

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: CORELITE

Report Number: P234568

Luminaire Tested: **CTA-F-0100-60L840-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234568
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-19)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-0100-60L840-UNV-8
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
6000 LUMENS, 0% UPLIGHT, 100% DOWNLIGHT
Light Source: (672) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12310.0 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.23 / 1.36
Luminous Opening: Rectangular (W 0.42' x L: 8' x H: 0')
CIE Type: Direct

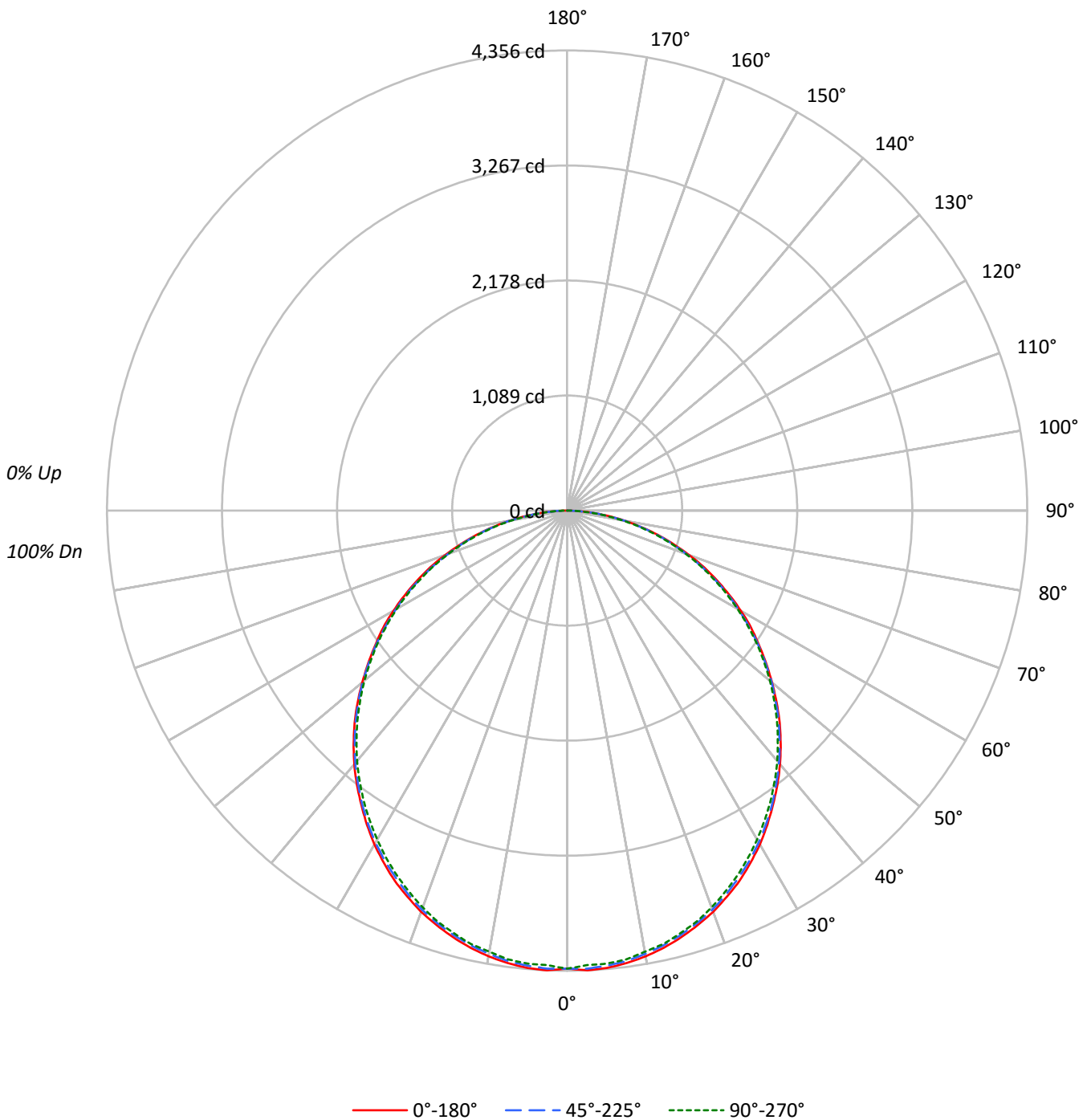
Input Watts (W): 138.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P234568

CATALOG NUMBER: CTA-F-0100-60L840-UNV-8

Luminous Intensity Polar Plot





TEST NUMBER: P234568

CATALOG NUMBER: CTA-F-0100-60L840-UNV-8

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | |
| RC | 80 | | | | 70 | | | | 50 | | | | 30 | | | | 10 | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 109 | 104 | 99 | 95 | 106 | 101 | 97 | 94 | 97 | 94 | 91 | 93 | 90 | 88 | 90 | 87 | 85 | 83 |
| 2 | 99 | 90 | 83 | 77 | 96 | 88 | 82 | 76 | 85 | 79 | 75 | 81 | 77 | 73 | 78 | 75 | 71 | 69 |
| 3 | 90 | 79 | 71 | 64 | 87 | 77 | 70 | 64 | 74 | 68 | 62 | 72 | 66 | 61 | 69 | 64 | 60 | 58 |
| 4 | 82 | 70 | 61 | 54 | 80 | 69 | 60 | 54 | 66 | 59 | 53 | 64 | 57 | 52 | 62 | 56 | 52 | 49 |
| 5 | 75 | 62 | 53 | 47 | 73 | 61 | 53 | 46 | 59 | 52 | 46 | 57 | 51 | 45 | 55 | 50 | 45 | 43 |
| 6 | 70 | 56 | 47 | 41 | 68 | 55 | 47 | 41 | 53 | 46 | 40 | 52 | 45 | 40 | 50 | 44 | 39 | 37 |
| 7 | 65 | 51 | 42 | 36 | 63 | 50 | 42 | 36 | 49 | 41 | 36 | 47 | 40 | 35 | 46 | 40 | 35 | 33 |
| 8 | 60 | 47 | 38 | 32 | 59 | 46 | 38 | 32 | 44 | 37 | 32 | 43 | 36 | 32 | 42 | 36 | 31 | 29 |
| 9 | 56 | 43 | 34 | 29 | 55 | 42 | 34 | 29 | 41 | 34 | 29 | 40 | 33 | 28 | 39 | 33 | 28 | 26 |
| 10 | 53 | 39 | 31 | 26 | 51 | 39 | 31 | 26 | 38 | 31 | 26 | 37 | 30 | 26 | 36 | 30 | 26 | 24 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 14000 | 14000 | 14000 |
| 5° | 14086 | 14014 | 13954 |
| 10° | 14049 | 13969 | 13902 |
| 15° | 13976 | 13901 | 13847 |
| 20° | 13890 | 13813 | 13736 |
| 25° | 13770 | 13668 | 13581 |
| 30° | 13604 | 13529 | 13407 |
| 35° | 13395 | 13346 | 13234 |
| 40° | 13215 | 13155 | 13043 |
| 45° | 12995 | 12929 | 12827 |
| 50° | 12718 | 12687 | 12585 |
| 55° | 12474 | 12405 | 12325 |
| 60° | 12269 | 12097 | 12032 |
| 65° | 11961 | 11758 | 11680 |
| 70° | 11586 | 11335 | 11277 |
| 75° | 11062 | 10910 | 10707 |
| 80° | 10311 | 10158 | 9855 |
| 85° | 9062 | 8532 | 7628 |



TEST NUMBER: P234568

CATALOG NUMBER: CTA-F-0100-60L840-UNV-8

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 410.2 | 3.3 |
| 10°-20° | 1171.6 | 9.5 |
| 20°-30° | 1763.6 | 14.3 |
| 30°-40° | 2110.3 | 17.1 |
| 40°-50° | 2176.6 | 17.7 |
| 50°-60° | 1967.8 | 16.0 |
| 60°-70° | 1526.2 | 12.4 |
| 70°-80° | 920.2 | 7.5 |
| 80°-90° | 263.4 | 2.1 |
| 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°-30° | 3345.4 | 27.2 |
| 0°-40° | 5455.7 | 44.3 |
| 0°-60° | 9600.2 | 78.0 |
| 0°-90° | 12310.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 12310.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 4336 | 4336 | 4336 | 4336 | 4336 | |
| 5° | 4346 | 4303 | 4324 | 4320 | 4305 | 413 |
| 15° | 4181 | 4134 | 4158 | 4158 | 4142 | 1180 |
| 25° | 3865 | 3814 | 3836 | 3822 | 3812 | 1779 |
| 35° | 3398 | 3366 | 3386 | 3364 | 3357 | 2127 |
| 45° | 2846 | 2825 | 2831 | 2807 | 2809 | 2194 |
| 55° | 2216 | 2210 | 2204 | 2187 | 2189 | 1985 |
| 65° | 1566 | 1551 | 1539 | 1531 | 1529 | 1551 |
| 75° | 887 | 879 | 874 | 862 | 858 | 937 |
| 85° | 245 | 243 | 230 | 218 | 206 | 278 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P234568

CATALOG NUMBER: CTA-F-0100-60L840-UNV-8

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 4335.8 | 4335.8 | 4335.8 | 4335.8 | 4335.8 |
| 2.5° | 4356.2 | 4317.5 | 4339.9 | 4333.8 | 4307.3 |
| 5° | 4346.0 | 4303.2 | 4323.6 | 4319.5 | 4305.2 |
| 7.5° | 4319.5 | 4278.7 | 4301.2 | 4295.0 | 4284.8 |
| 10° | 4284.8 | 4238.0 | 4260.4 | 4254.3 | 4240.0 |
| 12.5° | 4238.0 | 4193.1 | 4215.5 | 4209.4 | 4203.3 |
| 15° | 4180.9 | 4134.0 | 4158.5 | 4158.5 | 4142.2 |
| 17.5° | 4113.6 | 4070.8 | 4093.2 | 4091.2 | 4079.0 |
| 20° | 4042.3 | 3991.3 | 4019.8 | 4009.7 | 3997.4 |
| 22.5° | 3954.6 | 3909.8 | 3932.2 | 3913.8 | 3907.7 |
| 25° | 3864.9 | 3814.0 | 3836.4 | 3822.1 | 3811.9 |
| 27.5° | 3758.9 | 3714.1 | 3736.5 | 3716.1 | 3708.0 |
| 30° | 3648.8 | 3602.0 | 3628.5 | 3606.0 | 3595.8 |
| 32.5° | 3526.5 | 3491.9 | 3510.2 | 3487.8 | 3477.6 |
| 35° | 3398.1 | 3365.5 | 3385.9 | 3363.5 | 3357.3 |
| 37.5° | 3269.7 | 3239.1 | 3253.4 | 3233.0 | 3226.9 |
| 40° | 3135.2 | 3106.6 | 3120.9 | 3094.4 | 3094.4 |
| 42.5° | 2992.5 | 2968.0 | 2976.2 | 2953.7 | 2951.7 |
| 45° | 2845.7 | 2825.3 | 2831.4 | 2807.0 | 2809.0 |
| 47.5° | 2690.8 | 2674.5 | 2678.5 | 2658.2 | 2656.1 |
| 50° | 2531.8 | 2523.6 | 2525.7 | 2501.2 | 2505.3 |
| 52.5° | 2374.8 | 2368.7 | 2364.6 | 2348.3 | 2346.3 |
| 55° | 2215.8 | 2209.7 | 2203.6 | 2187.3 | 2189.3 |
| 57.5° | 2067.0 | 2048.7 | 2038.5 | 2028.3 | 2026.2 |
| 60° | 1899.8 | 1883.5 | 1873.3 | 1861.1 | 1863.2 |
| 62.5° | 1732.7 | 1720.5 | 1710.3 | 1700.1 | 1696.0 |
| 65° | 1565.5 | 1551.3 | 1539.0 | 1530.9 | 1528.8 |
| 67.5° | 1404.5 | 1380.0 | 1369.8 | 1363.7 | 1361.7 |
| 70° | 1227.2 | 1212.9 | 1200.7 | 1194.5 | 1194.5 |
| 72.5° | 1058.0 | 1043.7 | 1037.6 | 1029.4 | 1025.3 |
| 75° | 886.7 | 878.6 | 874.5 | 862.3 | 858.2 |
| 77.5° | 717.5 | 713.5 | 709.4 | 695.1 | 691.0 |
| 80° | 554.5 | 550.4 | 546.3 | 530.0 | 530.0 |
| 82.5° | 393.4 | 391.4 | 383.2 | 369.0 | 360.8 |
| 85° | 244.6 | 242.6 | 230.3 | 218.1 | 205.9 |
| 87.5° | 106.0 | 99.9 | 85.6 | 75.4 | 77.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)