

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: P436901

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

Issue Date: 12/2/2020

Test Information

Test Method: LM-79-08
Report Number: P436901
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2010-017-1)
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-MQ-HSS
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
4000K, 70 CRI LEDS AND MEDIUM DISTRIBUTION WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11155.1 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U2 - G3

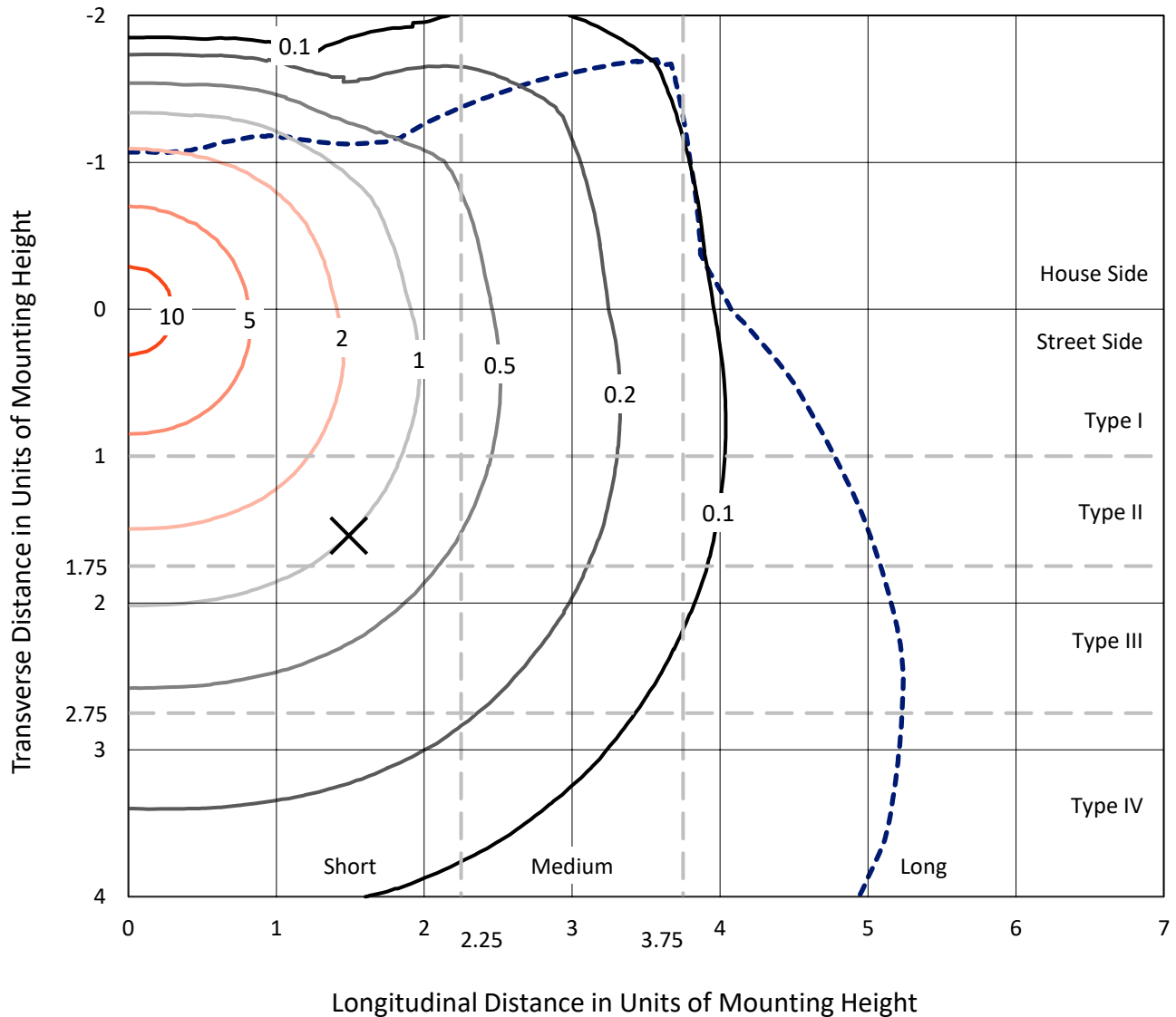
Input Watts (W): 105.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P436901

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

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

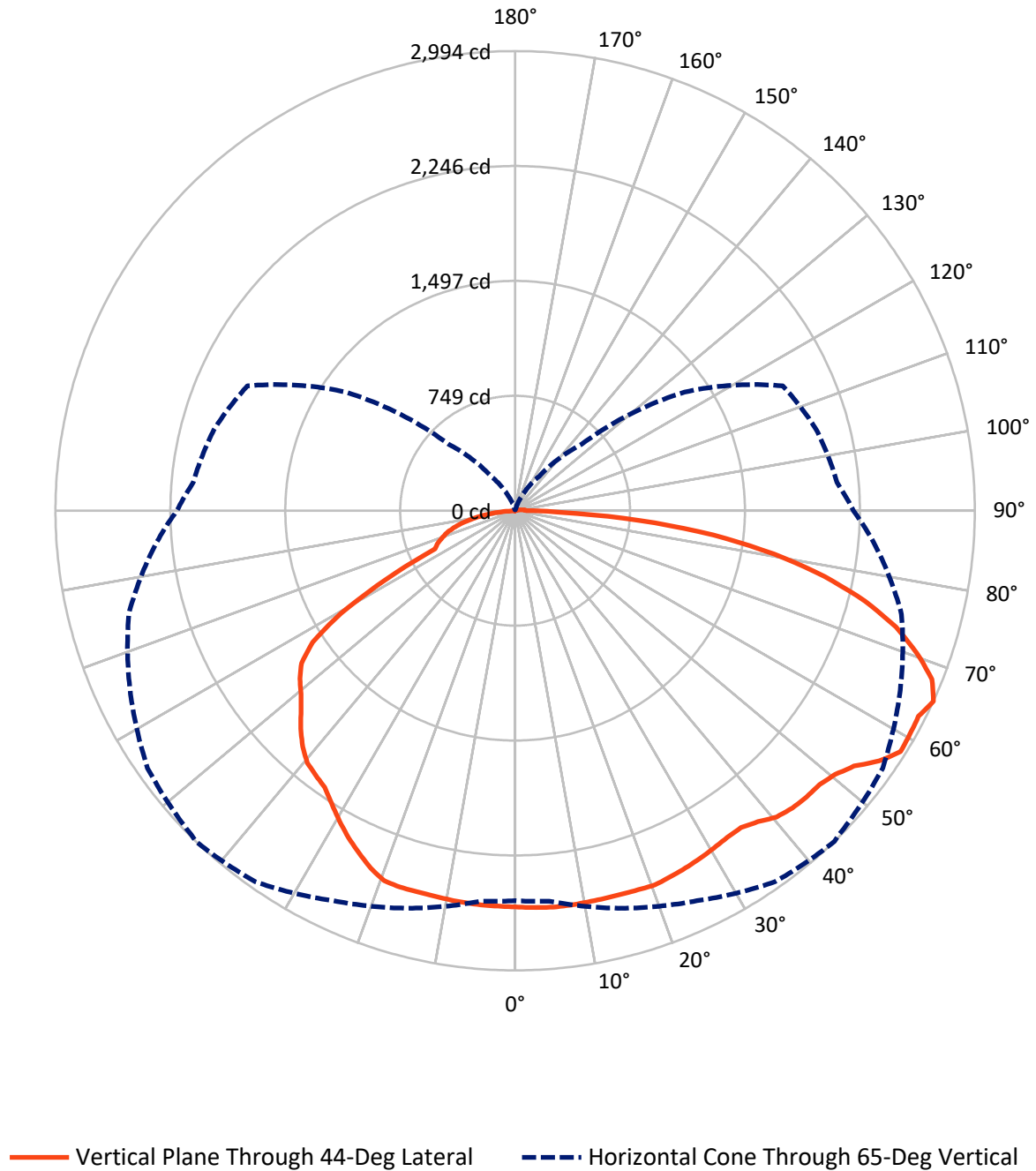


Based on 15 foot mounting height. Maximum calculated value = 11.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P436901

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

Luminous Intensity Polar Plot



REPORT NUMBER: P436901

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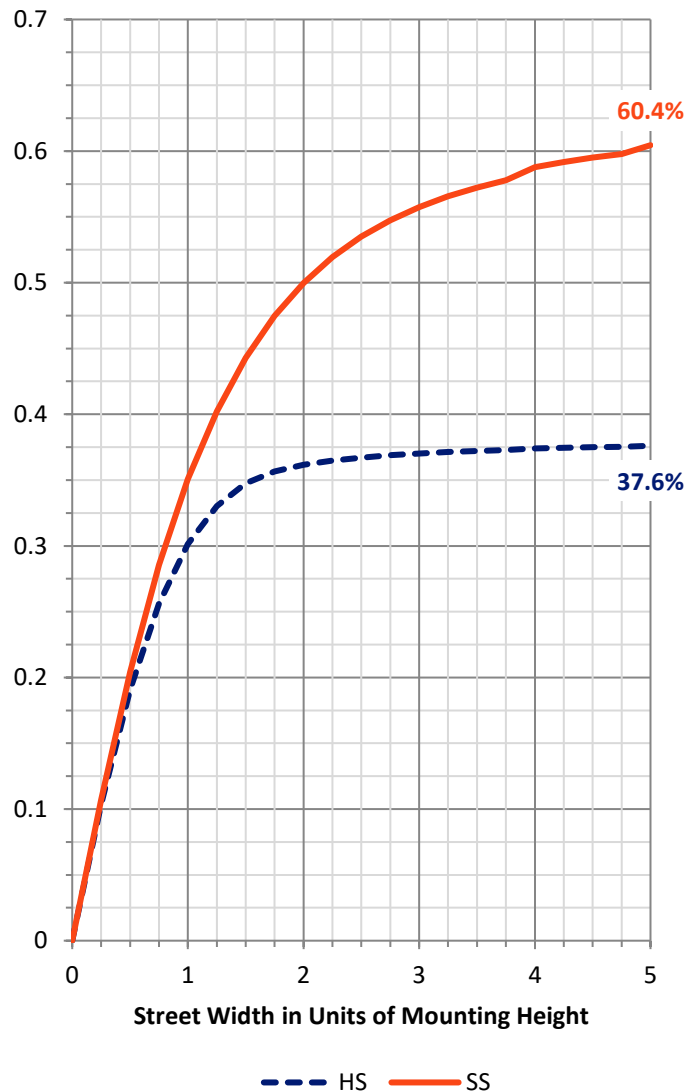
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4223.8	3.0	4226.8
	% Fixture	37.9	0.0	37.9
Street Side	Lumens	6890.4	37.9	6928.3
	% Fixture	61.8	0.3	62.1
Total	Lumens	11114.2	40.9	11155.1
	% Fixture	99.6	0.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.6	2.2
10°-20°	730.0	6.5
20°-30°	1161.7	10.4
30°-40°	1488.3	13.3
40°-50°	1763.2	15.8
50°-60°	1931.1	17.3
60°-70°	1835.5	16.5
70°-80°	1461.4	13.1
80°-90°	496.5	4.5
90°-100°	26.2	0.2
100°-110°	8.6	0.1
110°-120°	1.9	0.0
120°-130°	1.2	0.0
130°-140°	0.9	0.0
140°-150°	0.9	0.0
150°-160°	0.6	0.0
160°-170°	0.4	0.0
170°-180°	0.1	0.0
0°-90°	11114.2	99.6
0°-180°	11155.1	100.0



REPORT NUMBER: P436901

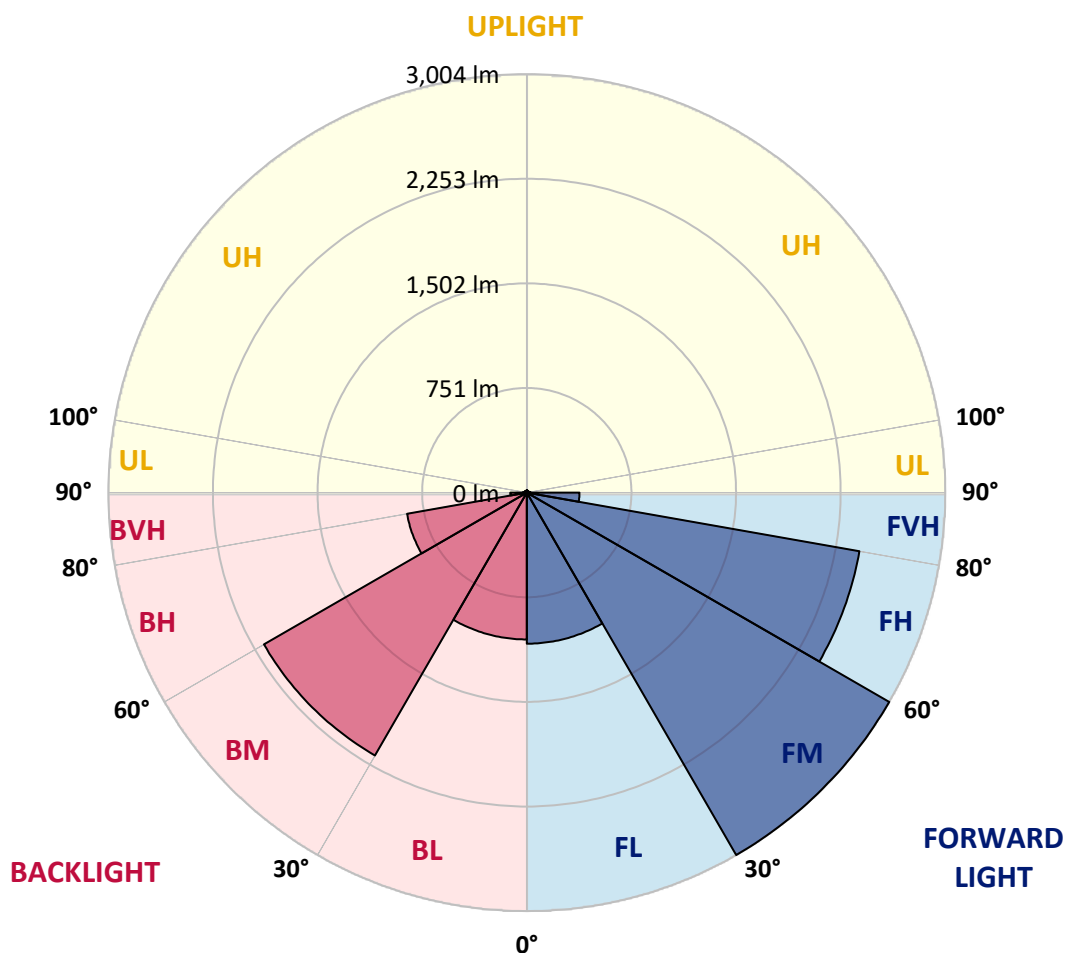
CATALOG NUMBER: TT-D6-740-U-MQ-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1084.2	9.7			
FM	(30°-60°)	3003.9	26.9			
FH	(60°-80°)	2424.1	21.7			G2/5000
FVH	(80°-90°)	378.2	3.4			G3/500
BL	(0°-30°)	1054.0	9.4	B3/2500		
BM	(30°-60°)	2178.7	19.5	B2/2500		
BH	(60°-80°)	872.8	7.8	B2/1000		G2/1000
BVH	(80°-90°)	118.3	1.1			G2/225
UL	(90°-100°)	26.2	0.2		U2/50	
UH	(100°-180°)	14.7	0.1		U2/50	

BUG Rating: B3-U2-G3

Type IV Short



REPORT NUMBER: P436901

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2582.3	2582.3	2582.3	2582.3	2582.3	2582.3	2582.3	2582.3	2582.3	2582.3	2582.3
2.5°	2592.2	2590.2	2590.2	2590.2	2590.2	2588.2	2590.2	2586.2	2588.2	2582.3	2582.3
5°	2598.1	2594.1	2596.1	2596.1	2596.1	2594.1	2596.1	2590.2	2592.2	2584.3	2582.3
7.5°	2600.0	2598.1	2598.1	2598.1	2598.1	2594.1	2596.1	2592.2	2590.2	2584.3	2580.3
10°	2600.0	2598.1	2598.1	2598.1	2596.1	2592.2	2594.1	2588.2	2588.2	2580.3	2576.4
12.5°	2600.0	2598.1	2600.0	2596.1	2596.1	2592.2	2592.2	2586.2	2586.2	2576.4	2572.4
15°	2598.1	2596.1	2596.1	2598.1	2596.1	2592.2	2592.2	2586.2	2584.3	2572.4	2568.5
17.5°	2596.1	2594.1	2596.1	2598.1	2600.0	2596.1	2598.1	2588.2	2584.3	2572.4	2566.5
20°	2598.1	2596.1	2598.1	2602.0	2602.0	2602.0	2602.0	2592.2	2584.3	2572.4	2562.6
22.5°	2592.2	2592.2	2592.2	2592.2	2596.1	2590.2	2590.2	2584.3	2574.4	2564.6	2554.7
25°	2578.4	2578.4	2580.3	2582.3	2582.3	2576.4	2576.4	2570.5	2562.6	2550.8	2538.9
27.5°	2562.6	2562.6	2564.6	2564.6	2568.5	2562.6	2562.6	2554.7	2546.8	2533.0	2519.2
30°	2544.9	2544.9	2544.9	2548.8	2550.8	2548.8	2548.8	2538.9	2529.1	2513.3	2495.6
32.5°	2525.1	2525.1	2531.1	2535.0	2537.0	2537.0	2537.0	2525.1	2513.3	2493.6	2468.0
35°	2509.4	2509.4	2517.3	2531.1	2538.9	2535.0	2533.0	2525.1	2507.4	2485.7	2444.3
37.5°	2519.2	2519.2	2537.0	2556.7	2574.4	2570.5	2570.5	2556.7	2533.0	2497.5	2446.3
40°	2542.9	2544.9	2572.4	2598.1	2619.8	2623.7	2623.7	2607.9	2572.4	2527.1	2456.1
42.5°	2548.8	2552.7	2580.3	2617.8	2637.5	2647.4	2647.4	2625.7	2588.2	2535.0	2452.2
45°	2548.8	2550.8	2582.3	2621.7	2653.3	2661.2	2661.2	2637.5	2590.2	2538.9	2438.4
47.5°	2548.8	2546.8	2574.4	2629.6	2661.2	2667.1	2667.1	2641.4	2596.1	2531.1	2418.7
50°	2542.9	2552.7	2594.1	2637.5	2692.7	2700.6	2698.6	2671.0	2607.9	2540.9	2402.9
52.5°	2556.7	2554.7	2609.9	2696.6	2745.9	2763.7	2765.6	2730.1	2665.1	2568.5	2393.1
55°	2613.8	2615.8	2669.0	2769.6	2844.5	2878.0	2874.0	2828.7	2736.1	2623.7	2420.7
57.5°	2633.6	2653.3	2730.1	2816.9	2931.2	2960.8	2960.8	2905.6	2793.2	2667.1	2440.4
60°	2594.1	2602.0	2696.6	2844.5	2949.0	2954.9	2956.8	2917.4	2799.1	2643.4	2401.0
62.5°	2584.3	2600.0	2673.0	2838.6	2905.6	2949.0	2947.0	2893.8	2793.2	2625.7	2387.2
65°	2540.9	2552.7	2680.9	2803.1	2950.9	2994.3	2984.4	2923.3	2767.6	2606.0	2343.8
67.5°	2452.2	2464.0	2582.3	2753.8	2887.8	2929.2	2939.1	2868.1	2706.5	2513.3	2251.1
70°	2304.4	2322.1	2442.3	2609.9	2751.8	2775.5	2771.5	2728.2	2566.5	2359.6	2115.1
72.5°	2097.4	2125.0	2276.8	2436.4	2558.7	2594.1	2578.4	2529.1	2397.0	2174.3	1929.8
75°	1878.6	1904.2	2024.4	2203.8	2332.0	2355.6	2343.8	2284.7	2150.6	1931.8	1711.0
77.5°	1640.1	1661.7	1764.2	1947.6	2042.2	2061.9	2067.8	1989.0	1862.8	1665.7	1468.6
80°	1318.8	1328.6	1466.6	1586.8	1669.6	1709.1	1705.1	1646.0	1519.8	1356.2	1159.1
82.5°	973.8	981.7	1088.1	1190.6	1265.5	1301.0	1281.3	1222.2	1121.6	981.7	831.9
85°	597.3	583.5	670.2	747.1	792.4	816.1	796.4	762.9	674.2	563.8	459.3
87.5°	214.9	203.0	242.5	254.3	305.5	297.7	315.4	254.3	205.0	145.9	102.5
90°	94.6	94.6	92.6	88.7	80.8	72.9	71.0	59.1	43.4	27.6	9.9
92.5°	86.7	86.7	84.8	80.8	72.9	65.1	65.1	53.2	39.4	25.6	9.9
95°	72.9	72.9	71.0	67.0	61.1	55.2	55.2	43.4	33.5	21.7	7.9
97.5°	57.2	57.2	55.2	53.2	47.3	43.4	43.4	35.5	25.6	15.8	5.9
100°	43.4	43.4	41.4	39.4	37.5	33.5	31.5	25.6	19.7	11.8	3.9
102.5°	31.5	31.5	31.5	29.6	25.6	23.7	23.7	19.7	13.8	9.9	3.9
105°	21.7	21.7	21.7	19.7	17.7	15.8	15.8	13.8	9.9	5.9	2.0
107.5°	13.8	13.8	13.8	13.8	11.8	9.9	9.9	7.9	5.9	3.9	2.0
110°	7.9	5.9	7.9	7.9	7.9	5.9	5.9	3.9	3.9	2.0	2.0



REPORT NUMBER: P436901

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

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
112.5°	3.9	3.9	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	3.9	3.9	2.0	2.0	2.0	2.0	2.0	2.0
117.5°	0.0	2.0	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	2.0	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	2.0	2.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0
142.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
145°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
147.5°	2.0	2.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
150°	2.0	2.0	2.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0
152.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
155°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
157.5°	2.0	2.0	2.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
160°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
162.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
165°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
167.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
170°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
172.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
175°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
177.5°	2.0	2.0	2.0	2.0	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

REPORT NUMBER: P436901

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2582.3	2582.3	2582.3	2582.3	2582.3	2582.3	2582.3	2582.3	2582.3	2582.3	2582.3
2.5°	2582.3	2580.3	2578.4	2580.3	2578.4	2578.4	2576.4	2576.4	2574.4	2574.4	2572.4
5°	2582.3	2580.3	2578.4	2580.3	2576.4	2578.4	2578.4	2576.4	2574.4	2572.4	2570.5
7.5°	2580.3	2580.3	2576.4	2578.4	2574.4	2574.4	2572.4	2572.4	2570.5	2570.5	2568.5
10°	2576.4	2574.4	2574.4	2574.4	2570.5	2570.5	2568.5	2566.5	2566.5	2564.6	2562.6
12.5°	2572.4	2570.5	2568.5	2568.5	2566.5	2564.6	2562.6	2562.6	2560.6	2558.7	2556.7
15°	2566.5	2564.6	2564.6	2564.6	2562.6	2562.6	2560.6	2558.7	2554.7	2552.7	2550.8
17.5°	2564.6	2562.6	2564.6	2564.6	2562.6	2564.6	2560.6	2556.7	2552.7	2550.8	2548.8
20°	2562.6	2562.6	2562.6	2560.6	2558.7	2556.7	2554.7	2552.7	2550.8	2548.8	2546.8
22.5°	2552.7	2550.8	2546.8	2535.0	2521.2	2511.3	2509.4	2513.3	2513.3	2513.3	2507.4
25°	2535.0	2529.1	2513.3	2491.6	2468.0	2452.2	2442.3	2442.3	2440.4	2436.4	2434.5
27.5°	2513.3	2501.5	2473.9	2446.3	2412.8	2393.1	2369.4	2355.6	2349.7	2347.7	2343.8
30°	2483.7	2466.0	2430.5	2395.0	2353.6	2326.0	2288.6	2264.9	2251.1	2245.2	2241.3
32.5°	2448.3	2430.5	2389.1	2345.8	2296.5	2257.1	2209.7	2172.3	2146.7	2134.8	2128.9
35°	2424.6	2399.0	2351.7	2300.4	2251.1	2194.0	2136.8	2085.6	2046.1	2032.3	2024.4
37.5°	2414.8	2391.1	2339.8	2288.6	2233.4	2164.4	2097.4	2024.4	1971.2	1947.6	1939.7
40°	2420.7	2391.1	2333.9	2278.7	2213.7	2136.8	2048.1	1957.4	1888.4	1854.9	1847.0
42.5°	2406.9	2373.4	2306.3	2247.2	2166.4	2079.6	1971.2	1866.8	1774.1	1746.5	1734.7
45°	2383.2	2341.8	2268.9	2194.0	2109.2	2002.8	1890.4	1756.4	1646.0	1612.5	1602.6
47.5°	2359.6	2302.4	2215.7	2146.7	2044.2	1920.0	1787.9	1638.1	1500.1	1466.6	1460.7
50°	2324.1	2270.9	2178.2	2097.4	1992.9	1849.0	1699.2	1511.9	1356.2	1299.0	1283.3
52.5°	2308.3	2239.3	2150.6	2087.5	1961.4	1797.8	1608.5	1407.5	1182.7	1111.8	1096.0
55°	2324.1	2237.3	2142.7	2081.6	1935.7	1732.7	1500.1	1243.8	983.6	908.7	887.1
57.5°	2296.5	2221.6	2127.0	2058.0	1868.7	1598.7	1342.4	1013.2	743.2	646.6	638.7
60°	2261.0	2154.5	2065.8	2002.8	1728.8	1346.3	1044.7	721.5	447.5	364.7	348.9
62.5°	2247.2	2136.8	2034.3	1957.4	1541.5	989.6	636.7	364.7	185.3	130.1	118.3
65°	2203.8	2105.3	2032.3	1923.9	1346.3	611.1	274.0	108.4	7.9	5.9	5.9
67.5°	2121.0	2020.5	1971.2	1908.1	1326.6	583.5	248.4	98.6	3.9	0.0	0.0
70°	1979.1	1900.3	1866.8	1833.2	1269.5	540.1	226.7	88.7	2.0	0.0	0.0
72.5°	1791.8	1738.6	1732.7	1728.8	1186.7	498.7	203.0	78.8	2.0	0.0	0.0
75°	1604.6	1539.5	1549.4	1573.0	1084.2	441.6	175.4	69.0	2.0	0.0	0.0
77.5°	1368.0	1320.7	1344.4	1383.8	950.1	374.5	143.9	55.2	2.0	0.0	0.0
80°	1076.3	1044.7	1098.0	1133.5	776.7	297.7	108.4	39.4	0.0	0.0	0.0
82.5°	764.8	747.1	796.4	841.7	577.6	210.9	74.9	25.6	0.0	0.0	0.0
85°	412.0	402.1	449.4	498.7	346.9	120.2	37.5	11.8	0.0	0.0	0.0
87.5°	102.5	94.6	96.6	116.3	84.8	25.6	5.9	2.0	0.0	0.0	0.0
90°	2.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
102.5°	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
110°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P436901

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
115°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
117.5°	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
122.5°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
125°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
127.5°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
130°	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
135°	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	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	0.0
147.5°	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	2.0	2.0	2.0	2.0	2.0	0.0	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	0.0
155°	2.0	2.0	2.0	2.0	2.0	0.0	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	0.0
160°	2.0	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	2.0	0.0	0.0	0.0	0.0	0.0
165°	2.0	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	2.0	0.0	0.0	0.0	0.0	0.0
170°	2.0	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	2.0	0.0	0.0	0.0	0.0	0.0
175°	2.0	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	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	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

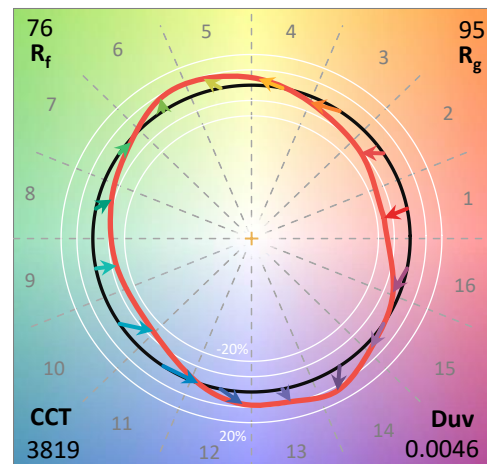
Test Information

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

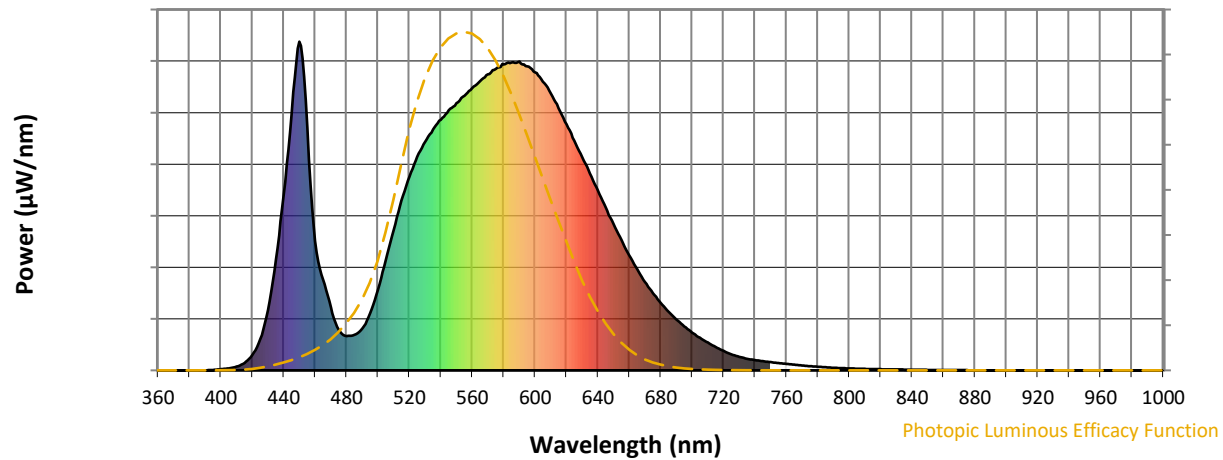
Stabilization Time: 30M
 Operation Time: 1H 30M
 Sphere Temperature (°C): 25.2

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

Photopic Flux vs. Wavelength

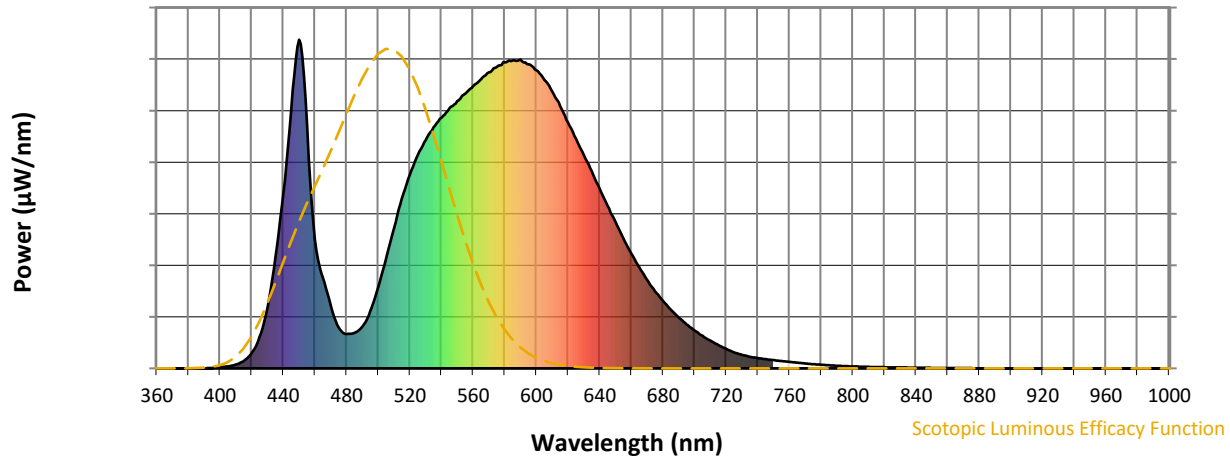


Photopic Lumens: NR

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



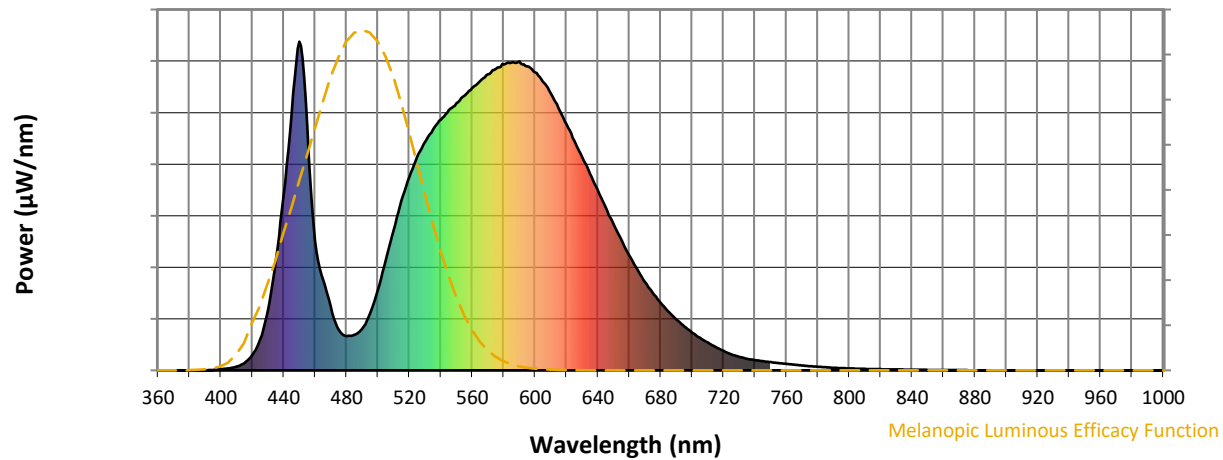
Scotopic Lumens: NR

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

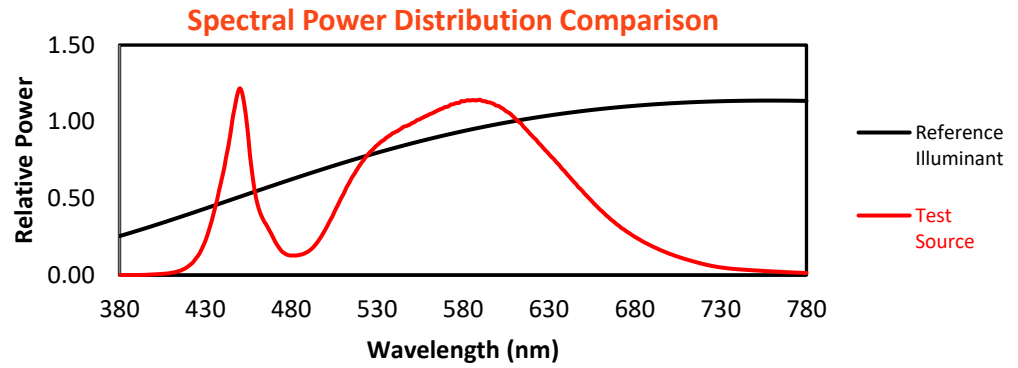
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	127	NR	620	748	NR	750	25	NR	880	0	NR
365	0	NR	495	173	NR	625	699	NR	755	22	NR	885	0	NR
370	0	NR	500	246	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

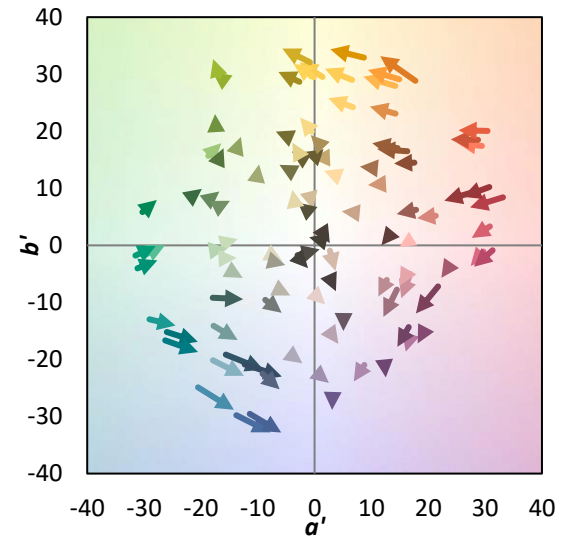
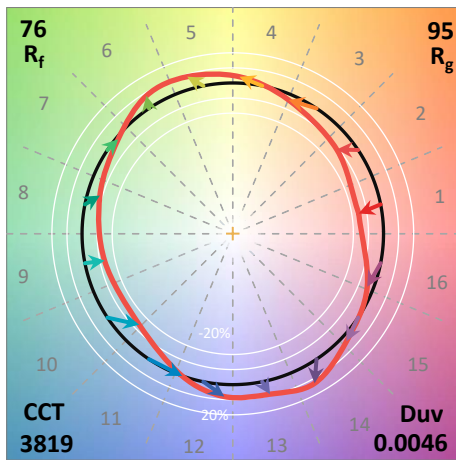
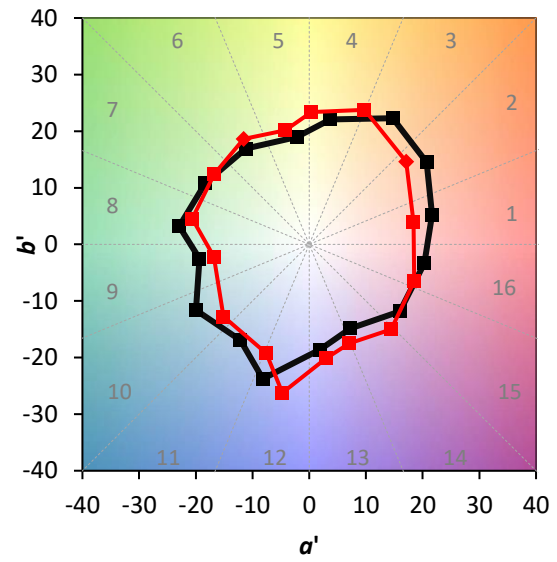
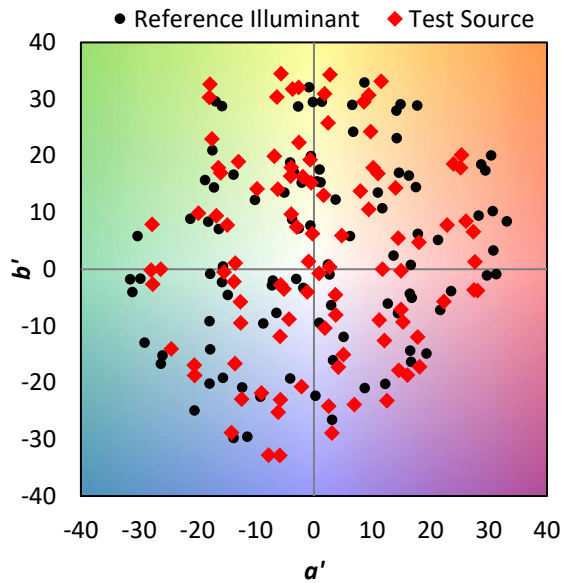
TM-30-18

Summary

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

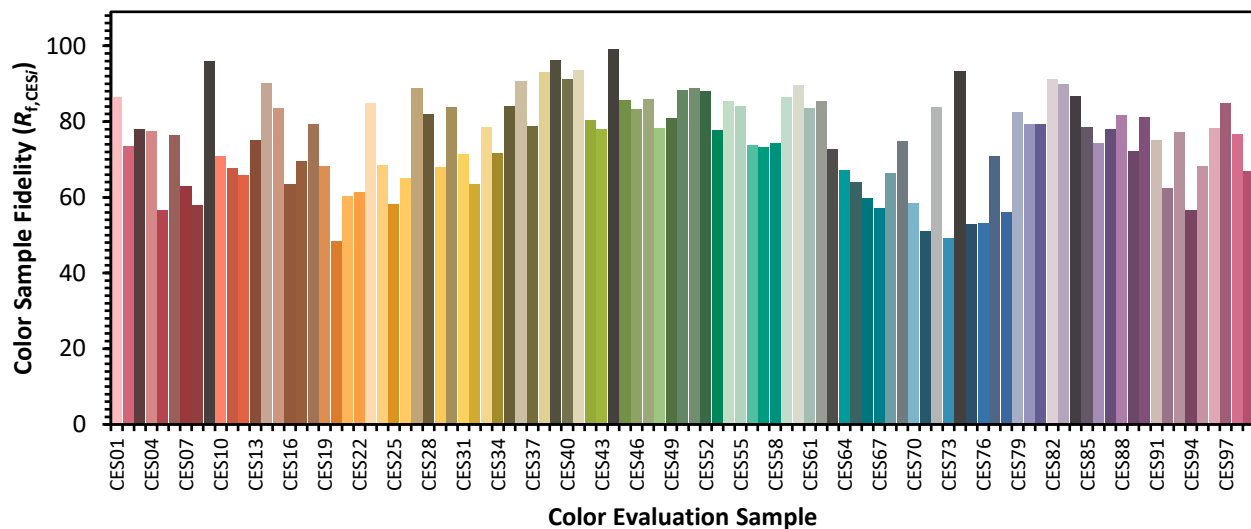


Color Vector Graphics

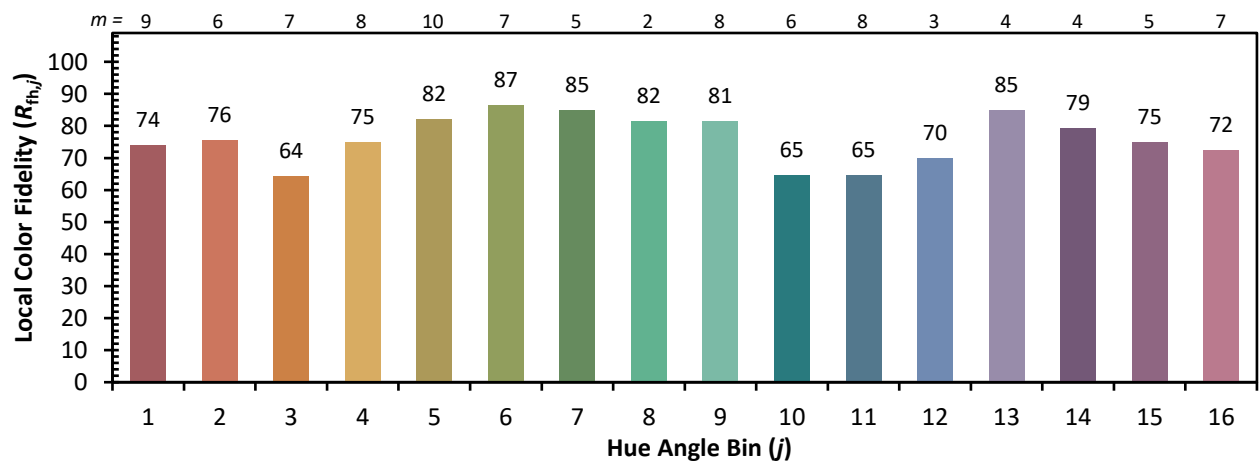
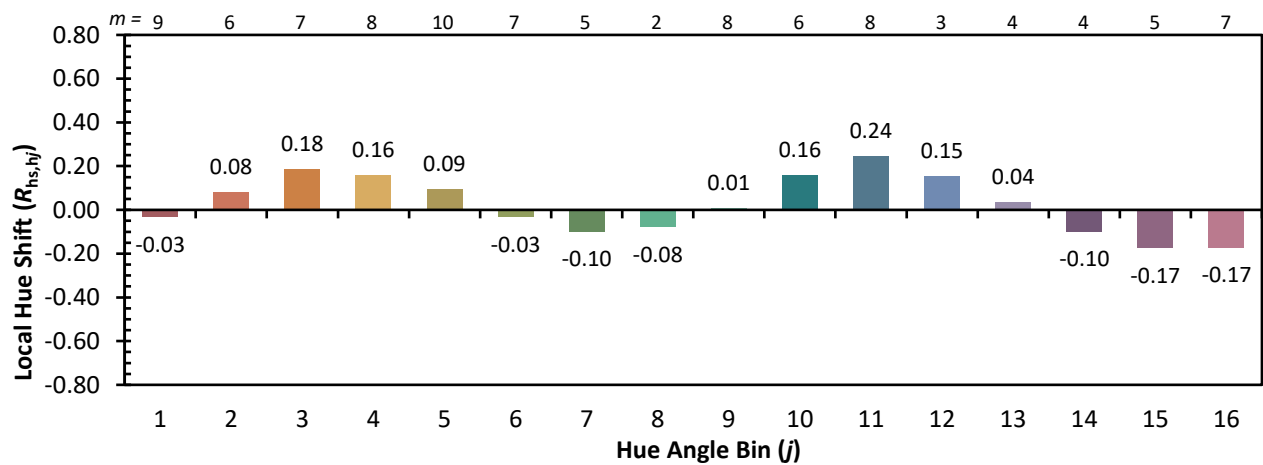
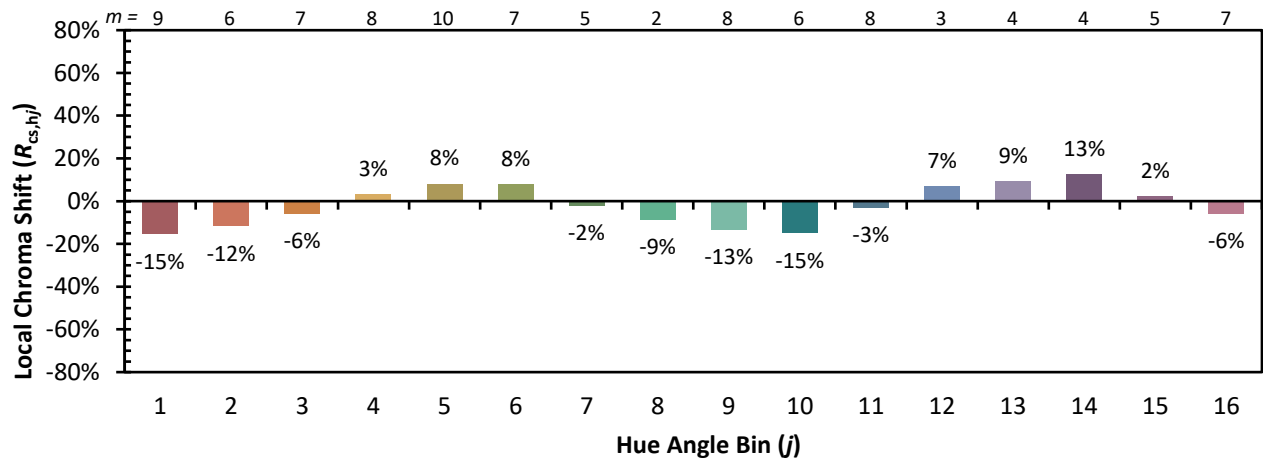


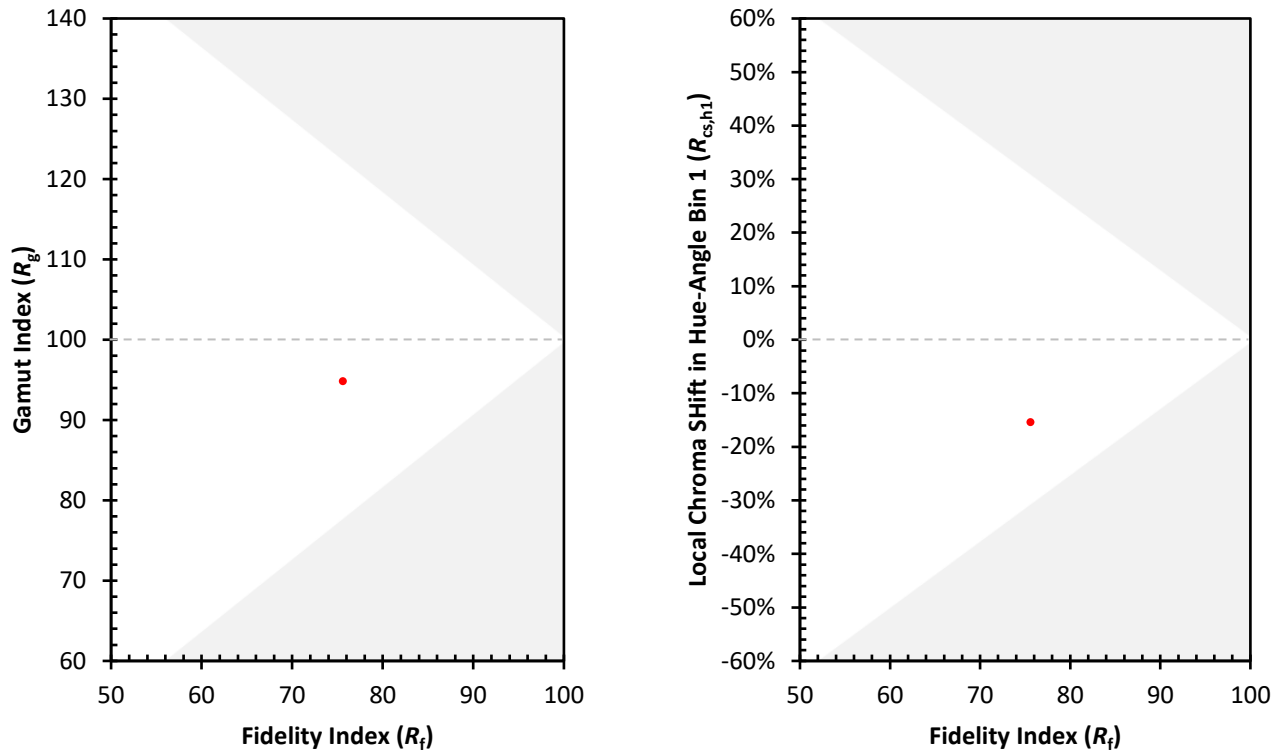
Individual Sample Fidelity Index ($R_{f,i}$)

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)