

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: P256986

Luminaire Tested: **HGL-S-BF-80L940-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256986
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-80L940-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: 10592.7 lumens
Efficiency: N/A
Efficacy: 75.1 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

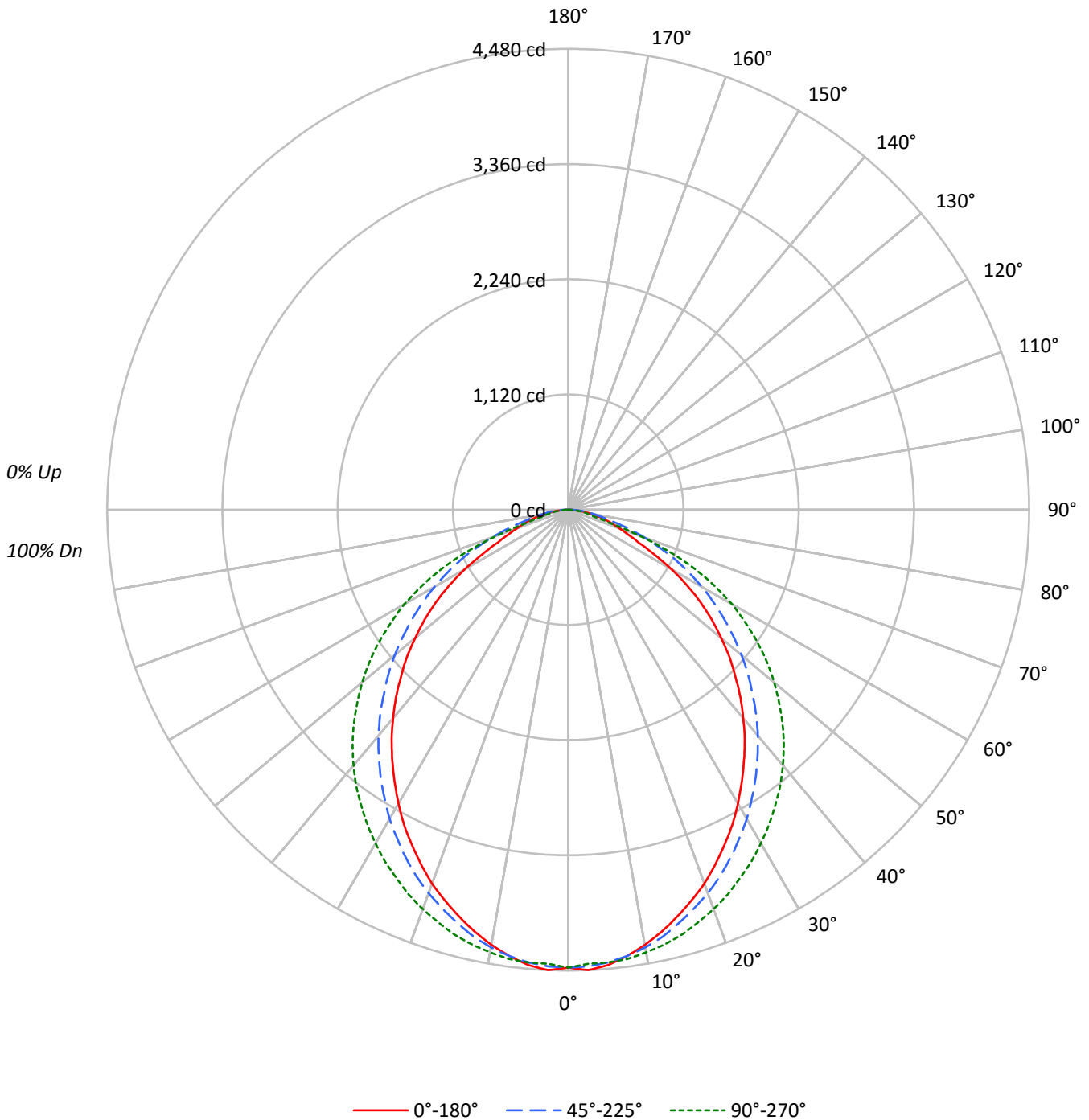
Input Watts (W): 141
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: HGL-S-BF-80L940-UNV-8

Luminous Intensity Polar Plot





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CATALOG NUMBER: HGL-S-BF-80L940-UNV-8

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° | 26135 | 26135 | 26135 |
| 5° | 26184 | 25970 | 25943 |
| 10° | 25603 | 25612 | 25850 |
| 15° | 24879 | 25073 | 25685 |
| 20° | 24161 | 24505 | 25410 |
| 25° | 23268 | 23833 | 25084 |
| 30° | 22346 | 23108 | 24770 |
| 35° | 21330 | 22265 | 24397 |
| 40° | 20260 | 21410 | 23994 |
| 45° | 19053 | 20371 | 23436 |
| 50° | 17699 | 19354 | 22691 |
| 55° | 16055 | 18119 | 21624 |
| 60° | 13653 | 16714 | 20066 |
| 65° | 10459 | 14941 | 17200 |
| 70° | 9053 | 12437 | 11132 |
| 75° | 8336 | 9236 | 5203 |
| 80° | 7436 | 7407 | 4448 |
| 85° | 6270 | 6288 | 3317 |



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CATALOG NUMBER: HGL-S-BF-80L940-UNV-8

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 418.4 | 3.9 |
| 10°-20° | 1173.2 | 11.1 |
| 20°-30° | 1720.8 | 16.2 |
| 30°-40° | 1995.6 | 18.8 |
| 40°-50° | 1975.8 | 18.7 |
| 50°-60° | 1667.2 | 15.7 |
| 60°-70° | 1080.5 | 10.2 |
| 70°-80° | 437.1 | 4.1 |
| 80°-90° | 121.3 | 1.1 |
| 90°-100° | 2.8 | 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° | 3312.4 | 31.3 |
| 0°-40° | 5308.0 | 50.1 |
| 0°-60° | 8951.1 | 84.5 |
| 0°-90° | 10589.9 | 100.0 |
| 90°-120° | 2.8 | 0.0 |
| 90°-150° | 2.8 | 0.0 |
| 90°-180° | 3.0 | 0.0 |
| 0°-180° | 10592.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 4451 | 4451 | 4451 | 4451 | 4451 | |
| 5° | 4443 | 4398 | 4419 | 4414 | 4419 | 419 |
| 15° | 4094 | 4074 | 4160 | 4234 | 4275 | 1153 |
| 25° | 3594 | 3594 | 3733 | 3848 | 3951 | 1655 |
| 35° | 2978 | 2999 | 3176 | 3344 | 3508 | 1862 |
| 45° | 2298 | 2347 | 2531 | 2745 | 2946 | 1773 |
| 55° | 1571 | 1653 | 1850 | 2068 | 2244 | 1396 |
| 65° | 755 | 874 | 1149 | 1288 | 1354 | 783 |
| 75° | 369 | 386 | 455 | 373 | 267 | 392 |
| 85° | 94 | 111 | 127 | 103 | 74 | 104 |
| 90° | 0 | 16 | 29 | 20 | 0 | 6 |
| 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: P256986

CATALOG NUMBER: HGL-S-BF-80L940-UNV-8

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 4451.4 | 4451.4 | 4451.4 | 4451.4 | 4451.4 |
| 2.5° | 4480.1 | 4430.9 | 4443.2 | 4435.0 | 4418.6 |
| 5° | 4443.2 | 4398.1 | 4418.6 | 4414.5 | 4418.6 |
| 7.5° | 4377.5 | 4340.6 | 4377.5 | 4389.9 | 4406.3 |
| 10° | 4295.5 | 4266.8 | 4320.1 | 4348.8 | 4369.3 |
| 12.5° | 4201.1 | 4176.5 | 4250.4 | 4295.5 | 4328.3 |
| 15° | 4094.5 | 4073.9 | 4160.1 | 4234.0 | 4275.0 |
| 17.5° | 3983.7 | 3967.3 | 4065.7 | 4160.1 | 4205.2 |
| 20° | 3868.8 | 3852.4 | 3967.3 | 4061.6 | 4131.4 |
| 22.5° | 3733.4 | 3725.2 | 3856.5 | 3955.0 | 4049.3 |
| 25° | 3593.9 | 3593.9 | 3733.4 | 3848.3 | 3950.9 |
| 27.5° | 3454.4 | 3454.4 | 3602.1 | 3729.3 | 3856.5 |
| 30° | 3298.5 | 3310.9 | 3470.9 | 3610.3 | 3745.7 |
| 32.5° | 3138.5 | 3159.1 | 3323.2 | 3479.1 | 3630.9 |
| 35° | 2978.5 | 2999.0 | 3175.5 | 3343.7 | 3507.8 |
| 37.5° | 2818.5 | 2847.2 | 3023.7 | 3200.1 | 3384.7 |
| 40° | 2646.2 | 2683.1 | 2867.8 | 3052.4 | 3245.2 |
| 42.5° | 2478.0 | 2519.0 | 2703.7 | 2900.6 | 3101.6 |
| 45° | 2297.5 | 2346.7 | 2531.3 | 2744.7 | 2945.7 |
| 47.5° | 2129.3 | 2178.5 | 2371.3 | 2580.6 | 2781.6 |
| 50° | 1940.6 | 2002.1 | 2199.0 | 2416.5 | 2613.4 |
| 52.5° | 1760.0 | 1829.8 | 2022.6 | 2244.2 | 2437.0 |
| 55° | 1571.3 | 1653.4 | 1850.3 | 2067.7 | 2244.2 |
| 57.5° | 1370.3 | 1468.8 | 1673.9 | 1883.1 | 2043.1 |
| 60° | 1165.2 | 1284.1 | 1501.6 | 1694.4 | 1838.0 |
| 62.5° | 943.6 | 1083.1 | 1321.1 | 1501.6 | 1604.1 |
| 65° | 754.9 | 873.9 | 1148.7 | 1288.2 | 1353.9 |
| 67.5° | 627.7 | 697.5 | 960.0 | 1062.6 | 1062.6 |
| 70° | 529.2 | 566.2 | 787.7 | 812.3 | 726.2 |
| 72.5° | 447.2 | 467.7 | 615.4 | 553.9 | 414.4 |
| 75° | 369.2 | 385.7 | 455.4 | 373.3 | 266.7 |
| 77.5° | 295.4 | 307.7 | 344.6 | 283.1 | 209.2 |
| 80° | 221.5 | 238.0 | 258.5 | 217.4 | 164.1 |
| 82.5° | 155.9 | 168.2 | 192.8 | 160.0 | 119.0 |
| 85° | 94.4 | 110.8 | 127.2 | 102.6 | 73.8 |
| 87.5° | 41.0 | 53.3 | 69.7 | 53.3 | 32.8 |
| 90° | 0.0 | 16.4 | 28.7 | 20.5 | 0.0 |
| 92.5° | 0.0 | 0.0 | 4.1 | 4.1 | 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)