

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: P256983

Luminaire Tested: **HGL-S-BF-40L940-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256983
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1708-204-8)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: HGL-S-BF-40L940-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS
Light Source: (336) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5183.0 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.25 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 8' x H: 0.01')
CIE Type: Direct

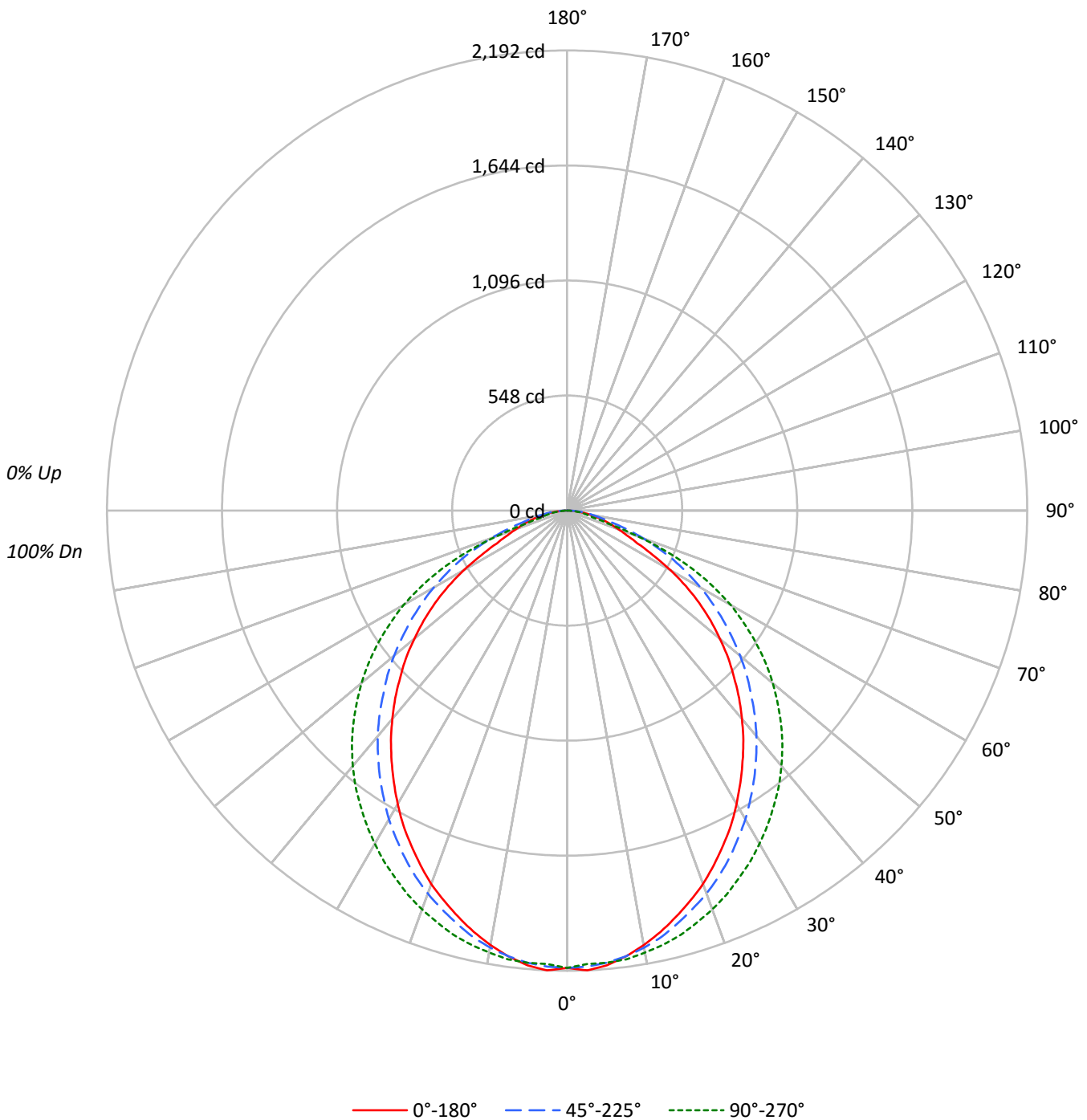
Input Watts (W): 58
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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 | | | | | 100 | | | |
| 1 | 110 | 105 | 102 | 98 | 107 | 103 | 100 | 96 | 99 | 96 | 93 | 95 | 93 | 91 | 92 | 90 | 88 | | | | | 86 | | | | |
| 2 | 101 | 93 | 87 | 81 | 98 | 91 | 85 | 80 | 88 | 83 | 78 | 84 | 80 | 77 | 81 | 78 | 75 | | | | | 73 | | | | |
| 3 | 92 | 82 | 75 | 68 | 90 | 81 | 74 | 68 | 78 | 72 | 67 | 75 | 70 | 66 | 73 | 68 | 64 | | | | | 62 | | | | |
| 4 | 85 | 73 | 65 | 59 | 82 | 72 | 64 | 58 | 70 | 63 | 57 | 67 | 61 | 57 | 65 | 60 | 56 | | | | | 54 | | | | |
| 5 | 78 | 66 | 57 | 51 | 76 | 65 | 57 | 51 | 63 | 56 | 50 | 61 | 54 | 50 | 59 | 53 | 49 | | | | | 47 | | | | |
| 6 | 72 | 59 | 51 | 45 | 70 | 59 | 50 | 45 | 57 | 50 | 44 | 55 | 49 | 44 | 54 | 48 | 43 | | | | | 41 | | | | |
| 7 | 67 | 54 | 46 | 40 | 65 | 53 | 45 | 40 | 52 | 45 | 39 | 50 | 44 | 39 | 49 | 43 | 39 | | | | | 37 | | | | |
| 8 | 63 | 49 | 41 | 36 | 61 | 49 | 41 | 35 | 47 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | | | | | 33 | | | | |
| 9 | 59 | 46 | 38 | 32 | 57 | 45 | 37 | 32 | 44 | 37 | 32 | 43 | 36 | 32 | 42 | 36 | 32 | | | | | 30 | | | | |
| 10 | 55 | 42 | 34 | 29 | 54 | 42 | 34 | 29 | 41 | 34 | 29 | 40 | 33 | 29 | 39 | 33 | 29 | | | | | 27 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 12788 | 12788 | 12788 |
| 5° | 12812 | 12707 | 12694 |
| 10° | 12528 | 12532 | 12648 |
| 15° | 12173 | 12268 | 12567 |
| 20° | 11822 | 11990 | 12433 |
| 25° | 11385 | 11662 | 12274 |
| 30° | 10934 | 11306 | 12120 |
| 35° | 10437 | 10895 | 11937 |
| 40° | 9913 | 10476 | 11740 |
| 45° | 9323 | 9968 | 11467 |
| 50° | 8660 | 9470 | 11102 |
| 55° | 7856 | 8866 | 10581 |
| 60° | 6680 | 8178 | 9818 |
| 65° | 5118 | 7311 | 8416 |
| 70° | 4431 | 6085 | 5446 |
| 75° | 4080 | 4519 | 2546 |
| 80° | 3639 | 3625 | 2176 |
| 85° | 3068 | 3075 | 1623 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 204.7 | 3.9 |
| 10°-20° | 574.0 | 11.1 |
| 20°-30° | 842.0 | 16.2 |
| 30°-40° | 976.5 | 18.8 |
| 40°-50° | 966.8 | 18.7 |
| 50°-60° | 815.8 | 15.7 |
| 60°-70° | 528.7 | 10.2 |
| 70°-80° | 213.9 | 4.1 |
| 80°-90° | 59.3 | 1.1 |
| 90°-100° | 1.4 | 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° | 1620.8 | 31.3 |
| 0°-40° | 2597.2 | 50.1 |
| 0°-60° | 4379.8 | 84.5 |
| 0°-90° | 5181.7 | 100.0 |
| 90°-120° | 1.4 | 0.0 |
| 90°-150° | 1.4 | 0.0 |
| 90°-180° | 1.0 | 0.0 |
| 0°-180° | 5183.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2178 | 2178 | 2178 | 2178 | 2178 | |
| 5° | 2174 | 2152 | 2162 | 2160 | 2162 | 205 |
| 15° | 2003 | 1993 | 2036 | 2072 | 2092 | 564 |
| 25° | 1758 | 1758 | 1827 | 1883 | 1933 | 810 |
| 35° | 1457 | 1467 | 1554 | 1636 | 1716 | 911 |
| 45° | 1124 | 1148 | 1239 | 1343 | 1441 | 868 |
| 55° | 769 | 809 | 905 | 1012 | 1098 | 683 |
| 65° | 369 | 428 | 562 | 630 | 662 | 383 |
| 75° | 181 | 189 | 223 | 183 | 130 | 192 |
| 85° | 46 | 54 | 62 | 50 | 36 | 51 |
| 90° | 0 | 8 | 14 | 10 | 0 | 3 |
| 95° | 0 | 0 | 0 | 0 | 0 | 0 |
| 105° | 0 | 0 | 0 | 0 | 0 | 0 |
| 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: P256983

CATALOG NUMBER: HGL-S-BF-40L940-UNV-8

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2178.1 | 2178.1 | 2178.1 | 2178.1 | 2178.1 |
| 2.5° | 2192.1 | 2168.0 | 2174.1 | 2170.0 | 2162.0 |
| 5° | 2174.1 | 2152.0 | 2162.0 | 2160.0 | 2162.0 |
| 7.5° | 2141.9 | 2123.9 | 2141.9 | 2148.0 | 2156.0 |
| 10° | 2101.8 | 2087.7 | 2113.8 | 2127.9 | 2137.9 |
| 12.5° | 2055.6 | 2043.6 | 2079.7 | 2101.8 | 2117.8 |
| 15° | 2003.4 | 1993.4 | 2035.5 | 2071.7 | 2091.7 |
| 17.5° | 1949.2 | 1941.2 | 1989.4 | 2035.5 | 2057.6 |
| 20° | 1893.0 | 1885.0 | 1941.2 | 1987.4 | 2021.5 |
| 22.5° | 1826.8 | 1822.8 | 1887.0 | 1935.2 | 1981.3 |
| 25° | 1758.5 | 1758.5 | 1826.8 | 1883.0 | 1933.2 |
| 27.5° | 1690.3 | 1690.3 | 1762.5 | 1824.8 | 1887.0 |
| 30° | 1614.0 | 1620.0 | 1698.3 | 1766.5 | 1832.8 |
| 32.5° | 1535.7 | 1545.7 | 1626.0 | 1702.3 | 1776.6 |
| 35° | 1457.4 | 1467.4 | 1553.8 | 1636.1 | 1716.4 |
| 37.5° | 1379.1 | 1393.2 | 1479.5 | 1565.8 | 1656.1 |
| 40° | 1294.8 | 1312.9 | 1403.2 | 1493.5 | 1587.9 |
| 42.5° | 1212.5 | 1232.6 | 1322.9 | 1419.3 | 1517.6 |
| 45° | 1124.2 | 1148.3 | 1238.6 | 1343.0 | 1441.3 |
| 47.5° | 1041.9 | 1065.9 | 1160.3 | 1262.7 | 1361.0 |
| 50° | 949.5 | 979.6 | 1076.0 | 1182.4 | 1278.7 |
| 52.5° | 861.2 | 895.3 | 989.7 | 1098.1 | 1192.4 |
| 55° | 768.8 | 809.0 | 905.4 | 1011.7 | 1098.1 |
| 57.5° | 670.5 | 718.7 | 819.0 | 921.4 | 999.7 |
| 60° | 570.1 | 628.3 | 734.7 | 829.1 | 899.3 |
| 62.5° | 461.7 | 530.0 | 646.4 | 734.7 | 784.9 |
| 65° | 369.4 | 427.6 | 562.1 | 630.3 | 662.5 |
| 67.5° | 307.1 | 341.3 | 469.7 | 519.9 | 519.9 |
| 70° | 259.0 | 277.0 | 385.4 | 397.5 | 355.3 |
| 72.5° | 218.8 | 228.8 | 301.1 | 271.0 | 202.8 |
| 75° | 180.7 | 188.7 | 222.8 | 182.7 | 130.5 |
| 77.5° | 144.5 | 150.6 | 168.6 | 138.5 | 102.4 |
| 80° | 108.4 | 116.4 | 126.5 | 106.4 | 80.3 |
| 82.5° | 76.3 | 82.3 | 94.3 | 78.3 | 58.2 |
| 85° | 46.2 | 54.2 | 62.2 | 50.2 | 36.1 |
| 87.5° | 20.1 | 26.1 | 34.1 | 26.1 | 16.1 |
| 90° | 0.0 | 8.0 | 14.1 | 10.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 2.0 | 2.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)