

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: P436896

Luminaire Tested: **TT-D6-735-U-CQ-HSS**

Issue Date: 12/2/2020

Test Information

Test Method: LM-79-08
Report Number: P436896
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-D6-735-U-CQ-HSS
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
3500K, 70 CRI LEDS AND CONCENTRATED DISTRIBUTION WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9909.2 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U2 - G2

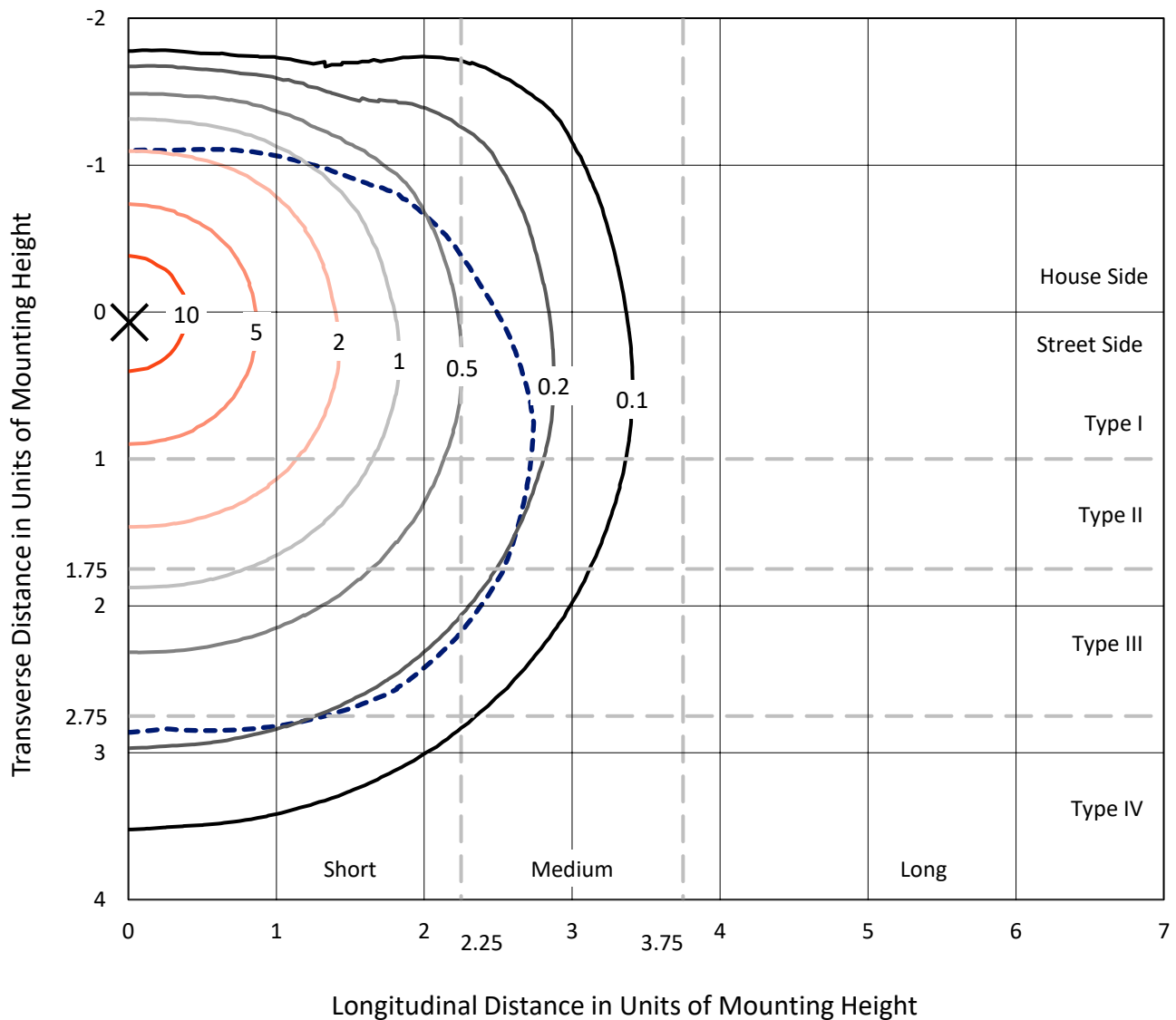
Input Watts (W): 105.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P436896

CATALOG NUMBER: TT-D6-735-U-CQ-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

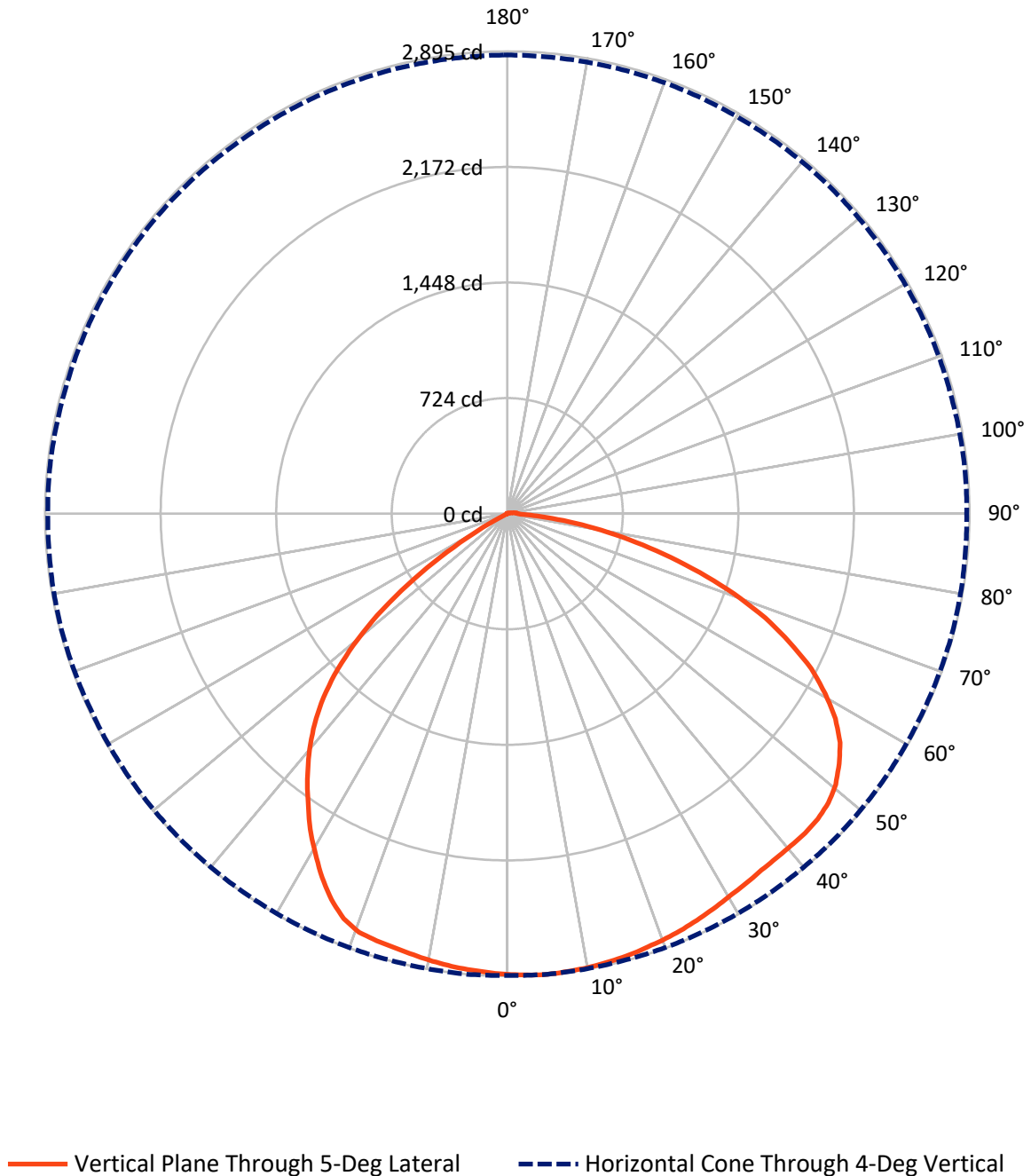


Based on 15 foot mounting height. Maximum calculated value = 12.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P436896

CATALOG NUMBER: TT-D6-735-U-CQ-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P436896

CATALOG NUMBER: TT-D6-735-U-CQ-HSS

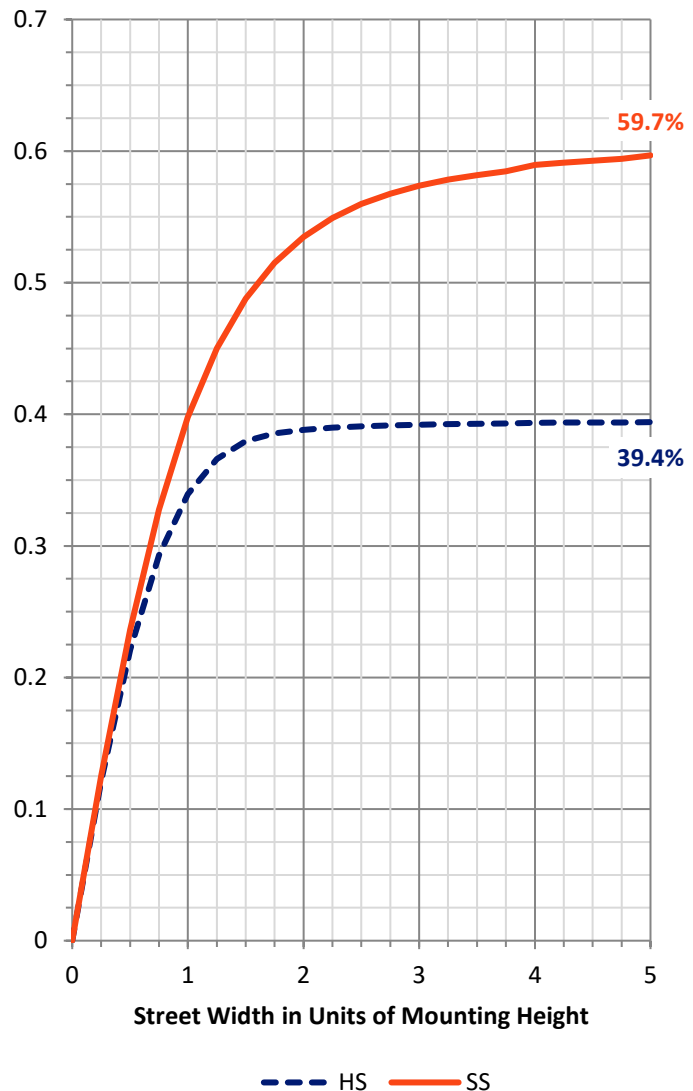
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3926.9	5.2	3932.0
	% Fixture	39.6	0.1	39.7
Street Side	Lumens	5949.5	27.7	5977.1
	% Fixture	60.0	0.3	60.3
Total	Lumens	9876.3	32.8	9909.2
	% Fixture	99.7	0.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.3	2.8
10°-20°	803.2	8.1
20°-30°	1265.6	12.8
30°-40°	1610.7	16.3
40°-50°	1860.4	18.8
50°-60°	1821.6	18.4
60°-70°	1356.7	13.7
70°-80°	734.9	7.4
80°-90°	148.9	1.5
90°-100°	18.9	0.2
100°-110°	7.4	0.1
110°-120°	2.1	0.0
120°-130°	1.5	0.0
130°-140°	1.2	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°	9876.3	99.7
0°-180°	9909.2	100.0



REPORT NUMBER: P436896

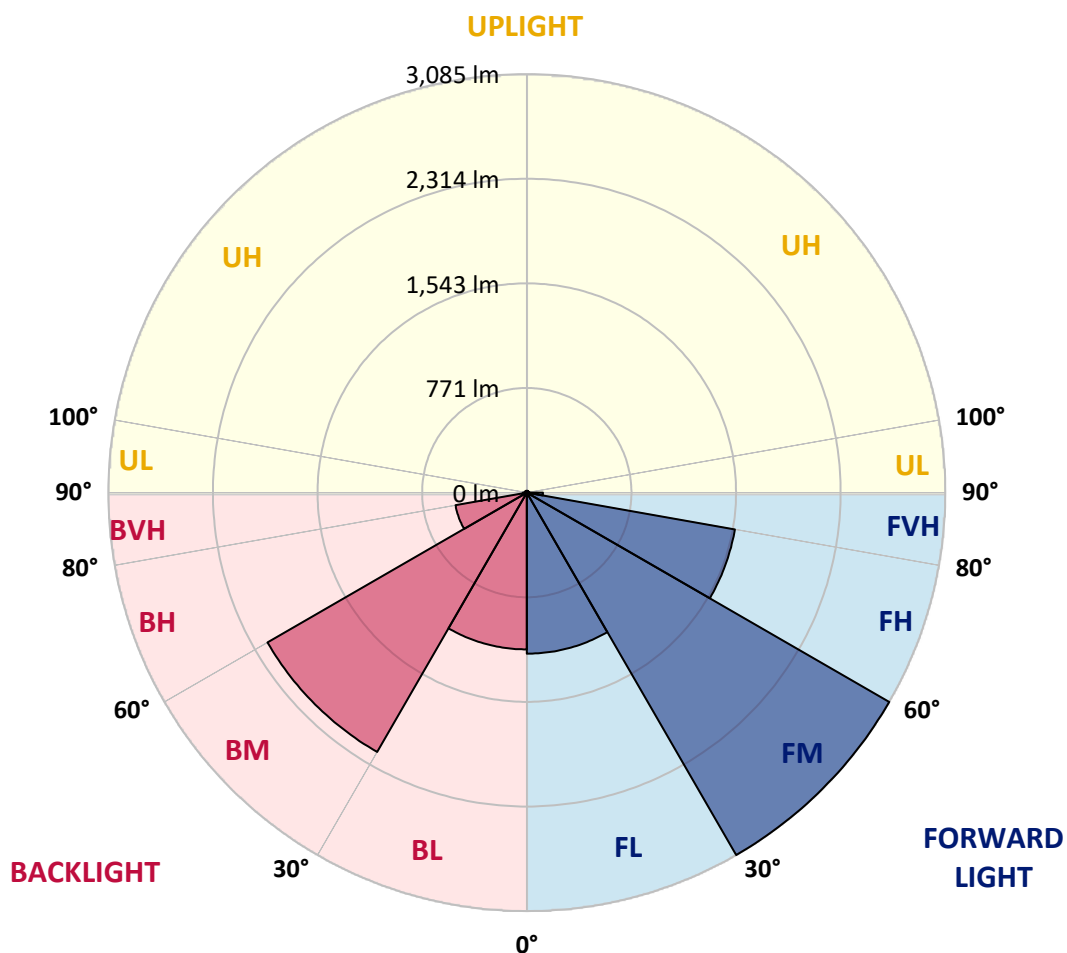
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1187.3	12.0			
FM	(30°-60°)	3085.2	31.1			
FH	(60°-80°)	1558.0	15.7			G1/1800
FVH	(80°-90°)	118.9	1.2			G2/225
BL	(0°-30°)	1155.8	11.7	B3/2500		
BM	(30°-60°)	2207.5	22.3	B2/2500		
BH	(60°-80°)	533.6	5.4	B2/1000		G2/1000
BVH	(80°-90°)	30.0	0.3			G1/100
UL	(90°-100°)	18.9	0.2		U2/50	
UH	(100°-180°)	13.9	0.1		U2/50	

BUG Rating: B3-U2-G2

Type IV Short





REPORT NUMBER: P436896

CATALOG NUMBER: TT-D6-735-U-CQ-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1
2.5°	2889.8	2893.5	2891.7	2891.7	2887.9	2889.8	2887.9	2887.9	2886.1	2884.2	2884.2
4°	2891.7	2895.4	2891.7	2891.7	2889.8	2889.8	2887.9	2884.2	2886.1	2880.5	2878.6
5°	2893.5	2895.4	2893.5	2893.5	2889.8	2887.9	2884.2	2884.2	2882.3	2878.6	2878.6
7.5°	2889.8	2891.7	2891.7	2889.8	2886.1	2882.3	2880.5	2878.6	2876.8	2871.2	2871.2
10°	2882.3	2886.1	2882.3	2882.3	2880.5	2876.8	2871.2	2869.3	2863.7	2860.0	2858.1
12.5°	2874.9	2876.8	2874.9	2874.9	2871.2	2865.6	2863.7	2860.0	2852.5	2846.9	2846.9
15°	2863.7	2867.4	2865.6	2863.7	2861.8	2856.3	2850.7	2845.1	2839.5	2833.9	2833.9
17.5°	2850.7	2852.5	2854.4	2852.5	2848.8	2845.1	2839.5	2832.0	2826.4	2820.9	2819.0
20°	2835.8	2839.5	2839.5	2839.5	2835.8	2832.0	2824.6	2817.1	2813.4	2805.9	2804.1
22.5°	2820.9	2824.6	2822.7	2824.6	2822.7	2817.1	2809.7	2802.2	2794.8	2789.2	2785.5
25°	2805.9	2805.9	2805.9	2805.9	2805.9	2798.5	2791.0	2781.7	2774.3	2765.0	2765.0
27.5°	2787.3	2787.3	2789.2	2789.2	2787.3	2781.7	2772.4	2761.2	2750.1	2740.7	2737.0
30°	2770.5	2768.7	2772.4	2776.1	2774.3	2768.7	2757.5	2744.5	2727.7	2714.7	2703.5
32.5°	2750.1	2755.6	2759.4	2766.8	2768.7	2761.2	2748.2	2731.4	2714.7	2690.4	2669.9
35°	2742.6	2742.6	2751.9	2763.1	2766.8	2763.1	2744.5	2725.8	2701.6	2666.2	2642.0
37.5°	2735.1	2737.0	2751.9	2768.7	2774.3	2774.3	2753.8	2729.6	2696.0	2645.7	2615.9
40°	2731.4	2735.1	2753.8	2778.0	2792.9	2791.0	2766.8	2737.0	2696.0	2630.8	2593.5
42.5°	2727.7	2735.1	2755.6	2789.2	2811.5	2809.7	2783.6	2744.5	2692.3	2612.2	2569.3
45°	2722.1	2727.7	2755.6	2798.5	2828.3	2833.9	2804.1	2753.8	2692.3	2595.4	2539.5
47.5°	2705.3	2707.2	2744.5	2794.8	2839.5	2846.9	2817.1	2757.5	2684.8	2567.5	2502.3
50°	2660.6	2666.2	2709.1	2776.1	2828.3	2839.5	2813.4	2748.2	2666.2	2520.9	2442.6
52.5°	2602.9	2602.9	2655.0	2729.6	2792.9	2811.5	2787.3	2714.7	2619.6	2451.9	2362.5
55°	2517.2	2530.2	2584.2	2662.5	2731.4	2757.5	2724.0	2653.2	2543.2	2364.4	2265.6
57.5°	2420.3	2424.0	2479.9	2573.1	2643.9	2660.6	2632.7	2548.8	2442.6	2260.0	2142.7
60°	2280.5	2288.0	2358.8	2440.8	2517.2	2539.5	2504.1	2420.3	2308.5	2125.9	2006.6
62.5°	2125.9	2137.1	2200.4	2284.3	2356.9	2392.3	2349.5	2261.9	2152.0	1965.7	1861.3
65°	1939.6	1943.3	2012.2	2107.3	2179.9	2193.0	2155.7	2070.0	1960.1	1781.2	1688.0
67.5°	1725.3	1743.9	1811.0	1881.8	1945.2	1960.1	1934.0	1835.2	1747.7	1589.3	1498.0
70°	1518.5	1509.2	1565.1	1635.9	1693.6	1706.7	1676.9	1585.6	1503.6	1354.5	1283.7
72.5°	1268.8	1261.4	1321.0	1375.0	1430.9	1423.5	1393.7	1321.0	1250.2	1123.5	1058.3
75°	1017.3	1009.8	1056.4	1103.0	1131.0	1134.7	1114.2	1060.1	983.8	885.0	834.7
77.5°	771.4	778.8	799.3	838.4	864.5	875.7	840.3	786.3	737.8	661.4	624.2
80°	549.6	551.5	559.0	586.9	605.5	605.5	588.8	545.9	491.9	437.8	419.2
82.5°	346.6	354.0	354.0	382.0	382.0	367.0	359.6	331.6	303.7	260.8	234.8
85°	190.0	186.3	197.5	199.4	197.5	186.3	175.1	158.4	139.7	109.9	98.7
87.5°	83.8	82.0	82.0	82.0	80.1	72.7	61.5	48.4	33.5	20.5	14.9
90°	65.2	65.2	63.3	59.6	54.0	48.4	39.1	29.8	18.6	7.5	3.7
92.5°	59.6	59.6	57.8	55.9	50.3	44.7	35.4	26.1	16.8	7.5	3.7
95°	52.2	50.3	50.3	46.6	42.9	37.3	31.7	22.4	14.9	5.6	3.7
97.5°	42.9	41.0	41.0	39.1	35.4	29.8	26.1	18.6	13.0	5.6	3.7
100°	31.7	33.5	31.7	29.8	27.9	24.2	20.5	14.9	9.3	3.7	3.7
102.5°	24.2	24.2	22.4	22.4	20.5	18.6	14.9	11.2	7.5	3.7	1.9
105°	16.8	16.8	16.8	14.9	14.9	13.0	11.2	7.5	5.6	3.7	1.9
107.5°	9.3	9.3	9.3	9.3	9.3	9.3	7.5	5.6	3.7	1.9	1.9



REPORT NUMBER: P436896

CATALOG NUMBER: TT-D6-735-U-CQ-HSS

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	5.6	5.6	5.6	5.6	5.6	5.6	3.7	3.7	1.9	1.9	1.9
112.5°	1.9	1.9	3.7	3.7	3.7	3.7	3.7	1.9	1.9	1.9	1.9
115°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
117.5°	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
120°	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
122.5°	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
125°	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
127.5°	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
130°	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
132.5°	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9
135°	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9
137.5°	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9
140°	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9
142.5°	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9
145°	1.9	1.9	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9
147.5°	1.9	1.9	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9
150°	1.9	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9
152.5°	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9
155°	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9
157.5°	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9
160°	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9
162.5°	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9
165°	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9
167.5°	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9
170°	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9
172.5°	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9
175°	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9
177.5°	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9
180°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9

REPORT NUMBER: P436896

CATALOG NUMBER: TT-D6-735-U-CQ-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1
2.5°	2882.3	2876.8	2880.5	2878.6	2880.5	2876.8	2876.8	2876.8	2878.6	2874.9
4°	2880.5	2876.8	2876.8	2876.8	2876.8	2873.0	2873.0	2873.0	2871.2	2873.0
5°	2876.8	2874.9	2873.0	2871.2	2873.0	2869.3	2867.4	2867.4	2867.4	2869.3
7.5°	2869.3	2863.7	2863.7	2858.1	2860.0	2858.1	2856.3	2858.1	2856.3	2856.3
10°	2856.3	2852.5	2850.7	2846.9	2846.9	2843.2	2841.4	2841.4	2841.4	2839.5
12.5°	2843.2	2839.5	2837.6	2833.9	2832.0	2828.3	2826.4	2828.3	2824.6	2824.6
15°	2828.3	2824.6	2822.7	2822.7	2819.0	2815.3	2813.4	2809.7	2809.7	2809.7
17.5°	2815.3	2811.5	2813.4	2809.7	2807.8	2804.1	2804.1	2796.6	2796.6	2794.8
20°	2802.2	2798.5	2798.5	2796.6	2796.6	2792.9	2787.3	2783.6	2781.7	2781.7
22.5°	2785.5	2779.9	2770.5	2757.5	2750.1	2744.5	2742.6	2737.0	2735.1	2731.4
25°	2759.4	2744.5	2724.0	2701.6	2679.3	2668.1	2664.3	2656.9	2656.9	2656.9
27.5°	2727.7	2699.7	2671.8	2638.3	2604.7	2582.4	2567.5	2560.0	2556.3	2556.3
30°	2686.7	2651.3	2612.2	2569.3	2532.1	2491.1	2465.0	2450.1	2442.6	2444.5
32.5°	2649.4	2604.7	2560.0	2506.0	2455.7	2407.2	2362.5	2340.2	2330.8	2327.1
35°	2612.2	2561.9	2507.8	2450.1	2384.9	2314.1	2254.4	2220.9	2202.3	2204.1
37.5°	2584.2	2524.6	2465.0	2394.2	2319.7	2234.0	2157.6	2103.5	2081.2	2084.9
40°	2554.4	2487.3	2422.1	2340.2	2252.6	2150.1	2051.4	1978.7	1952.6	1947.0
42.5°	2526.5	2448.2	2373.7	2286.1	2176.2	2060.7	1939.6	1853.9	1814.7	1809.1
45°	2491.1	2403.5	2323.4	2222.8	2101.7	1958.2	1816.6	1704.8	1663.8	1647.1
47.5°	2444.5	2347.6	2258.2	2142.7	2010.4	1848.3	1671.3	1533.4	1481.2	1468.2
50°	2375.6	2263.8	2172.5	2042.0	1881.8	1702.9	1505.4	1335.9	1267.0	1257.6
52.5°	2284.3	2170.6	2068.1	1919.1	1723.4	1512.9	1289.3	1114.2	1034.1	1028.5
55°	2174.3	2051.4	1939.6	1771.9	1542.7	1298.6	1065.7	844.0	765.8	756.5
57.5°	2045.8	1919.1	1798.0	1591.2	1326.6	1054.6	784.4	572.0	497.5	478.8
60°	1904.2	1773.7	1637.7	1386.2	1035.9	747.1	475.1	303.7	247.8	229.2
62.5°	1766.3	1624.7	1481.2	1142.1	709.9	426.7	216.1	87.6	55.9	54.0
65°	1604.2	1470.0	1322.9	920.4	449.0	191.9	63.3	1.9	0.0	0.0
67.5°	1416.0	1302.4	1171.9	823.5	396.9	167.7	54.0	1.9	0.0	0.0
70°	1214.8	1125.4	1009.8	708.0	341.0	141.6	46.6	0.0	0.0	0.0
72.5°	1002.4	926.0	840.3	588.8	283.2	117.4	37.3	0.0	0.0	0.0
75°	786.3	737.8	661.4	465.8	219.9	89.4	27.9	0.0	0.0	0.0
77.5°	583.2	544.0	488.2	342.8	165.8	65.2	20.5	0.0	0.0	0.0
80°	393.1	363.3	331.6	232.9	111.8	42.9	13.0	0.0	0.0	0.0
82.5°	229.2	206.8	186.3	132.3	61.5	24.2	5.6	0.0	0.0	0.0
85°	93.2	85.7	82.0	55.9	24.2	7.5	1.9	0.0	0.0	0.0
87.5°	11.2	9.3	9.3	5.6	1.9	0.0	0.0	0.0	0.0	0.0
90°	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
95°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0
97.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.0
100°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
102.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
105°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
107.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9



REPORT NUMBER: P436896

CATALOG NUMBER: TT-D6-735-U-CQ-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
112.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
115°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
117.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
120°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
122.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
125°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
127.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
130°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
132.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
135°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
137.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0
140°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0
142.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0
145°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0
147.5°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	1.9
150°	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
152.5°	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
155°	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
157.5°	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
160°	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
162.5°	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
165°	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
167.5°	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
170°	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
172.5°	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
175°	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
177.5°	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
180°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9

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

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2407-176-4

Test Date: 09/24/2024

Luminaire Tested: MEM2-HTN-VA-30-735-U-WQ

Data in this report applies to families of products including MEM2-HTN-VA-30-735-U-WQ

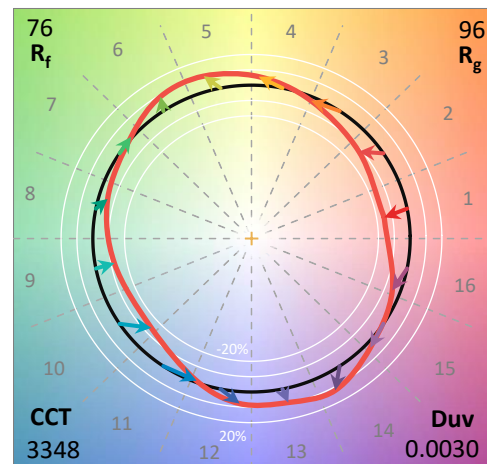
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-176-4
 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-30-735-U-WQ**
 Description: EPIC MODERN VISUAL COMFORT 30W WAVESTREAM WIDE

Spectral Parameters

CCT (K): 3348
 CIE u' : 0.2384
 CIE v' : 0.5184
 Duv: 0.0030
 CIE x: 0.4177
 CIE y: 0.4036
 CIE z: 0.1787
 Peak Wavelength (nm): 593
 Dominant Wavelength (nm): 580
 Purity: 46.5223
 R_f: 75.8
 R_g: 95.8

CRI (Ra): 73.4
 R1: 70.8
 R2: 79.9
 R3: 87.6
 R4: 72.6
 R5: 69.3
 R6: 71.3
 R7: 82.1
 R8: 53.3
 R9: -19.2
 R10: 52.5
 R11: 68.0
 R12: 42.6
 R13: 72.0
 R14: 92.6
 R15: 63.8



Test Conditions

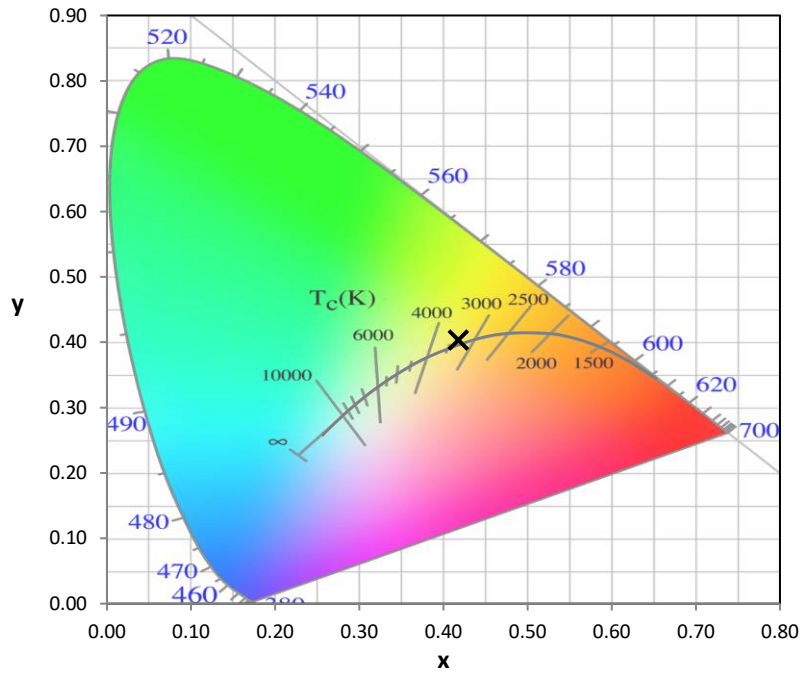
Stabilization Time: 30M
 Operation Time: 1H 30M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-176-4

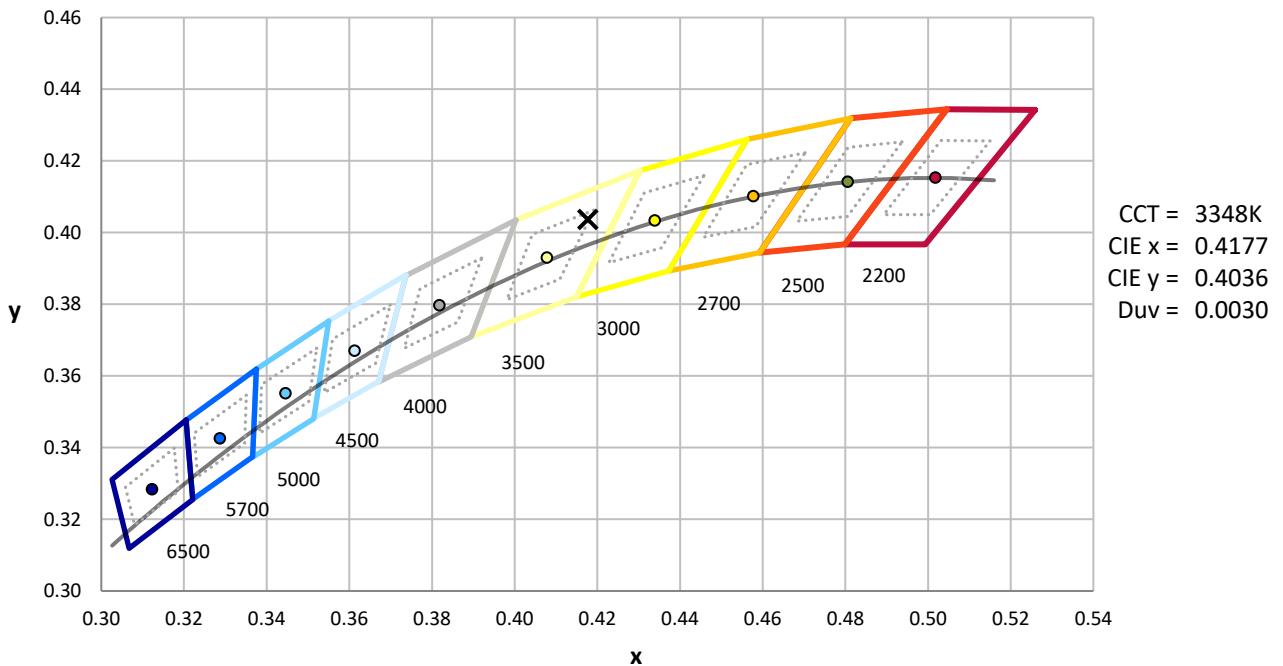
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-176-4

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: SP1-2407-176-4

Photopic Flux vs. Wavelength

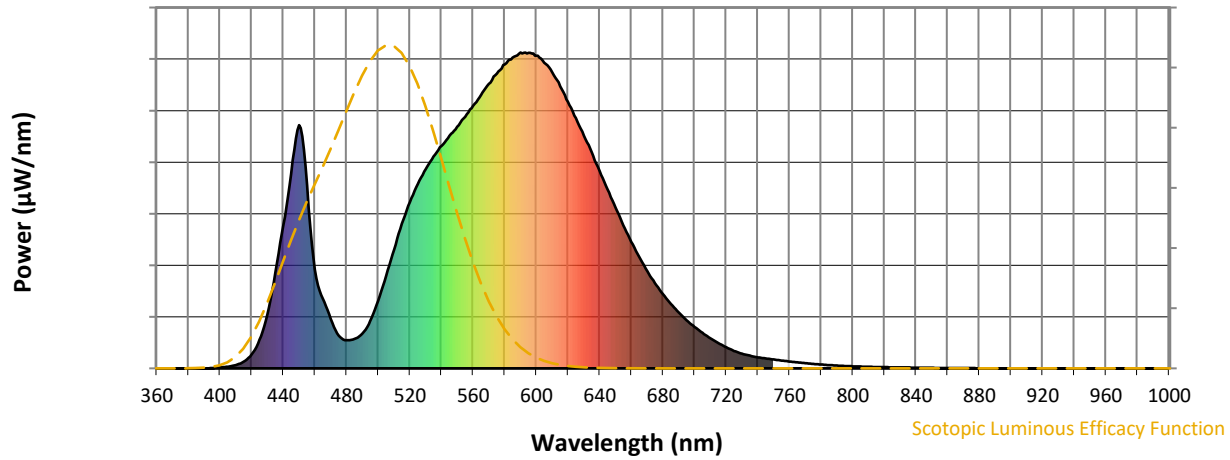


Photopic Lumens: NR

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	110	NR	620	844	NR	750	28	NR	880	0	NR
365	0	NR	495	150	NR	625	792	NR	755	25	NR	885	0	NR
370	0	NR	500	214	NR	630	737	NR	760	22	NR	890	0	NR
375	0	NR	505	293	NR	635	683	NR	765	19	NR	895	0	NR
380	0	NR	510	376	NR	640	625	NR	770	16	NR	900	0	NR
385	0	NR	515	458	NR	645	566	NR	775	14	NR	905	0	NR
390	0	NR	520	526	NR	650	509	NR	780	12	NR	910	0	NR
395	1	NR	525	584	NR	655	453	NR	785	10	NR	915	0	NR
400	3	NR	530	631	NR	660	401	NR	790	9	NR	920	0	NR
405	5	NR	535	671	NR	665	353	NR	795	8	NR	925	0	NR
410	10	NR	540	704	NR	670	308	NR	800	7	NR	930	0	NR
415	21	NR	545	737	NR	675	269	NR	805	6	NR	935	0	NR
420	44	NR	550	766	NR	680	235	NR	810	5	NR	940	0	NR
425	90	NR	555	797	NR	685	204	NR	815	4	NR	945	0	NR
430	171	NR	560	832	NR	690	177	NR	820	4	NR	950	0	NR
435	305	NR	565	866	NR	695	152	NR	825	3	NR	955	0	NR
440	455	NR	570	901	NR	700	131	NR	830	3	NR	960	0	NR
445	615	NR	575	933	NR	705	112	NR	835	3	NR	965	0	NR
450	771	NR	580	963	NR	710	96	NR	840	2	NR	970	0	NR
455	579	NR	585	984	NR	715	80	NR	845	2	NR	975	0	NR
460	313	NR	590	1000	NR	720	67	NR	850	2	NR	980	0	NR
465	221	NR	595	999	NR	725	55	NR	855	1	NR	985	0	NR
470	156	NR	600	990	NR	730	46	NR	860	1	NR	990	0	NR
475	103	NR	605	968	NR	735	40	NR	865	1	NR	995	0	NR
480	89	NR	610	937	NR	740	35	NR	870	1	NR	1000	0	NR
485	93	NR	615	893	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-176-4

Scotopic Flux vs. Wavelength



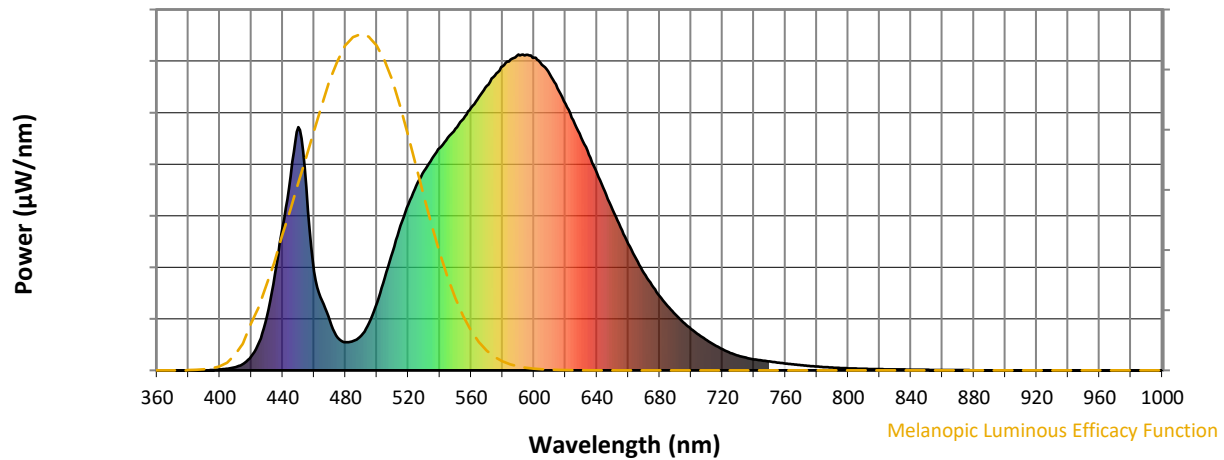
Scotopic Lumens: NR

S/P: 1.31

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	110	NR	620	844	NR	750	28	NR	880	0	NR
365	0	NR	495	150	NR	625	792	NR	755	25	NR	885	0	NR
370	0	NR	500	214	NR	630	737	NR	760	22	NR	890	0	NR
375	0	NR	505	293	NR	635	683	NR	765	19	NR	895	0	NR
380	0	NR	510	376	NR	640	625	NR	770	16	NR	900	0	NR
385	0	NR	515	458	NR	645	566	NR	775	14	NR	905	0	NR
390	0	NR	520	526	NR	650	509	NR	780	12	NR	910	0	NR
395	1	NR	525	584	NR	655	453	NR	785	10	NR	915	0	NR
400	3	NR	530	631	NR	660	401	NR	790	9	NR	920	0	NR
405	5	NR	535	671	NR	665	353	NR	795	8	NR	925	0	NR
410	10	NR	540	704	NR	670	308	NR	800	7	NR	930	0	NR
415	21	NR	545	737	NR	675	269	NR	805	6	NR	935	0	NR
420	44	NR	550	766	NR	680	235	NR	810	5	NR	940	0	NR
425	90	NR	555	797	NR	685	204	NR	815	4	NR	945	0	NR
430	171	NR	560	832	NR	690	177	NR	820	4	NR	950	0	NR
435	305	NR	565	866	NR	695	152	NR	825	3	NR	955	0	NR
440	455	NR	570	901	NR	700	131	NR	830	3	NR	960	0	NR
445	615	NR	575	933	NR	705	112	NR	835	3	NR	965	0	NR
450	771	NR	580	963	NR	710	96	NR	840	2	NR	970	0	NR
455	579	NR	585	984	NR	715	80	NR	845	2	NR	975	0	NR
460	313	NR	590	1000	NR	720	67	NR	850	2	NR	980	0	NR
465	221	NR	595	999	NR	725	55	NR	855	1	NR	985	0	NR
470	156	NR	600	990	NR	730	46	NR	860	1	NR	990	0	NR
475	103	NR	605	968	NR	735	40	NR	865	1	NR	995	0	NR
480	89	NR	610	937	NR	740	35	NR	870	1	NR	1000	0	NR
485	93	NR	615	893	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-176-4

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.4

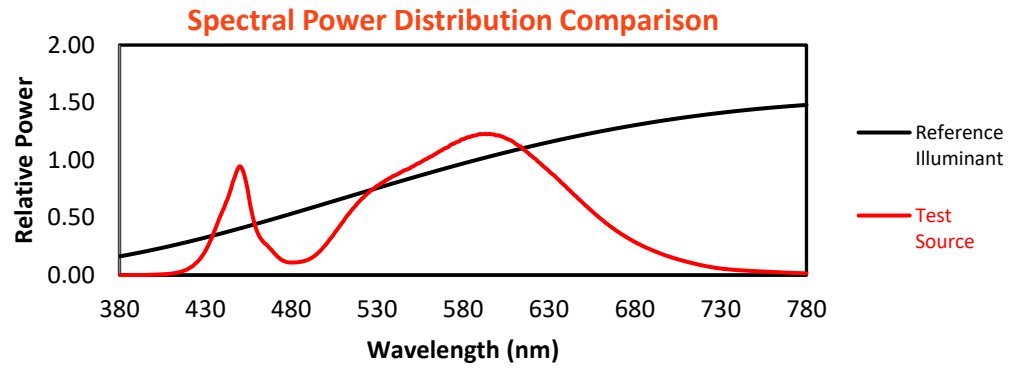
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	110	NR	620	844	NR	750	28	NR	880	0	NR
365	0	NR	495	150	NR	625	792	NR	755	25	NR	885	0	NR
370	0	NR	500	214	NR	630	737	NR	760	22	NR	890	0	NR
375	0	NR	505	293	NR	635	683	NR	765	19	NR	895	0	NR
380	0	NR	510	376	NR	640	625	NR	770	16	NR	900	0	NR
385	0	NR	515	458	NR	645	566	NR	775	14	NR	905	0	NR
390	0	NR	520	526	NR	650	509	NR	780	12	NR	910	0	NR
395	1	NR	525	584	NR	655	453	NR	785	10	NR	915	0	NR
400	3	NR	530	631	NR	660	401	NR	790	9	NR	920	0	NR
405	5	NR	535	671	NR	665	353	NR	795	8	NR	925	0	NR
410	10	NR	540	704	NR	670	308	NR	800	7	NR	930	0	NR
415	21	NR	545	737	NR	675	269	NR	805	6	NR	935	0	NR
420	44	NR	550	766	NR	680	235	NR	810	5	NR	940	0	NR
425	90	NR	555	797	NR	685	204	NR	815	4	NR	945	0	NR
430	171	NR	560	832	NR	690	177	NR	820	4	NR	950	0	NR
435	305	NR	565	866	NR	695	152	NR	825	3	NR	955	0	NR
440	455	NR	570	901	NR	700	131	NR	830	3	NR	960	0	NR
445	615	NR	575	933	NR	705	112	NR	835	3	NR	965	0	NR
450	771	NR	580	963	NR	710	96	NR	840	2	NR	970	0	NR
455	579	NR	585	984	NR	715	80	NR	845	2	NR	975	0	NR
460	313	NR	590	1000	NR	720	67	NR	850	2	NR	980	0	NR
465	221	NR	595	999	NR	725	55	NR	855	1	NR	985	0	NR
470	156	NR	600	990	NR	730	46	NR	860	1	NR	990	0	NR
475	103	NR	605	968	NR	735	40	NR	865	1	NR	995	0	NR
480	89	NR	610	937	NR	740	35	NR	870	1	NR	1000	0	NR
485	93	NR	615	893	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-176-4

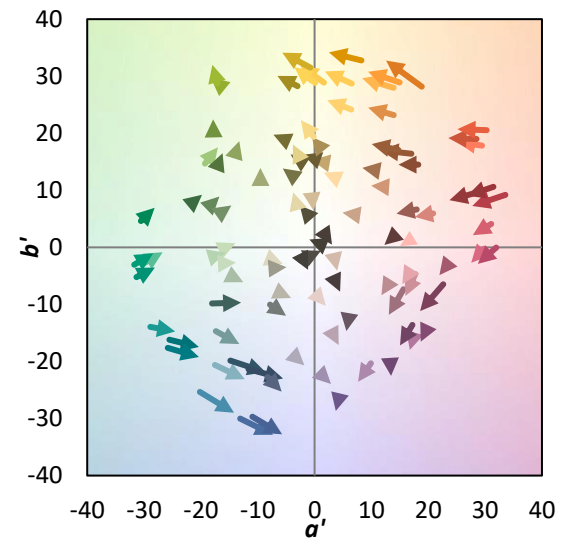
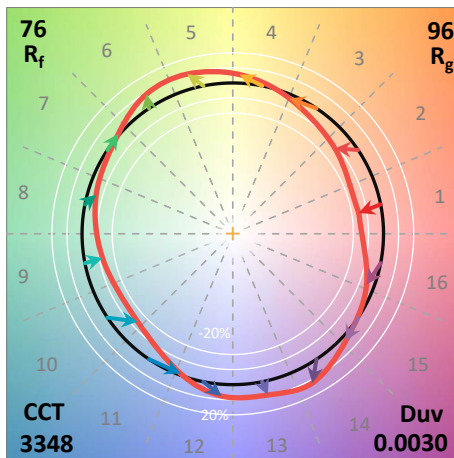
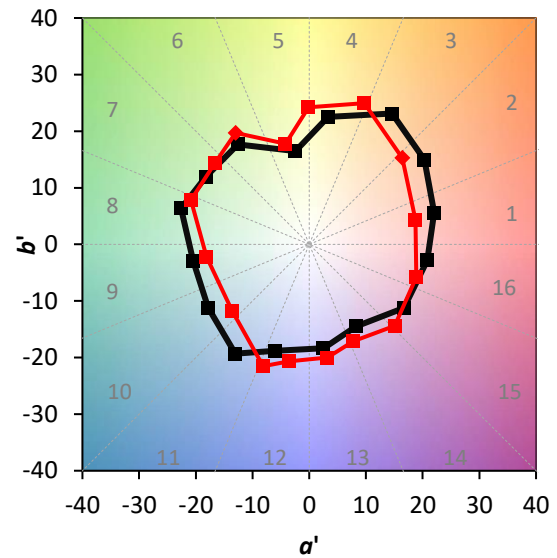
TM-30-18

Summary

$R_f = 75.8$
 $R_g = 95.8$
 $CIE R_a = 73.4$
 $R_g = -19.2$

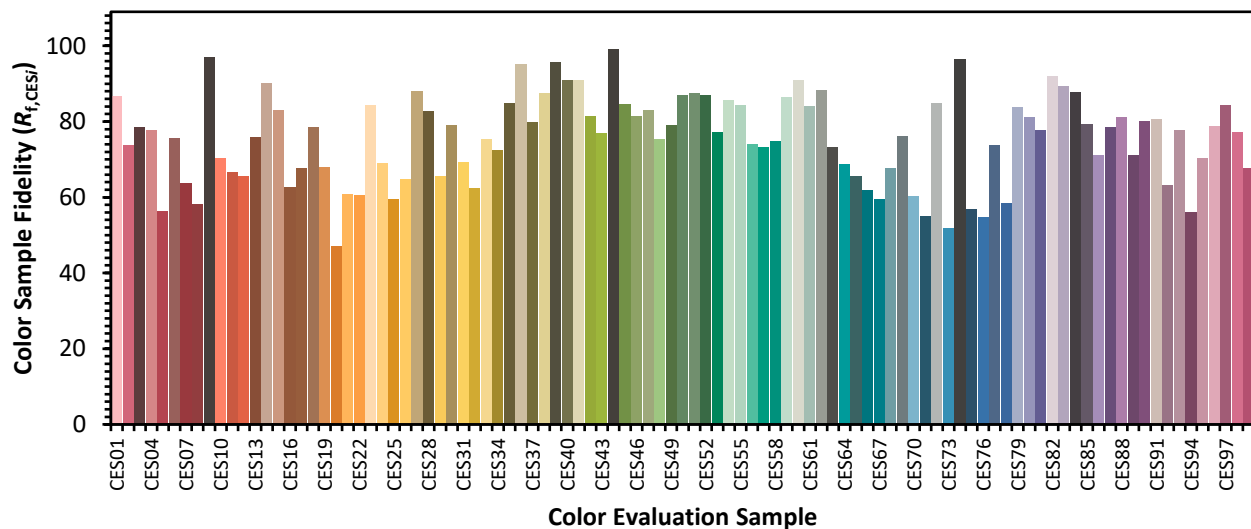


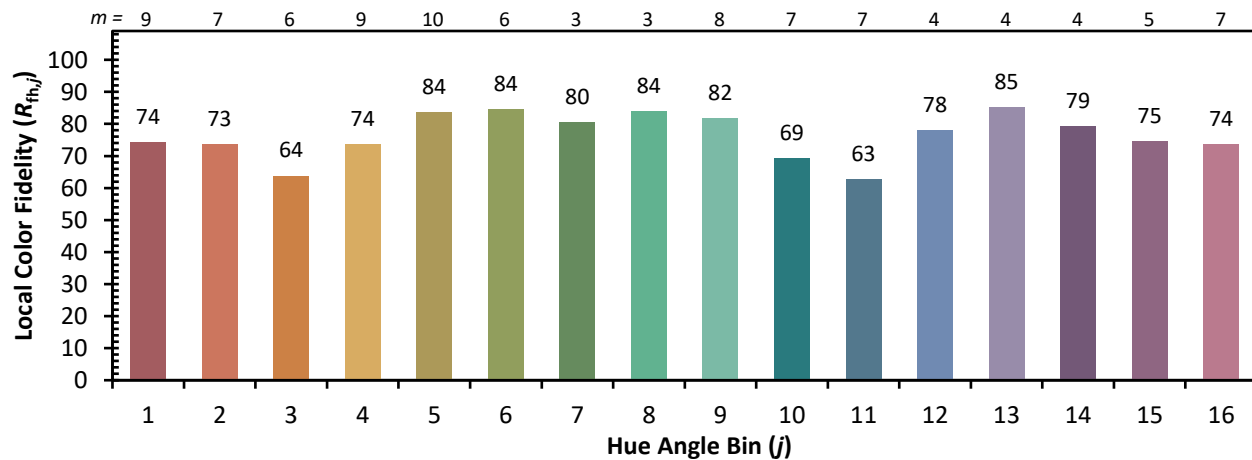
Color Vector Graphics



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

CES01 = 86	CES26 = 65	CES51 = 88	CES76 = 55
CES02 = 62	CES27 = 88	CES52 = 87	CES77 = 74
CES03 = 31	CES28 = 83	CES53 = 77	CES78 = 58
CES04 = 70	CES29 = 66	CES54 = 86	CES79 = 84
CES05 = 48	CES30 = 79	CES55 = 84	CES80 = 81
CES06 = 51	CES31 = 69	CES56 = 74	CES81 = 78
CES07 = 41	CES32 = 62	CES57 = 73	CES82 = 92
CES08 = 40	CES33 = 75	CES58 = 75	CES83 = 89
CES09 = 29	CES34 = 73	CES59 = 87	CES84 = 88
CES10 = 75	CES35 = 85	CES60 = 91	CES85 = 79
CES11 = 58	CES36 = 95	CES61 = 84	CES86 = 71
CES12 = 64	CES37 = 80	CES62 = 88	CES87 = 79
CES13 = 43	CES38 = 88	CES63 = 73	CES88 = 81
CES14 = 74	CES39 = 96	CES64 = 69	CES89 = 71
CES15 = 71	CES40 = 91	CES65 = 66	CES90 = 80
CES16 = 47	CES41 = 91	CES66 = 62	CES91 = 81
CES17 = 50	CES42 = 81	CES67 = 60	CES92 = 63
CES18 = 56	CES43 = 77	CES68 = 68	CES93 = 78
CES19 = 72	CES44 = 99	CES69 = 76	CES94 = 56
CES20 = 65	CES45 = 85	CES70 = 60	CES95 = 70
CES21 = 87	CES46 = 82	CES71 = 55	CES96 = 79
CES22 = 79	CES47 = 83	CES72 = 85	CES97 = 84
CES23 = 92	CES48 = 75	CES73 = 52	CES98 = 77
CES24 = 91	CES49 = 79	CES74 = 96	CES99 = 68
CES25 = 72	CES50 = 87	CES75 = 57	



Color Rendition by Hue-Angle Bin


Measure Comparisons


(END OF REPORT)