

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: P256971

Luminaire Tested: **HGL-S-BF-80L835-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256971
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-80L835-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: 13828.3 lumens
Efficiency: N/A
Efficacy: 98.1 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

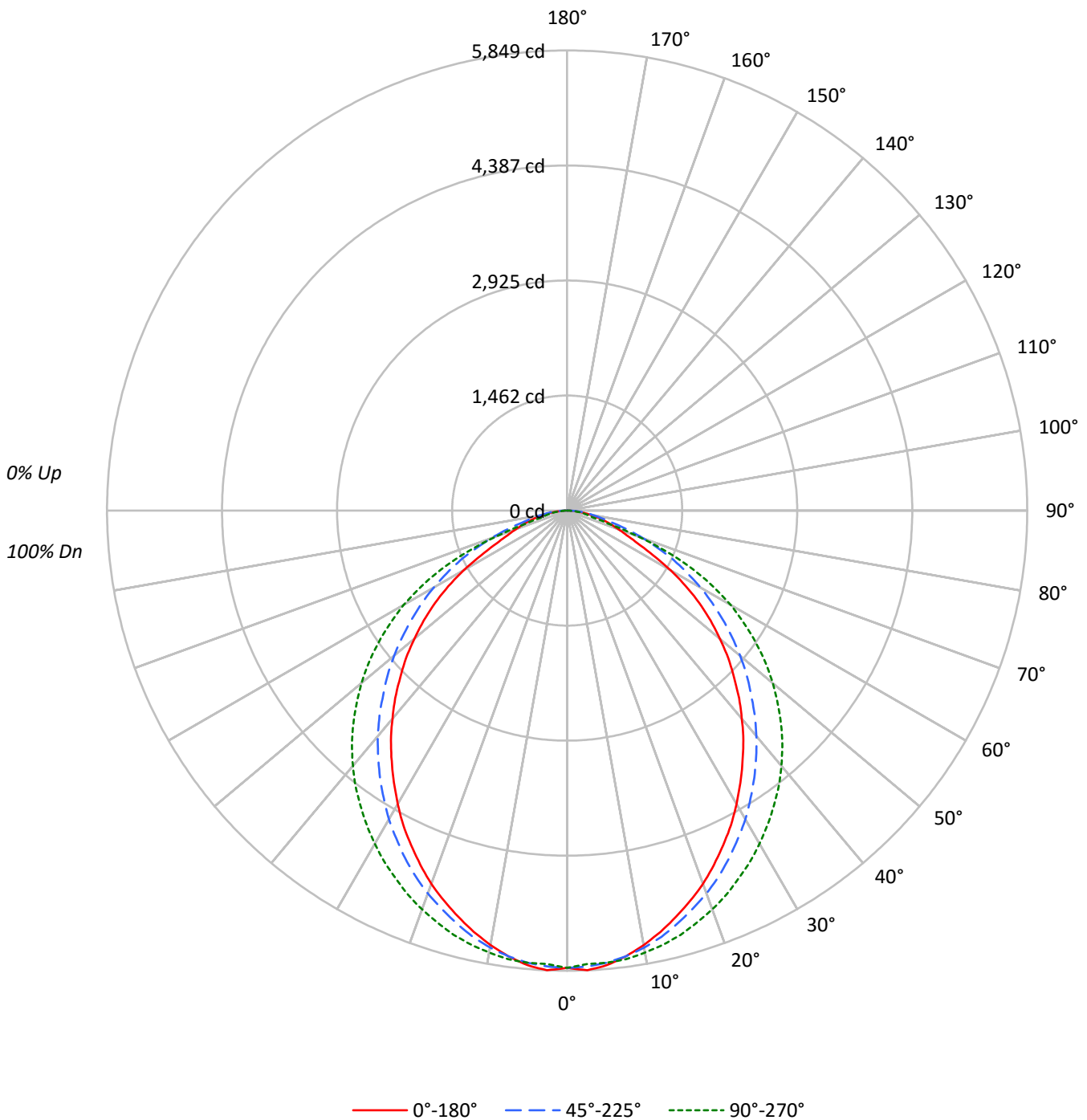
Input Watts (W): 141
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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° | 34118 | 34118 | 34118 |
| 5° | 34182 | 33902 | 33866 |
| 10° | 33424 | 33436 | 33746 |
| 15° | 32478 | 32732 | 33530 |
| 20° | 31541 | 31990 | 33171 |
| 25° | 30376 | 31113 | 32746 |
| 30° | 29172 | 30165 | 32336 |
| 35° | 27845 | 29066 | 31848 |
| 40° | 26449 | 27949 | 31323 |
| 45° | 24873 | 26594 | 30595 |
| 50° | 23105 | 25265 | 29622 |
| 55° | 20960 | 23653 | 28229 |
| 60° | 17823 | 21818 | 26195 |
| 65° | 13654 | 19506 | 22453 |
| 70° | 11820 | 16236 | 14531 |
| 75° | 10883 | 12058 | 6791 |
| 80° | 9709 | 9668 | 5806 |
| 85° | 8182 | 8206 | 4333 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 546.2 | 3.9 |
| 10°-20° | 1531.5 | 11.1 |
| 20°-30° | 2246.5 | 16.2 |
| 30°-40° | 2605.2 | 18.8 |
| 40°-50° | 2579.3 | 18.7 |
| 50°-60° | 2176.5 | 15.7 |
| 60°-70° | 1410.5 | 10.2 |
| 70°-80° | 570.6 | 4.1 |
| 80°-90° | 158.3 | 1.1 |
| 90°-100° | 3.7 | 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° | 4324.2 | 31.3 |
| 0°-40° | 6929.3 | 50.1 |
| 0°-60° | 11685.2 | 84.5 |
| 0°-90° | 13824.6 | 100.0 |
| 90°-120° | 3.7 | 0.0 |
| 90°-150° | 3.7 | 0.0 |
| 90°-180° | 4.0 | 0.0 |
| 0°-180° | 13828.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 5811 | 5811 | 5811 | 5811 | 5811 | |
| 5° | 5800 | 5741 | 5768 | 5763 | 5768 | 547 |
| 15° | 5345 | 5318 | 5431 | 5527 | 5581 | 1506 |
| 25° | 4692 | 4692 | 4874 | 5024 | 5158 | 2160 |
| 35° | 3888 | 3915 | 4145 | 4365 | 4579 | 2431 |
| 45° | 2999 | 3064 | 3304 | 3583 | 3846 | 2315 |
| 55° | 2051 | 2158 | 2416 | 2699 | 2930 | 1823 |
| 65° | 986 | 1141 | 1500 | 1682 | 1767 | 1023 |
| 75° | 482 | 503 | 594 | 487 | 348 | 512 |
| 85° | 123 | 145 | 166 | 134 | 96 | 135 |
| 90° | 0 | 21 | 38 | 27 | 0 | 7 |
| 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: P256971

CATALOG NUMBER: HGL-S-BF-80L835-UNV-8

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 5811.1 | 5811.1 | 5811.1 | 5811.1 | 5811.1 |
| 2.5° | 5848.6 | 5784.3 | 5800.4 | 5789.6 | 5768.2 |
| 5° | 5800.4 | 5741.4 | 5768.2 | 5762.9 | 5768.2 |
| 7.5° | 5714.7 | 5666.5 | 5714.7 | 5730.7 | 5752.2 |
| 10° | 5607.6 | 5570.1 | 5639.7 | 5677.2 | 5704.0 |
| 12.5° | 5484.4 | 5452.2 | 5548.6 | 5607.6 | 5650.4 |
| 15° | 5345.1 | 5318.3 | 5430.8 | 5527.2 | 5580.8 |
| 17.5° | 5200.5 | 5179.1 | 5307.6 | 5430.8 | 5489.7 |
| 20° | 5050.5 | 5029.1 | 5179.1 | 5302.3 | 5393.3 |
| 22.5° | 4873.8 | 4863.1 | 5034.5 | 5163.0 | 5286.2 |
| 25° | 4691.7 | 4691.7 | 4873.8 | 5023.8 | 5157.7 |
| 27.5° | 4509.6 | 4509.6 | 4702.4 | 4868.4 | 5034.5 |
| 30° | 4306.1 | 4322.2 | 4531.0 | 4713.1 | 4889.9 |
| 32.5° | 4097.2 | 4124.0 | 4338.2 | 4541.7 | 4739.9 |
| 35° | 3888.3 | 3915.1 | 4145.4 | 4365.0 | 4579.2 |
| 37.5° | 3679.5 | 3716.9 | 3947.2 | 4177.5 | 4418.6 |
| 40° | 3454.5 | 3502.7 | 3743.7 | 3984.7 | 4236.5 |
| 42.5° | 3234.9 | 3288.5 | 3529.5 | 3786.6 | 4049.0 |
| 45° | 2999.3 | 3063.5 | 3304.5 | 3583.0 | 3845.5 |
| 47.5° | 2779.7 | 2843.9 | 3095.7 | 3368.8 | 3631.3 |
| 50° | 2533.3 | 2613.6 | 2870.7 | 3154.6 | 3411.7 |
| 52.5° | 2297.6 | 2388.7 | 2640.4 | 2929.6 | 3181.4 |
| 55° | 2051.3 | 2158.4 | 2415.5 | 2699.3 | 2929.6 |
| 57.5° | 1788.8 | 1917.4 | 2185.2 | 2458.3 | 2667.2 |
| 60° | 1521.1 | 1676.4 | 1960.2 | 2212.0 | 2399.4 |
| 62.5° | 1231.8 | 1413.9 | 1724.6 | 1960.2 | 2094.1 |
| 65° | 985.5 | 1140.8 | 1499.6 | 1681.7 | 1767.4 |
| 67.5° | 819.4 | 910.5 | 1253.3 | 1387.2 | 1387.2 |
| 70° | 690.9 | 739.1 | 1028.3 | 1060.5 | 948.0 |
| 72.5° | 583.8 | 610.6 | 803.4 | 723.0 | 540.9 |
| 75° | 482.0 | 503.4 | 594.5 | 487.4 | 348.1 |
| 77.5° | 385.6 | 401.7 | 449.9 | 369.6 | 273.1 |
| 80° | 289.2 | 310.6 | 337.4 | 283.9 | 214.2 |
| 82.5° | 203.5 | 219.6 | 251.7 | 208.9 | 155.3 |
| 85° | 123.2 | 144.6 | 166.0 | 133.9 | 96.4 |
| 87.5° | 53.6 | 69.6 | 91.0 | 69.6 | 42.8 |
| 90° | 0.0 | 21.4 | 37.5 | 26.8 | 0.0 |
| 92.5° | 0.0 | 0.0 | 5.4 | 5.4 | 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)