

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: P256970

Luminaire Tested: **HGL-S-BF-60L835-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256970
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-60L835-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS
Light Source: (336) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10231.3 lumens
Efficiency: N/A
Efficacy: 108.3 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

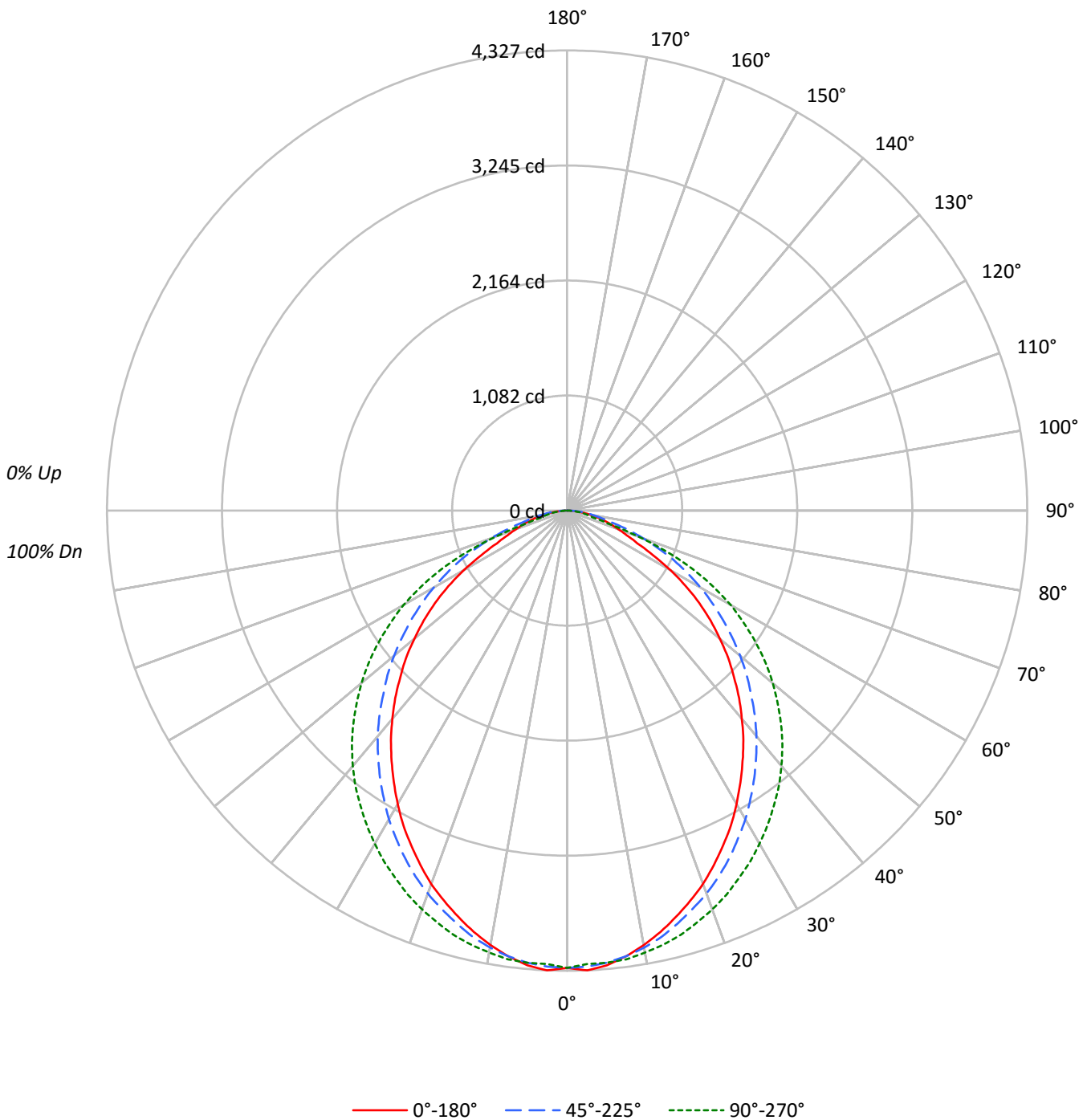
Input Watts (W): 94.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 102 | 102 | 102 | 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° | 25243 | 25243 | 25243 |
| 5° | 25290 | 25083 | 25057 |
| 10° | 24729 | 24738 | 24968 |
| 15° | 24031 | 24218 | 24808 |
| 20° | 23337 | 23668 | 24542 |
| 25° | 22475 | 23020 | 24228 |
| 30° | 21584 | 22319 | 23925 |
| 35° | 20602 | 21505 | 23564 |
| 40° | 19569 | 20679 | 23175 |
| 45° | 18403 | 19677 | 22636 |
| 50° | 17095 | 18694 | 21916 |
| 55° | 15508 | 17501 | 20886 |
| 60° | 13186 | 16143 | 19381 |
| 65° | 10102 | 14433 | 16613 |
| 70° | 8745 | 12013 | 10751 |
| 75° | 8052 | 8922 | 5025 |
| 80° | 7185 | 7155 | 4296 |
| 85° | 6050 | 6070 | 3205 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 404.1 | 3.9 |
| 10°-20° | 1133.2 | 11.1 |
| 20°-30° | 1662.1 | 16.2 |
| 30°-40° | 1927.5 | 18.8 |
| 40°-50° | 1908.4 | 18.7 |
| 50°-60° | 1610.3 | 15.7 |
| 60°-70° | 1043.6 | 10.2 |
| 70°-80° | 422.2 | 4.1 |
| 80°-90° | 117.1 | 1.1 |
| 90°-100° | 2.7 | 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° | 3199.4 | 31.3 |
| 0°-40° | 5126.9 | 50.1 |
| 0°-60° | 8645.7 | 84.5 |
| 0°-90° | 10228.6 | 100.0 |
| 90°-120° | 2.7 | 0.0 |
| 90°-150° | 2.7 | 0.0 |
| 90°-180° | 3.0 | 0.0 |
| 0°-180° | 10231.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 4300 | 4300 | 4300 | 4300 | 4300 | |
| 5° | 4292 | 4248 | 4268 | 4264 | 4268 | 405 |
| 15° | 3955 | 3935 | 4018 | 4090 | 4129 | 1114 |
| 25° | 3471 | 3471 | 3606 | 3717 | 3816 | 1598 |
| 35° | 2877 | 2897 | 3067 | 3230 | 3388 | 1799 |
| 45° | 2219 | 2267 | 2445 | 2651 | 2845 | 1713 |
| 55° | 1518 | 1597 | 1787 | 1997 | 2168 | 1349 |
| 65° | 729 | 844 | 1110 | 1244 | 1308 | 757 |
| 75° | 357 | 372 | 440 | 361 | 258 | 379 |
| 85° | 91 | 107 | 123 | 99 | 71 | 100 |
| 90° | 0 | 16 | 28 | 20 | 0 | 5 |
| 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: P256970

CATALOG NUMBER: HGL-S-BF-60L835-UNV-8

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 4299.5 | 4299.5 | 4299.5 | 4299.5 | 4299.5 |
| 2.5° | 4327.3 | 4279.7 | 4291.6 | 4283.7 | 4267.8 |
| 5° | 4291.6 | 4248.0 | 4267.8 | 4263.9 | 4267.8 |
| 7.5° | 4228.2 | 4192.5 | 4228.2 | 4240.1 | 4255.9 |
| 10° | 4148.9 | 4121.2 | 4172.7 | 4200.5 | 4220.3 |
| 12.5° | 4057.8 | 4034.0 | 4105.4 | 4148.9 | 4180.7 |
| 15° | 3954.8 | 3935.0 | 4018.2 | 4089.5 | 4129.1 |
| 17.5° | 3847.8 | 3831.9 | 3927.0 | 4018.2 | 4061.8 |
| 20° | 3736.8 | 3721.0 | 3831.9 | 3923.1 | 3990.4 |
| 22.5° | 3606.1 | 3598.1 | 3724.9 | 3820.0 | 3911.2 |
| 25° | 3471.3 | 3471.3 | 3606.1 | 3717.0 | 3816.1 |
| 27.5° | 3336.6 | 3336.6 | 3479.3 | 3602.1 | 3724.9 |
| 30° | 3186.0 | 3197.9 | 3352.4 | 3487.2 | 3617.9 |
| 32.5° | 3031.5 | 3051.3 | 3209.8 | 3360.4 | 3507.0 |
| 35° | 2876.9 | 2896.7 | 3067.1 | 3229.6 | 3388.1 |
| 37.5° | 2722.4 | 2750.1 | 2920.5 | 3090.9 | 3269.2 |
| 40° | 2555.9 | 2591.6 | 2769.9 | 2948.3 | 3134.5 |
| 42.5° | 2393.5 | 2433.1 | 2611.4 | 2801.6 | 2995.8 |
| 45° | 2219.1 | 2266.7 | 2445.0 | 2651.0 | 2845.2 |
| 47.5° | 2056.6 | 2104.2 | 2290.4 | 2492.5 | 2686.7 |
| 50° | 1874.4 | 1933.8 | 2124.0 | 2334.0 | 2524.2 |
| 52.5° | 1700.0 | 1767.4 | 1953.6 | 2167.6 | 2353.8 |
| 55° | 1517.7 | 1597.0 | 1787.2 | 1997.2 | 2167.6 |
| 57.5° | 1323.5 | 1418.6 | 1616.8 | 1818.9 | 1973.4 |
| 60° | 1125.4 | 1240.3 | 1450.3 | 1636.6 | 1775.3 |
| 62.5° | 911.4 | 1046.2 | 1276.0 | 1450.3 | 1549.4 |
| 65° | 729.1 | 844.1 | 1109.6 | 1244.3 | 1307.7 |
| 67.5° | 606.3 | 673.7 | 927.3 | 1026.3 | 1026.3 |
| 70° | 511.2 | 546.9 | 760.8 | 784.6 | 701.4 |
| 72.5° | 431.9 | 451.7 | 594.4 | 535.0 | 400.2 |
| 75° | 356.6 | 372.5 | 439.9 | 360.6 | 257.6 |
| 77.5° | 285.3 | 297.2 | 332.9 | 273.4 | 202.1 |
| 80° | 214.0 | 229.8 | 249.7 | 210.0 | 158.5 |
| 82.5° | 150.6 | 162.5 | 186.2 | 154.5 | 114.9 |
| 85° | 91.1 | 107.0 | 122.8 | 99.1 | 71.3 |
| 87.5° | 39.6 | 51.5 | 67.4 | 51.5 | 31.7 |
| 90° | 0.0 | 15.9 | 27.7 | 19.8 | 0.0 |
| 92.5° | 0.0 | 0.0 | 4.0 | 4.0 | 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)