

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P436870

Luminaire Tested: **TT-D5-735-U-RW-PM-HSS**

Issue Date: 12/2/2020

Test Information

Test Method: LM-79-08
Report Number: P436870
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2010-017-5)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-D5-735-U-RW-PM-HSS
Description: TOPTIER LED SITE LUMINAIRE
3500K, 70 CRI LEDS AND RECTANGULAR DISTRIBUTION WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5683 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U2 - G3

Input Watts (W): 74.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

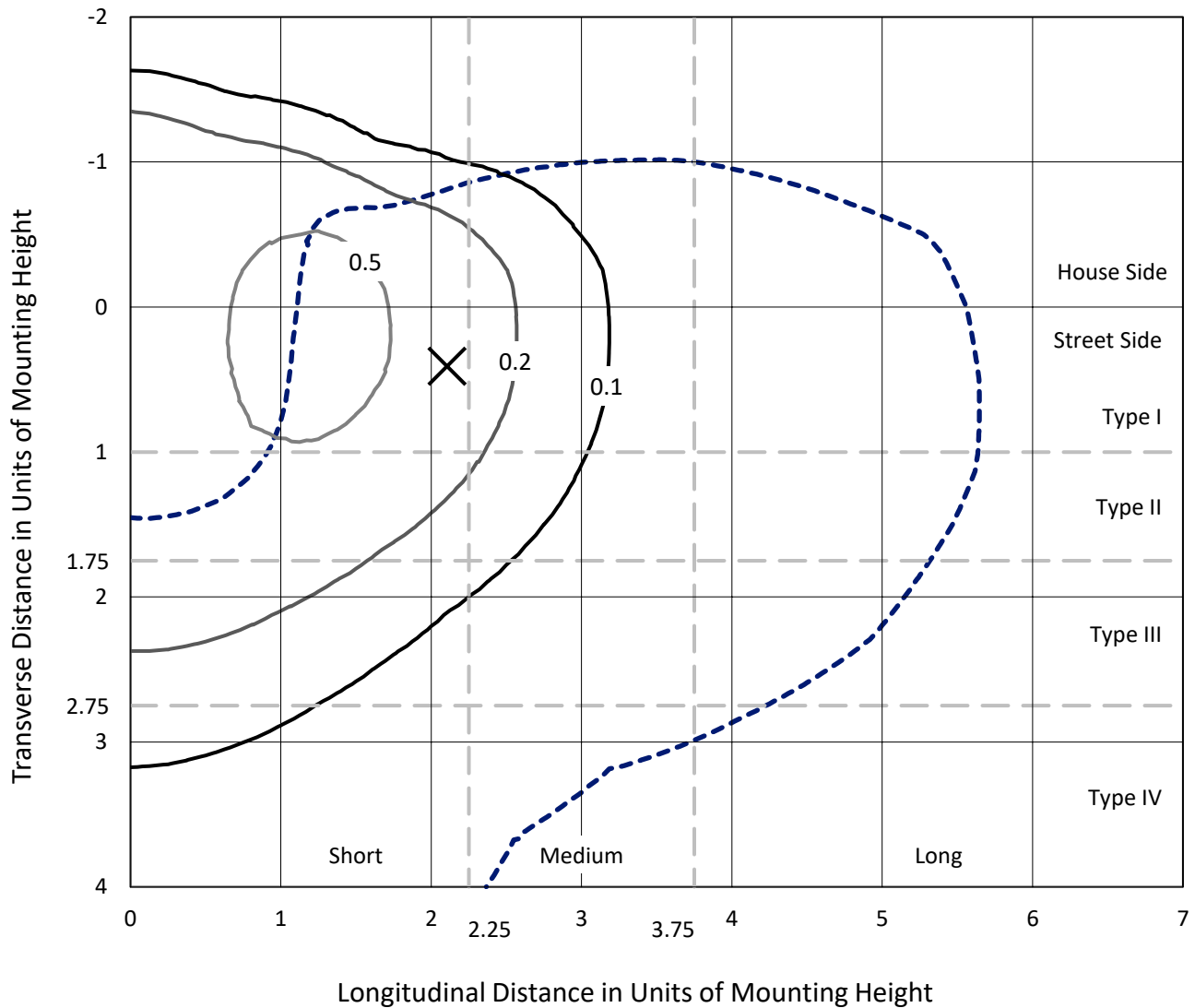


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Iso-Footcandle Lines of Horizontal Illumination

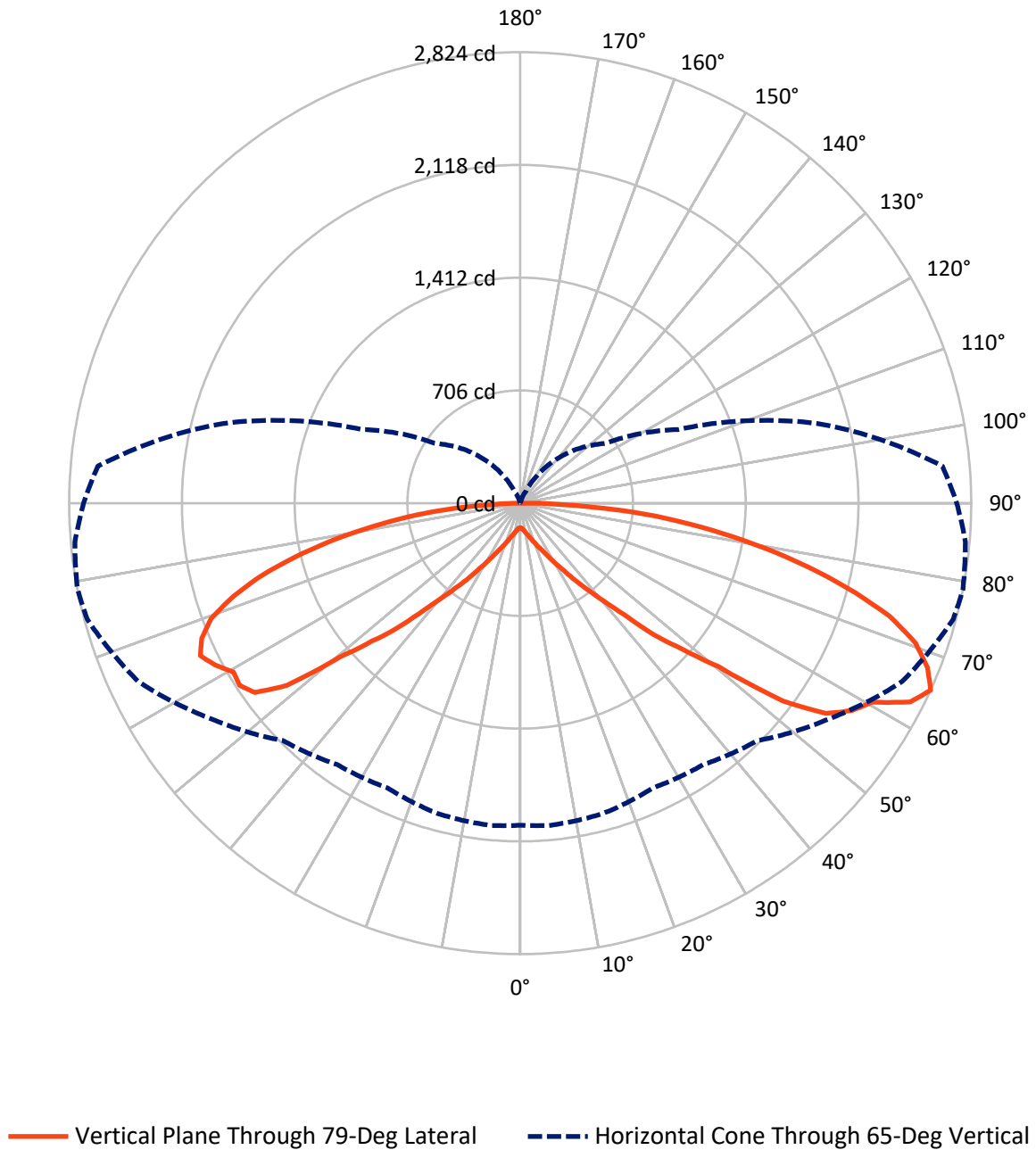
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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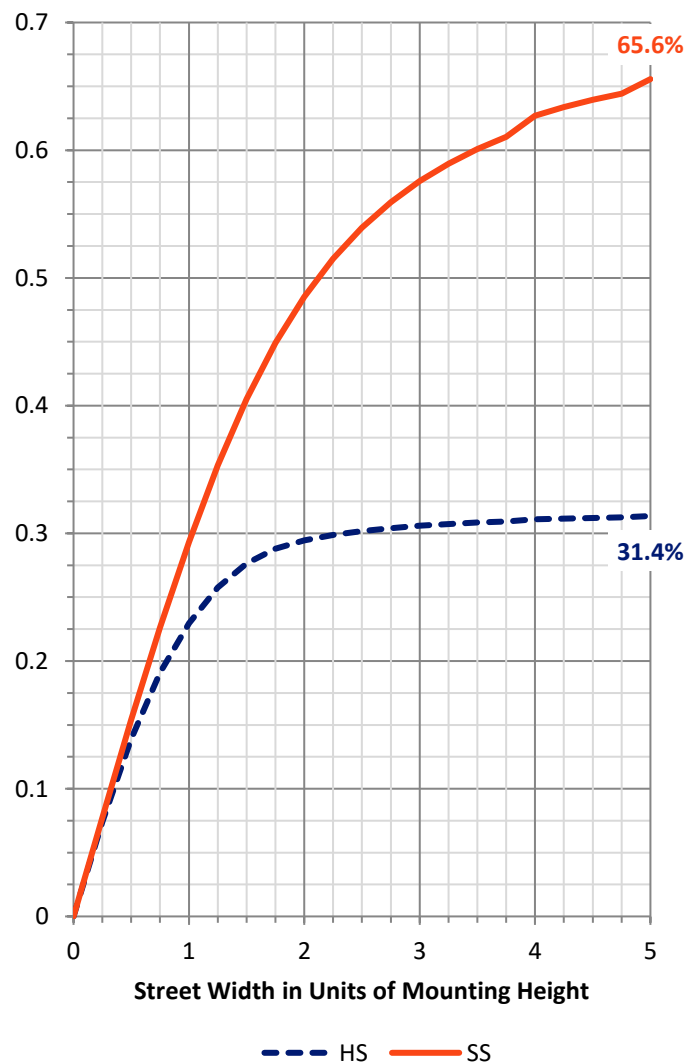
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1794.6	2.3	1796.8
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	3861.1	25.0	3886.1
	% Fixture	67.9	0.4	68.4
Total	Lumens	5655.7	27.3	5683.0
	% Fixture	99.5	0.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.2	0.3
10°-20°	61.2	1.1
20°-30°	141.2	2.5
30°-40°	302.5	5.3
40°-50°	647.9	11.4
50°-60°	1223.7	21.5
60°-70°	1520.7	26.8
70°-80°	1301.9	22.9
80°-90°	440.4	7.7
90°-100°	19.0	0.3
100°-110°	5.5	0.1
110°-120°	1.2	0.0
120°-130°	0.6	0.0
130°-140°	0.4	0.0
140°-150°	0.3	0.0
150°-160°	0.1	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	5655.7	99.5
0°-180°	5683.0	100.0

Coefficient of Utilization



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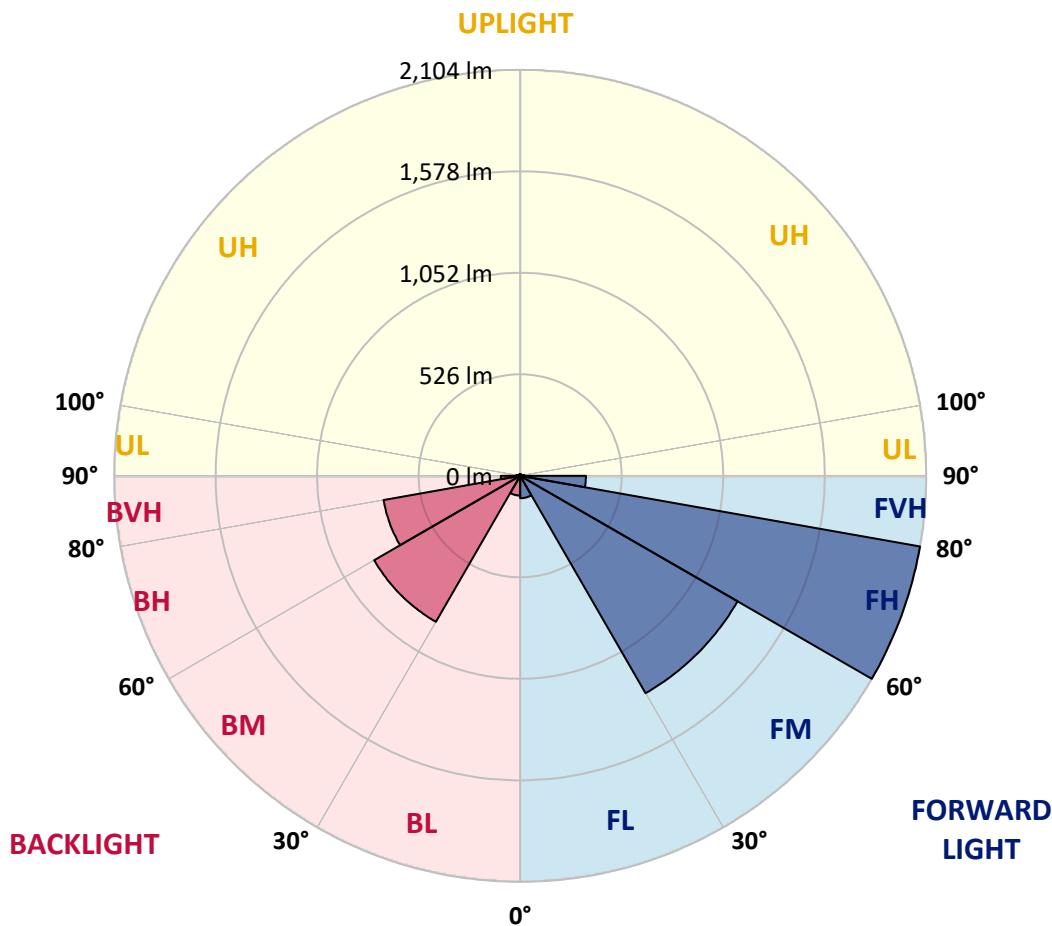
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	116.2	2.0			
FM	(30°-60°)	1300.5	22.9			
FH	(60°-80°)	2103.6	37.0			G2/5000
FVH	(80°-90°)	340.7	6.0			G3/500
BL	(0°-30°)	102.4	1.8	B0/110		
BM	(30°-60°)	873.5	15.4	B1/1000		
BH	(60°-80°)	719.0	12.7	B2/1000		G2/1000
BVH	(80°-90°)	99.7	1.8			G1/100
UL	(90°-100°)	19.0	0.3		U2/50	
UH	(100°-180°)	8.3	0.1		U1/10	

BUG Rating: B2-U2-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	154.4	154.4	154.4	154.4	154.4	154.4	154.4	154.4	154.4	154.4	154.4
2.5°	162.9	162.9	162.9	161.4	161.4	161.4	160.0	158.6	157.2	157.2	157.2
5°	171.3	171.3	171.3	171.3	169.9	168.5	167.1	165.7	164.3	164.3	162.9
7.5°	182.7	181.3	182.7	181.3	181.3	179.8	178.4	177.0	174.2	174.2	172.8
10°	194.0	194.0	194.0	194.0	194.0	192.6	191.2	189.8	188.3	186.9	185.5
12.5°	208.2	208.2	208.2	206.8	208.2	206.8	205.3	205.3	203.9	201.1	201.1
15°	222.3	222.3	222.3	222.3	223.7	223.7	223.7	222.3	222.3	220.9	219.5
17.5°	239.3	237.9	239.3	239.3	240.7	242.2	243.6	245.0	245.0	243.6	243.6
20°	257.7	256.3	257.7	257.7	260.6	263.4	267.6	270.5	271.9	269.1	269.1
22.5°	277.6	276.1	279.0	279.0	283.2	287.5	294.5	297.4	301.6	300.2	300.2
25°	301.6	300.2	301.6	303.0	308.7	315.8	324.3	331.4	335.6	335.6	337.0
27.5°	328.5	328.5	330.0	331.4	337.0	348.4	361.1	373.8	383.8	382.3	383.8
30°	365.4	365.4	368.2	369.6	376.7	389.4	406.4	423.4	437.6	437.6	440.4
32.5°	406.4	405.0	409.3	410.7	417.7	434.7	458.8	485.7	504.1	504.1	507.0
35°	456.0	454.6	458.8	458.8	467.3	491.4	522.5	559.4	590.5	591.9	596.2
37.5°	518.3	515.5	515.5	519.7	529.6	560.8	603.3	654.2	686.8	689.6	696.7
40°	591.9	590.5	593.3	591.9	604.7	642.9	696.7	756.2	794.4	801.5	810.0
42.5°	682.6	685.4	681.1	681.1	696.7	740.6	804.3	873.7	943.1	951.6	955.9
45°	793.0	798.7	793.0	791.6	805.8	856.7	944.5	1066.3	1147.0	1175.4	1183.9
47.5°	926.1	929.0	921.9	919.0	934.6	999.8	1113.1	1249.0	1343.9	1365.1	1387.8
50°	1074.8	1070.6	1064.9	1060.7	1090.4	1171.1	1302.8	1443.0	1605.9	1608.7	1617.2
52.5°	1227.8	1215.0	1216.4	1215.0	1256.1	1343.9	1519.5	1757.4	2005.2	2056.2	2061.8
55°	1380.7	1365.1	1363.7	1377.9	1435.9	1562.0	1782.9	2091.6	2292.7	2323.8	2319.6
57.5°	1533.6	1526.6	1523.7	1536.5	1621.4	1771.5	2020.8	2281.3	2452.7	2449.8	2420.1
60°	1692.2	1697.9	1688.0	1712.1	1799.9	1950.0	2131.2	2384.7	2543.3	2530.6	2500.8
62.5°	1855.1	1869.2	1859.3	1862.2	1918.8	2029.3	2207.7	2502.2	2721.7	2740.1	2706.2
65°	2016.5	2026.4	2010.9	1967.0	1998.1	2101.5	2356.4	2639.6	2806.7	2823.7	2798.2
67.5°	2152.5	2162.4	2108.6	2039.2	2043.4	2118.5	2342.2	2612.7	2761.4	2750.1	2709.0
70°	2268.6	2250.2	2162.4	2043.4	1993.9	2029.3	2240.3	2479.6	2631.1	2625.4	2577.3
72.5°	2306.8	2282.8	2134.1	1950.0	1852.3	1865.0	2070.3	2284.2	2407.4	2417.3	2359.2
75°	2245.9	2204.9	2000.9	1770.1	1644.1	1652.6	1828.2	2025.0	2124.1	2112.8	2067.5
77.5°	2026.4	1985.4	1764.5	1518.1	1394.9	1407.6	1546.4	1700.7	1782.9	1778.6	1747.5
80°	1682.3	1645.5	1451.5	1222.1	1110.2	1117.3	1223.5	1345.3	1409.0	1423.2	1406.2
82.5°	1243.3	1217.8	1080.5	895.0	804.3	802.9	883.6	977.1	1039.4	1069.2	1057.8
85°	768.9	756.2	679.7	559.4	495.6	494.2	542.4	611.8	668.4	708.0	682.6
87.5°	305.9	301.6	279.0	225.2	196.8	186.9	175.6	219.5	223.7	264.8	263.4
90°	75.1	73.6	72.2	68.0	60.9	52.4	42.5	31.2	19.8	15.6	8.5
92.5°	66.6	66.6	65.1	60.9	55.2	46.7	38.2	28.3	18.4	14.2	7.1
95°	53.8	53.8	52.4	49.6	43.9	38.2	29.7	22.7	14.2	11.3	5.7
97.5°	41.1	39.7	39.7	36.8	34.0	28.3	22.7	17.0	11.3	8.5	4.2
100°	29.7	29.7	28.3	26.9	24.1	21.2	17.0	12.7	7.1	5.7	2.8
102.5°	21.2	19.8	19.8	19.8	17.0	14.2	11.3	8.5	5.7	4.2	1.4
105°	14.2	12.7	12.7	12.7	11.3	9.9	7.1	5.7	2.8	2.8	1.4
107.5°	8.5	8.5	8.5	8.5	7.1	5.7	4.2	2.8	1.4	1.4	1.4
110°	4.2	4.2	4.2	5.7	4.2	4.2	2.8	1.4	1.4	1.4	1.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
112.5°	2.8	2.8	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	1.4
115°	1.4	1.4	1.4	2.8	2.8	1.4	1.4	0.0	0.0	1.4	1.4
117.5°	0.0	0.0	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	1.4
120°	0.0	0.0	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	1.4
122.5°	0.0	0.0	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	1.4
125°	0.0	0.0	0.0	1.4	1.4	1.4	0.0	0.0	0.0	0.0	1.4
127.5°	0.0	0.0	0.0	1.4	1.4	1.4	0.0	0.0	0.0	0.0	1.4
130°	0.0	0.0	0.0	1.4	1.4	1.4	0.0	0.0	0.0	0.0	1.4
132.5°	0.0	0.0	0.0	1.4	1.4	1.4	0.0	0.0	0.0	0.0	1.4
135°	0.0	0.0	0.0	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	1.4	1.4	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	1.4	0.0	1.4	0.0	0.0	0.0	0.0	0.0
180°	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°	154.4	154.4	154.4	154.4	154.4	154.4	154.4	154.4	154.4	154.4	154.4
2.5°	155.8	155.8	155.8	154.4	154.4	154.4	152.9	152.9	151.5	151.5	151.5
5°	161.4	161.4	160.0	160.0	158.6	157.2	157.2	155.8	155.8	154.4	154.4
7.5°	171.3	171.3	169.9	168.5	165.7	164.3	162.9	161.4	161.4	160.0	160.0
10°	184.1	184.1	181.3	178.4	175.6	172.8	171.3	168.5	167.1	167.1	167.1
12.5°	199.7	198.3	195.4	191.2	188.3	184.1	181.3	178.4	175.6	175.6	175.6
15°	218.1	218.1	212.4	208.2	202.5	196.8	192.6	188.3	185.5	184.1	184.1
17.5°	240.7	240.7	233.7	226.6	219.5	212.4	206.8	201.1	198.3	196.8	196.8
20°	266.2	266.2	259.1	250.6	240.7	230.8	222.3	215.2	211.0	209.6	209.6
22.5°	297.4	297.4	287.5	276.1	263.4	249.2	237.9	229.4	225.2	222.3	222.3
25°	332.8	330.0	320.0	305.9	287.5	270.5	254.9	246.4	240.7	236.5	237.9
27.5°	380.9	376.7	363.9	339.9	317.2	294.5	276.1	264.8	257.7	254.9	256.3
30°	436.2	431.9	413.5	386.6	352.6	322.9	300.2	287.5	280.4	276.1	277.6
32.5°	502.7	497.1	474.4	437.6	397.9	355.4	327.1	311.5	304.5	300.2	298.8
35°	590.5	583.4	555.1	504.1	448.9	397.9	358.3	338.4	331.4	327.1	328.5
37.5°	689.6	679.7	641.5	579.2	509.8	444.7	399.3	373.8	365.4	358.3	358.3
40°	802.9	791.6	742.0	659.9	576.4	495.6	437.6	409.3	399.3	399.3	399.3
42.5°	944.5	933.2	876.6	756.2	645.7	550.9	481.5	448.9	439.0	441.8	441.8
45°	1164.0	1148.5	1057.8	899.2	736.4	607.5	526.8	490.0	482.9	490.0	490.0
47.5°	1365.1	1345.3	1212.2	1032.3	825.6	664.1	572.1	529.6	526.8	542.4	542.4
50°	1590.3	1564.8	1424.6	1140.0	897.8	726.5	613.2	562.2	563.6	586.3	593.3
52.5°	2026.4	1999.5	1757.4	1335.4	975.7	749.1	630.2	569.3	569.3	594.8	604.7
55°	2285.6	2230.4	1914.6	1462.8	1008.3	776.0	623.1	540.9	538.1	566.4	574.9
57.5°	2370.5	2313.9	1947.1	1426.0	987.0	742.0	582.0	464.5	458.8	495.6	492.8
60°	2439.9	2364.9	1894.7	1302.8	866.7	669.8	502.7	345.5	321.5	354.0	352.6
62.5°	2635.4	2554.6	1897.6	1158.4	725.0	559.4	378.1	194.0	144.4	169.9	158.6
65°	2733.1	2653.8	1927.3	1090.4	652.8	463.1	270.5	79.3	5.7	5.7	2.8
67.5°	2649.5	2578.7	1889.1	1073.4	642.9	460.2	274.7	77.9	0.0	0.0	0.0
70°	2527.7	2459.8	1801.3	1013.9	610.3	443.2	269.1	77.9	0.0	0.0	0.0
72.5°	2313.9	2244.5	1649.8	929.0	560.8	406.4	249.2	73.6	0.0	0.0	0.0
75°	2032.1	1979.7	1457.2	818.5	494.2	358.3	220.9	65.1	0.0	0.0	0.0
77.5°	1720.6	1658.3	1222.1	681.1	413.5	297.4	186.9	53.8	0.0	0.0	0.0
80°	1380.7	1335.4	962.9	533.9	320.0	232.2	145.9	41.1	0.0	0.0	0.0
82.5°	1026.7	988.4	712.3	382.3	228.0	161.4	100.5	26.9	0.0	0.0	0.0
85°	674.1	664.1	457.4	232.2	135.9	89.2	53.8	12.7	0.0	0.0	0.0
87.5°	243.6	252.1	167.1	66.6	36.8	15.6	7.1	1.4	0.0	0.0	0.0
90°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
92.5°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
95°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
97.5°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
100°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
102.5°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
105°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
107.5°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
110°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0

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CATALOG NUMBER: TT-D5-735-U-RW-PM-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
115°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
117.5°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
120°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
122.5°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
125°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
127.5°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
130°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
132.5°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
135°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
145°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
150°	0.0	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2411-284-1

Test Date: 11/15/2024

Luminaire Tested: TTN-D0-735-U-WQ

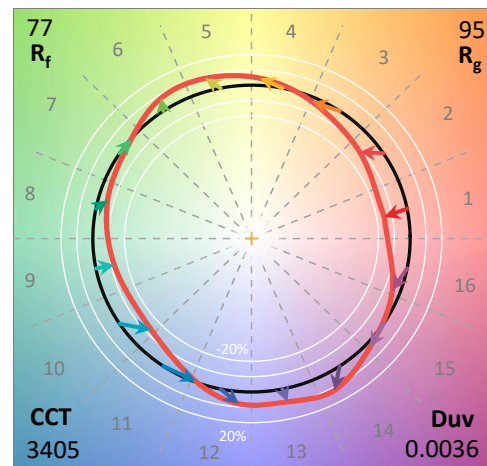
Data in this report applies to families of products including TT-D* and TTN-D*

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2411-284-1
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 11/15/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: MCGRAW EDISON
 Catalog Number: **TTN-D0-735-U-WQ**
 Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE. 3500K, 70 CRI LEDS AND WIDE DISTRIBUTION

Spectral Parameters

CCT (K):	3405	CRI (Ra):	73.9		
CIE u':	0.2365	R1:	71.3	R9:	-18.0
CIE v':	0.5180	R2:	80.3	R10:	53.1
Duv:	0.0036	R3:	87.8	R11:	68.6
CIE x:	0.4148	R4:	73.2	R12:	42.6
CIE y:	0.4038	R5:	69.8	R13:	72.5
CIE z:	0.1814	R6:	71.8	R14:	92.7
Peak Wavelength (nm):	596	R7:	82.8	R15:	64.3
Dominant Wavelength (nm):	579	R8:	54.1		
Purity:	45.70672				
Rf:	76.6				
Rg:	95.4				



Test Conditions

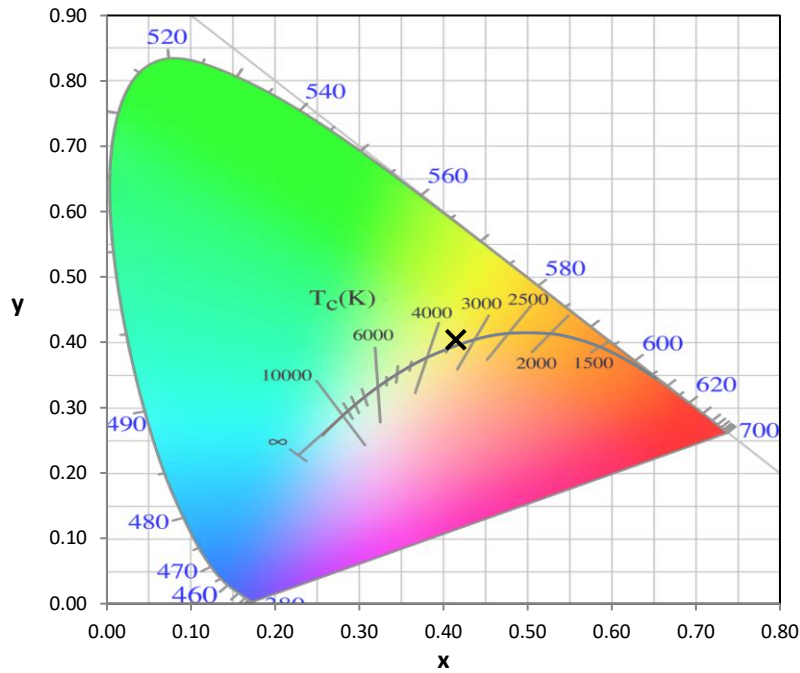
Stabilization Time: 38M
 Operation Time: 1H 38M
 Sphere Temperature (°C): 24.9

REPORT NUMBER: SP1-2411-284-1

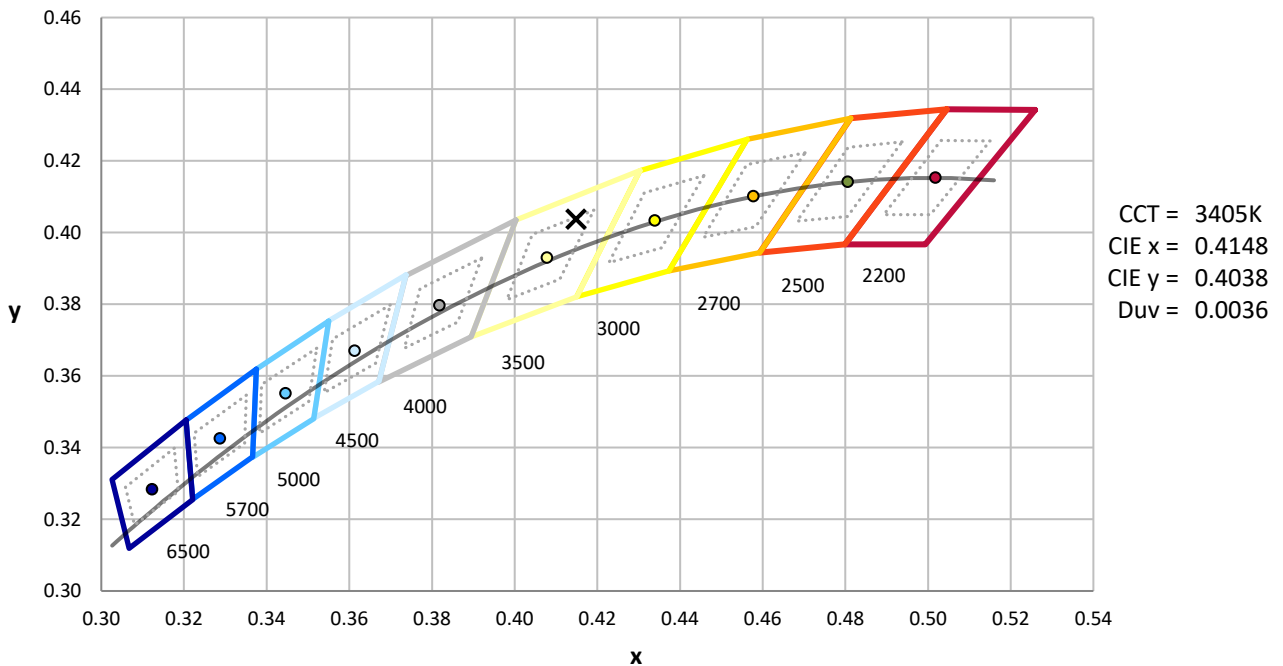
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/22/2024	10/22/2025
DC Power Source	IN0208	10/22/2024	10/22/2025
Sphere Thermometer	IN0085	10/22/2024	10/22/2025
Room Thermometer	IN0046	10/22/2024	10/22/2025

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CIE 1931 Chromaticity Diagram



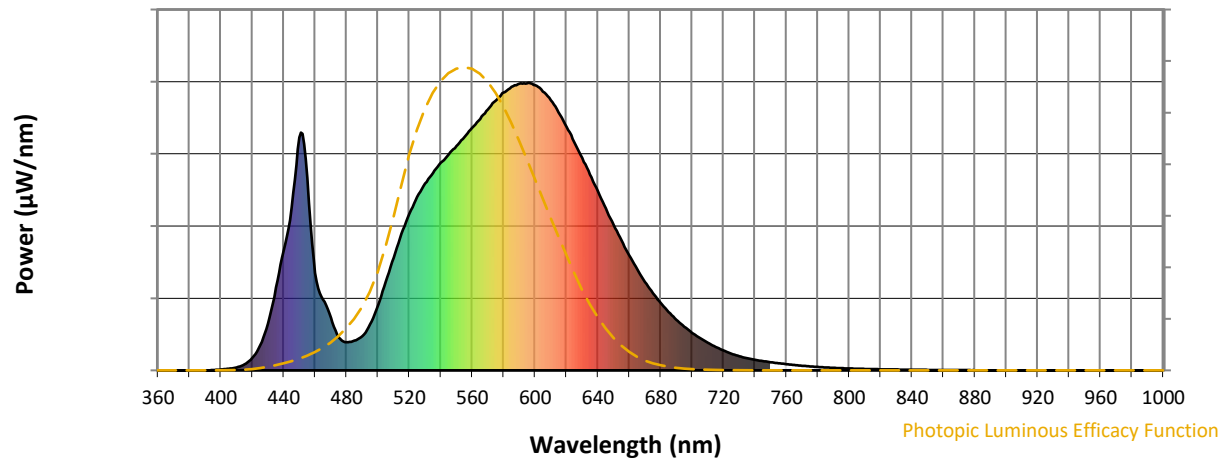
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2411-284-1

Photopic Flux vs. Wavelength

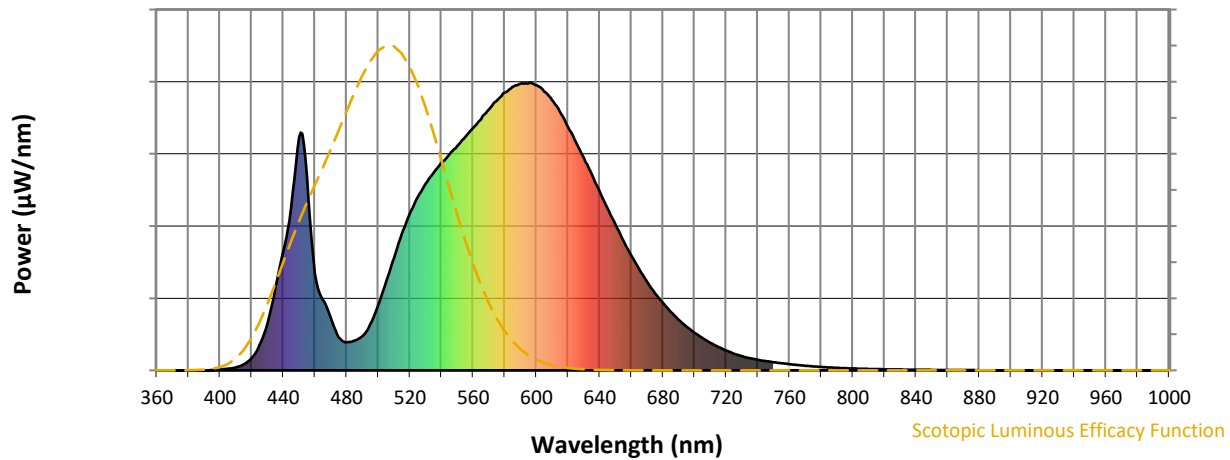


Photopic Lumens: NR

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	119	NR	620	846	NR	750	28	NR	880	1	NR
365	0	NR	495	160	NR	625	793	NR	755	25	NR	885	0	NR
370	0	NR	500	225	NR	630	739	NR	760	22	NR	890	0	NR
375	0	NR	505	308	NR	635	681	NR	765	19	NR	895	0	NR
380	0	NR	510	392	NR	640	623	NR	770	16	NR	900	0	NR
385	0	NR	515	474	NR	645	563	NR	775	14	NR	905	0	NR
390	0	NR	520	545	NR	650	506	NR	780	12	NR	910	0	NR
395	1	NR	525	603	NR	655	451	NR	785	10	NR	915	0	NR
400	3	NR	530	649	NR	660	399	NR	790	9	NR	920	0	NR
405	5	NR	535	687	NR	665	352	NR	795	8	NR	925	0	NR
410	11	NR	540	721	NR	670	307	NR	800	6	NR	930	0	NR
415	21	NR	545	751	NR	675	268	NR	805	6	NR	935	0	NR
420	43	NR	550	779	NR	680	234	NR	810	5	NR	940	0	NR
425	88	NR	555	811	NR	685	203	NR	815	4	NR	945	0	NR
430	163	NR	560	843	NR	690	176	NR	820	4	NR	950	0	NR
435	288	NR	565	873	NR	695	152	NR	825	3	NR	955	0	NR
440	416	NR	570	907	NR	700	131	NR	830	3	NR	960	0	NR
445	566	NR	575	938	NR	705	112	NR	835	3	NR	965	0	NR
450	810	NR	580	965	NR	710	96	NR	840	2	NR	970	0	NR
455	669	NR	585	986	NR	715	81	NR	845	2	NR	975	0	NR
460	338	NR	590	997	NR	720	69	NR	850	2	NR	980	0	NR
465	246	NR	595	997	NR	725	58	NR	855	1	NR	985	0	NR
470	182	NR	600	991	NR	730	49	NR	860	1	NR	990	0	NR
475	115	NR	605	968	NR	735	42	NR	865	1	NR	995	0	NR
480	97	NR	610	939	NR	740	37	NR	870	1	NR	1000	0	NR
485	103	NR	615	896	NR	745	32	NR	875	1	NR			

REPORT NUMBER: SP1-2411-284-1

Scotopic Flux vs. Wavelength



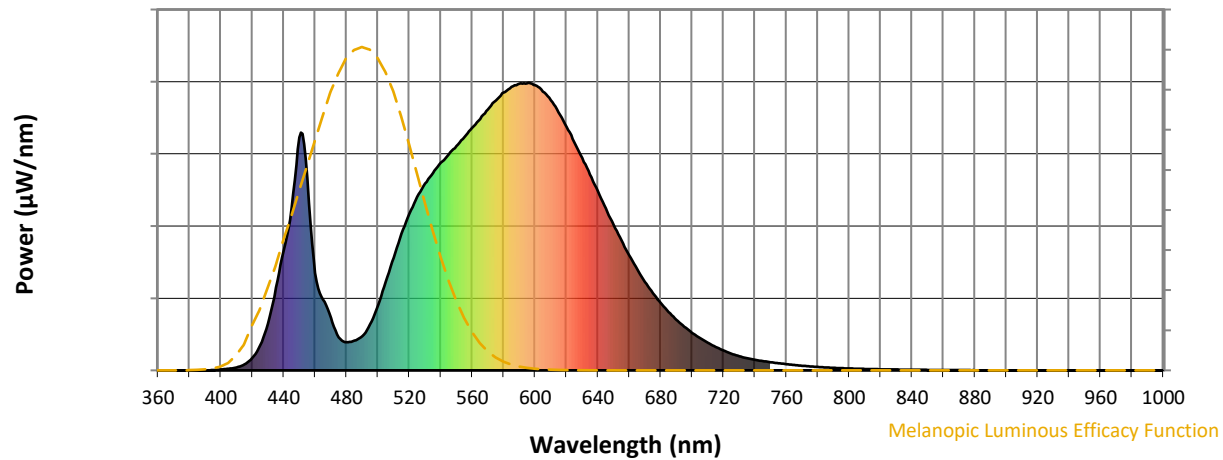
Scotopic Lumens: NR

S/P: 1.33

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	119	NR	620	846	NR	750	28	NR	880	1	NR
365	0	NR	495	160	NR	625	793	NR	755	25	NR	885	0	NR
370	0	NR	500	225	NR	630	739	NR	760	22	NR	890	0	NR
375	0	NR	505	308	NR	635	681	NR	765	19	NR	895	0	NR
380	0	NR	510	392	NR	640	623	NR	770	16	NR	900	0	NR
385	0	NR	515	474	NR	645	563	NR	775	14	NR	905	0	NR
390	0	NR	520	545	NR	650	506	NR	780	12	NR	910	0	NR
395	1	NR	525	603	NR	655	451	NR	785	10	NR	915	0	NR
400	3	NR	530	649	NR	660	399	NR	790	9	NR	920	0	NR
405	5	NR	535	687	NR	665	352	NR	795	8	NR	925	0	NR
410	11	NR	540	721	NR	670	307	NR	800	6	NR	930	0	NR
415	21	NR	545	751	NR	675	268	NR	805	6	NR	935	0	NR
420	43	NR	550	779	NR	680	234	NR	810	5	NR	940	0	NR
425	88	NR	555	811	NR	685	203	NR	815	4	NR	945	0	NR
430	163	NR	560	843	NR	690	176	NR	820	4	NR	950	0	NR
435	288	NR	565	873	NR	695	152	NR	825	3	NR	955	0	NR
440	416	NR	570	907	NR	700	131	NR	830	3	NR	960	0	NR
445	566	NR	575	938	NR	705	112	NR	835	3	NR	965	0	NR
450	810	NR	580	965	NR	710	96	NR	840	2	NR	970	0	NR
455	669	NR	585	986	NR	715	81	NR	845	2	NR	975	0	NR
460	338	NR	590	997	NR	720	69	NR	850	2	NR	980	0	NR
465	246	NR	595	997	NR	725	58	NR	855	1	NR	985	0	NR
470	182	NR	600	991	NR	730	49	NR	860	1	NR	990	0	NR
475	115	NR	605	968	NR	735	42	NR	865	1	NR	995	0	NR
480	97	NR	610	939	NR	740	37	NR	870	1	NR	1000	0	NR
485	103	NR	615	896	NR	745	32	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.47

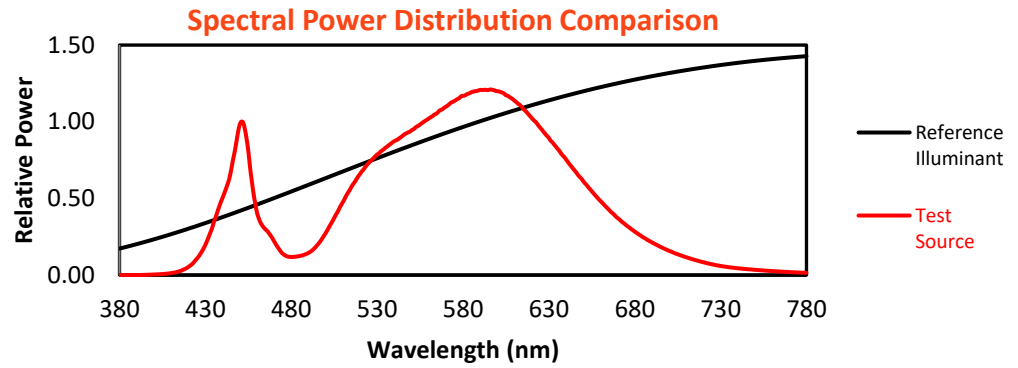
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	119	NR	620	846	NR	750	28	NR	880	1	NR
365	0	NR	495	160	NR	625	793	NR	755	25	NR	885	0	NR
370	0	NR	500	225	NR	630	739	NR	760	22	NR	890	0	NR
375	0	NR	505	308	NR	635	681	NR	765	19	NR	895	0	NR
380	0	NR	510	392	NR	640	623	NR	770	16	NR	900	0	NR
385	0	NR	515	474	NR	645	563	NR	775	14	NR	905	0	NR
390	0	NR	520	545	NR	650	506	NR	780	12	NR	910	0	NR
395	1	NR	525	603	NR	655	451	NR	785	10	NR	915	0	NR
400	3	NR	530	649	NR	660	399	NR	790	9	NR	920	0	NR
405	5	NR	535	687	NR	665	352	NR	795	8	NR	925	0	NR
410	11	NR	540	721	NR	670	307	NR	800	6	NR	930	0	NR
415	21	NR	545	751	NR	675	268	NR	805	6	NR	935	0	NR
420	43	NR	550	779	NR	680	234	NR	810	5	NR	940	0	NR
425	88	NR	555	811	NR	685	203	NR	815	4	NR	945	0	NR
430	163	NR	560	843	NR	690	176	NR	820	4	NR	950	0	NR
435	288	NR	565	873	NR	695	152	NR	825	3	NR	955	0	NR
440	416	NR	570	907	NR	700	131	NR	830	3	NR	960	0	NR
445	566	NR	575	938	NR	705	112	NR	835	3	NR	965	0	NR
450	810	NR	580	965	NR	710	96	NR	840	2	NR	970	0	NR
455	669	NR	585	986	NR	715	81	NR	845	2	NR	975	0	NR
460	338	NR	590	997	NR	720	69	NR	850	2	NR	980	0	NR
465	246	NR	595	997	NR	725	58	NR	855	1	NR	985	0	NR
470	182	NR	600	991	NR	730	49	NR	860	1	NR	990	0	NR
475	115	NR	605	968	NR	735	42	NR	865	1	NR	995	0	NR
480	97	NR	610	939	NR	740	37	NR	870	1	NR	1000	0	NR
485	103	NR	615	896	NR	745	32	NR	875	1	NR			

REPORT NUMBER: SP1-2411-284-1

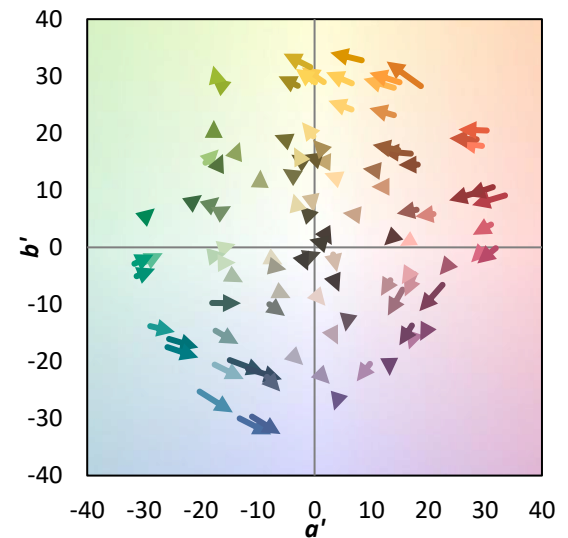
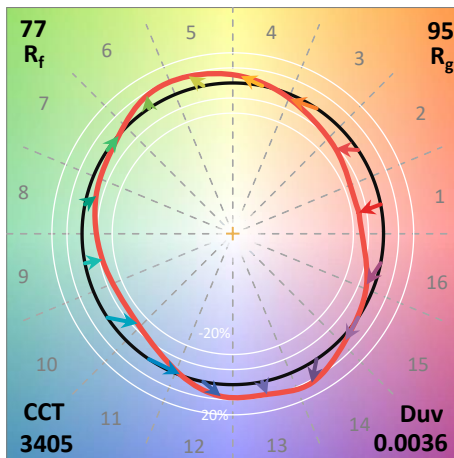
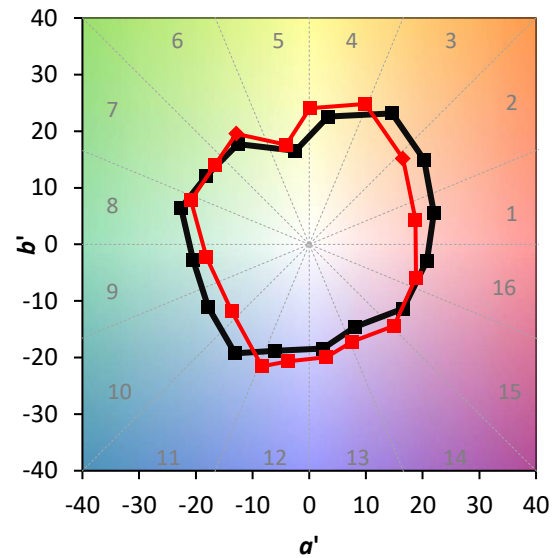
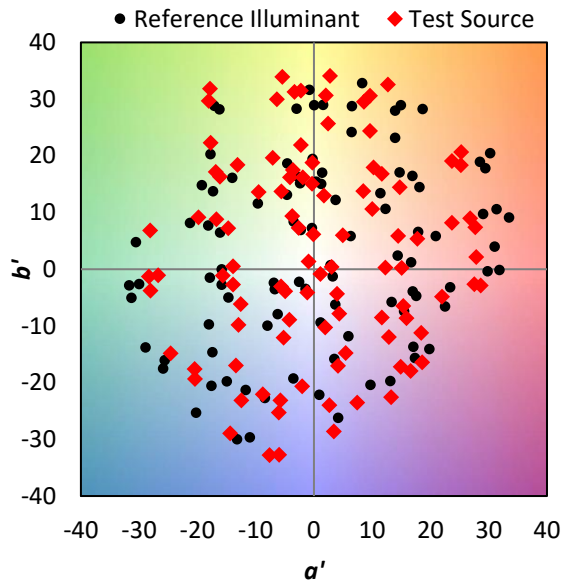
TM-30-18

Summary

$R_f = 76.6$
 $R_g = 95.4$
 $CIE R_a = 73.9$
 $R_g = -18.0$

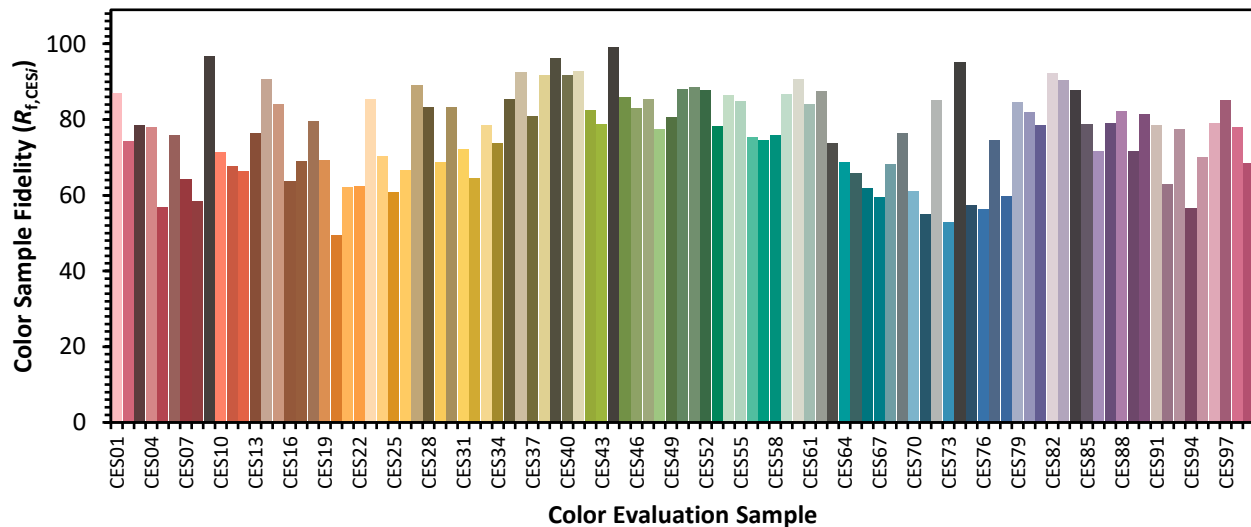


Color Vector Graphics

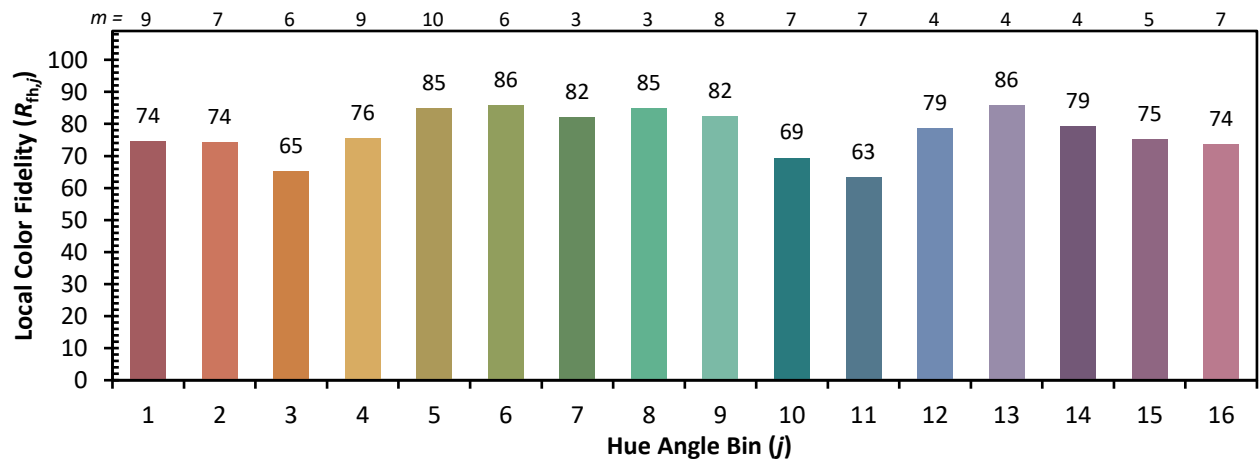
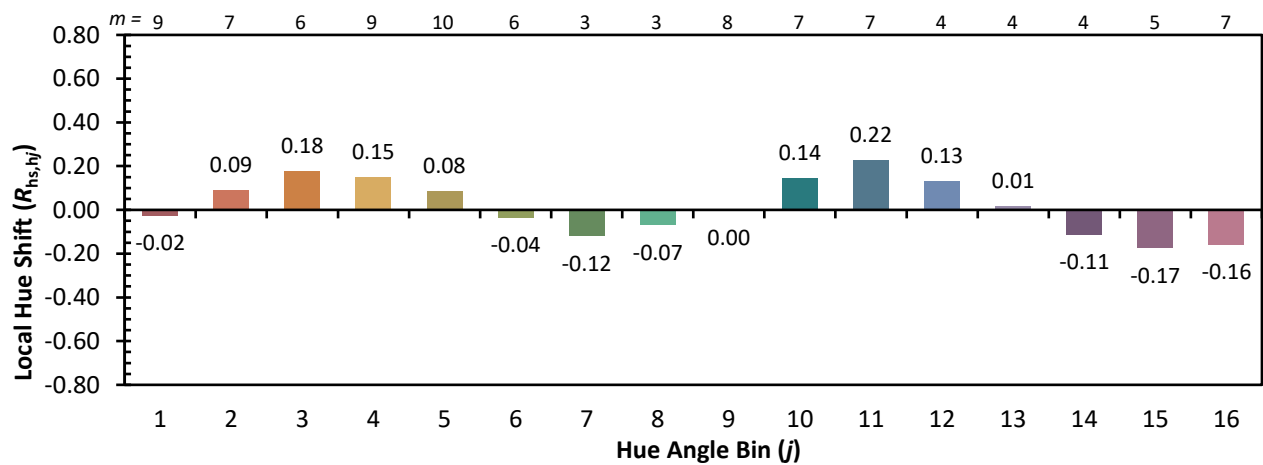
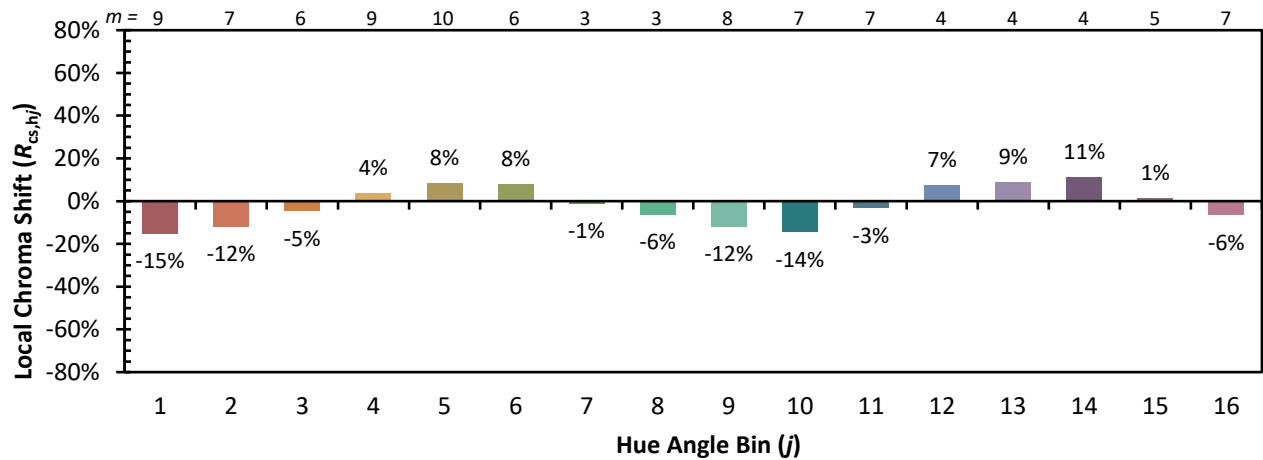


Individual Sample Fidelity Index ($R_{f,i}$)

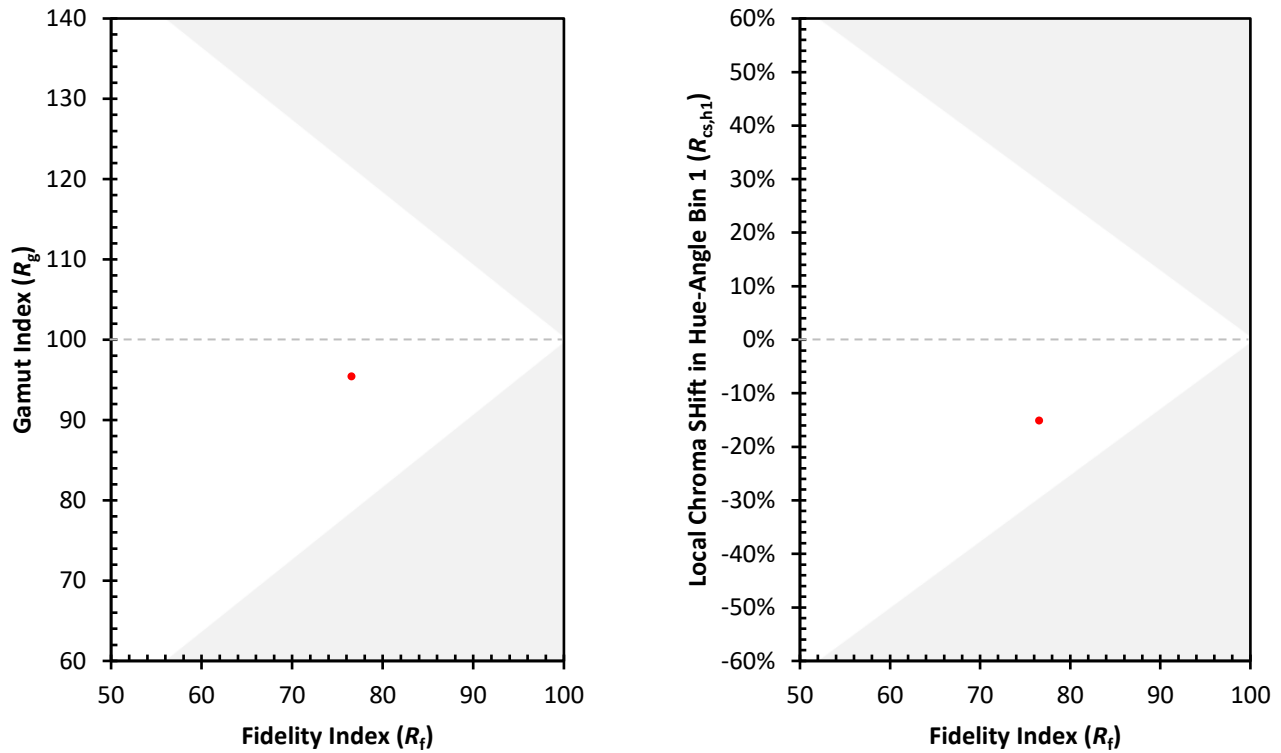
CES01 = 86	CES26 = 67	CES51 = 88	CES76 = 56
CES02 = 62	CES27 = 89	CES52 = 88	CES77 = 75
CES03 = 31	CES28 = 83	CES53 = 78	CES78 = 60
CES04 = 70	CES29 = 69	CES54 = 86	CES79 = 85
CES05 = 48	CES30 = 83	CES55 = 85	CES80 = 82
CES06 = 51	CES31 = 72	CES56 = 75	CES81 = 78
CES07 = 41	CES32 = 65	CES57 = 75	CES82 = 92
CES08 = 40	CES33 = 78	CES58 = 76	CES83 = 90
CES09 = 29	CES34 = 74	CES59 = 87	CES84 = 88
CES10 = 75	CES35 = 86	CES60 = 91	CES85 = 79
CES11 = 58	CES36 = 93	CES61 = 84	CES86 = 72
CES12 = 64	CES37 = 81	CES62 = 88	CES87 = 79
CES13 = 43	CES38 = 92	CES63 = 74	CES88 = 82
CES14 = 74	CES39 = 96	CES64 = 69	CES89 = 72
CES15 = 71	CES40 = 92	CES65 = 66	CES90 = 82
CES16 = 47	CES41 = 93	CES66 = 62	CES91 = 79
CES17 = 50	CES42 = 83	CES67 = 60	CES92 = 63
CES18 = 56	CES43 = 79	CES68 = 68	CES93 = 77
CES19 = 72	CES44 = 99	CES69 = 76	CES94 = 56
CES20 = 65	CES45 = 86	CES70 = 61	CES95 = 70
CES21 = 86	CES46 = 83	CES71 = 55	CES96 = 79
CES22 = 79	CES47 = 85	CES72 = 85	CES97 = 85
CES23 = 92	CES48 = 78	CES73 = 53	CES98 = 78
CES24 = 91	CES49 = 81	CES74 = 95	CES99 = 68
CES25 = 72	CES50 = 88	CES75 = 57	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)