

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: LUMARK

Report Number: P1449908

Luminaire Tested: **TWC60\_T3\_60W\_3000K**

Issue Date: 5/19/2026

**Test Information**

Test Method: LM-79-08  
Report Number: P1449908  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( )  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: TWC60\_T3\_60W\_3000K  
Description: Tapered Wall Cutoff Wall Mount Luminaire at, T3 distribution, 60W  
3000K settings  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9285 lumens  
Efficiency: N/A  
Efficacy: 161.5 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 0.42' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2

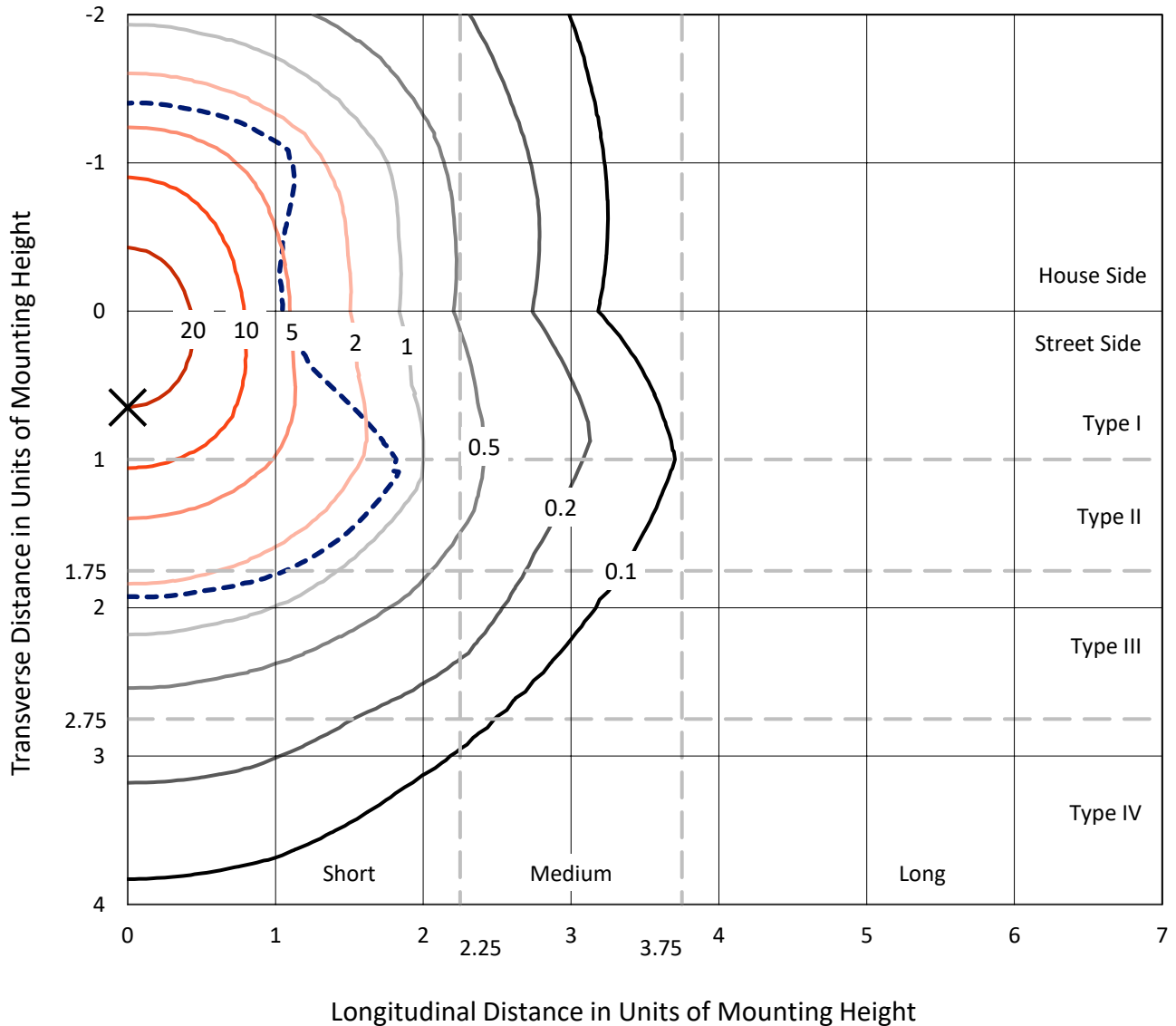
Input Watts (W): 57.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

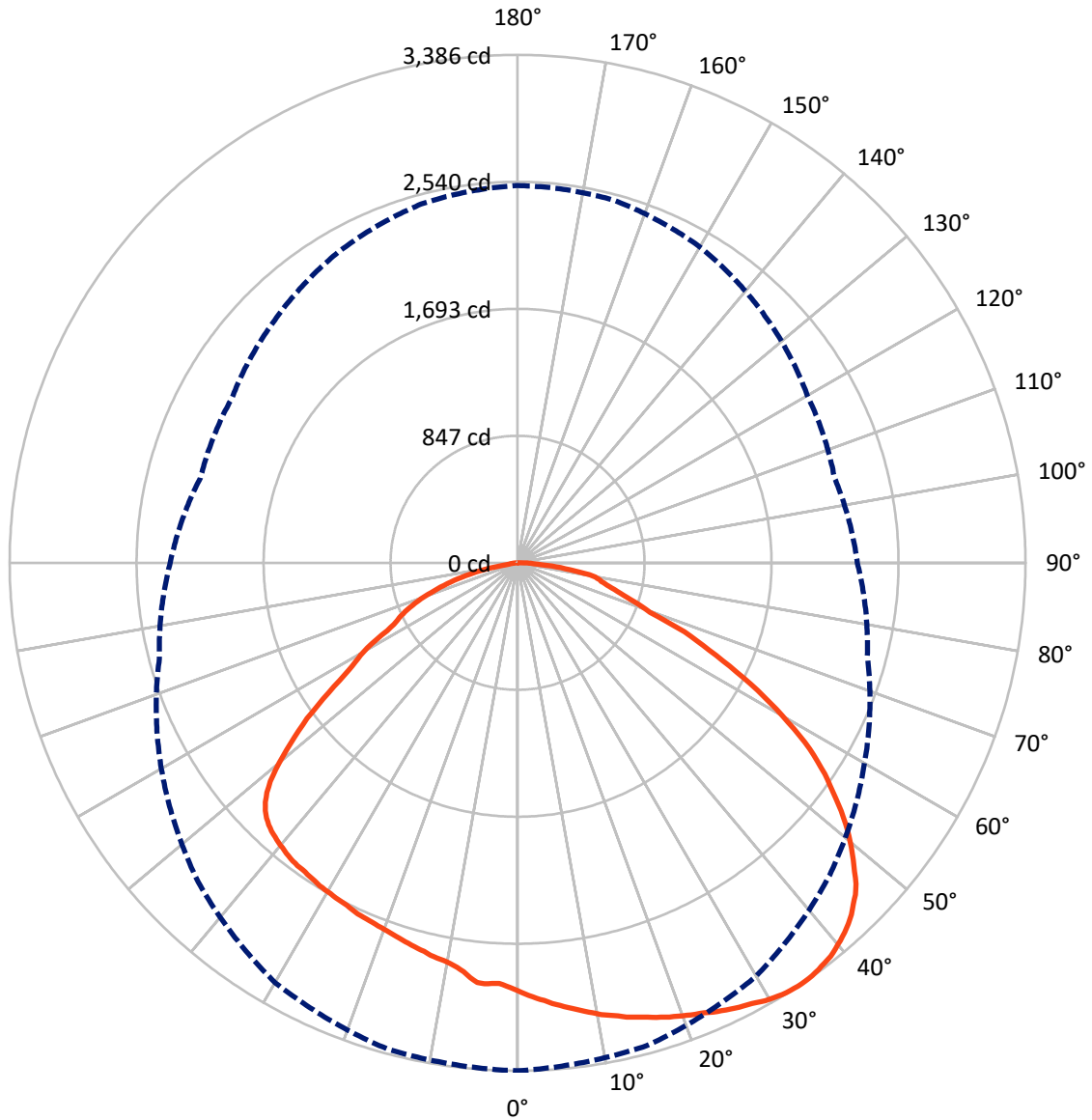
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 29.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 33-Deg Vertical

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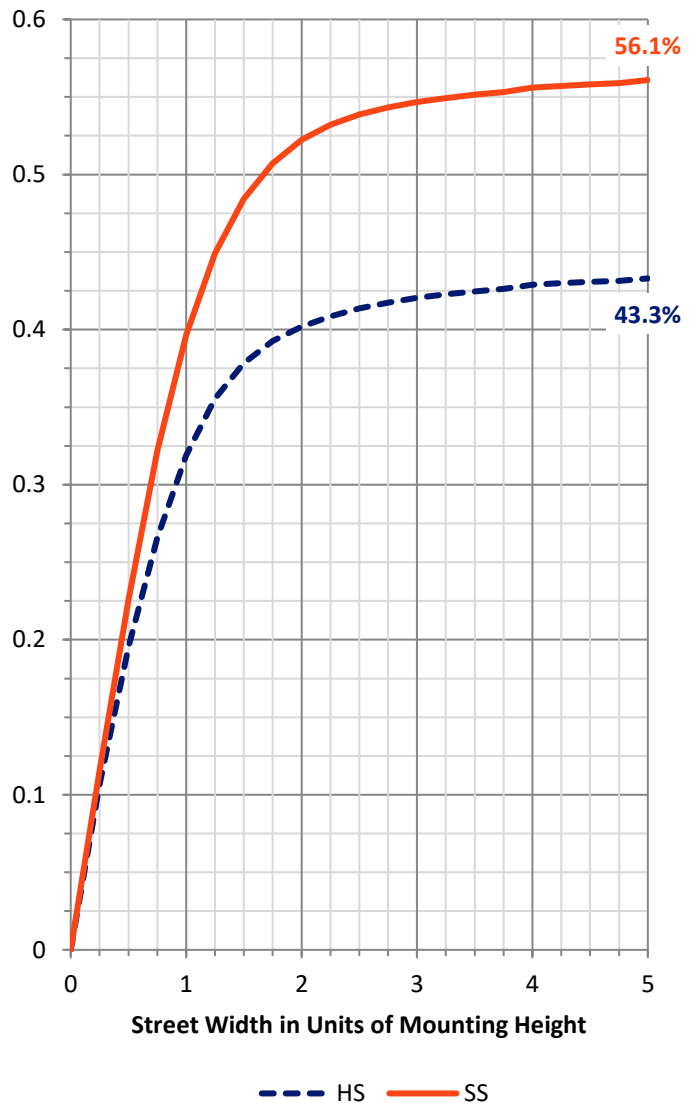
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4044.0	0.0	4044.0
	% Fixture	43.6	0.0	43.6
<b>Street Side</b>	Lumens	5241.1	0.0	5241.1
	% Fixture	56.4	0.0	56.4
<b>Total</b>	Lumens	9285.0	0.0	9285.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	273.3	2.9
10°-20°	799.3	8.6
20°-30°	1263.3	13.6
30°-40°	1623.2	17.5
40°-50°	1812.5	19.5
50°-60°	1678.6	18.1
60°-70°	1159.7	12.5
70°-80°	549.4	5.9
80°-90°	125.7	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	9285.0	100.0
0°-180°	9285.0	100.0

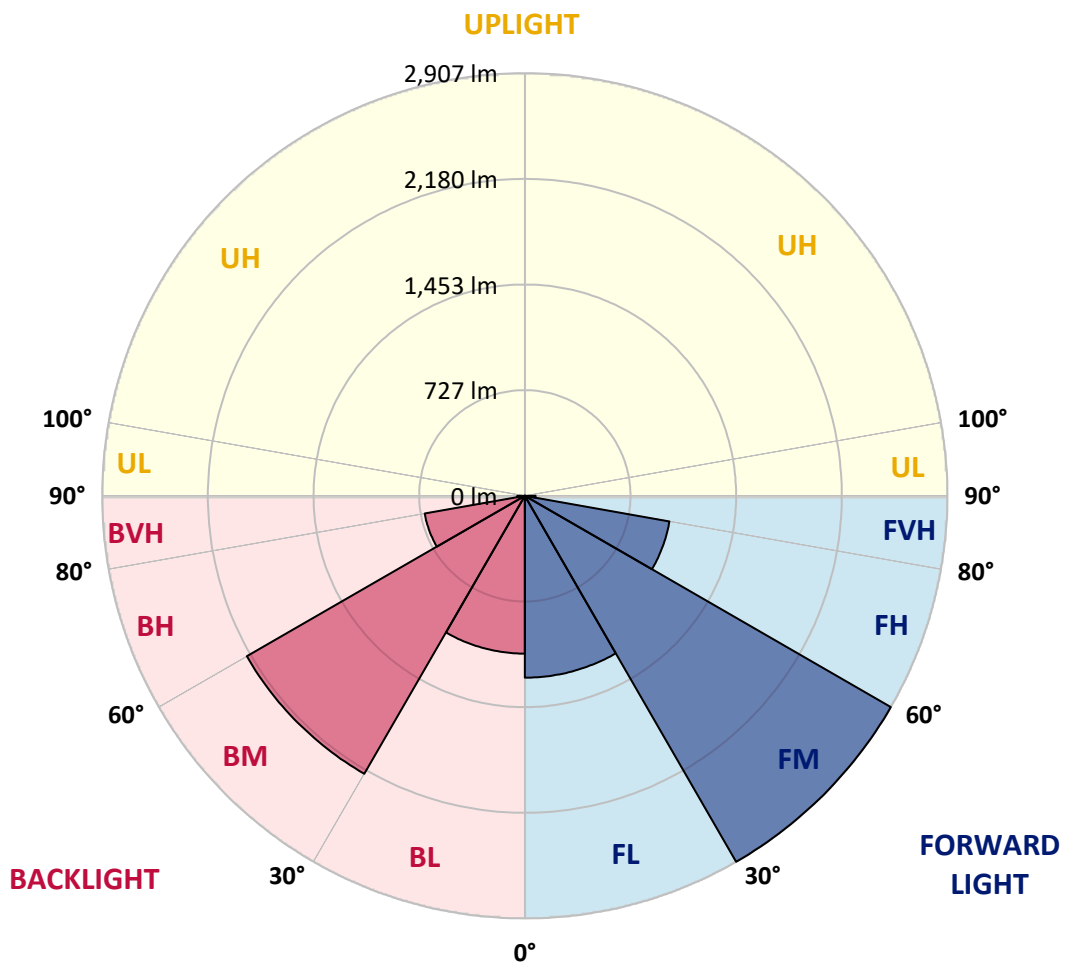


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1250.7	13.5			
FM (30°-60°)	2906.6	31.3			
FH (60°-80°)	1009.9	10.9			G1/1800
FVH (80°-90°)	73.9	0.8			G1/100
BL (0°-30°)	1085.3	11.7	B3/2500		
BM (30°-60°)	2207.8	23.8	B2/2500		
BH (60°-80°)	699.2	7.5	B2/1000		G2/1000
BVH (80°-90°)	51.7	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	2863.3	2863.3	2863.3	2863.3	2863.3	2863.3	2863.3	2863.3	2863.3	2863.3	2863.3
1°	2885.1	2885.4	2880.8	2877.4	2875.5	2869.6	2859.1	2855.4	2851.1	2849.5	2841.6
2°	2905.9	2904.9	2899.9	2889.5	2883.9	2872.6	2858.7	2846.7	2836.4	2830.3	2827.5
3°	2923.6	2926.5	2915.3	2905.7	2890.4	2876.8	2854.8	2838.1	2826.3	2814.3	2810.8
4°	2946.9	2946.0	2932.8	2914.3	2899.7	2872.2	2849.3	2826.1	2813.5	2801.7	2806.8
5°	2964.8	2960.9	2949.4	2925.2	2900.4	2872.4	2843.0	2820.3	2803.5	2802.8	2810.7
6°	2984.8	2976.2	2962.2	2938.0	2909.1	2871.7	2831.3	2807.1	2794.5	2809.5	2814.6
7°	3002.3	2994.5	2976.6	2946.6	2910.9	2867.3	2823.5	2793.7	2793.4	2809.8	2800.6
8°	3023.8	3014.4	2988.5	2952.3	2913.6	2866.2	2814.7	2782.7	2792.8	2794.4	2770.7
9°	3042.7	3032.5	3004.3	2963.6	2913.0	2859.9	2803.9	2775.3	2792.7	2773.7	2736.2
10°	3062.7	3049.2	3018.3	2972.8	2914.7	2855.0	2792.2	2766.7	2780.7	2736.8	2715.7
11°	3078.2	3066.2	3031.2	2980.9	2916.4	2850.3	2782.1	2760.2	2762.9	2710.9	2702.1
12°	3095.0	3080.5	3043.0	2984.0	2915.8	2839.4	2768.5	2754.4	2731.2	2690.5	2685.3
13°	3114.8	3098.1	3056.8	2992.4	2914.4	2832.9	2753.2	2744.8	2698.1	2672.5	2672.3
14°	3128.9	3111.9	3062.2	2997.4	2914.4	2825.3	2734.3	2735.8	2673.2	2658.1	2662.9
15°	3143.5	3126.2	3072.1	3000.4	2911.7	2814.1	2718.6	2716.8	2650.4	2640.6	2648.6
16°	3160.3	3136.4	3080.9	3002.9	2904.8	2805.8	2701.5	2700.1	2628.6	2626.3	2635.3
17°	3176.4	3149.6	3087.4	3003.2	2901.8	2790.1	2686.4	2668.8	2609.3	2610.8	2621.2
18°	3193.2	3162.0	3097.0	2998.9	2896.0	2780.2	2668.5	2636.1	2587.1	2593.1	2609.2
19°	3206.9	3176.4	3102.3	3001.2	2890.0	2764.6	2651.9	2604.0	2568.2	2576.6	2595.4
20°	3221.5	3189.4	3111.5	3002.5	2879.3	2749.2	2635.3	2573.6	2547.8	2562.4	2580.9
21°	3234.5	3202.7	3120.0	3001.2	2871.7	2731.5	2621.1	2546.3	2525.1	2542.3	2569.8
22°	3247.5	3211.1	3126.5	3000.8	2857.1	2713.3	2603.9	2520.8	2501.7	2525.6	2556.7
23°	3266.4	3225.3	3129.6	2996.5	2846.9	2697.5	2587.7	2492.8	2480.5	2508.8	2543.2
24°	3281.6	3238.3	3137.0	2994.7	2831.9	2674.8	2571.0	2465.3	2458.3	2489.9	2530.2
25°	3296.3	3249.7	3142.8	2992.0	2819.0	2648.9	2545.4	2437.8	2434.2	2472.2	2519.9
26°	3311.5	3260.9	3149.0	2986.6	2804.4	2625.2	2520.9	2411.2	2407.5	2454.0	2511.4
27°	3321.5	3273.8	3153.4	2981.5	2790.7	2601.2	2494.2	2381.1	2385.5	2436.1	2498.7
28°	3336.3	3285.0	3157.9	2975.0	2771.1	2572.9	2458.6	2349.7	2360.3	2421.5	2487.2
29°	3354.6	3295.6	3161.7	2969.5	2754.2	2543.7	2421.1	2319.9	2337.1	2404.8	2475.4
30°	3365.4	3305.7	3166.1	2961.2	2733.7	2513.1	2384.6	2286.4	2309.7	2383.7	2461.3
31°	3376.3	3317.3	3171.6	2955.2	2715.8	2483.6	2343.1	2253.3	2282.9	2368.4	2452.6
32°	3381.8	3325.6	3174.7	2949.6	2696.8	2448.3	2303.7	2222.0	2257.6	2350.3	2442.2
33°	3386.4	3332.5	3181.5	2942.8	2670.8	2414.1	2265.2	2187.1	2231.1	2330.6	2431.0
34°	3385.2	3333.3	3185.7	2932.2	2650.1	2380.5	2223.9	2149.8	2202.5	2311.5	2418.0
35°	3382.2	3327.9	3183.0	2925.8	2627.8	2344.2	2183.7	2116.7	2176.8	2291.1	2406.3
36°	3373.8	3327.5	3183.3	2918.4	2602.7	2304.7	2144.7	2082.9	2148.3	2275.3	2391.5
37°	3362.6	3314.8	3179.6	2910.8	2580.2	2266.0	2101.5	2046.1	2122.8	2251.9	2378.1
38°	3352.3	3307.1	3171.6	2903.0	2552.5	2229.0	2059.0	2008.7	2091.2	2231.2	2364.4
39°	3333.0	3288.9	3165.2	2895.2	2531.1	2190.2	2015.0	1970.3	2062.8	2206.5	2353.7
40°	3312.8	3267.7	3154.2	2884.2	2506.9	2149.9	1971.8	1933.4	2036.7	2185.1	2342.6
41°	3291.6	3248.8	3140.9	2873.6	2479.0	2112.5	1929.6	1900.1	2004.5	2167.6	2329.8
42°	3264.7	3229.2	3118.8	2862.6	2456.8	2069.3	1887.4	1866.8	1973.7	2150.0	2312.0
43°	3234.0	3199.3	3097.2	2849.3	2435.6	2027.9	1845.1	1832.3	1941.7	2130.4	2298.6
44°	3193.0	3165.2	3072.1	2837.6	2409.4	1986.6	1799.3	1794.1	1913.6	2104.3	2285.4



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**CANDELA DISTRIBUTION (continued):**

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	3157.4	3130.7	3047.5	2824.2	2385.5	1946.8	1751.8	1754.6	1885.5	2080.2	2270.4
46°	3110.8	3087.6	3017.3	2808.0	2363.6	1908.0	1704.3	1715.8	1857.4	2059.6	2253.7
47°	3048.1	3041.3	2981.7	2789.8	2340.1	1865.2	1654.4	1675.6	1827.9	2041.0	2229.3
48°	2989.0	2987.5	2943.4	2766.2	2318.5	1820.8	1605.7	1634.1	1792.6	2017.7	2202.1
49°	2926.1	2923.0	2901.4	2739.2	2297.3	1776.4	1557.3	1591.1	1759.8	1992.3	2175.4
50°	2863.6	2863.7	2850.8	2710.6	2275.6	1729.7	1507.6	1545.0	1730.4	1966.0	2134.6
51°	2795.3	2797.1	2794.3	2682.0	2255.7	1682.7	1458.3	1498.9	1699.9	1939.3	2084.5
52°	2719.5	2728.5	2733.7	2647.8	2231.6	1634.3	1406.3	1456.0	1667.3	1912.5	2021.9
53°	2637.8	2649.6	2672.5	2612.5	2209.5	1586.2	1357.1	1412.9	1632.3	1885.7	1940.9
54°	2559.6	2569.5	2598.6	2567.1	2187.9	1537.5	1304.9	1368.9	1593.7	1858.8	1860.0
55°	2485.9	2491.9	2521.8	2513.2	2155.6	1489.5	1254.2	1324.1	1556.2	1818.1	1779.0
56°	2398.2	2413.2	2443.4	2456.8	2126.4	1441.2	1202.0	1278.8	1519.1	1762.0	1689.5
57°	2308.9	2328.9	2357.7	2396.8	2095.1	1393.9	1147.3	1234.2	1481.3	1694.8	1593.3
58°	2205.5	2237.6	2278.1	2328.6	2061.3	1345.2	1089.9	1187.9	1441.8	1614.3	1487.7
59°	2094.1	2136.1	2189.5	2255.0	2024.8	1295.6	1037.9	1140.5	1399.6	1530.8	1390.4
60°	1981.8	2022.9	2103.5	2168.8	1981.0	1246.4	981.8	1089.8	1355.4	1445.3	1296.1
61°	1869.9	1914.5	2005.4	2077.2	1930.8	1201.0	929.2	1037.9	1311.5	1352.5	1215.1
62°	1752.7	1797.2	1894.8	1977.7	1879.0	1154.6	880.0	989.2	1260.7	1262.1	1162.0
63°	1630.0	1677.0	1786.7	1870.4	1823.6	1109.6	828.8	940.1	1202.1	1171.2	1107.7
64°	1517.0	1551.4	1683.6	1763.1	1762.3	1067.5	779.3	889.4	1134.3	1084.4	1030.3
65°	1403.2	1429.5	1575.5	1647.1	1688.7	1027.3	732.6	841.3	1059.5	1024.4	942.1
66°	1307.2	1314.2	1460.7	1525.8	1604.8	990.8	684.7	791.0	981.2	980.5	875.1
67°	1204.6	1215.1	1340.6	1405.5	1511.3	957.2	636.1	742.6	897.2	924.3	831.8
68°	1073.2	1100.5	1214.9	1304.7	1401.5	926.1	588.1	695.2	812.6	854.7	798.1
69°	942.7	967.4	1090.1	1232.0	1285.2	901.5	539.7	646.9	733.0	801.6	763.3
70°	881.8	899.4	944.1	1157.2	1151.4	877.1	490.8	600.6	668.1	764.0	729.3
71°	823.2	833.7	846.1	1055.0	988.8	852.6	442.1	553.4	625.4	728.0	698.4
72°	764.6	768.1	748.6	897.1	843.4	825.5	395.1	503.0	578.9	689.4	666.3
73°	714.9	726.8	651.1	780.4	698.1	785.4	349.2	450.0	534.7	651.3	629.6
74°	669.6	681.5	609.1	665.1	552.8	722.5	306.0	395.7	503.8	614.6	590.0
75°	631.4	631.1	566.0	549.9	594.9	649.5	265.0	338.3	477.8	580.4	547.9
76°	597.8	577.5	527.3	495.7	546.4	581.6	229.8	285.0	448.9	542.6	500.3
77°	571.8	524.7	487.3	466.4	384.8	511.7	194.5	248.5	420.7	508.7	446.2
78°	553.4	482.6	440.6	437.4	279.2	422.0	159.4	212.1	394.8	476.2	396.1
79°	528.4	452.9	399.1	379.5	222.2	335.7	130.7	175.7	367.4	444.6	351.6
80°	485.2	428.7	368.6	306.4	226.4	262.9	104.9	152.9	341.2	404.8	317.4
81°	420.2	400.9	340.1	258.2	234.2	194.2	82.1	130.3	313.5	362.1	281.9
82°	351.6	361.8	310.9	225.5	168.8	137.9	62.1	109.6	285.5	320.4	214.8
83°	288.8	321.8	269.5	196.5	109.9	93.3	46.0	90.0	257.3	289.2	147.5
84°	229.9	285.1	209.8	172.7	89.2	72.6	33.5	71.7	216.2	232.1	56.7
85°	159.3	223.9	162.0	146.8	68.7	52.3	25.4	54.7	175.3	175.1	40.4
86°	110.0	165.3	119.6	101.0	48.2	32.0	17.2	38.5	146.5	118.0	24.0
87°	88.0	96.5	79.6	56.4	34.1	18.5	9.1	26.2	97.4	60.9	7.8
88°	66.1	72.0	59.8	11.8	18.1	7.6	4.3	13.8	64.9	4.0	2.9
89°	44.3	48.2	40.2	7.2	12.0	3.9	1.3	1.8	32.5	1.1	1.0



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**CANDELA DISTRIBUTION (continued):**

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
134°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1449908  
 CATALOG NUMBER: TWC60\_T3\_60W\_3000K

**CANDELA DISTRIBUTION (continued):**

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
138°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
139°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
146°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
153°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154°	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
156°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
161°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
163°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164°	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
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
168°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
169°	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
171°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
173°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
174°	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
176°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
178°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
179°	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):**

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1449908

CATALOG NUMBER: TWC60\_T3\_60W\_3000K

**CANDELA DISTRIBUTION (continued):**

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	2863.3	2863.3	2863.3	2863.3	2863.3	2863.3	2863.3	2863.3	2863.3	2863.3	2863.3
1°	2842.0	2840.9	2841.7	2846.8	2850.4	2852.6	2858.6	2862.1	2869.0	2873.8	2877.9
2°	2823.0	2823.1	2827.4	2828.9	2834.4	2841.9	2853.8	2858.1	2871.0	2879.9	2892.4
3°	2808.1	2807.2	2809.8	2813.2	2818.7	2834.7	2845.5	2856.0	2875.1	2889.0	2907.5
4°	2807.9	2809.7	2809.6	2804.7	2807.0	2817.6	2835.0	2855.0	2875.8	2897.8	2917.8
5°	2814.3	2816.0	2812.9	2808.2	2800.6	2808.1	2826.0	2849.8	2877.5	2905.3	2928.6
6°	2811.0	2811.1	2813.6	2810.0	2801.7	2794.6	2815.8	2842.4	2877.5	2909.9	2940.9
7°	2790.3	2784.0	2794.4	2803.8	2803.0	2788.6	2806.6	2832.7	2873.8	2916.7	2952.0
8°	2750.3	2749.6	2756.4	2782.0	2798.2	2784.6	2795.7	2827.6	2875.8	2920.8	2962.7
9°	2728.6	2727.3	2727.6	2747.4	2781.3	2782.8	2780.5	2814.9	2872.4	2927.0	2974.3
10°	2713.4	2709.3	2711.0	2720.4	2752.7	2778.2	2768.6	2805.1	2868.3	2928.4	2983.6
11°	2698.1	2697.9	2698.3	2702.2	2720.0	2770.1	2754.6	2795.6	2862.8	2928.8	2991.8
12°	2687.3	2688.9	2686.9	2683.7	2694.8	2753.5	2745.1	2782.6	2858.2	2934.1	2999.0
13°	2677.0	2679.5	2677.9	2671.0	2675.1	2725.6	2735.2	2771.2	2849.0	2934.9	3008.5
14°	2666.0	2664.5	2665.2	2659.3	2658.0	2692.5	2727.6	2752.7	2845.7	2934.2	3012.5
15°	2654.8	2655.4	2653.3	2644.5	2639.0	2662.2	2717.0	2741.0	2837.0	2930.5	3016.6
16°	2645.2	2644.5	2638.3	2626.5	2621.9	2636.0	2704.9	2723.4	2829.7	2929.8	3021.7
17°	2635.0	2634.0	2630.1	2614.3	2602.8	2612.2	2687.4	2704.6	2818.0	2925.8	3026.3
18°	2621.9	2623.5	2614.3	2599.0	2587.2	2589.8	2667.3	2689.6	2808.3	2923.4	3026.8
19°	2611.1	2614.1	2604.4	2585.1	2566.3	2566.6	2642.1	2668.5	2795.7	2917.6	3029.5
20°	2602.0	2603.8	2594.0	2570.0	2547.2	2545.1	2607.0	2649.9	2782.2	2912.8	3032.2
21°	2592.5	2596.8	2582.2	2555.4	2529.7	2523.7	2576.6	2628.8	2768.6	2902.2	3032.3
22°	2580.9	2588.4	2571.2	2542.7	2510.0	2496.5	2540.5	2610.6	2749.7	2895.0	3034.6
23°	2576.8	2582.2	2562.5	2527.1	2491.3	2471.9	2510.6	2587.2	2731.6	2884.5	3035.3
24°	2569.3	2576.5	2556.6	2512.3	2469.6	2444.7	2483.6	2566.5	2711.1	2872.6	3034.0
25°	2558.1	2571.5	2548.0	2499.4	2450.3	2420.3	2451.9	2545.0	2690.9	2864.8	3031.7
26°	2553.6	2561.2	2540.2	2487.2	2430.1	2395.5	2421.2	2525.0	2667.8	2853.9	3035.3
27°	2541.7	2551.3	2528.6	2474.8	2409.7	2368.2	2391.8	2504.3	2644.9	2840.0	3029.2
28°	2535.2	2546.9	2519.8	2462.6	2388.7	2341.2	2361.0	2485.5	2619.9	2826.1	3028.2
29°	2525.2	2541.3	2507.0	2445.3	2368.9	2312.0	2327.8	2455.8	2591.1	2811.3	3025.2
30°	2519.5	2533.8	2498.7	2433.7	2351.4	2285.2	2296.6	2425.5	2562.8	2795.9	3023.4
31°	2518.1	2529.4	2493.4	2417.6	2332.3	2253.8	2259.6	2394.4	2533.8	2778.7	3019.7
32°	2510.0	2524.7	2485.7	2403.8	2310.8	2225.7	2228.4	2358.1	2502.6	2760.2	3016.0
33°	2501.0	2515.4	2476.6	2391.3	2288.8	2198.5	2188.7	2315.8	2472.4	2742.5	3010.5
34°	2487.9	2509.1	2466.3	2377.4	2262.7	2169.5	2154.5	2269.1	2438.6	2722.1	3008.4
35°	2477.5	2500.4	2455.9	2363.2	2242.1	2137.8	2116.3	2225.7	2407.6	2705.4	3007.4
36°	2472.3	2497.0	2444.6	2349.6	2218.7	2106.8	2079.7	2181.8	2375.0	2685.5	3000.1
37°	2469.2	2493.0	2438.1	2330.8	2196.5	2076.4	2040.2	2137.6	2339.9	2666.2	2999.1
38°	2465.1	2485.3	2433.0	2316.1	2172.1	2045.6	2002.1	2094.4	2307.5	2648.0	2989.0
39°	2453.3	2475.2	2424.9	2300.7	2149.2	2012.1	1963.6	2048.9	2272.3	2626.4	2980.1
40°	2439.9	2462.8	2410.7	2286.5	2121.1	1979.4	1924.3	2005.6	2233.8	2608.4	2972.9
41°	2432.0	2452.6	2397.1	2269.6	2096.6	1945.3	1885.1	1957.9	2198.1	2588.6	2962.7
42°	2417.4	2439.5	2384.8	2250.5	2076.2	1916.0	1845.8	1914.7	2157.3	2569.4	2952.8
43°	2405.9	2427.4	2373.1	2236.3	2053.2	1886.7	1806.3	1868.4	2117.9	2552.4	2939.2
44°	2388.3	2409.2	2356.8	2222.3	2031.6	1857.3	1763.1	1818.9	2079.3	2535.8	2924.3



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CATALOG NUMBER: TWC60\_T3\_60W\_3000K

**CANDELA DISTRIBUTION (continued):**

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	2366.4	2387.7	2338.7	2204.7	2005.6	1817.6	1718.7	1768.7	2038.3	2519.8	2904.4
46°	2341.9	2356.9	2314.7	2185.9	1978.0	1779.4	1678.3	1719.4	1996.2	2501.0	2880.4
47°	2310.6	2317.9	2288.1	2167.7	1952.3	1743.3	1634.3	1668.8	1953.9	2484.2	2858.0
48°	2264.6	2266.1	2247.6	2145.3	1929.3	1709.7	1592.6	1618.4	1914.6	2466.9	2828.8
49°	2208.5	2200.5	2199.4	2122.2	1904.0	1674.6	1546.9	1568.1	1870.7	2447.3	2801.4
50°	2135.4	2120.7	2139.4	2090.9	1878.7	1637.8	1501.6	1516.6	1830.1	2430.8	2767.8
51°	2051.2	2027.2	2063.6	2056.7	1853.4	1600.9	1455.4	1467.6	1793.1	2411.4	2731.2
52°	1961.2	1933.1	1977.0	2007.2	1821.6	1564.5	1407.7	1415.6	1753.7	2387.2	2686.4
53°	1871.2	1839.0	1890.4	1939.7	1790.9	1531.4	1358.8	1361.6	1714.1	2357.1	2635.2
54°	1780.8	1744.9	1803.6	1872.3	1761.1	1494.5	1310.2	1309.5	1677.0	2327.9	2578.9
55°	1675.5	1635.8	1706.0	1804.5	1727.8	1453.2	1263.6	1254.1	1640.8	2298.6	2522.5
56°	1567.6	1528.8	1597.9	1715.8	1692.9	1412.4	1217.4	1198.4	1605.9	2262.8	2457.2
57°	1460.8	1424.4	1492.6	1627.3	1650.0	1368.3	1166.4	1143.4	1570.8	2221.4	2383.4
58°	1360.8	1333.5	1388.9	1532.6	1596.2	1323.6	1115.4	1089.2	1535.8	2180.6	2306.1
59°	1285.0	1268.9	1300.6	1432.7	1532.0	1281.4	1065.4	1036.3	1500.9	2128.7	2218.4
60°	1227.2	1214.9	1233.3	1336.1	1454.4	1235.8	1015.7	984.7	1467.9	2075.8	2126.4
61°	1169.5	1150.9	1180.1	1239.9	1373.6	1191.7	966.9	931.3	1428.8	2017.9	2033.7
62°	1098.7	1070.9	1117.2	1164.9	1286.7	1146.4	916.2	880.7	1393.1	1954.4	1937.4
63°	1005.8	979.2	1031.7	1112.2	1192.8	1096.0	862.8	830.0	1355.4	1878.3	1836.3
64°	930.0	921.0	943.2	1059.4	1102.3	1047.2	810.8	779.4	1319.7	1790.9	1726.1
65°	889.3	887.3	889.6	987.7	1014.2	996.2	759.6	730.5	1286.1	1695.0	1607.7
66°	856.0	853.6	853.1	903.7	938.1	936.5	707.5	679.6	1253.8	1589.4	1495.2
67°	824.1	817.5	822.9	845.7	887.5	865.3	657.6	627.8	1218.8	1476.2	1402.0
68°	787.3	777.2	788.6	801.8	846.3	788.7	608.3	575.6	1178.4	1347.8	1314.4
69°	747.4	732.9	753.0	762.9	788.3	712.4	561.2	521.7	1125.9	1204.4	1225.4
70°	705.8	687.0	716.5	724.9	736.8	632.5	514.5	469.7	1065.0	1040.7	1115.5
71°	658.5	634.5	674.6	689.1	702.2	558.2	468.8	418.1	989.2	899.5	972.2
72°	608.2	585.0	628.5	659.2	672.7	496.6	426.4	368.4	913.3	842.5	849.7
73°	560.3	539.4	579.4	629.1	639.1	454.0	383.2	323.3	831.5	787.7	727.3
74°	510.3	488.8	530.5	598.9	605.4	412.0	342.2	281.3	749.7	773.6	604.9
75°	461.3	437.4	479.3	566.9	573.5	376.8	298.4	241.4	667.8	609.1	557.3
76°	408.2	381.9	431.0	530.9	540.4	349.9	257.3	205.8	563.1	445.1	514.4
77°	357.7	329.9	382.4	489.5	505.9	323.7	218.8	174.0	425.0	361.9	478.6
78°	312.7	281.0	338.5	439.1	469.2	296.6	180.5	147.1	317.9	308.2	428.7
79°	254.7	220.9	295.8	384.7	432.1	271.5	147.7	123.1	219.8	301.7	365.5
80°	196.7	160.9	230.9	339.4	394.2	247.5	122.6	101.2	164.1	304.1	308.2
81°	138.7	101.0	166.0	304.9	354.5	222.1	102.1	82.8	141.9	228.2	268.8
82°	73.1	57.1	101.4	277.1	314.0	196.8	84.5	64.4	126.7	151.3	238.7
83°	45.3	44.0	48.3	200.4	272.2	171.5	67.7	46.1	103.8	120.2	213.6
84°	32.9	31.8	33.6	124.5	226.6	145.6	52.2	33.5	81.7	98.8	184.0
85°	24.0	23.2	24.6	85.4	181.1	118.5	38.6	23.7	59.6	82.5	139.7
86°	15.1	14.7	15.5	46.2	135.5	89.5	28.0	15.4	37.5	66.4	75.4
87°	6.3	6.3	6.6	7.8	90.4	66.5	17.5	8.6	21.9	50.3	45.8
88°	2.6	2.5	2.6	2.6	45.2	44.5	7.0	4.7	8.5	21.0	16.7
89°	0.9	0.9	0.9	0.9	1.0	22.5	1.1	0.7	4.3	13.8	10.9



REPORT NUMBER: P1449908  
 CATALOG NUMBER: TWC60\_T3\_60W\_3000K

**CANDELA DISTRIBUTION (continued):**

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
134°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1449908  
 CATALOG NUMBER: TWC60\_T3\_60W\_3000K

**CANDELA DISTRIBUTION (continued):**

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
138°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
139°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
146°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
153°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154°	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
156°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
161°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
163°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164°	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
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
168°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
169°	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
171°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
173°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
174°	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
176°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
178°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
179°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1449908  
CATALOG NUMBER: TWC60\_T3\_60W\_3000K

**CANDELA DISTRIBUTION (continued):**

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1449908  
 CATALOG NUMBER: TWC60\_T3\_60W\_3000K

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
0°	2863.3	2863.3	2863.3
1°	2878.8	2882.5	2885.1
2°	2899.5	2905.2	2905.9
3°	2915.2	2925.9	2923.6
4°	2932.7	2941.0	2946.9
5°	2948.9	2961.3	2964.8
6°	2962.8	2982.1	2984.8
7°	2979.2	2996.4	3002.3
8°	2996.3	3017.1	3023.8
9°	3011.1	3037.6	3042.7
10°	3027.1	3054.4	3062.7
11°	3040.4	3071.2	3078.2
12°	3053.2	3085.2	3095.0
13°	3067.4	3100.1	3114.8
14°	3074.4	3117.1	3128.9
15°	3086.7	3130.5	3143.5
16°	3097.2	3146.4	3160.3
17°	3104.5	3157.3	3176.4
18°	3116.7	3174.6	3193.2
19°	3126.9	3186.5	3206.9
20°	3133.0	3200.2	3221.5
21°	3142.7	3213.4	3234.5
22°	3151.4	3229.8	3247.5
23°	3157.6	3242.9	3266.4
24°	3165.7	3258.2	3281.6
25°	3173.8	3269.1	3296.3
26°	3184.0	3282.6	3311.5
27°	3189.4	3295.9	3321.5
28°	3196.5	3309.4	3336.3
29°	3205.1	3317.6	3354.6
30°	3211.0	3331.6	3365.4
31°	3220.3	3341.6	3376.3
32°	3226.5	3349.2	3381.8
33°	3232.3	3355.7	3386.4
34°	3235.5	3354.8	3385.2
35°	3234.9	3350.7	3382.2
36°	3231.9	3348.0	3373.8
37°	3229.4	3336.0	3362.6
38°	3219.9	3321.5	3352.3
39°	3213.2	3303.3	3333.0
40°	3195.9	3286.1	3312.8
41°	3175.3	3263.2	3291.6
42°	3154.7	3240.5	3264.7
43°	3129.7	3213.8	3234.0
44°	3106.6	3176.1	3193.0



REPORT NUMBER: P1449908  
CATALOG NUMBER: TWC60\_T3\_60W\_3000K

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
45°	3081.7	3136.5	3157.4
46°	3045.7	3095.8	3110.8
47°	3004.0	3043.9	3048.1
48°	2963.1	2983.0	2989.0
49°	2910.2	2920.0	2926.1
50°	2856.0	2858.8	2863.6
51°	2792.9	2789.6	2795.3
52°	2728.3	2719.1	2719.5
53°	2660.6	2640.5	2637.8
54°	2584.1	2563.3	2559.6
55°	2505.8	2484.3	2485.9
56°	2422.8	2404.4	2398.2
57°	2340.2	2318.1	2308.9
58°	2258.8	2220.2	2205.5
59°	2170.2	2109.8	2094.1
60°	2074.0	1999.0	1981.8
61°	1965.7	1886.4	1869.9
62°	1854.3	1772.1	1752.7
63°	1749.7	1649.8	1630.0
64°	1641.1	1531.6	1517.0
65°	1520.3	1412.9	1403.2
66°	1400.7	1307.4	1307.2
67°	1278.0	1208.7	1204.6
68°	1152.3	1088.0	1073.2
69°	1025.6	952.8	942.7
70°	890.1	891.0	881.8
71°	799.1	829.8	823.2
72°	709.2	768.6	764.6
73°	670.5	721.5	714.9
74°	634.9	672.5	669.6
75°	599.4	622.9	631.4
76°	561.0	574.6	597.8
77°	515.7	534.1	571.8
78°	467.7	505.8	553.4
79°	428.6	486.2	528.4
80°	394.6	464.2	485.2
81°	360.2	423.5	420.2
82°	315.1	371.2	351.6
83°	260.1	322.2	288.8
84°	204.6	271.8	229.9
85°	175.1	201.9	159.3
86°	130.3	139.8	110.0
87°	85.2	111.4	88.0
88°	64.1	83.7	66.1
89°	43.0	56.0	44.3



REPORT NUMBER: P1449908  
CATALOG NUMBER: TWC60\_T3\_60W\_3000K

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
90°	0.0	0.0	0.0
91°	0.0	0.0	0.0
92°	0.0	0.0	0.0
93°	0.0	0.0	0.0
94°	0.0	0.0	0.0
95°	0.0	0.0	0.0
96°	0.0	0.0	0.0
97°	0.0	0.0	0.0
98°	0.0	0.0	0.0
99°	0.0	0.0	0.0
100°	0.0	0.0	0.0
101°	0.0	0.0	0.0
102°	0.0	0.0	0.0
103°	0.0	0.0	0.0
104°	0.0	0.0	0.0
105°	0.0	0.0	0.0
106°	0.0	0.0	0.0
107°	0.0	0.0	0.0
108°	0.0	0.0	0.0
109°	0.0	0.0	0.0
110°	0.0	0.0	0.0
111°	0.0	0.0	0.0
112°	0.0	0.0	0.0
113°	0.0	0.0	0.0
114°	0.0	0.0	0.0
115°	0.0	0.0	0.0
116°	0.0	0.0	0.0
117°	0.0	0.0	0.0
118°	0.0	0.0	0.0
119°	0.0	0.0	0.0
120°	0.0	0.0	0.0
121°	0.0	0.0	0.0
122°	0.0	0.0	0.0
123°	0.0	0.0	0.0
124°	0.0	0.0	0.0
125°	0.0	0.0	0.0
126°	0.0	0.0	0.0
127°	0.0	0.0	0.0
128°	0.0	0.0	0.0
129°	0.0	0.0	0.0
130°	0.0	0.0	0.0
131°	0.0	0.0	0.0
132°	0.0	0.0	0.0
133°	0.0	0.0	0.0
134°	0.0	0.0	0.0



REPORT NUMBER: P1449908  
CATALOG NUMBER: TWC60\_T3\_60W\_3000K

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
135°	0.0	0.0	0.0
136°	0.0	0.0	0.0
137°	0.0	0.0	0.0
138°	0.0	0.0	0.0
139°	0.0	0.0	0.0
140°	0.0	0.0	0.0
141°	0.0	0.0	0.0
142°	0.0	0.0	0.0
143°	0.0	0.0	0.0
144°	0.0	0.0	0.0
145°	0.0	0.0	0.0
146°	0.0	0.0	0.0
147°	0.0	0.0	0.0
148°	0.0	0.0	0.0
149°	0.0	0.0	0.0
150°	0.0	0.0	0.0
151°	0.0	0.0	0.0
152°	0.0	0.0	0.0
153°	0.0	0.0	0.0
154°	0.0	0.0	0.0
155°	0.0	0.0	0.0
156°	0.0	0.0	0.0
157°	0.0	0.0	0.0
158°	0.0	0.0	0.0
159°	0.0	0.0	0.0
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161°	0.0	0.0	0.0
162°	0.0	0.0	0.0
163°	0.0	0.0	0.0
164°	0.0	0.0	0.0
165°	0.0	0.0	0.0
166°	0.0	0.0	0.0
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168°	0.0	0.0	0.0
169°	0.0	0.0	0.0
170°	0.0	0.0	0.0
171°	0.0	0.0	0.0
172°	0.0	0.0	0.0
173°	0.0	0.0	0.0
174°	0.0	0.0	0.0
175°	0.0	0.0	0.0
176°	0.0	0.0	0.0
177°	0.0	0.0	0.0
178°	0.0	0.0	0.0
179°	0.0	0.0	0.0

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

Scaled Data Report



REPORT NUMBER: P1449908  
CATALOG NUMBER: TWC60\_T3\_60W\_3000K

**CANDELA DISTRIBUTION (continued):**

	330°	345°	360°
180°	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

Lumark

Report Number: SP1-2601-659-1

Test Date: 02/12/2026

Luminaire Tested: MWP2460W34VDDKYYAD-T4-24W-3000K

Data in this report applies to families of products including ;MWP2460W34VDDKYYAD

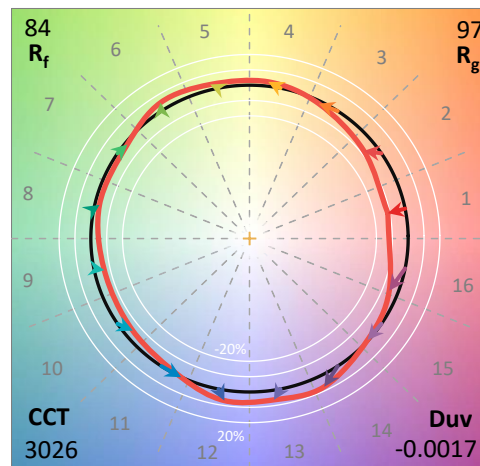
**Test Information**

Test Method: LM-79-2019  
 Report Number: SP1-2601-659-1  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry: 4π  
 Issue Date: 02/16/2026  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: Lumark  
 Catalog Number: **MWP2460W34VDDKYYAD-T4-24W-3000K**  
 Description: Mester Wedge, at T4 beam setting, 24W output, 3000K

**Spectral Parameters**

CCT (K): 3026  
 CIE u': 0.2503  
 CIE v': 0.5184  
 Duv: -0.0017  
 CIE x: 0.4326  
 CIE y: 0.3983  
 CIE z: 0.1691  
 Peak Wavelength (nm): 604  
 Dominant Wavelength (nm): 583  
 Purity: 49.3886  
 Rf: 84  
 Rg: 97.4

CRI (Ra):	82.7		
R1:	81.4	R9:	7.5
R2:	90.7	R10:	78.8
R3:	96.3	R11:	80.8
R4:	81.1	R12:	70.7
R5:	81.6	R13:	83.7
R6:	88.6	R14:	98.6
R7:	82.6	R15:	74.2
R8:	59.3		



**Test Conditions**

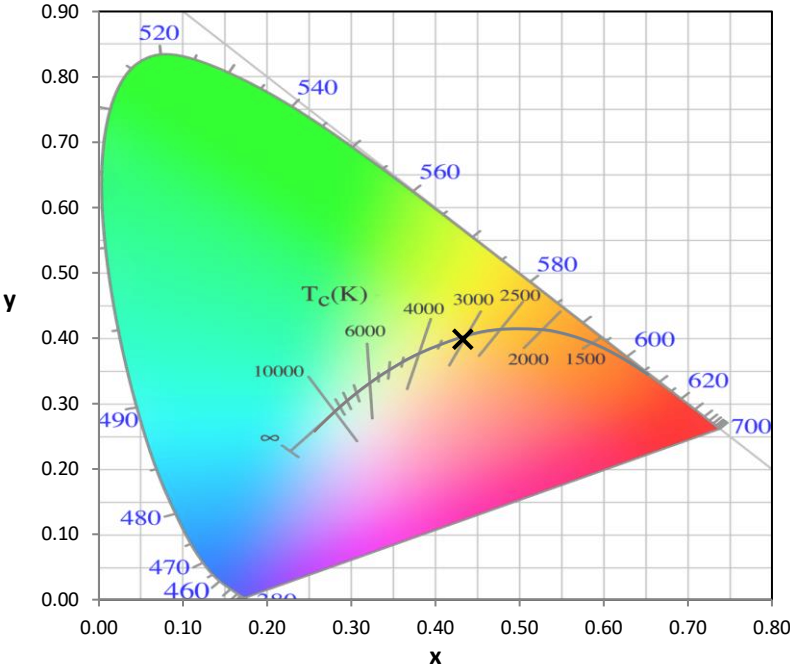
Stabilization Time: 64M  
 Operation Time: 2H 4M  
 Sphere Temperature (°C): 24.8

REPORT NUMBER: SP1-2601-659-1

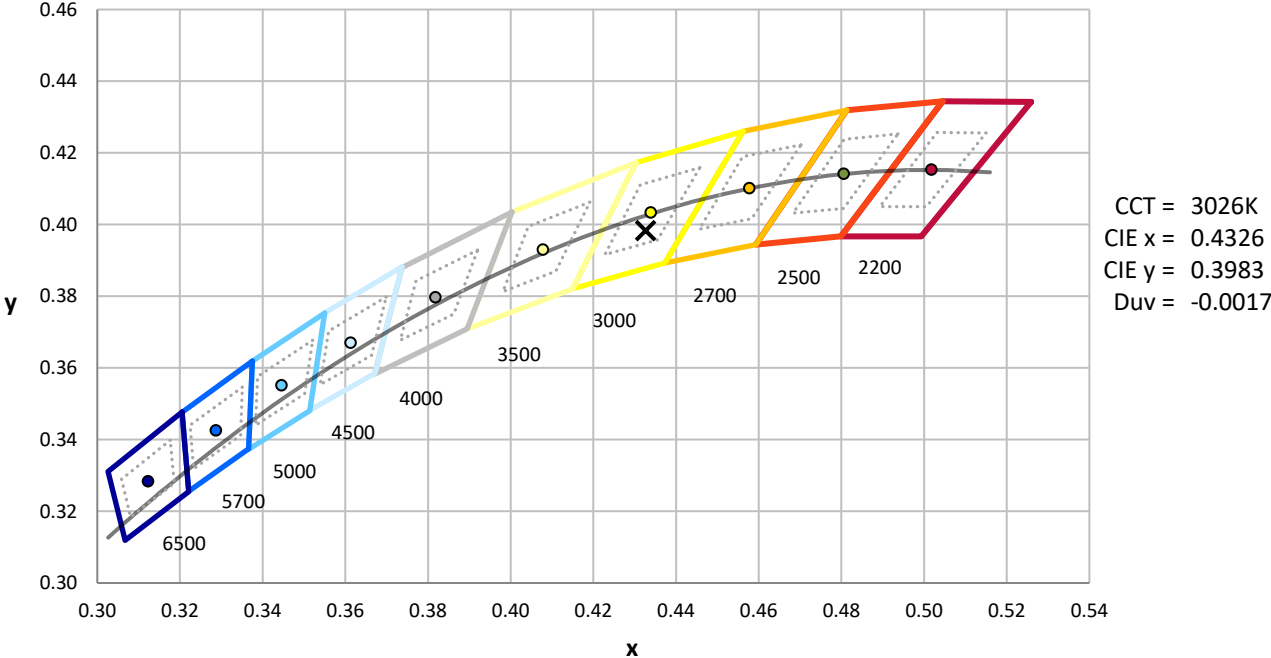
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	12/16/2025	6/16/2026
Power Meter	XITRON INXT2011004	10/21/2025	10/21/2026
AC Power Source	CHROMA 61603 IN0063	10/21/2025	10/21/2026
DC Power Source	AGILENT E3634A IN0208	10/21/2025	10/21/2026
Sphere Thermometer	ONSET IN0085	10/21/2025	10/21/2026
Room Thermometer	ONSET IN0046	10/21/2025	10/21/2026

REPORT NUMBER: SP1-2601-659-1

CIE 1931 Chromaticity Diagram



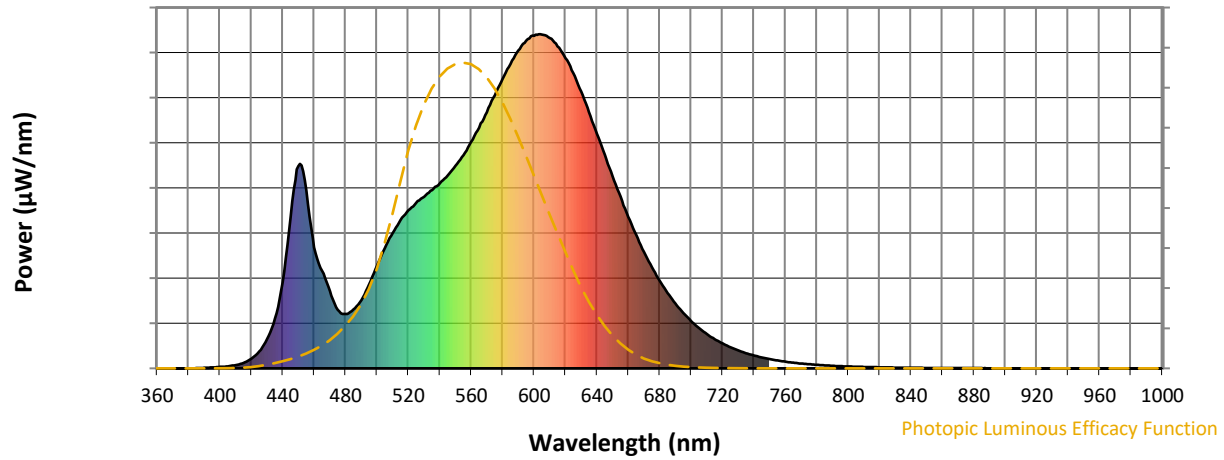
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2601-659-1

**Photopic Flux vs. Wavelength**

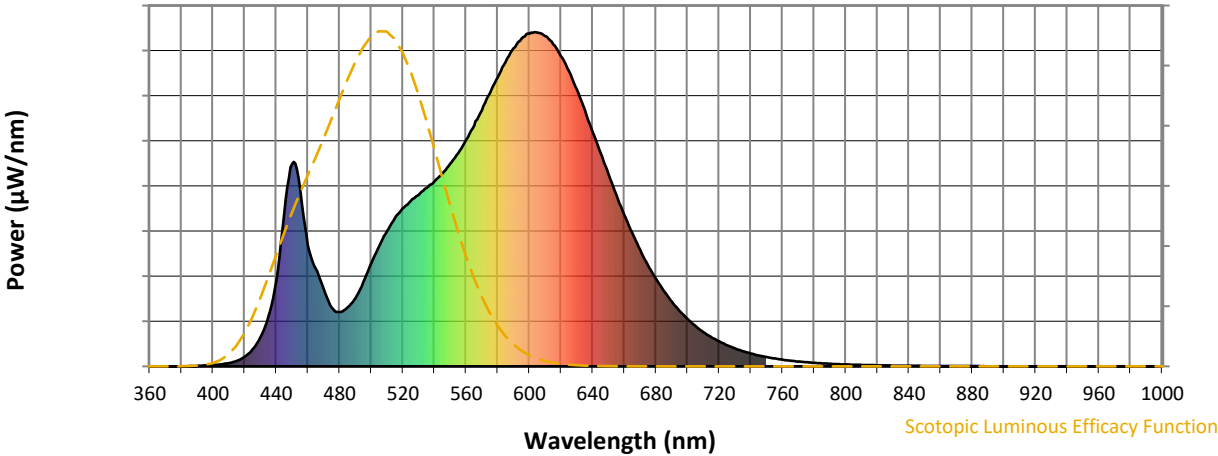


**Photopic Lumens: NR**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)
360	0	NR	490	204	NR	620	928	NR	750	28	NR	880	1	NR
365	0	NR	495	251	NR	625	884	NR	755	24	NR	885	1	NR
370	0	NR	500	307	NR	630	828	NR	760	20	NR	890	0	NR
375	0	NR	505	360	NR	635	767	NR	765	17	NR	895	0	NR
380	0	NR	510	405	NR	640	702	NR	770	14	NR	900	0	NR
385	1	NR	515	444	NR	645	639	NR	775	12	NR	905	0	NR
390	2	NR	520	473	NR	650	574	NR	780	11	NR	910	0	NR
395	3	NR	525	495	NR	655	514	NR	785	9	NR	915	0	NR
400	5	NR	530	513	NR	660	453	NR	790	8	NR	920	0	NR
405	6	NR	535	534	NR	665	399	NR	795	7	NR	925	0	NR
410	10	NR	540	554	NR	670	348	NR	800	6	NR	930	0	NR
415	17	NR	545	577	NR	675	303	NR	805	5	NR	935	0	NR
420	29	NR	550	606	NR	680	263	NR	810	4	NR	940	0	NR
425	51	NR	555	638	NR	685	226	NR	815	4	NR	945	0	NR
430	87	NR	560	678	NR	690	194	NR	820	3	NR	950	0	NR
435	150	NR	565	720	NR	695	166	NR	825	3	NR	955	0	NR
440	258	NR	570	767	NR	700	142	NR	830	2	NR	960	0	NR
445	454	NR	575	817	NR	705	121	NR	835	2	NR	965	0	NR
450	605	NR	580	866	NR	710	103	NR	840	2	NR	970	0	NR
455	533	NR	585	911	NR	715	87	NR	845	2	NR	975	0	NR
460	362	NR	590	952	NR	720	74	NR	850	1	NR	980	0	NR
465	293	NR	595	981	NR	725	63	NR	855	1	NR	985	0	NR
470	231	NR	600	995	NR	730	54	NR	860	1	NR	990	0	NR
475	176	NR	605	999	NR	735	46	NR	865	1	NR	995	0	NR
480	163	NR	610	989	NR	740	38	NR	870	1	NR	1000	0	NR
485	176	NR	615	964	NR	745	33	NR	875	1	NR			

REPORT NUMBER: SP1-2601-659-1

**Scotopic Flux vs. Wavelength**



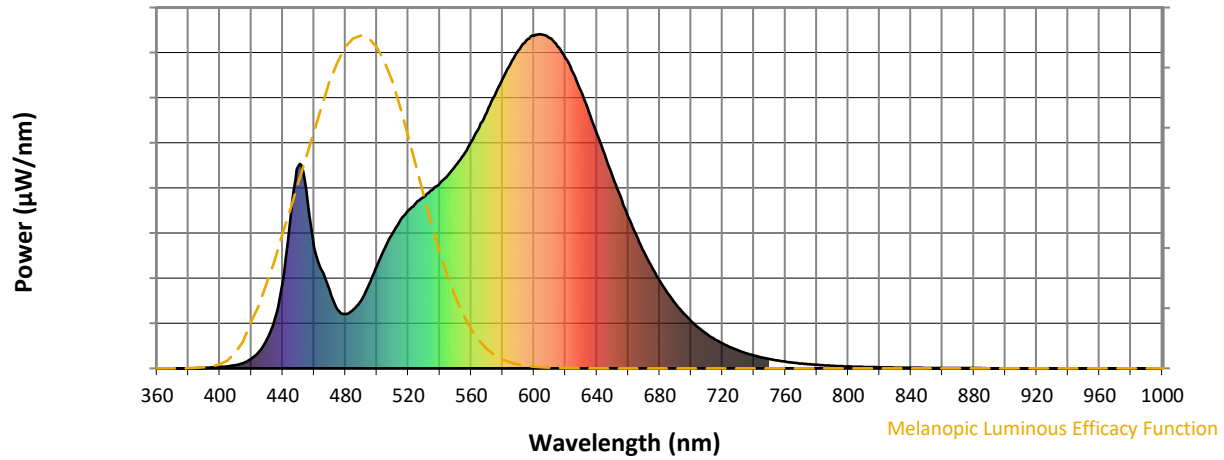
**Scotopic Lumens: NR**

**S/P: 1.35**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)
360	0	NR	490	204	NR	620	928	NR	750	28	NR	880	1	NR
365	0	NR	495	251	NR	625	884	NR	755	24	NR	885	1	NR
370	0	NR	500	307	NR	630	828	NR	760	20	NR	890	0	NR
375	0	NR	505	360	NR	635	767	NR	765	17	NR	895	0	NR
380	0	NR	510	405	NR	640	702	NR	770	14	NR	900	0	NR
385	1	NR	515	444	NR	645	639	NR	775	12	NR	905	0	NR
390	2	NR	520	473	NR	650	574	NR	780	11	NR	910	0	NR
395	3	NR	525	495	NR	655	514	NR	785	9	NR	915	0	NR
400	5	NR	530	513	NR	660	453	NR	790	8	NR	920	0	NR
405	6	NR	535	534	NR	665	399	NR	795	7	NR	925	0	NR
410	10	NR	540	554	NR	670	348	NR	800	6	NR	930	0	NR
415	17	NR	545	577	NR	675	303	NR	805	5	NR	935	0	NR
420	29	NR	550	606	NR	680	263	NR	810	4	NR	940	0	NR
425	51	NR	555	638	NR	685	226	NR	815	4	NR	945	0	NR
430	87	NR	560	678	NR	690	194	NR	820	3	NR	950	0	NR
435	150	NR	565	720	NR	695	166	NR	825	3	NR	955	0	NR
440	258	NR	570	767	NR	700	142	NR	830	2	NR	960	0	NR
445	454	NR	575	817	NR	705	121	NR	835	2	NR	965	0	NR
450	605	NR	580	866	NR	710	103	NR	840	2	NR	970	0	NR
455	533	NR	585	911	NR	715	87	NR	845	2	NR	975	0	NR
460	362	NR	590	952	NR	720	74	NR	850	1	NR	980	0	NR
465	293	NR	595	981	NR	725	63	NR	855	1	NR	985	0	NR
470	231	NR	600	995	NR	730	54	NR	860	1	NR	990	0	NR
475	176	NR	605	999	NR	735	46	NR	865	1	NR	995	0	NR
480	163	NR	610	989	NR	740	38	NR	870	1	NR	1000	0	NR
485	176	NR	615	964	NR	745	33	NR	875	1	NR			

REPORT NUMBER: SP1-2601-659-1

**Melanopic Flux vs. Wavelength**



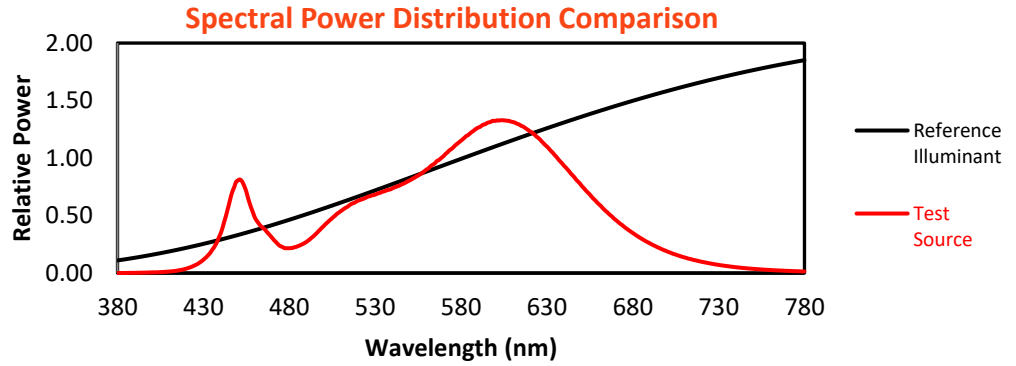
**Melanopic Lumens: NR**

**M/P: 2.61**

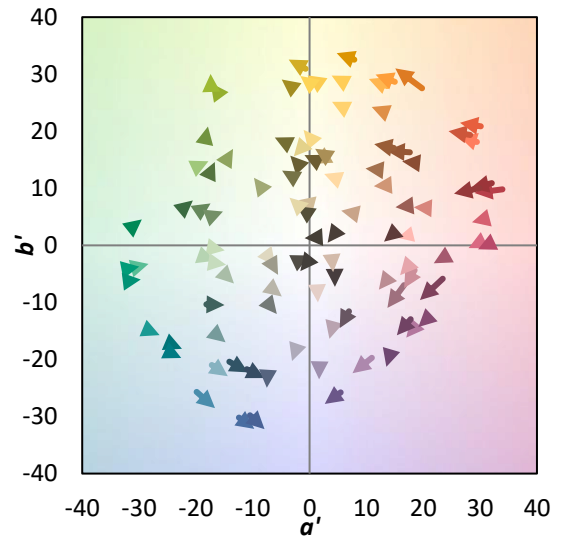
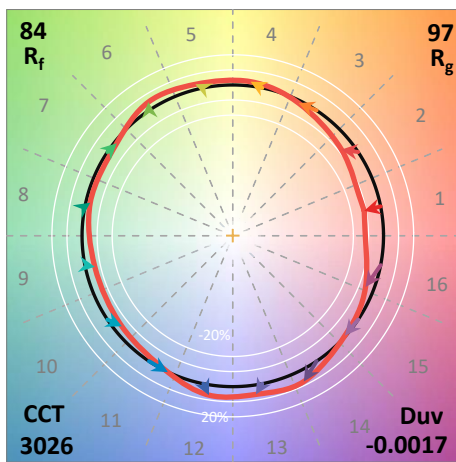
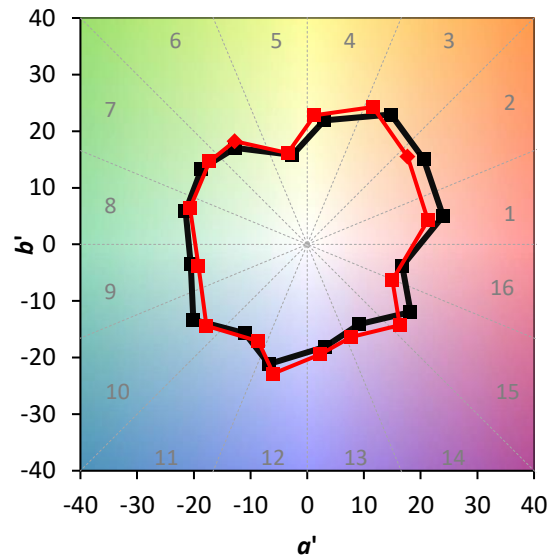
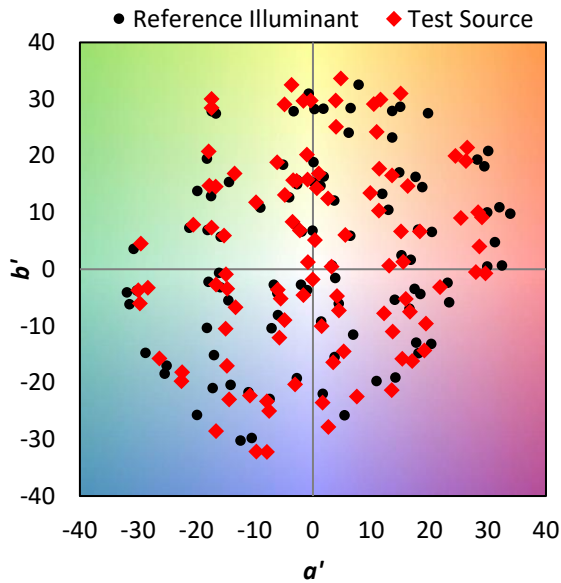
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	204	NR	620	928	NR	750	28	NR	880	1	NR
365	0	NR	495	251	NR	625	884	NR	755	24	NR	885	1	NR
370	0	NR	500	307	NR	630	828	NR	760	20	NR	890	0	NR
375	0	NR	505	360	NR	635	767	NR	765	17	NR	895	0	NR
380	0	NR	510	405	NR	640	702	NR	770	14	NR	900	0	NR
385	1	NR	515	444	NR	645	639	NR	775	12	NR	905	0	NR
390	2	NR	520	473	NR	650	574	NR	780	11	NR	910	0	NR
395	3	NR	525	495	NR	655	514	NR	785	9	NR	915	0	NR
400	5	NR	530	513	NR	660	453	NR	790	8	NR	920	0	NR
405	6	NR	535	534	NR	665	399	NR	795	7	NR	925	0	NR
410	10	NR	540	554	NR	670	348	NR	800	6	NR	930	0	NR
415	17	NR	545	577	NR	675	303	NR	805	5	NR	935	0	NR
420	29	NR	550	606	NR	680	263	NR	810	4	NR	940	0	NR
425	51	NR	555	638	NR	685	226	NR	815	4	NR	945	0	NR
430	87	NR	560	678	NR	690	194	NR	820	3	NR	950	0	NR
435	150	NR	565	720	NR	695	166	NR	825	3	NR	955	0	NR
440	258	NR	570	767	NR	700	142	NR	830	2	NR	960	0	NR
445	454	NR	575	817	NR	705	121	NR	835	2	NR	965	0	NR
450	605	NR	580	866	NR	710	103	NR	840	2	NR	970	0	NR
455	533	NR	585	911	NR	715	87	NR	845	2	NR	975	0	NR
460	362	NR	590	952	NR	720	74	NR	850	1	NR	980	0	NR
465	293	NR	595	981	NR	725	63	NR	855	1	NR	985	0	NR
470	231	NR	600	995	NR	730	54	NR	860	1	NR	990	0	NR
475	176	NR	605	999	NR	735	46	NR	865	1	NR	995	0	NR
480	163	NR	610	989	NR	740	38	NR	870	1	NR	1000	0	NR
485	176	NR	615	964	NR	745	33	NR	875	1	NR			

**Summary**

$R_f = 84$   
 $R_g = 97.4$   
 $CIE R_a = 82.7$   
 $R_9 = 7.5$

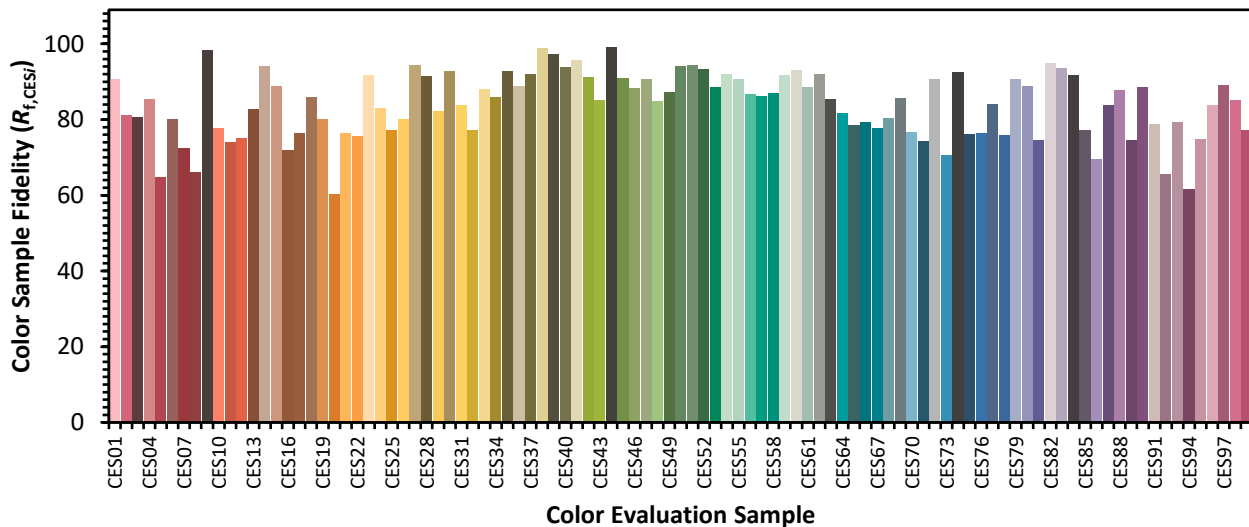


**Color Vector Graphics**

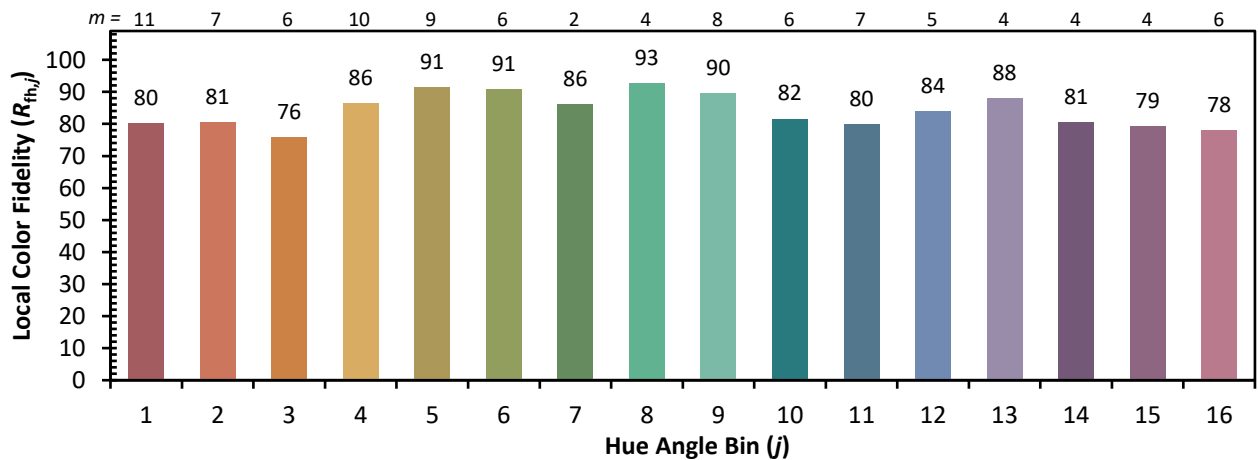
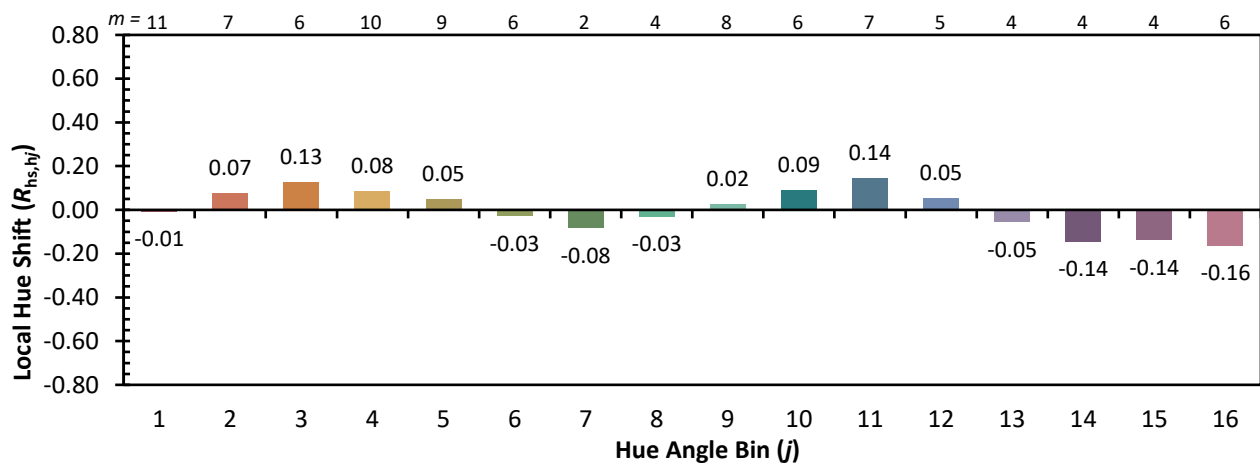
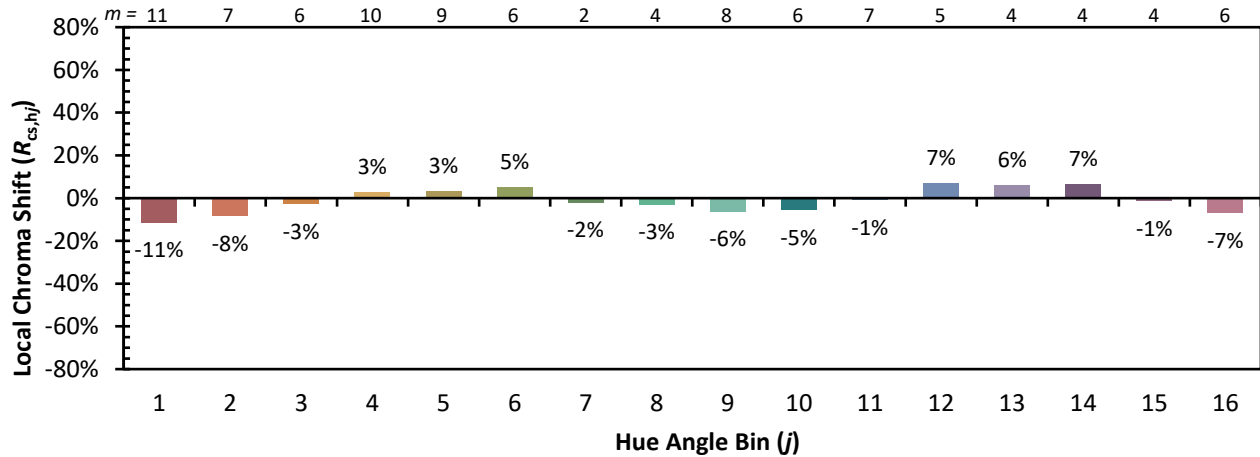


Individual Sample Fidelity Index ( $R_{f,i}$ )

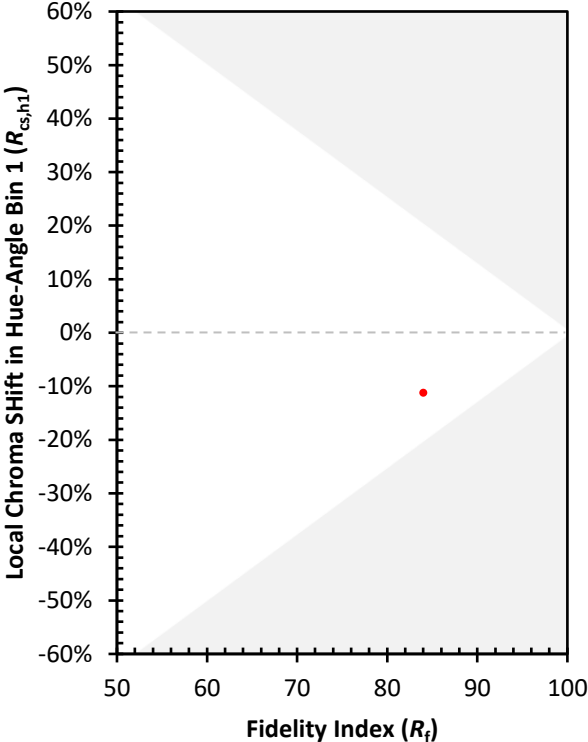
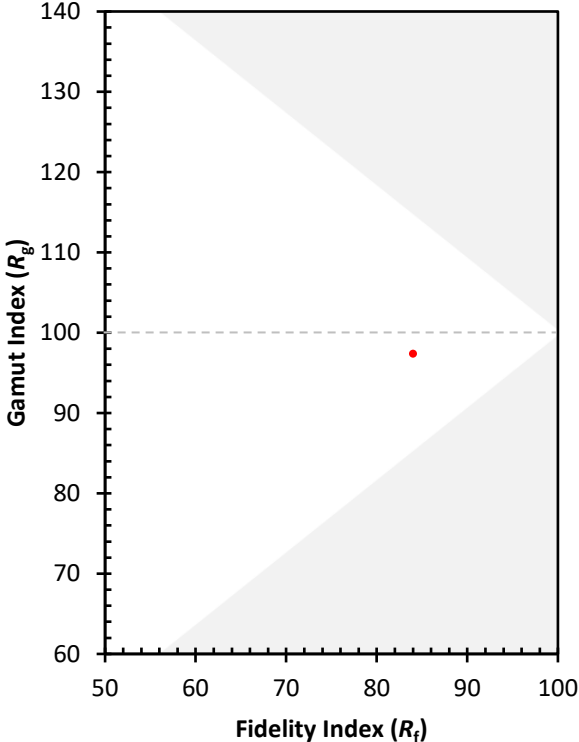
CES01 = 86	CES26 = 80	CES51 = 94	CES76 = 76
CES02 = 63	CES27 = 94	CES52 = 93	CES77 = 84
CES03 = 31	CES28 = 92	CES53 = 88	CES78 = 76
CES04 = 70	CES29 = 82	CES54 = 92	CES79 = 91
CES05 = 50	CES30 = 93	CES55 = 91	CES80 = 89
CES06 = 51	CES31 = 84	CES56 = 87	CES81 = 75
CES07 = 42	CES32 = 77	CES57 = 86	CES82 = 95
CES08 = 41	CES33 = 88	CES58 = 87	CES83 = 93
CES09 = 29	CES34 = 86	CES59 = 92	CES84 = 92
CES10 = 76	CES35 = 93	CES60 = 93	CES85 = 77
CES11 = 59	CES36 = 89	CES61 = 89	CES86 = 69
CES12 = 65	CES37 = 92	CES62 = 92	CES87 = 84
CES13 = 43	CES38 = 99	CES63 = 85	CES88 = 88
CES14 = 74	CES39 = 97	CES64 = 82	CES89 = 75
CES15 = 72	CES40 = 94	CES65 = 79	CES90 = 89
CES16 = 48	CES41 = 96	CES66 = 79	CES91 = 79
CES17 = 50	CES42 = 91	CES67 = 78	CES92 = 66
CES18 = 57	CES43 = 85	CES68 = 80	CES93 = 79
CES19 = 72	CES44 = 99	CES69 = 86	CES94 = 62
CES20 = 67	CES45 = 91	CES70 = 77	CES95 = 75
CES21 = 87	CES46 = 88	CES71 = 74	CES96 = 84
CES22 = 79	CES47 = 91	CES72 = 91	CES97 = 89
CES23 = 92	CES48 = 85	CES73 = 71	CES98 = 85
CES24 = 91	CES49 = 87	CES74 = 93	CES99 = 77
CES25 = 72	CES50 = 94	CES75 = 76	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)