

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: P257034

Luminaire Tested: **HGL-S-FR-30L930-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257034
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-30L930-UNV-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS
Light Source: (504) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6998.9 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 12' x H: 0.01')
CIE Type: Direct

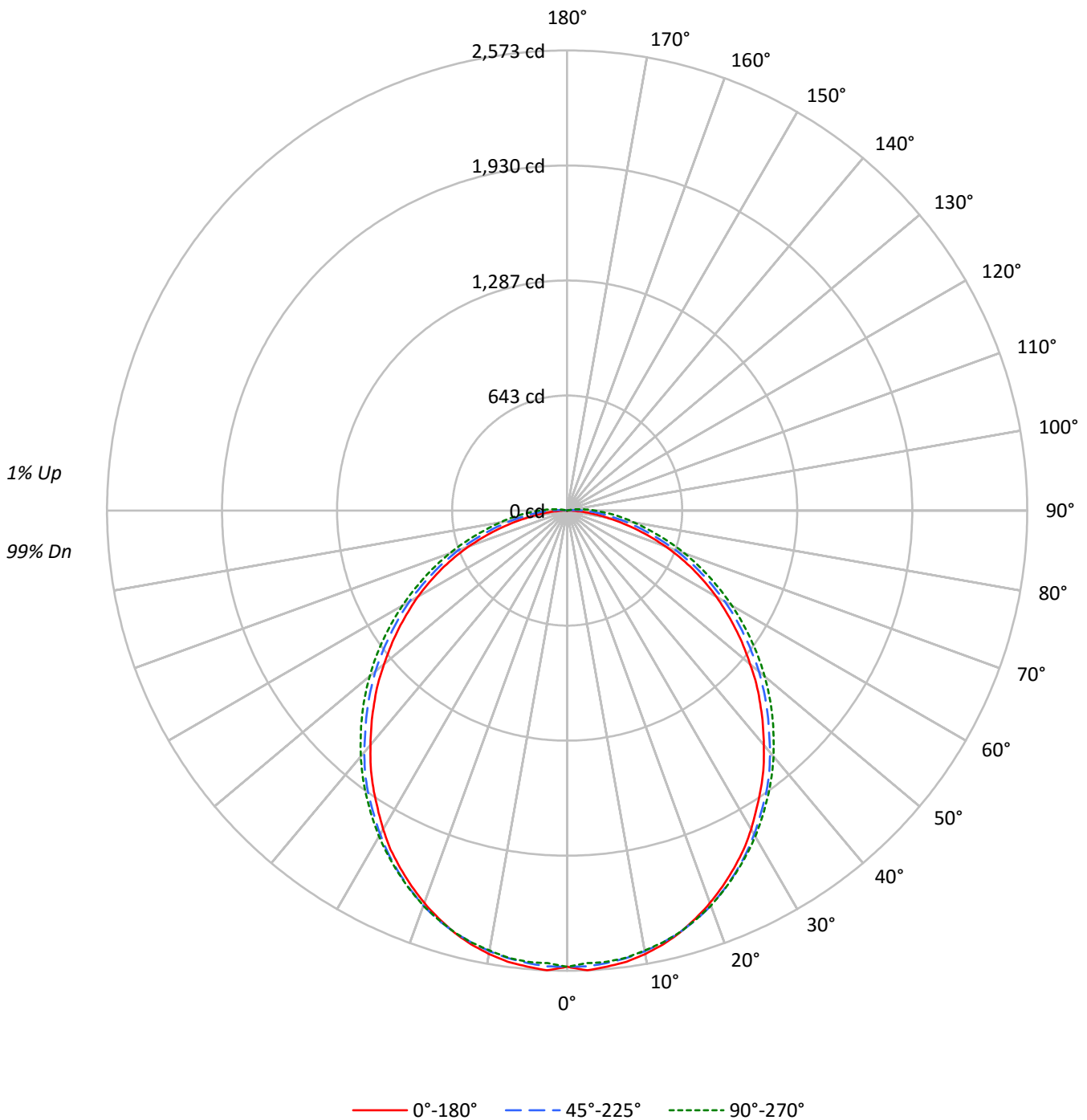
Input Watts (W): 65.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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° | 9984 | 9984 | 9984 |
| 5° | 10056 | 9951 | 9914 |
| 10° | 10004 | 9889 | 9850 |
| 15° | 9893 | 9803 | 9772 |
| 20° | 9724 | 9681 | 9638 |
| 25° | 9525 | 9495 | 9461 |
| 30° | 9295 | 9281 | 9276 |
| 35° | 9030 | 9058 | 9066 |
| 40° | 8735 | 8783 | 8849 |
| 45° | 8442 | 8490 | 8603 |
| 50° | 8123 | 8216 | 8347 |
| 55° | 7830 | 7879 | 8050 |
| 60° | 7538 | 7571 | 7746 |
| 65° | 7169 | 7191 | 7433 |
| 70° | 6673 | 6787 | 7130 |
| 75° | 5963 | 6256 | 6790 |
| 80° | 5034 | 5907 | 6825 |
| 85° | 4053 | 6092 | 7656 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 241.1 | 3.4 |
| 10°-20° | 685.9 | 9.8 |
| 20°-30° | 1021.4 | 14.6 |
| 30°-40° | 1202.1 | 17.2 |
| 40°-50° | 1214.2 | 17.3 |
| 50°-60° | 1076.0 | 15.4 |
| 60°-70° | 818.7 | 11.7 |
| 70°-80° | 491.5 | 7.0 |
| 80°-90° | 202.0 | 2.9 |
| 90°-100° | 44.0 | 0.6 |
| 100°-110° | 2.1 | 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° | 1948.3 | 27.8 |
| 0°-40° | 3150.5 | 45.0 |
| 0°-60° | 5440.7 | 77.7 |
| 0°-90° | 6952.8 | 99.3 |
| 90°-120° | 46.1 | 0.7 |
| 90°-150° | 46.1 | 0.7 |
| 90°-180° | 46.0 | 0.7 |
| 0°-180° | 6998.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2551 | 2551 | 2551 | 2551 | 2551 | |
| 5° | 2560 | 2531 | 2540 | 2535 | 2533 | 243 |
| 15° | 2442 | 2417 | 2440 | 2437 | 2440 | 688 |
| 25° | 2206 | 2188 | 2231 | 2228 | 2235 | 1016 |
| 35° | 1891 | 1884 | 1938 | 1946 | 1955 | 1182 |
| 45° | 1526 | 1533 | 1582 | 1604 | 1622 | 1178 |
| 55° | 1149 | 1164 | 1206 | 1238 | 1253 | 1027 |
| 65° | 775 | 786 | 829 | 862 | 878 | 766 |
| 75° | 396 | 413 | 462 | 509 | 522 | 420 |
| 85° | 91 | 120 | 184 | 238 | 256 | 102 |
| 90° | 2 | 38 | 91 | 138 | 156 | 6 |
| 95° | 0 | 2 | 33 | 67 | 80 | 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 |



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CATALOG NUMBER: HGL-S-FR-30L930-UNV-12

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2550.7 | 2550.7 | 2550.7 | 2550.7 | 2550.7 |
| 2.5° | 2572.9 | 2544.0 | 2550.7 | 2546.3 | 2532.9 |
| 5° | 2559.6 | 2530.7 | 2539.6 | 2535.2 | 2532.9 |
| 7.5° | 2544.0 | 2515.2 | 2524.1 | 2519.6 | 2521.8 |
| 10° | 2517.4 | 2488.5 | 2501.8 | 2497.4 | 2497.4 |
| 12.5° | 2484.1 | 2459.6 | 2472.9 | 2468.5 | 2472.9 |
| 15° | 2441.8 | 2417.4 | 2439.6 | 2437.4 | 2439.6 |
| 17.5° | 2390.7 | 2368.5 | 2399.6 | 2395.2 | 2397.4 |
| 20° | 2335.2 | 2313.0 | 2350.7 | 2341.9 | 2350.7 |
| 22.5° | 2273.0 | 2255.2 | 2293.0 | 2286.3 | 2295.2 |
| 25° | 2206.3 | 2188.5 | 2230.8 | 2228.5 | 2235.2 |
| 27.5° | 2137.4 | 2121.9 | 2164.1 | 2168.6 | 2170.8 |
| 30° | 2057.5 | 2046.3 | 2090.8 | 2097.5 | 2104.1 |
| 32.5° | 1973.0 | 1966.4 | 2013.0 | 2024.1 | 2030.8 |
| 35° | 1890.8 | 1884.2 | 1937.5 | 1946.4 | 1955.3 |
| 37.5° | 1804.2 | 1799.7 | 1855.3 | 1864.2 | 1877.5 |
| 40° | 1710.8 | 1713.1 | 1764.2 | 1779.7 | 1795.3 |
| 42.5° | 1619.7 | 1624.2 | 1670.9 | 1693.1 | 1708.6 |
| 45° | 1526.4 | 1533.1 | 1582.0 | 1604.2 | 1622.0 |
| 47.5° | 1435.3 | 1442.0 | 1490.9 | 1515.3 | 1533.1 |
| 50° | 1335.3 | 1350.9 | 1399.8 | 1422.0 | 1442.0 |
| 52.5° | 1242.0 | 1257.6 | 1302.0 | 1330.9 | 1348.7 |
| 55° | 1148.7 | 1164.3 | 1206.5 | 1237.6 | 1253.1 |
| 57.5° | 1053.2 | 1075.4 | 1113.2 | 1144.3 | 1159.8 |
| 60° | 964.3 | 977.6 | 1019.8 | 1050.9 | 1064.3 |
| 62.5° | 868.8 | 882.1 | 922.1 | 959.9 | 968.7 |
| 65° | 775.4 | 786.5 | 828.8 | 862.1 | 877.6 |
| 67.5° | 679.9 | 693.2 | 735.4 | 771.0 | 786.5 |
| 70° | 584.4 | 597.7 | 644.3 | 684.3 | 697.7 |
| 72.5° | 486.6 | 502.1 | 548.8 | 595.5 | 611.0 |
| 75° | 395.5 | 413.3 | 462.2 | 508.8 | 522.1 |
| 77.5° | 306.6 | 328.8 | 382.2 | 431.0 | 448.8 |
| 80° | 224.4 | 251.1 | 308.8 | 362.2 | 377.7 |
| 82.5° | 153.3 | 182.2 | 242.2 | 297.7 | 317.7 |
| 85° | 91.1 | 120.0 | 184.4 | 237.7 | 255.5 |
| 87.5° | 40.0 | 71.1 | 133.3 | 184.4 | 200.0 |
| 90° | 2.2 | 37.8 | 91.1 | 137.8 | 155.5 |
| 92.5° | 0.0 | 15.6 | 57.8 | 97.8 | 115.5 |
| 95° | 0.0 | 2.2 | 33.3 | 66.7 | 80.0 |
| 97.5° | 0.0 | 0.0 | 15.6 | 40.0 | 51.1 |
| 100° | 0.0 | 0.0 | 2.2 | 20.0 | 28.9 |
| 102.5° | 2.2 | 0.0 | 0.0 | 4.4 | 11.1 |
| 105° | 2.2 | 0.0 | 0.0 | 0.0 | 2.2 |
| 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)