

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: P436900

Luminaire Tested: **TT-D6-740-U-CQ-HSS**

Issue Date: 12/2/2020

Test Information

Test Method: LM-79-08
Report Number: P436900
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2010-017-3)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-D6-740-U-CQ-HSS
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
4000K, 70 CRI LEDS AND CONCENTRATED DISTRIBUTION WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10483.1 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U2 - G2

Input Watts (W): 105.2
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

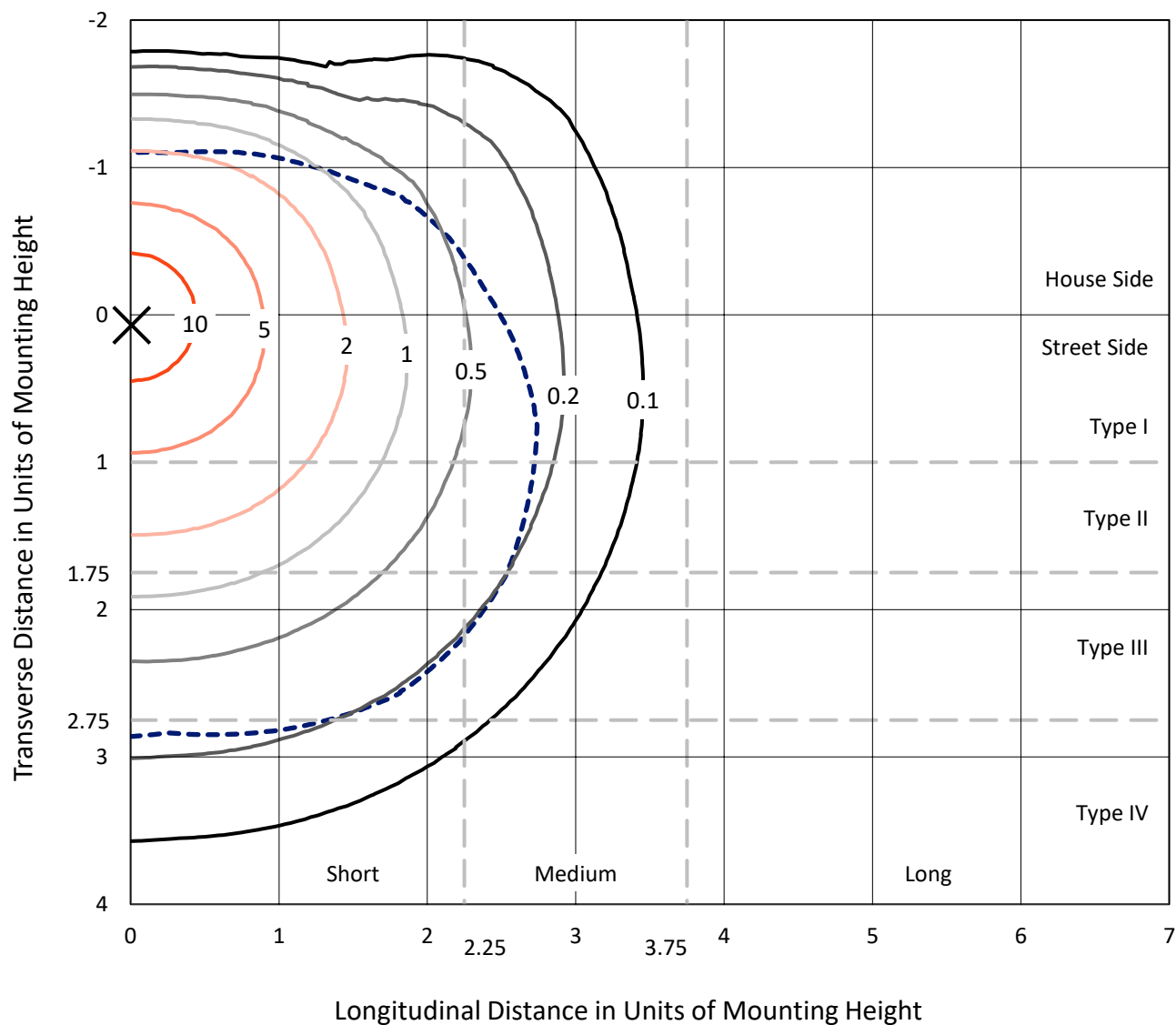
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

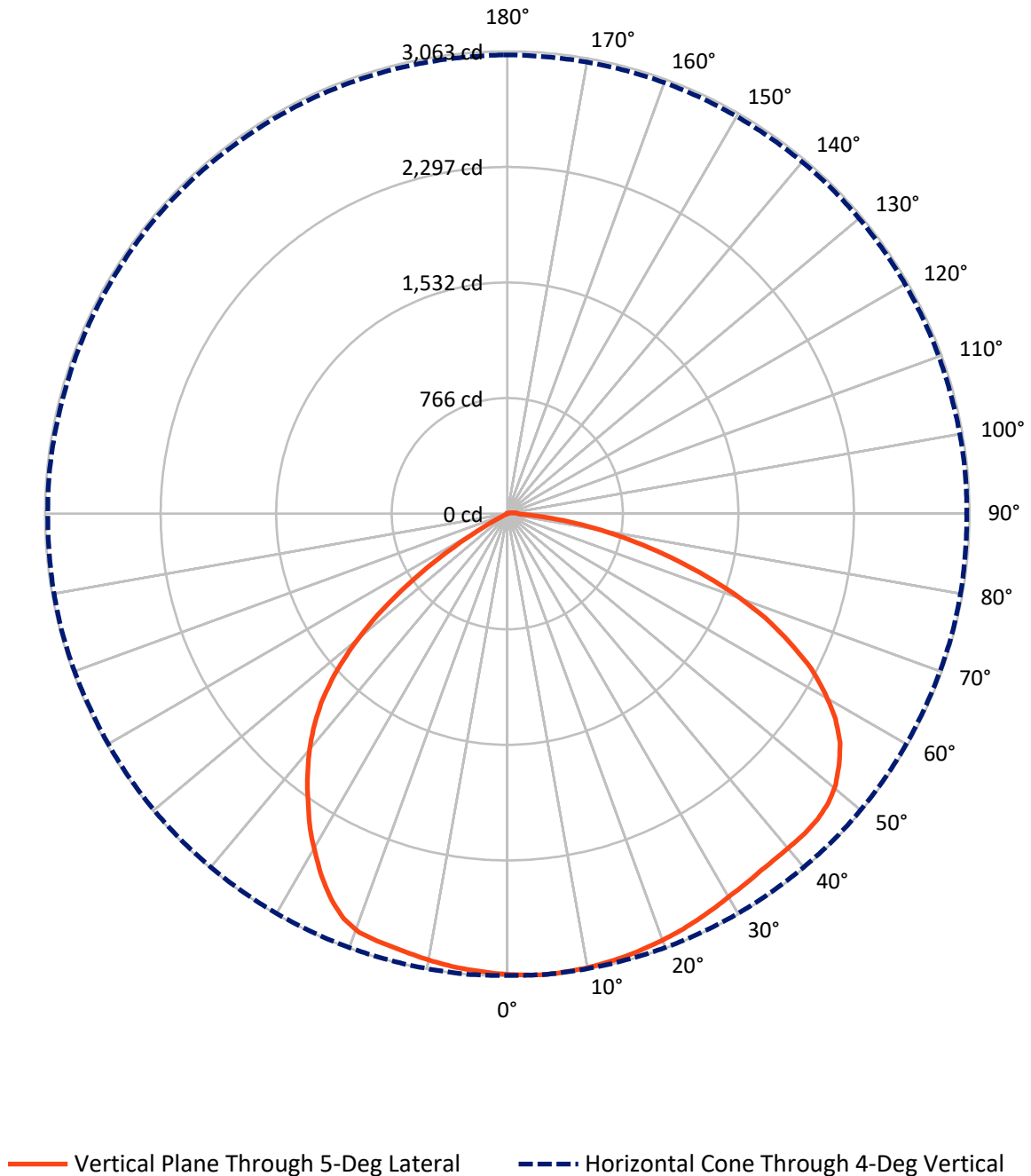


Based on 15 foot mounting height. Maximum calculated value = 13.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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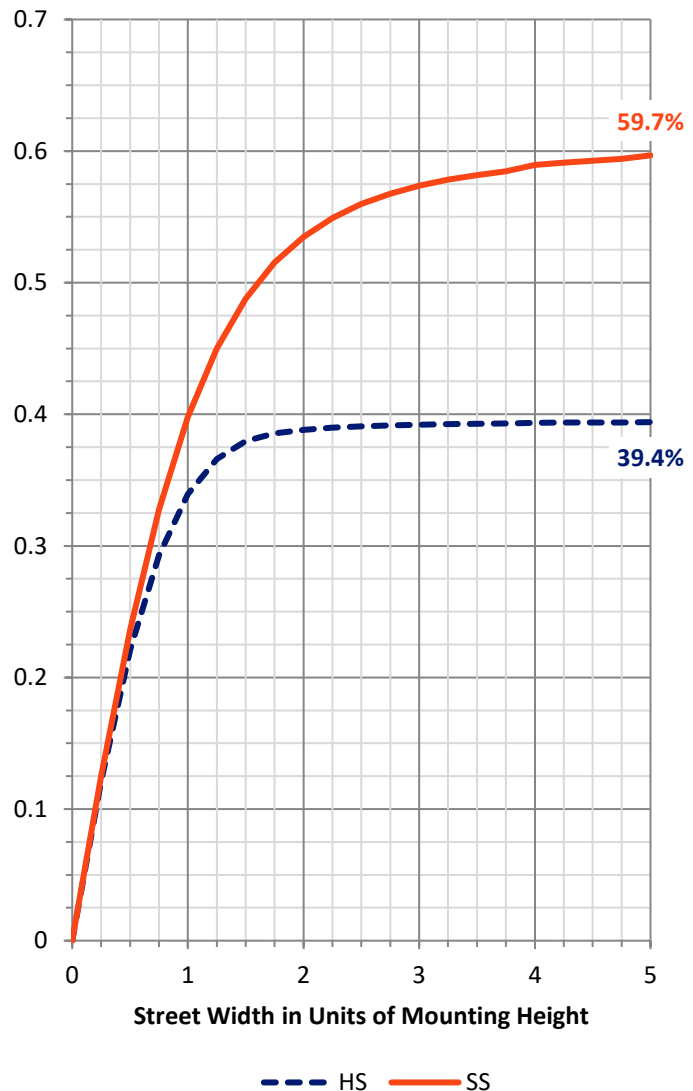
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4154.3	5.4	4159.8
	% Fixture	39.6	0.1	39.7
Street Side	Lumens	6294.1	29.3	6323.4
	% Fixture	60.0	0.3	60.3
Total	Lumens	10448.4	34.7	10483.1
	% Fixture	99.7	0.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.2	2.8
10°-20°	849.7	8.1
20°-30°	1338.9	12.8
30°-40°	1704.0	16.3
40°-50°	1968.2	18.8
50°-60°	1927.1	18.4
60°-70°	1435.3	13.7
70°-80°	777.4	7.4
80°-90°	157.6	1.5
90°-100°	20.0	0.2
100°-110°	7.8	0.1
110°-120°	2.2	0.0
120°-130°	1.6	0.0
130°-140°	1.3	0.0
140°-150°	0.8	0.0
150°-160°	0.5	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-90°	10448.4	99.7
0°-180°	10483.1	100.0



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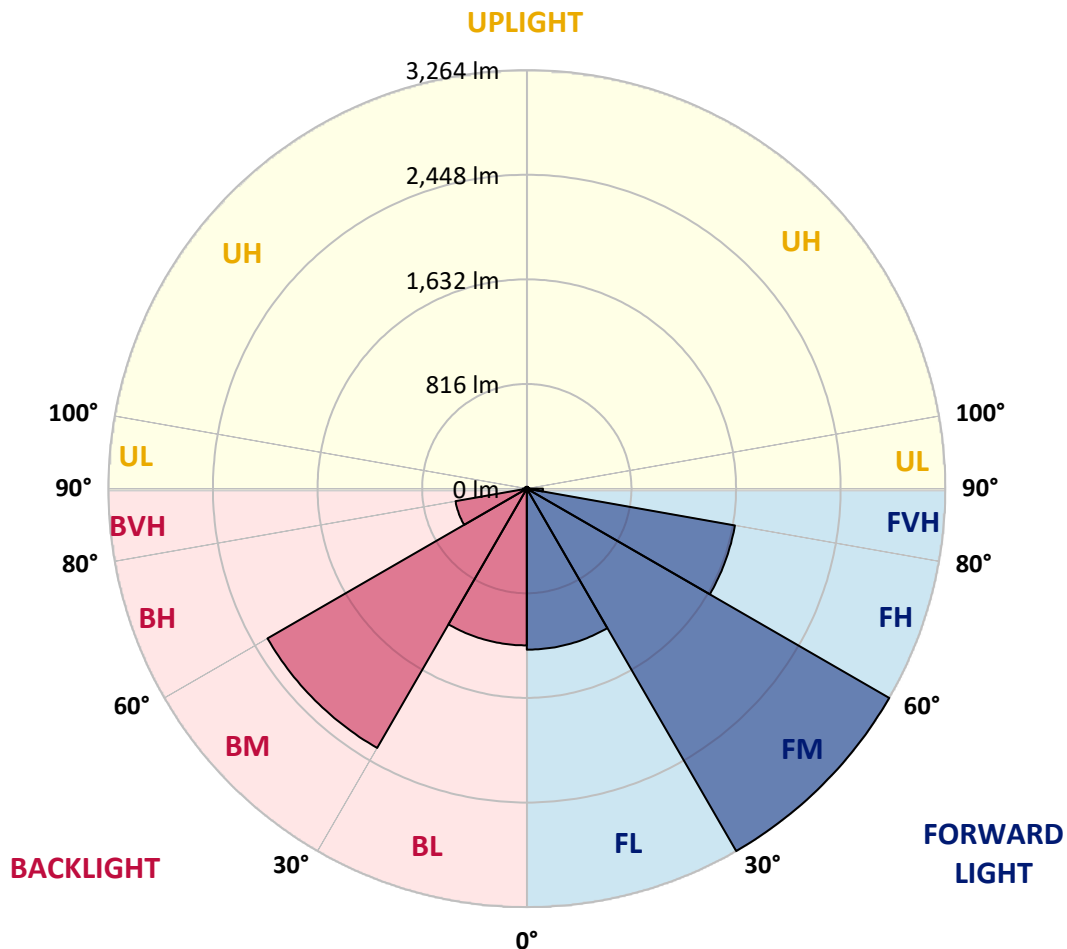
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1256.1	12.0			
FM	(30°-60°)	3264.0	31.1			
FH	(60°-80°)	1648.2	15.7			G1/1800
FVH	(80°-90°)	125.8	1.2			G2/225
BL	(0°-30°)	1222.7	11.7	B3/2500		
BM	(30°-60°)	2335.4	22.3	B2/2500		
BH	(60°-80°)	564.5	5.4	B2/1000		G2/1000
BVH	(80°-90°)	31.7	0.3			G1/100
UL	(90°-100°)	20.0	0.2		U2/50	
UH	(100°-180°)	14.7	0.1		U2/50	

BUG Rating: B3-U2-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3053.2	3053.2	3053.2	3053.2	3053.2	3053.2	3053.2	3053.2	3053.2	3053.2	3053.2
2.5°	3057.2	3061.1	3059.2	3059.2	3055.2	3057.2	3055.2	3055.2	3053.2	3051.3	3051.3
4°	3059.2	3063.1	3059.2	3059.2	3057.2	3057.2	3055.2	3051.3	3053.2	3047.3	3045.4
5°	3061.1	3063.1	3061.1	3061.1	3057.2	3055.2	3051.3	3051.3	3049.3	3045.4	3045.4
7.5°	3057.2	3059.2	3059.2	3057.2	3053.2	3049.3	3047.3	3045.4	3043.4	3037.5	3037.5
10°	3049.3	3053.2	3049.3	3049.3	3047.3	3043.4	3037.5	3035.5	3029.6	3025.7	3023.7
12.5°	3041.4	3043.4	3041.4	3041.4	3037.5	3031.6	3029.6	3025.7	3017.8	3011.9	3011.9
15°	3029.6	3033.5	3031.6	3029.6	3027.6	3021.7	3015.8	3009.9	3004.0	2998.1	2998.1
17.5°	3015.8	3017.8	3019.7	3017.8	3013.8	3009.9	3004.0	2996.1	2990.2	2984.3	2982.3
20°	3000.0	3004.0	3004.0	3004.0	3000.0	2996.1	2988.2	2980.3	2976.4	2968.5	2966.5
22.5°	2984.3	2988.2	2986.2	2988.2	2986.2	2980.3	2972.4	2964.5	2956.7	2950.8	2946.8
25°	2968.5	2968.5	2968.5	2968.5	2968.5	2960.6	2952.7	2942.9	2935.0	2925.1	2925.1
27.5°	2948.8	2948.8	2950.8	2950.8	2948.8	2942.9	2933.0	2921.2	2909.4	2899.5	2895.6
30°	2931.0	2929.1	2933.0	2937.0	2935.0	2929.1	2917.2	2903.4	2885.7	2871.9	2860.1
32.5°	2909.4	2915.3	2919.2	2927.1	2929.1	2921.2	2907.4	2889.6	2871.9	2846.3	2824.6
35°	2901.5	2901.5	2911.3	2923.2	2927.1	2923.2	2903.4	2883.7	2858.1	2820.7	2795.0
37.5°	2893.6	2895.6	2911.3	2929.1	2935.0	2935.0	2913.3	2887.7	2852.2	2799.0	2767.4
40°	2889.6	2893.6	2913.3	2938.9	2954.7	2952.7	2927.1	2895.6	2852.2	2783.2	2743.8
42.5°	2885.7	2893.6	2915.3	2950.8	2974.4	2972.4	2944.8	2903.4	2848.3	2763.5	2718.2
45°	2879.8	2885.7	2915.3	2960.6	2992.1	2998.1	2966.5	2913.3	2848.3	2745.8	2686.6
47.5°	2862.1	2864.0	2903.4	2956.7	3004.0	3011.9	2980.3	2917.2	2840.4	2716.2	2647.2
50°	2814.7	2820.7	2866.0	2937.0	2992.1	3004.0	2976.4	2907.4	2820.7	2666.9	2584.1
52.5°	2753.6	2753.6	2808.8	2887.7	2954.7	2974.4	2948.8	2871.9	2771.4	2594.0	2499.4
55°	2663.0	2676.8	2733.9	2816.7	2889.6	2917.2	2881.8	2806.9	2690.6	2501.3	2396.9
57.5°	2560.5	2564.4	2623.5	2722.1	2797.0	2814.7	2785.2	2696.5	2584.1	2391.0	2266.8
60°	2412.6	2420.5	2495.4	2582.2	2663.0	2686.6	2649.2	2560.5	2442.2	2249.0	2122.9
62.5°	2249.0	2260.9	2327.9	2416.6	2493.5	2530.9	2485.6	2392.9	2276.6	2079.5	1969.1
65°	2051.9	2055.9	2128.8	2229.3	2306.2	2320.0	2280.6	2189.9	2073.6	1884.4	1785.8
67.5°	1825.2	1845.0	1915.9	1990.8	2057.8	2073.6	2046.0	1941.5	1848.9	1681.4	1584.8
70°	1606.5	1596.6	1655.7	1730.6	1791.7	1805.5	1774.0	1677.4	1590.7	1433.0	1358.1
72.5°	1342.3	1334.4	1397.5	1454.7	1513.8	1505.9	1474.4	1397.5	1322.6	1188.6	1119.6
75°	1076.2	1068.3	1117.6	1166.9	1196.5	1200.4	1178.7	1121.6	1040.7	936.3	883.1
77.5°	816.0	823.9	845.6	887.0	914.6	926.4	889.0	831.8	780.6	699.7	660.3
80°	581.5	583.4	591.3	620.9	640.6	640.6	622.9	577.5	520.4	463.2	443.5
82.5°	366.6	374.5	374.5	404.1	404.1	388.3	380.4	350.9	321.3	276.0	248.4
85°	201.1	197.1	208.9	210.9	208.9	197.1	185.3	167.5	147.8	116.3	104.5
87.5°	88.7	86.7	86.7	86.7	84.8	76.9	65.0	51.2	35.5	21.7	15.8
90°	69.0	69.0	67.0	63.1	57.2	51.2	41.4	31.5	19.7	7.9	3.9
92.5°	63.1	63.1	61.1	59.1	53.2	47.3	37.5	27.6	17.7	7.9	3.9
95°	55.2	53.2	53.2	49.3	45.3	39.4	33.5	23.7	15.8	5.9	3.9
97.5°	45.3	43.4	43.4	41.4	37.5	31.5	27.6	19.7	13.8	5.9	3.9
100°	33.5	35.5	33.5	31.5	29.6	25.6	21.7	15.8	9.9	3.9	3.9
102.5°	25.6	25.6	23.7	23.7	21.7	19.7	15.8	11.8	7.9	3.9	2.0
105°	17.7	17.7	17.7	15.8	15.8	13.8	11.8	7.9	5.9	3.9	2.0
107.5°	9.9	9.9	9.9	9.9	9.9	9.9	7.9	5.9	3.9	2.0	2.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	5.9	5.9	5.9	5.9	5.9	5.9	3.9	3.9	2.0	2.0	2.0
112.5°	2.0	2.0	3.9	3.9	3.9	3.9	3.9	2.0	2.0	2.0	2.0
115°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
117.5°	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
120°	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
122.5°	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
125°	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
127.5°	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
130°	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
132.5°	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
135°	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
137.5°	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
140°	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
142.5°	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0
145°	2.0	2.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0
147.5°	2.0	2.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0
150°	2.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0
152.5°	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0
155°	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0
157.5°	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0
160°	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0
162.5°	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0
165°	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0
167.5°	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0
170°	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0
172.5°	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
175°	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
177.5°	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
180°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3053.2	3053.2	3053.2	3053.2	3053.2	3053.2	3053.2	3053.2	3053.2	3053.2
2.5°	3049.3	3043.4	3047.3	3045.4	3047.3	3043.4	3043.4	3043.4	3045.4	3041.4
4°	3047.3	3043.4	3043.4	3043.4	3043.4	3039.5	3039.5	3039.5	3037.5	3039.5
5°	3043.4	3041.4	3039.5	3037.5	3039.5	3035.5	3033.5	3033.5	3033.5	3035.5
7.5°	3035.5	3029.6	3029.6	3023.7	3025.7	3023.7	3021.7	3023.7	3021.7	3021.7
10°	3021.7	3017.8	3015.8	3011.9	3011.9	3007.9	3005.9	3005.9	3005.9	3004.0
12.5°	3007.9	3004.0	3002.0	2998.1	2996.1	2992.1	2990.2	2992.1	2988.2	2988.2
15°	2992.1	2988.2	2986.2	2986.2	2982.3	2978.3	2976.4	2972.4	2972.4	2972.4
17.5°	2978.3	2974.4	2976.4	2972.4	2970.5	2966.5	2966.5	2958.6	2958.6	2956.7
20°	2964.5	2960.6	2960.6	2958.6	2958.6	2954.7	2948.8	2944.8	2942.9	2942.9
22.5°	2946.8	2940.9	2931.0	2917.2	2909.4	2903.4	2901.5	2895.6	2893.6	2889.6
25°	2919.2	2903.4	2881.8	2858.1	2834.5	2822.6	2818.7	2810.8	2810.8	2810.8
27.5°	2885.7	2856.1	2826.6	2791.1	2755.6	2732.0	2716.2	2708.3	2704.4	2704.4
30°	2842.3	2804.9	2763.5	2718.2	2678.7	2635.4	2607.8	2592.0	2584.1	2586.1
32.5°	2802.9	2755.6	2708.3	2651.1	2597.9	2546.7	2499.4	2475.7	2465.9	2461.9
35°	2763.5	2710.3	2653.1	2592.0	2523.0	2448.1	2385.0	2349.6	2329.9	2331.8
37.5°	2733.9	2670.9	2607.8	2532.9	2454.0	2363.4	2282.5	2225.4	2201.7	2205.7
40°	2702.4	2631.4	2562.4	2475.7	2383.1	2274.7	2170.2	2093.3	2065.7	2059.8
42.5°	2672.8	2590.0	2511.2	2418.6	2302.3	2180.0	2051.9	1961.3	1919.9	1913.9
45°	2635.4	2542.7	2458.0	2351.5	2223.4	2071.6	1921.8	1803.6	1760.2	1742.5
47.5°	2586.1	2483.6	2389.0	2266.8	2126.8	1955.3	1768.1	1622.2	1567.0	1553.2
50°	2513.2	2394.9	2298.3	2160.3	1990.8	1801.6	1592.7	1413.3	1340.4	1330.5
52.5°	2416.6	2296.3	2187.9	2030.2	1823.3	1600.5	1364.0	1178.7	1094.0	1088.1
55°	2300.3	2170.2	2051.9	1874.5	1632.1	1373.9	1127.5	892.9	810.1	800.3
57.5°	2164.3	2030.2	1902.1	1683.3	1403.4	1115.6	829.8	605.1	526.3	506.6
60°	2014.5	1876.5	1732.6	1466.5	1095.9	790.4	502.6	321.3	262.2	242.4
62.5°	1868.6	1718.8	1567.0	1208.3	751.0	451.4	228.6	92.6	59.1	57.2
65°	1697.1	1555.2	1399.5	973.7	475.0	203.0	67.0	2.0	0.0	0.0
67.5°	1498.0	1377.8	1239.8	871.2	419.8	177.4	57.2	2.0	0.0	0.0
70°	1285.2	1190.6	1068.3	749.0	360.7	149.8	49.3	0.0	0.0	0.0
72.5°	1060.5	979.6	889.0	622.9	299.6	124.2	39.4	0.0	0.0	0.0
75°	831.8	780.6	699.7	492.8	232.6	94.6	29.6	0.0	0.0	0.0
77.5°	617.0	575.6	516.4	362.7	175.4	69.0	21.7	0.0	0.0	0.0
80°	415.9	384.4	350.9	246.4	118.3	45.3	13.8	0.0	0.0	0.0
82.5°	242.4	218.8	197.1	139.9	65.0	25.6	5.9	0.0	0.0	0.0
85°	98.6	90.7	86.7	59.1	25.6	7.9	2.0	0.0	0.0	0.0
87.5°	11.8	9.9	9.9	5.9	2.0	0.0	0.0	0.0	0.0	0.0
90°	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
95°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0
97.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0
100°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
102.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
105°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
107.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



REPORT NUMBER: P436900

CATALOG NUMBER: TT-D6-740-U-CQ-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
112.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
115°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
117.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
120°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
122.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
125°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
127.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
130°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
132.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
135°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
137.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0
140°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0
142.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0
145°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0
147.5°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	2.0
150°	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
155°	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
157.5°	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
160°	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
162.5°	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
165°	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
167.5°	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
170°	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
172.5°	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
175°	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
177.5°	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
180°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0

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

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2407-176-5

Test Date: 09/24/2024

Luminaire Tested: MEM2-HTN-VA-30-740-U-WQ

Data in this report applies to families of products including MEM2-HTN-VA-30-740-U-WQ

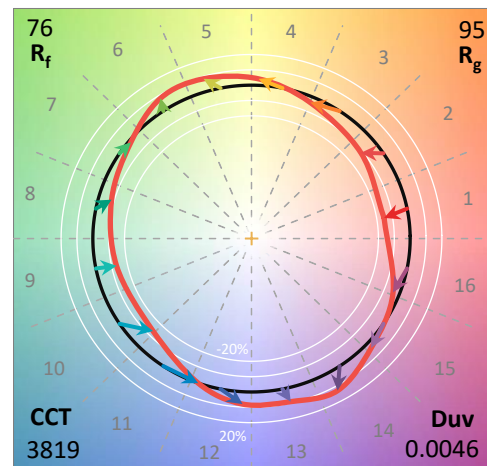
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-176-5
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 09/27/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Streetworks
 Catalog Number: **MEM2-HTN-VA-30-740-U-WQ**
 Description: EPIC MODERN VISUAL COMFORT 30W WAVESTREAM WIDE

Spectral Parameters

CCT (K): 3819
 CIE u' : 0.2261
 CIE v' : 0.5108
 Duv: 0.0046
 CIE x: 0.3926
 CIE y: 0.3942
 CIE z: 0.2132
 Peak Wavelength (nm): 450
 Dominant Wavelength (nm): 577
 Purity: 36.15483
 R_f: 75.6
 R_g: 94.8

CRI (Ra): 72.9
 R1: 70.1
 R2: 78.4
 R3: 85.0
 R4: 72.9
 R5: 69.1
 R6: 69.2
 R7: 82.8
 R8: 55.4
 R9: -21.5
 R10: 48.5
 R11: 68.4
 R12: 39.0
 R13: 71.1
 R14: 91.3
 R15: 63.2



Test Conditions

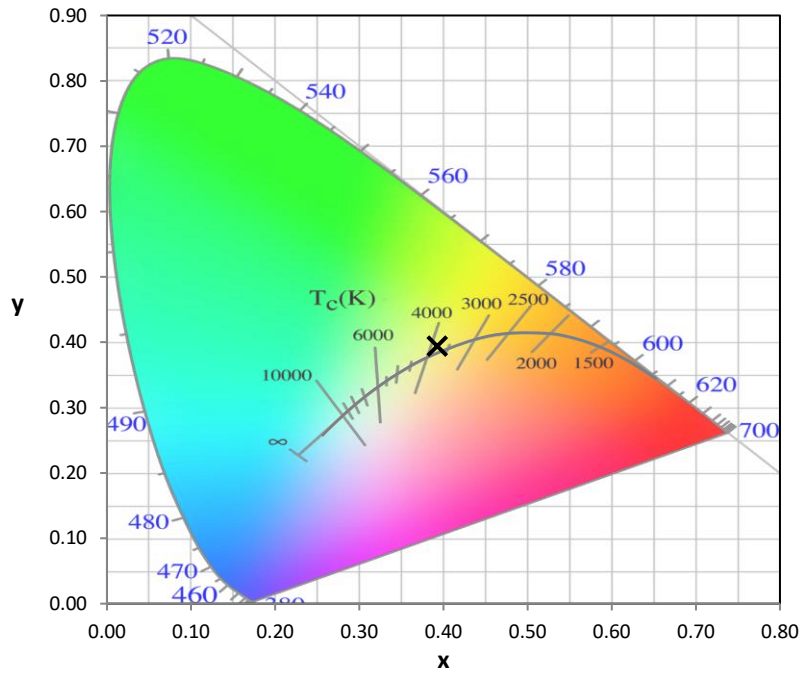
Stabilization Time: 30M
 Operation Time: 1H 30M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-176-5

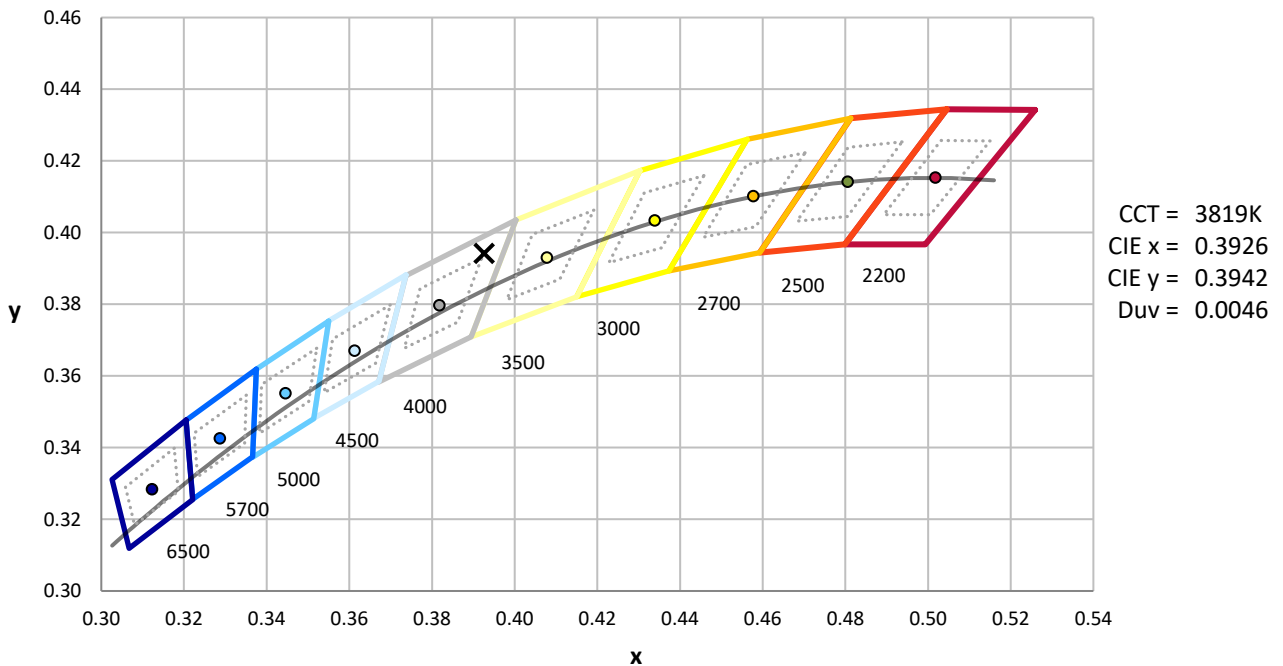
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2407-176-5

CIE 1931 Chromaticity Diagram



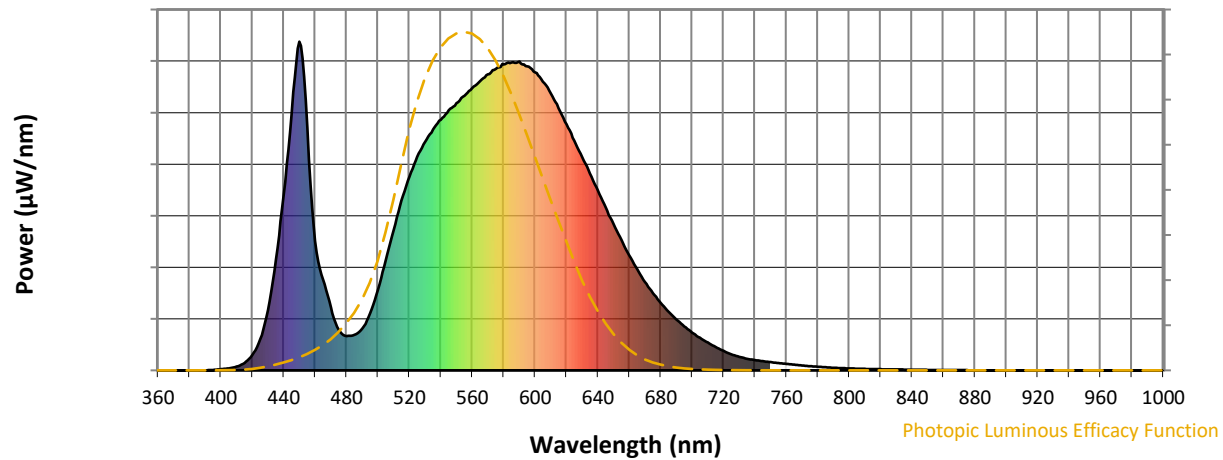
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 7-step quadrangle

REPORT NUMBER: SP1-2407-176-5

Photopic Flux vs. Wavelength

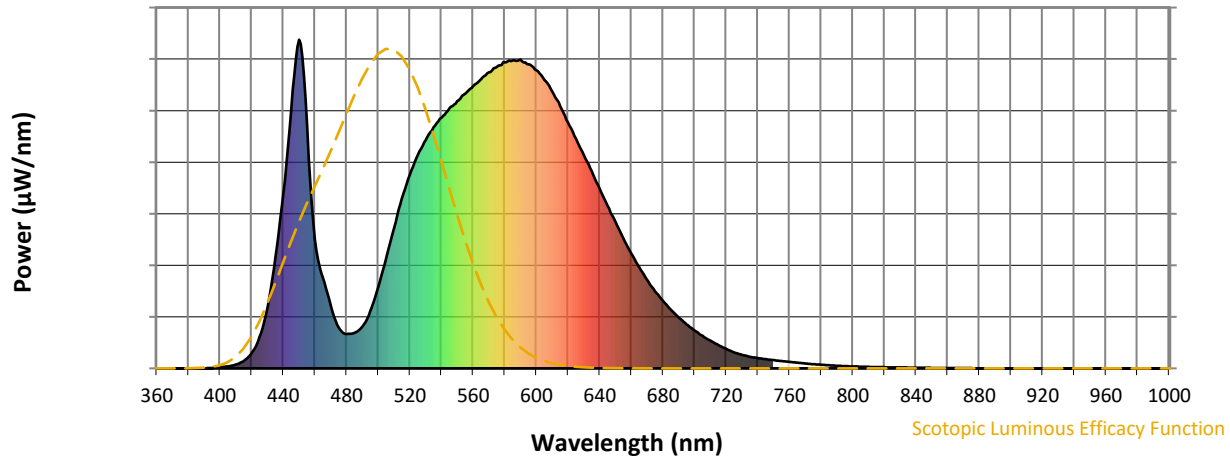


Photopic Lumens: NR

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	127	NR	620	748	NR	750	25	NR	880	0	NR
365	0	NR	495	173	NR	625	699	NR	755	22	NR	885	0	NR
370	0	NR	500	246	NR	630	648	NR	760	20	NR	890	0	NR
375	0	NR	505	335	NR	635	599	NR	765	17	NR	895	0	NR
380	0	NR	510	427	NR	640	547	NR	770	15	NR	900	0	NR
385	0	NR	515	517	NR	645	495	NR	775	13	NR	905	0	NR
390	0	NR	520	589	NR	650	445	NR	780	11	NR	910	0	NR
395	1	NR	525	649	NR	655	396	NR	785	9	NR	915	0	NR
400	4	NR	530	695	NR	660	349	NR	790	8	NR	920	0	NR
405	6	NR	535	733	NR	665	308	NR	795	7	NR	925	0	NR
410	11	NR	540	763	NR	670	269	NR	800	6	NR	930	0	NR
415	23	NR	545	792	NR	675	235	NR	805	5	NR	935	0	NR
420	46	NR	550	813	NR	680	205	NR	810	5	NR	940	0	NR
425	95	NR	555	835	NR	685	178	NR	815	4	NR	945	0	NR
430	183	NR	560	859	NR	690	155	NR	820	3	NR	950	0	NR
435	338	NR	565	880	NR	695	134	NR	825	3	NR	955	0	NR
440	534	NR	570	900	NR	700	115	NR	830	3	NR	960	0	NR
445	782	NR	575	918	NR	705	99	NR	835	2	NR	965	0	NR
450	1000	NR	580	931	NR	710	84	NR	840	2	NR	970	0	NR
455	739	NR	585	937	NR	715	71	NR	845	2	NR	975	0	NR
460	393	NR	590	939	NR	720	59	NR	850	1	NR	980	0	NR
465	276	NR	595	925	NR	725	49	NR	855	1	NR	985	0	NR
470	190	NR	600	907	NR	730	41	NR	860	1	NR	990	0	NR
475	123	NR	605	878	NR	735	35	NR	865	1	NR	995	0	NR
480	105	NR	610	842	NR	740	31	NR	870	1	NR	1000	0	NR
485	108	NR	615	797	NR	745	28	NR	875	1	NR			

REPORT NUMBER: SP1-2407-176-5

Scotopic Flux vs. Wavelength



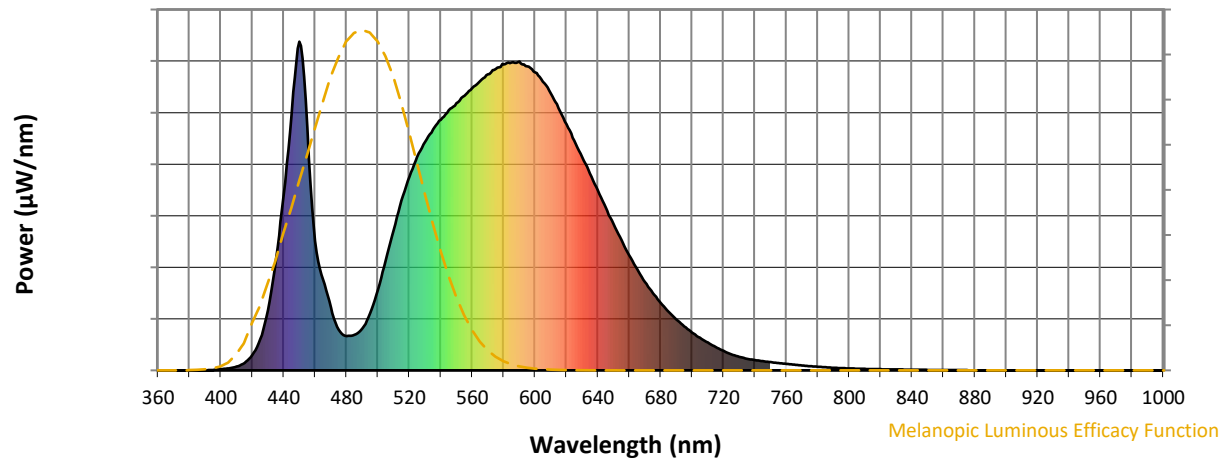
Scotopic Lumens: NR

S/P: 1.45

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	127	NR	620	748	NR	750	25	NR	880	0	NR
365	0	NR	495	173	NR	625	699	NR	755	22	NR	885	0	NR
370	0	NR	500	246	NR	630	648	NR	760	20	NR	890	0	NR
375	0	NR	505	335	NR	635	599	NR	765	17	NR	895	0	NR
380	0	NR	510	427	NR	640	547	NR	770	15	NR	900	0	NR
385	0	NR	515	517	NR	645	495	NR	775	13	NR	905	0	NR
390	0	NR	520	589	NR	650	445	NR	780	11	NR	910	0	NR
395	1	NR	525	649	NR	655	396	NR	785	9	NR	915	0	NR
400	4	NR	530	695	NR	660	349	NR	790	8	NR	920	0	NR
405	6	NR	535	733	NR	665	308	NR	795	7	NR	925	0	NR
410	11	NR	540	763	NR	670	269	NR	800	6	NR	930	0	NR
415	23	NR	545	792	NR	675	235	NR	805	5	NR	935	0	NR
420	46	NR	550	813	NR	680	205	NR	810	5	NR	940	0	NR
425	95	NR	555	835	NR	685	178	NR	815	4	NR	945	0	NR
430	183	NR	560	859	NR	690	155	NR	820	3	NR	950	0	NR
435	338	NR	565	880	NR	695	134	NR	825	3	NR	955	0	NR
440	534	NR	570	900	NR	700	115	NR	830	3	NR	960	0	NR
445	782	NR	575	918	NR	705	99	NR	835	2	NR	965	0	NR
450	1000	NR	580	931	NR	710	84	NR	840	2	NR	970	0	NR
455	739	NR	585	937	NR	715	71	NR	845	2	NR	975	0	NR
460	393	NR	590	939	NR	720	59	NR	850	1	NR	980	0	NR
465	276	NR	595	925	NR	725	49	NR	855	1	NR	985	0	NR
470	190	NR	600	907	NR	730	41	NR	860	1	NR	990	0	NR
475	123	NR	605	878	NR	735	35	NR	865	1	NR	995	0	NR
480	105	NR	610	842	NR	740	31	NR	870	1	NR	1000	0	NR
485	108	NR	615	797	NR	745	28	NR	875	1	NR			

REPORT NUMBER: SP1-2407-176-5

Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.76

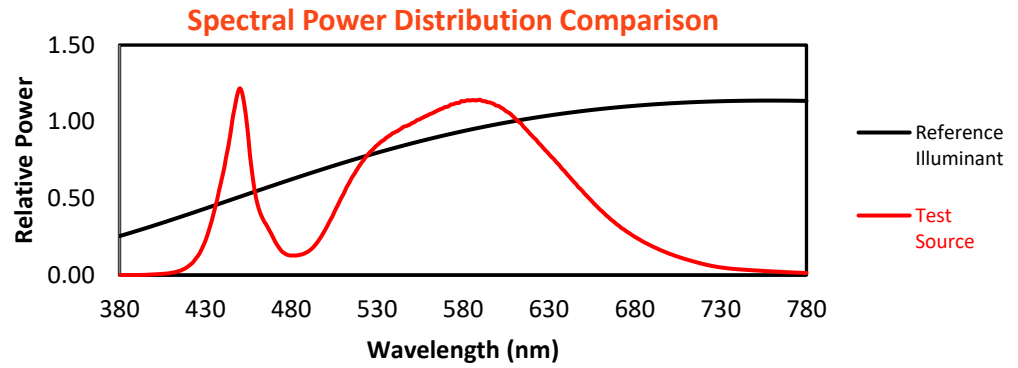
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	127	NR	620	748	NR	750	25	NR	880	0	NR
365	0	NR	495	173	NR	625	699	NR	755	22	NR	885	0	NR
370	0	NR	500	246	NR	630	648	NR	760	20	NR	890	0	NR
375	0	NR	505	335	NR	635	599	NR	765	17	NR	895	0	NR
380	0	NR	510	427	NR	640	547	NR	770	15	NR	900	0	NR
385	0	NR	515	517	NR	645	495	NR	775	13	NR	905	0	NR
390	0	NR	520	589	NR	650	445	NR	780	11	NR	910	0	NR
395	1	NR	525	649	NR	655	396	NR	785	9	NR	915	0	NR
400	4	NR	530	695	NR	660	349	NR	790	8	NR	920	0	NR
405	6	NR	535	733	NR	665	308	NR	795	7	NR	925	0	NR
410	11	NR	540	763	NR	670	269	NR	800	6	NR	930	0	NR
415	23	NR	545	792	NR	675	235	NR	805	5	NR	935	0	NR
420	46	NR	550	813	NR	680	205	NR	810	5	NR	940	0	NR
425	95	NR	555	835	NR	685	178	NR	815	4	NR	945	0	NR
430	183	NR	560	859	NR	690	155	NR	820	3	NR	950	0	NR
435	338	NR	565	880	NR	695	134	NR	825	3	NR	955	0	NR
440	534	NR	570	900	NR	700	115	NR	830	3	NR	960	0	NR
445	782	NR	575	918	NR	705	99	NR	835	2	NR	965	0	NR
450	1000	NR	580	931	NR	710	84	NR	840	2	NR	970	0	NR
455	739	NR	585	937	NR	715	71	NR	845	2	NR	975	0	NR
460	393	NR	590	939	NR	720	59	NR	850	1	NR	980	0	NR
465	276	NR	595	925	NR	725	49	NR	855	1	NR	985	0	NR
470	190	NR	600	907	NR	730	41	NR	860	1	NR	990	0	NR
475	123	NR	605	878	NR	735	35	NR	865	1	NR	995	0	NR
480	105	NR	610	842	NR	740	31	NR	870	1	NR	1000	0	NR
485	108	NR	615	797	NR	745	28	NR	875	1	NR			

REPORT NUMBER: SP1-2407-176-5

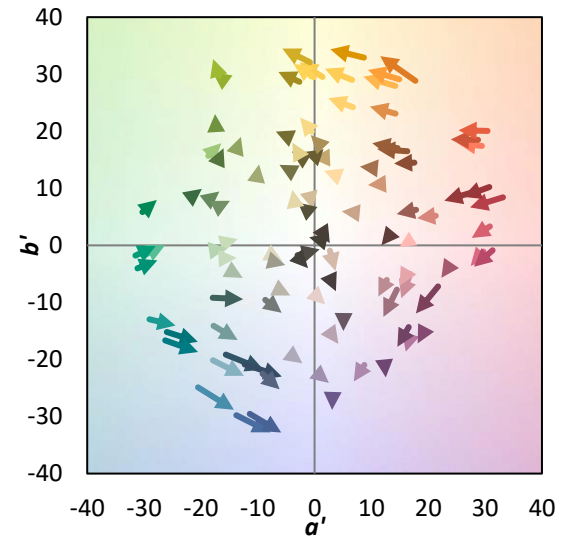
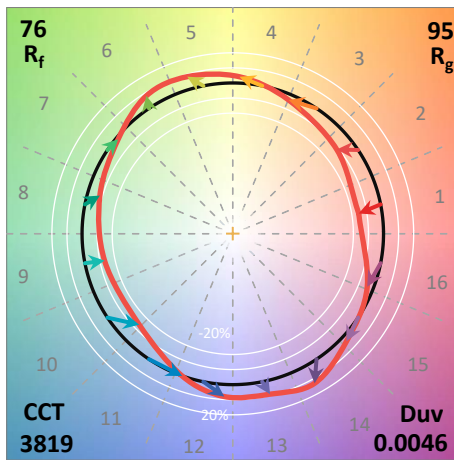
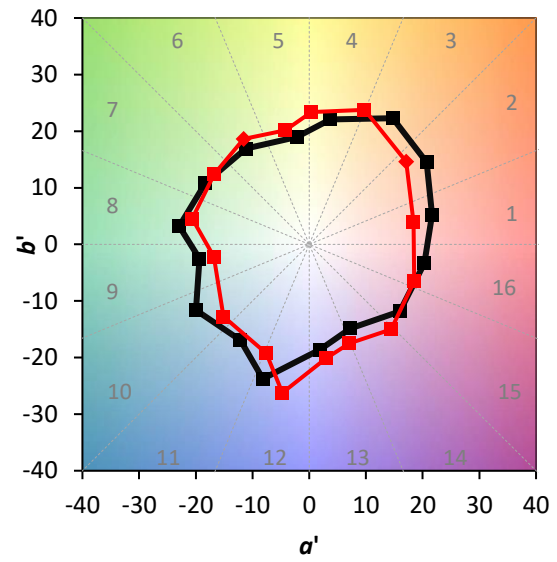
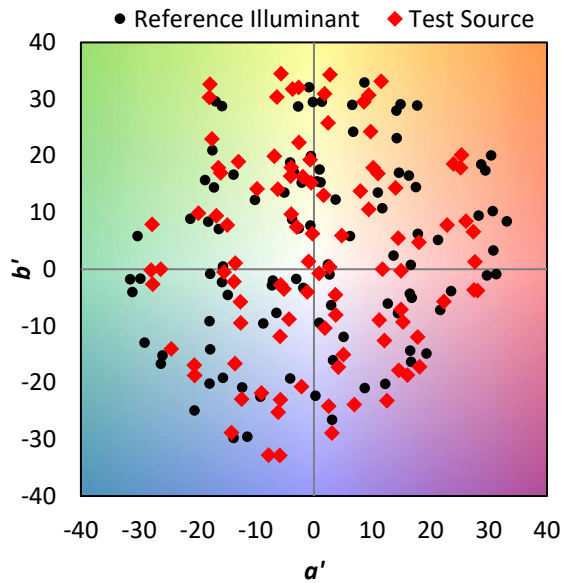
TM-30-18

Summary

$R_f = 75.6$
 $R_g = 94.8$
 $CIE R_a = 72.9$
 $R_g = -21.5$

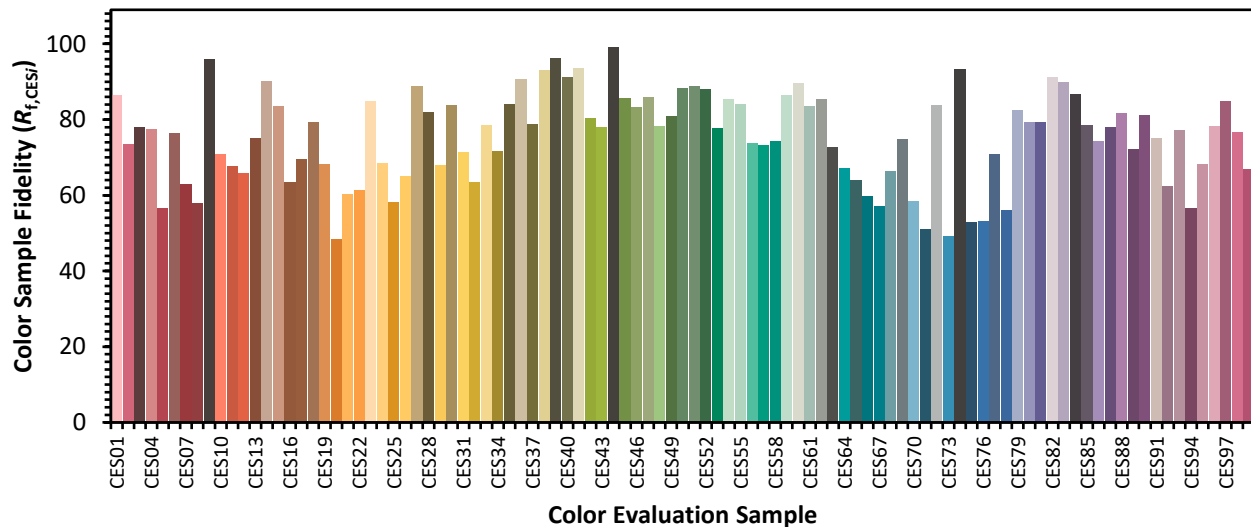


Color Vector Graphics

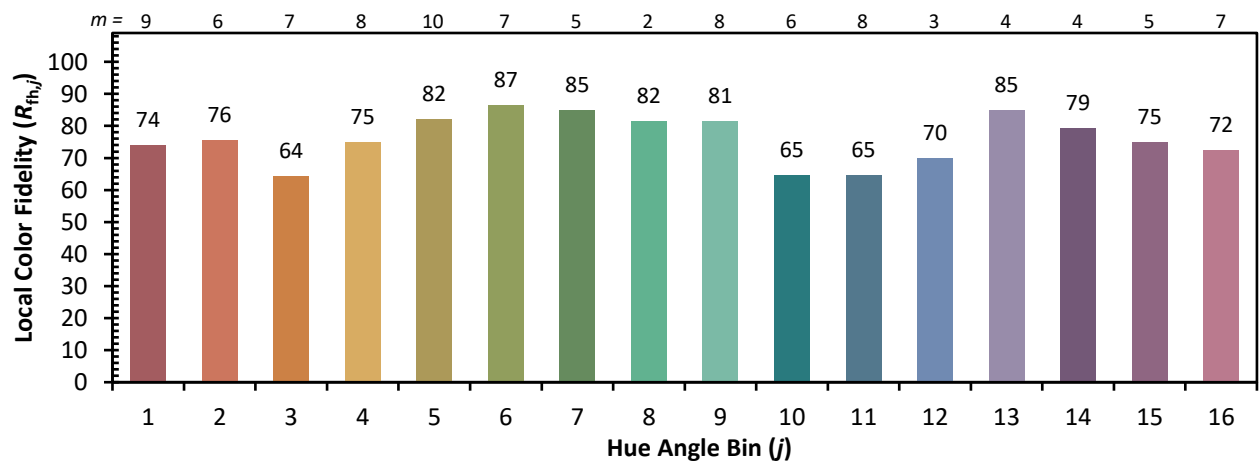
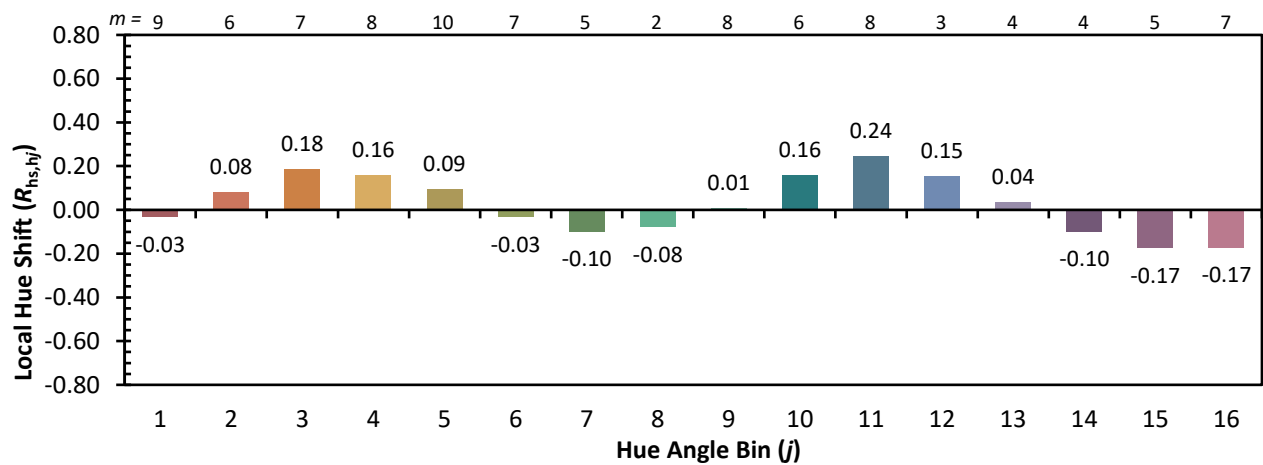
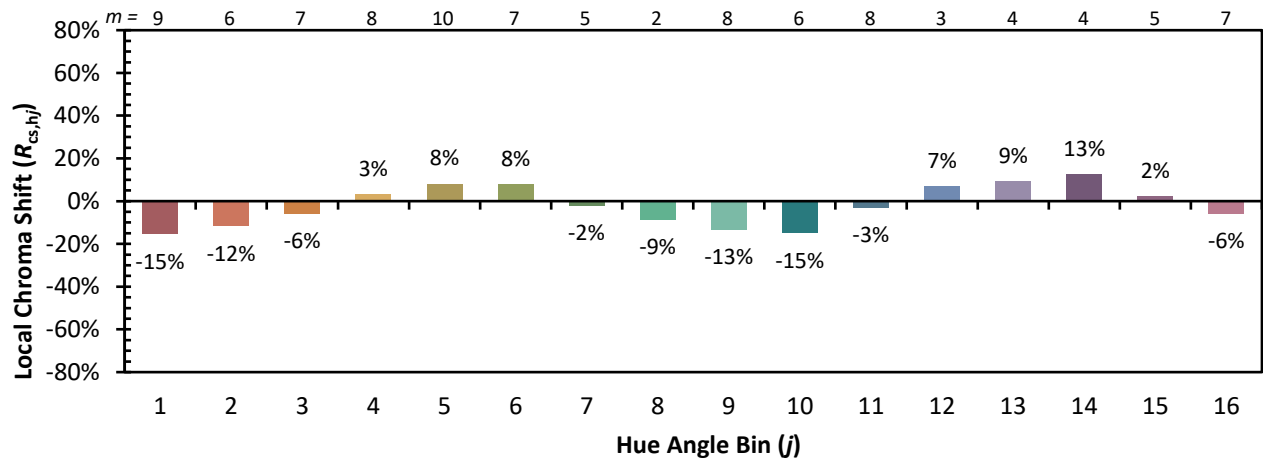


Individual Sample Fidelity Index ($R_{f,i}$)

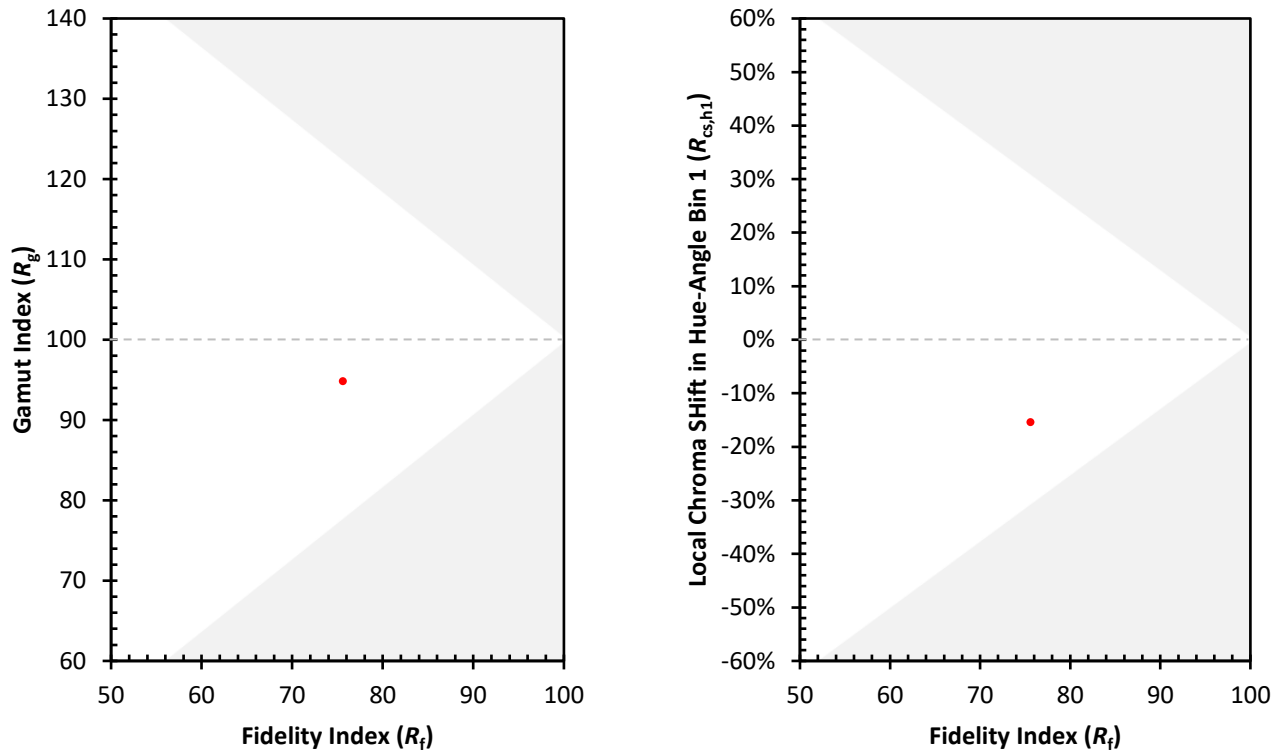
CES01 = 85	CES26 = 65	CES51 = 89	CES76 = 53
CES02 = 61	CES27 = 89	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 82	CES53 = 78	CES78 = 56
CES04 = 70	CES29 = 68	CES54 = 85	CES79 = 83
CES05 = 48	CES30 = 84	CES55 = 84	CES80 = 79
CES06 = 50	CES31 = 71	CES56 = 74	CES81 = 79
CES07 = 40	CES32 = 63	CES57 = 73	CES82 = 91
CES08 = 39	CES33 = 79	CES58 = 74	CES83 = 90
CES09 = 29	CES34 = 72	CES59 = 86	CES84 = 87
CES10 = 74	CES35 = 84	CES60 = 90	CES85 = 78
CES11 = 57	CES36 = 91	CES61 = 84	CES86 = 74
CES12 = 63	CES37 = 79	CES62 = 85	CES87 = 78
CES13 = 42	CES38 = 93	CES63 = 73	CES88 = 82
CES14 = 74	CES39 = 96	CES64 = 67	CES89 = 72
CES15 = 71	CES40 = 91	CES65 = 64	CES90 = 81
CES16 = 47	CES41 = 93	CES66 = 60	CES91 = 75
CES17 = 49	CES42 = 80	CES67 = 57	CES92 = 62
CES18 = 56	CES43 = 78	CES68 = 66	CES93 = 77
CES19 = 72	CES44 = 99	CES69 = 75	CES94 = 57
CES20 = 65	CES45 = 86	CES70 = 58	CES95 = 68
CES21 = 86	CES46 = 83	CES71 = 51	CES96 = 78
CES22 = 78	CES47 = 86	CES72 = 84	CES97 = 85
CES23 = 92	CES48 = 78	CES73 = 49	CES98 = 77
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 67
CES25 = 72	CES50 = 88	CES75 = 53	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)