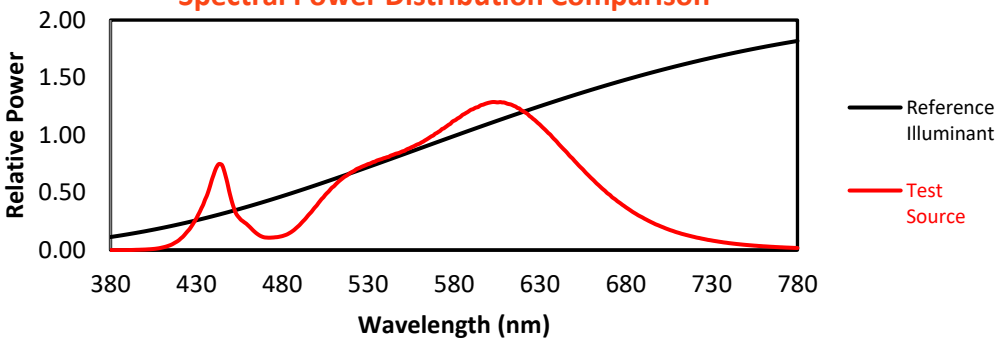
REPORT NUMBER: SP1-2408-195-9

TM-30-18

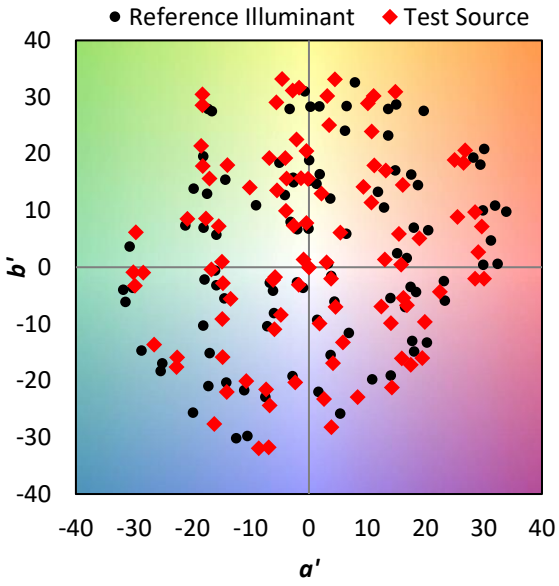
Summary

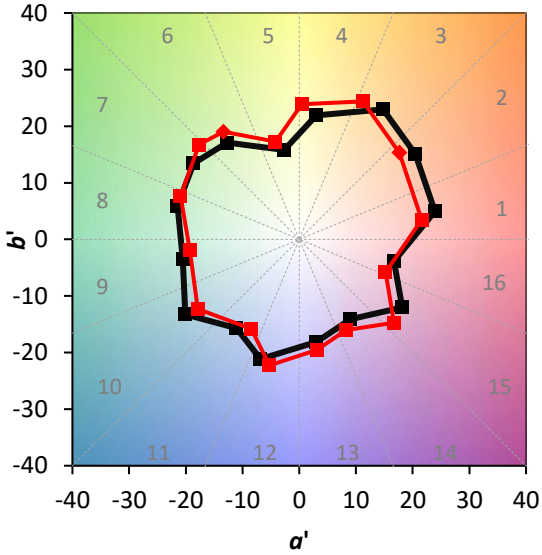
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

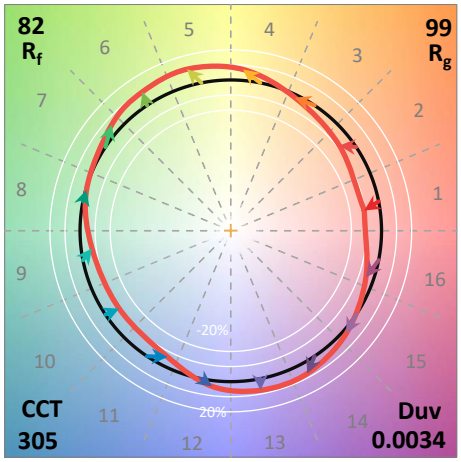
Spectral Power Distribution Comparison

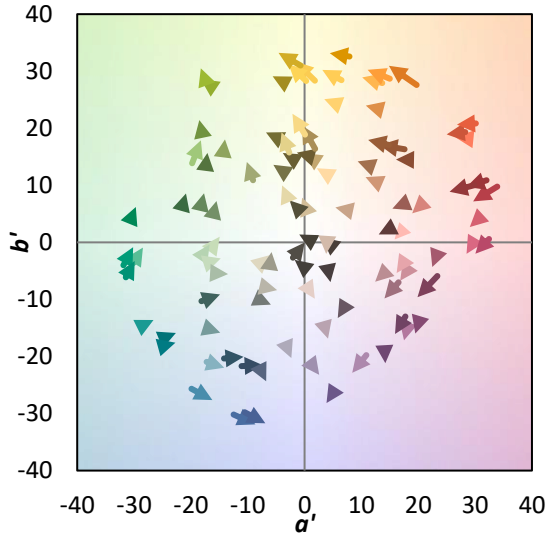


Color Vector Graphics









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
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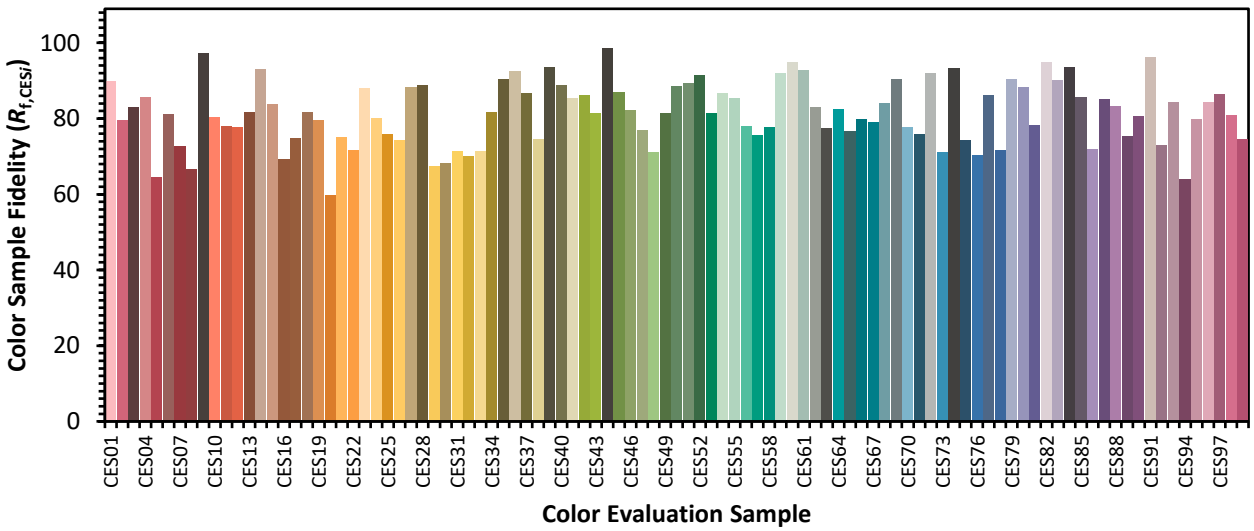

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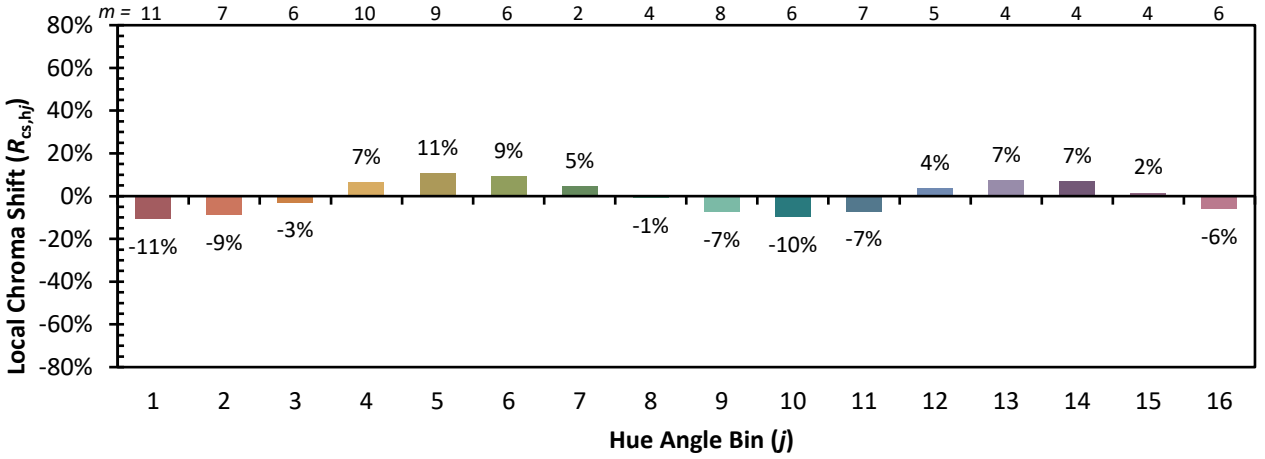
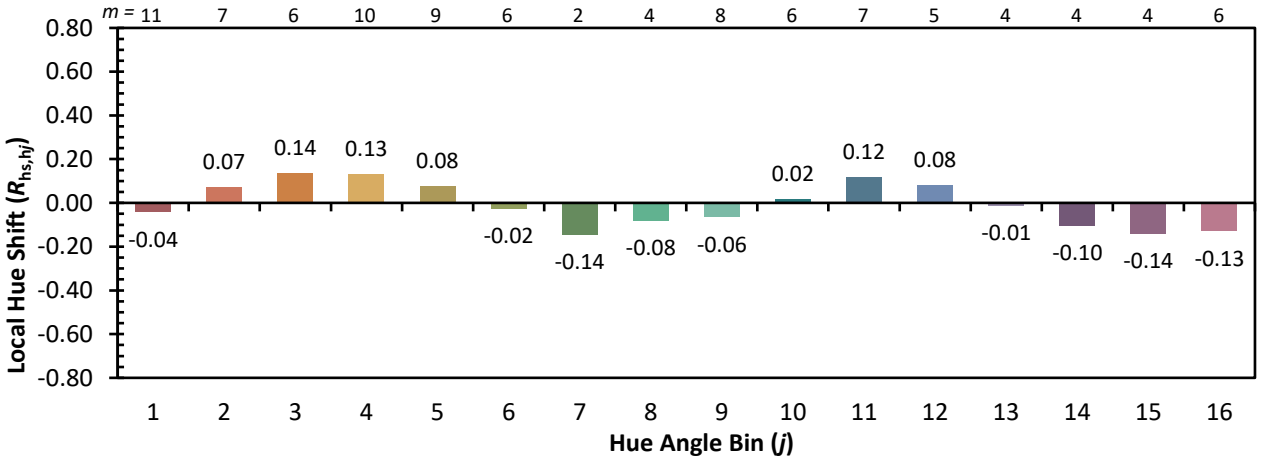
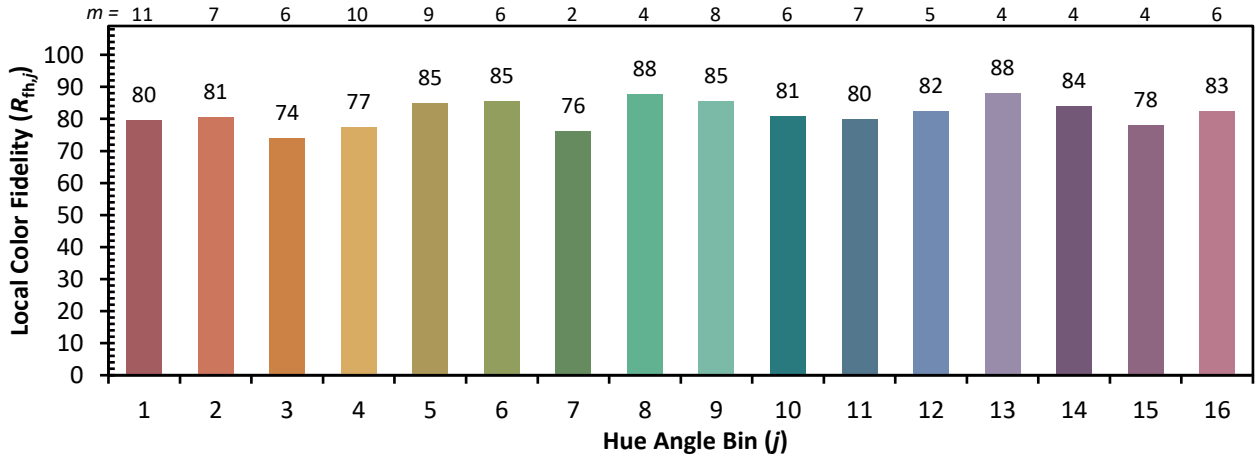
Color Rendition by Hue-Angle Bin







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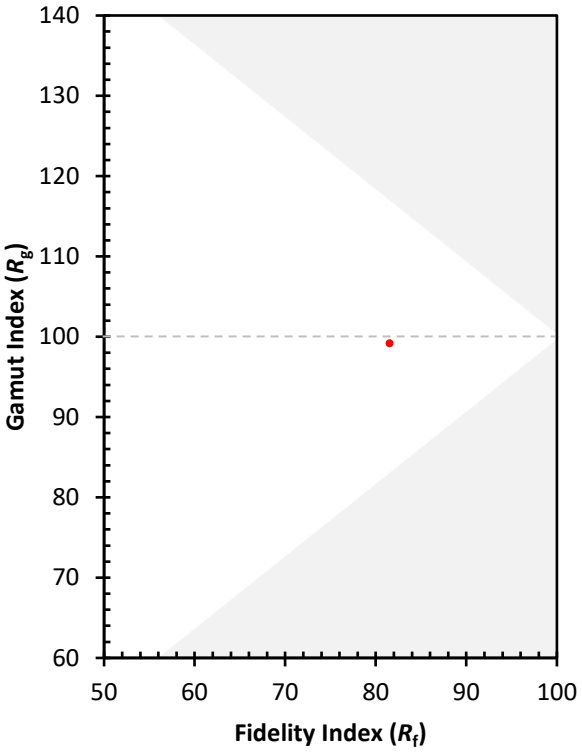
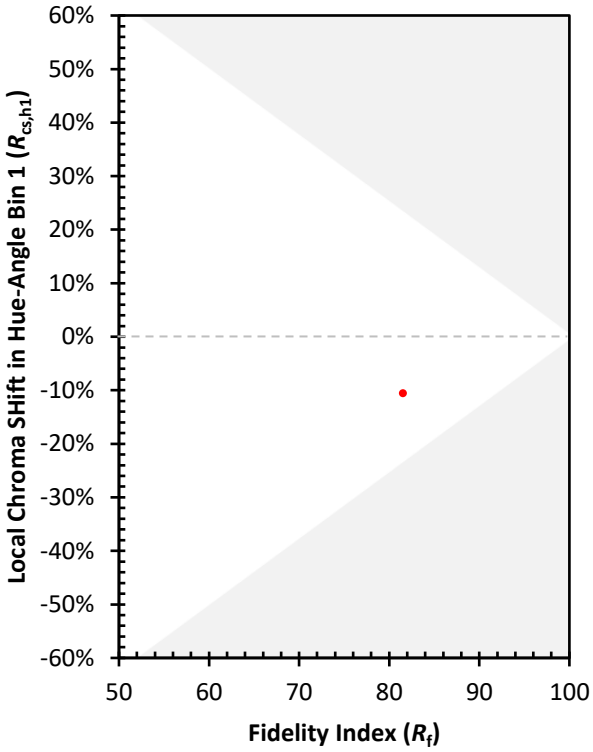
Measure Comparisons





(END OF REPORT)