

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: P256980

Luminaire Tested: **HGL-S-BF-60L930-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256980
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-60L930-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS
Light Source: (336) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7577.6 lumens
Efficiency: N/A
Efficacy: 80.2 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

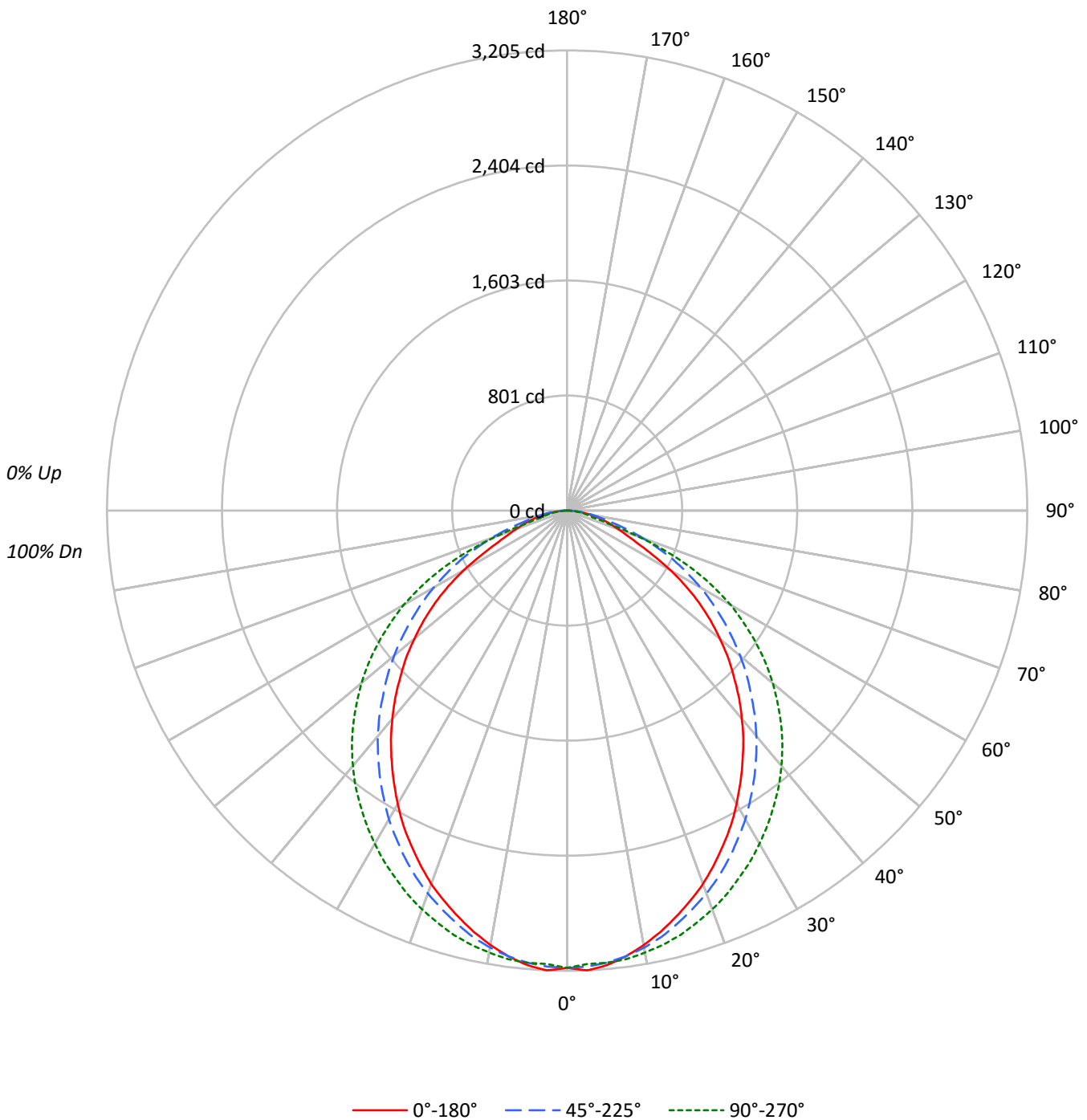
Input Watts (W): 94.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: HGL-S-BF-60L930-UNV-8

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° | 18696 | 18696 | 18696 |
| 5° | 18731 | 18578 | 18558 |
| 10° | 18315 | 18322 | 18492 |
| 15° | 17797 | 17937 | 18373 |
| 20° | 17284 | 17529 | 18177 |
| 25° | 16646 | 17049 | 17944 |
| 30° | 15985 | 16530 | 17719 |
| 35° | 15258 | 15928 | 17452 |
| 40° | 14493 | 15315 | 17164 |
| 45° | 13629 | 14573 | 16765 |
| 50° | 12661 | 13845 | 16232 |
| 55° | 11486 | 12961 | 15469 |
| 60° | 9766 | 11956 | 14354 |
| 65° | 7482 | 10689 | 12304 |
| 70° | 6477 | 8897 | 7963 |
| 75° | 5963 | 6608 | 3722 |
| 80° | 5321 | 5298 | 3182 |
| 85° | 4483 | 4498 | 2373 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 299.3 | 3.9 |
| 10°-20° | 839.2 | 11.1 |
| 20°-30° | 1231.0 | 16.2 |
| 30°-40° | 1427.6 | 18.8 |
| 40°-50° | 1413.4 | 18.7 |
| 50°-60° | 1192.7 | 15.7 |
| 60°-70° | 772.9 | 10.2 |
| 70°-80° | 312.7 | 4.1 |
| 80°-90° | 86.8 | 1.1 |
| 90°-100° | 2.0 | 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° | 2369.5 | 31.3 |
| 0°-40° | 3797.1 | 50.1 |
| 0°-60° | 6403.2 | 84.5 |
| 0°-90° | 7575.6 | 100.0 |
| 90°-120° | 2.0 | 0.0 |
| 90°-150° | 2.0 | 0.0 |
| 90°-180° | 2.0 | 0.0 |
| 0°-180° | 7577.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 3184 | 3184 | 3184 | 3184 | 3184 | |
| 5° | 3178 | 3146 | 3161 | 3158 | 3161 | 300 |
| 15° | 2929 | 2914 | 2976 | 3029 | 3058 | 825 |
| 25° | 2571 | 2571 | 2671 | 2753 | 2826 | 1184 |
| 35° | 2131 | 2145 | 2272 | 2392 | 2509 | 1332 |
| 45° | 1644 | 1679 | 1811 | 1963 | 2107 | 1269 |
| 55° | 1124 | 1183 | 1324 | 1479 | 1605 | 999 |
| 65° | 540 | 625 | 822 | 922 | 968 | 560 |
| 75° | 264 | 276 | 326 | 267 | 191 | 281 |
| 85° | 68 | 79 | 91 | 73 | 53 | 74 |
| 90° | 0 | 12 | 20 | 15 | 0 | 4 |
| 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: P256980

CATALOG NUMBER: HGL-S-BF-60L930-UNV-8

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 3184.3 | 3184.3 | 3184.3 | 3184.3 | 3184.3 |
| 2.5° | 3204.9 | 3169.7 | 3178.5 | 3172.6 | 3160.9 |
| 5° | 3178.5 | 3146.2 | 3160.9 | 3157.9 | 3160.9 |
| 7.5° | 3131.5 | 3105.1 | 3131.5 | 3140.3 | 3152.1 |
| 10° | 3072.8 | 3052.3 | 3090.4 | 3111.0 | 3125.6 |
| 12.5° | 3005.3 | 2987.7 | 3040.5 | 3072.8 | 3096.3 |
| 15° | 2929.0 | 2914.3 | 2976.0 | 3028.8 | 3058.1 |
| 17.5° | 2849.8 | 2838.0 | 2908.5 | 2976.0 | 3008.2 |
| 20° | 2767.6 | 2755.8 | 2838.0 | 2905.5 | 2955.4 |
| 22.5° | 2670.7 | 2664.9 | 2758.8 | 2829.2 | 2896.7 |
| 25° | 2571.0 | 2571.0 | 2670.7 | 2752.9 | 2826.3 |
| 27.5° | 2471.2 | 2471.2 | 2576.8 | 2667.8 | 2758.8 |
| 30° | 2359.6 | 2368.4 | 2482.9 | 2582.7 | 2679.5 |
| 32.5° | 2245.2 | 2259.9 | 2377.2 | 2488.8 | 2597.4 |
| 35° | 2130.7 | 2145.4 | 2271.6 | 2391.9 | 2509.3 |
| 37.5° | 2016.3 | 2036.8 | 2163.0 | 2289.2 | 2421.3 |
| 40° | 1893.0 | 1919.4 | 2051.5 | 2183.5 | 2321.5 |
| 42.5° | 1772.7 | 1802.0 | 1934.1 | 2075.0 | 2218.8 |
| 45° | 1643.5 | 1678.7 | 1810.8 | 1963.4 | 2107.2 |
| 47.5° | 1523.2 | 1558.4 | 1696.4 | 1846.0 | 1989.8 |
| 50° | 1388.2 | 1432.2 | 1573.1 | 1728.6 | 1869.5 |
| 52.5° | 1259.1 | 1309.0 | 1446.9 | 1605.4 | 1743.3 |
| 55° | 1124.1 | 1182.8 | 1323.6 | 1479.2 | 1605.4 |
| 57.5° | 980.2 | 1050.7 | 1197.4 | 1347.1 | 1461.6 |
| 60° | 833.5 | 918.6 | 1074.2 | 1212.1 | 1314.8 |
| 62.5° | 675.0 | 774.8 | 945.0 | 1074.2 | 1147.5 |
| 65° | 540.0 | 625.1 | 821.8 | 921.6 | 968.5 |
| 67.5° | 449.0 | 498.9 | 686.8 | 760.1 | 760.1 |
| 70° | 378.6 | 405.0 | 563.5 | 581.1 | 519.5 |
| 72.5° | 319.9 | 334.6 | 440.2 | 396.2 | 296.4 |
| 75° | 264.1 | 275.9 | 325.8 | 267.1 | 190.8 |
| 77.5° | 211.3 | 220.1 | 246.5 | 202.5 | 149.7 |
| 80° | 158.5 | 170.2 | 184.9 | 155.5 | 117.4 |
| 82.5° | 111.5 | 120.3 | 137.9 | 114.5 | 85.1 |
| 85° | 67.5 | 79.2 | 91.0 | 73.4 | 52.8 |
| 87.5° | 29.3 | 38.2 | 49.9 | 38.2 | 23.5 |
| 90° | 0.0 | 11.7 | 20.5 | 14.7 | 0.0 |
| 92.5° | 0.0 | 0.0 | 2.9 | 2.9 | 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)