

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: P257029

Luminaire Tested: **HGL-S-FR-30L940-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257029
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1708-204-1)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: HGL-S-FR-30L940-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS
Light Source: (336) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4825.9 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 8' x H: 0.01')
CIE Type: Direct

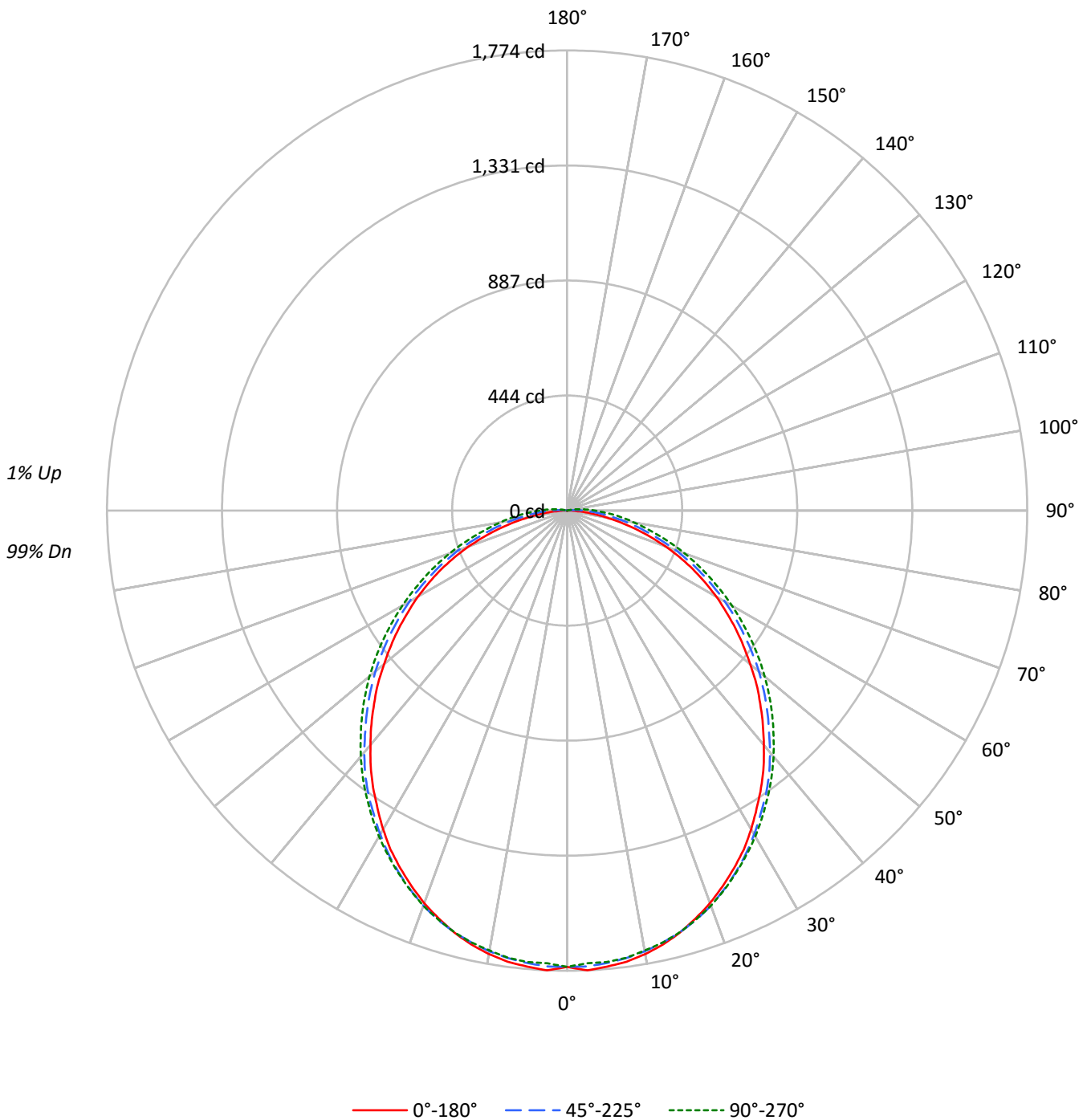
Input Watts (W): 44.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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 | 101 | 101 | 101 | 99 |
| 1 | 108 | 103 | 99 | 95 | 105 | 101 | 97 | 93 | 97 | 93 | 90 | 93 | 90 | 87 | 89 | 87 | 85 | 82 |
| 2 | 98 | 90 | 83 | 77 | 96 | 88 | 82 | 76 | 84 | 79 | 74 | 81 | 77 | 73 | 78 | 74 | 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 | 55 | 80 | 69 | 61 | 54 | 66 | 59 | 53 | 64 | 58 | 53 | 62 | 56 | 52 | 50 |
| 5 | 76 | 63 | 54 | 47 | 74 | 62 | 53 | 47 | 59 | 52 | 46 | 57 | 51 | 46 | 55 | 50 | 45 | 43 |
| 6 | 70 | 57 | 48 | 41 | 68 | 56 | 47 | 41 | 54 | 46 | 41 | 52 | 45 | 40 | 50 | 44 | 40 | 38 |
| 7 | 65 | 51 | 43 | 36 | 63 | 50 | 42 | 36 | 49 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 35 | 33 |
| 8 | 60 | 47 | 38 | 33 | 59 | 46 | 38 | 32 | 45 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 32 | 30 |
| 9 | 56 | 43 | 35 | 29 | 55 | 42 | 35 | 29 | 41 | 34 | 29 | 40 | 34 | 29 | 39 | 33 | 29 | 27 |
| 10 | 53 | 40 | 32 | 27 | 52 | 39 | 32 | 27 | 38 | 31 | 26 | 37 | 31 | 26 | 36 | 30 | 26 | 24 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 10326 | 10326 | 10326 |
| 5° | 10401 | 10292 | 10254 |
| 10° | 10346 | 10227 | 10188 |
| 15° | 10231 | 10139 | 10107 |
| 20° | 10056 | 10012 | 9969 |
| 25° | 9850 | 9819 | 9785 |
| 30° | 9611 | 9597 | 9594 |
| 35° | 9337 | 9367 | 9377 |
| 40° | 9032 | 9081 | 9153 |
| 45° | 8728 | 8778 | 8898 |
| 50° | 8398 | 8495 | 8633 |
| 55° | 8094 | 8146 | 8326 |
| 60° | 7791 | 7827 | 8011 |
| 65° | 7408 | 7434 | 7688 |
| 70° | 6893 | 7015 | 7375 |
| 75° | 6157 | 6464 | 7023 |
| 80° | 5194 | 6103 | 7058 |
| 85° | 4171 | 6288 | 7920 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 166.2 | 3.4 |
| 10°-20° | 472.9 | 9.8 |
| 20°-30° | 704.3 | 14.6 |
| 30°-40° | 828.9 | 17.2 |
| 40°-50° | 837.2 | 17.3 |
| 50°-60° | 741.9 | 15.4 |
| 60°-70° | 564.5 | 11.7 |
| 70°-80° | 338.9 | 7.0 |
| 80°-90° | 139.3 | 2.9 |
| 90°-100° | 30.3 | 0.6 |
| 100°-110° | 1.5 | 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° | 1343.4 | 27.8 |
| 0°-40° | 2172.3 | 45.0 |
| 0°-60° | 3751.5 | 77.7 |
| 0°-90° | 4794.1 | 99.3 |
| 90°-120° | 31.8 | 0.7 |
| 90°-150° | 31.8 | 0.7 |
| 90°-180° | 32.0 | 0.7 |
| 0°-180° | 4825.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1759 | 1759 | 1759 | 1759 | 1759 | |
| 5° | 1765 | 1745 | 1751 | 1748 | 1746 | 168 |
| 15° | 1684 | 1667 | 1682 | 1681 | 1682 | 474 |
| 25° | 1521 | 1509 | 1538 | 1537 | 1541 | 701 |
| 35° | 1304 | 1299 | 1336 | 1342 | 1348 | 815 |
| 45° | 1052 | 1057 | 1091 | 1106 | 1118 | 812 |
| 55° | 792 | 803 | 832 | 853 | 864 | 708 |
| 65° | 535 | 542 | 572 | 594 | 605 | 529 |
| 75° | 273 | 285 | 319 | 351 | 360 | 290 |
| 85° | 63 | 83 | 127 | 164 | 176 | 71 |
| 90° | 2 | 26 | 63 | 95 | 107 | 4 |
| 95° | 0 | 2 | 23 | 46 | 55 | 0 |
| 105° | 2 | 0 | 0 | 0 | 2 | 1 |
| 115° | 0 | 0 | 0 | 0 | 0 | 0 |
| 125° | 0 | 0 | 0 | 0 | 0 | 0 |
| 135° | 0 | 0 | 0 | 0 | 0 | 0 |
| 145° | 0 | 0 | 0 | 0 | 0 | 0 |
| 155° | 0 | 0 | 0 | 0 | 0 | 0 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P257029

CATALOG NUMBER: HGL-S-FR-30L940-UNV-8

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1758.8 | 1758.8 | 1758.8 | 1758.8 | 1758.8 |
| 2.5° | 1774.1 | 1754.2 | 1758.8 | 1755.7 | 1746.5 |
| 5° | 1764.9 | 1745.0 | 1751.1 | 1748.1 | 1746.5 |
| 7.5° | 1754.2 | 1734.3 | 1740.4 | 1737.3 | 1738.9 |
| 10° | 1735.8 | 1715.9 | 1725.1 | 1722.0 | 1722.0 |
| 12.5° | 1712.8 | 1696.0 | 1705.2 | 1702.1 | 1705.2 |
| 15° | 1683.7 | 1666.9 | 1682.2 | 1680.6 | 1682.2 |
| 17.5° | 1648.5 | 1633.2 | 1654.6 | 1651.5 | 1653.1 |
| 20° | 1610.2 | 1594.9 | 1620.9 | 1614.8 | 1620.9 |
| 22.5° | 1567.3 | 1555.0 | 1581.1 | 1576.5 | 1582.6 |
| 25° | 1521.3 | 1509.1 | 1538.2 | 1536.6 | 1541.2 |
| 27.5° | 1473.8 | 1463.1 | 1492.2 | 1495.3 | 1496.8 |
| 30° | 1418.7 | 1411.0 | 1441.6 | 1446.2 | 1450.8 |
| 32.5° | 1360.5 | 1355.9 | 1388.0 | 1395.7 | 1400.3 |
| 35° | 1303.8 | 1299.2 | 1335.9 | 1342.1 | 1348.2 |
| 37.5° | 1244.0 | 1241.0 | 1279.3 | 1285.4 | 1294.6 |
| 40° | 1179.7 | 1181.2 | 1216.4 | 1227.2 | 1237.9 |
| 42.5° | 1116.9 | 1119.9 | 1152.1 | 1167.4 | 1178.1 |
| 45° | 1052.5 | 1057.1 | 1090.8 | 1106.1 | 1118.4 |
| 47.5° | 989.7 | 994.3 | 1028.0 | 1044.9 | 1057.1 |
| 50° | 920.8 | 931.5 | 965.2 | 980.5 | 994.3 |
| 52.5° | 856.4 | 867.1 | 897.8 | 917.7 | 929.9 |
| 55° | 792.1 | 802.8 | 831.9 | 853.3 | 864.1 |
| 57.5° | 726.2 | 741.5 | 767.6 | 789.0 | 799.7 |
| 60° | 664.9 | 674.1 | 703.2 | 724.7 | 733.8 |
| 62.5° | 599.0 | 608.2 | 635.8 | 661.8 | 668.0 |
| 65° | 534.7 | 542.3 | 571.5 | 594.4 | 605.2 |
| 67.5° | 468.8 | 478.0 | 507.1 | 531.6 | 542.3 |
| 70° | 402.9 | 412.1 | 444.3 | 471.9 | 481.1 |
| 72.5° | 335.5 | 346.2 | 378.4 | 410.6 | 421.3 |
| 75° | 272.7 | 285.0 | 318.7 | 350.8 | 360.0 |
| 77.5° | 211.4 | 226.7 | 263.5 | 297.2 | 309.5 |
| 80° | 154.7 | 173.1 | 213.0 | 249.7 | 260.4 |
| 82.5° | 105.7 | 125.6 | 167.0 | 205.3 | 219.1 |
| 85° | 62.8 | 82.7 | 127.2 | 163.9 | 176.2 |
| 87.5° | 27.6 | 49.0 | 91.9 | 127.2 | 137.9 |
| 90° | 1.5 | 26.0 | 62.8 | 95.0 | 107.2 |
| 92.5° | 0.0 | 10.7 | 39.8 | 67.4 | 79.7 |
| 95° | 0.0 | 1.5 | 23.0 | 46.0 | 55.2 |
| 97.5° | 0.0 | 0.0 | 10.7 | 27.6 | 35.2 |
| 100° | 0.0 | 0.0 | 1.5 | 13.8 | 19.9 |
| 102.5° | 1.5 | 0.0 | 0.0 | 3.1 | 7.7 |
| 105° | 1.5 | 0.0 | 0.0 | 0.0 | 1.5 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-----|-------|-----|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)