

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: HALO

Report Number: P14186

Luminaire Tested: **L806SMNF8030 / L807SMNF8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P14186
Test Lab: INNOVATION CENTER-P1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L806SMNF8030 / L807SMNF8030
Description: HALO LED 806/7 SMALL, NF, 3000K
Light Source: [5] 3000K LEDS
Ballast/Driver: [1] ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 933.5 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

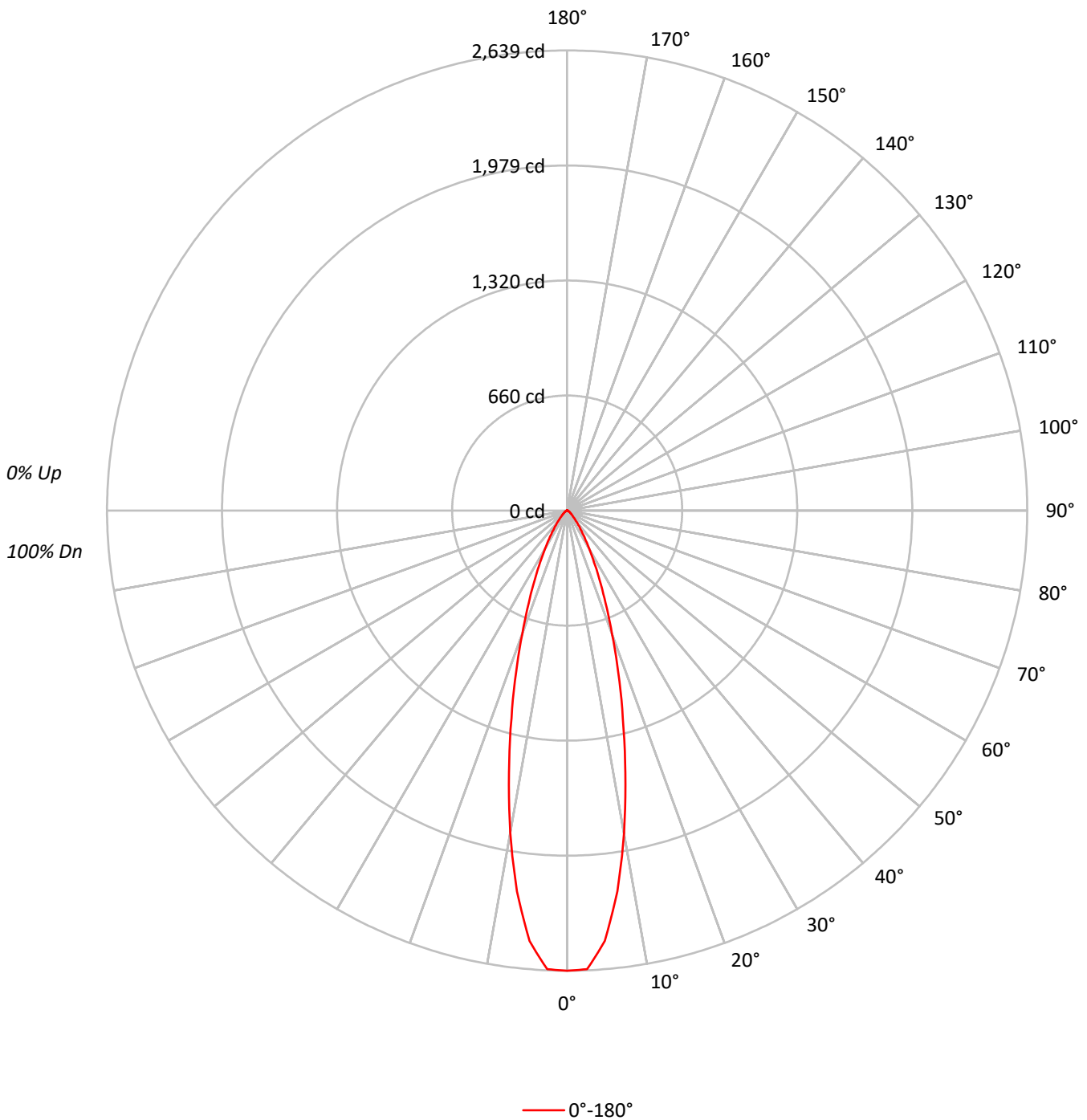
Input Watts (W): 12.4
Input Voltage (V): NR
Input Current (Ain): 0.10325
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 114 | 111 | 109 | 107 | 112 | 109 | 107 | 105 | 105 | 104 | 102 | | 102 | 100 | 99 | | 98 | 97 | 96 | 95 |
| 2 | 109 | 105 | 101 | 98 | 107 | 103 | 100 | 97 | 100 | 97 | 95 | | 97 | 95 | 93 | | 94 | 92 | 91 | 89 |
| 3 | 105 | 99 | 94 | 91 | 103 | 97 | 93 | 90 | 95 | 91 | 89 | | 92 | 90 | 87 | | 90 | 88 | 86 | 85 |
| 4 | 100 | 94 | 89 | 85 | 98 | 92 | 88 | 84 | 90 | 86 | 83 | | 88 | 85 | 82 | | 87 | 84 | 82 | 80 |
| 5 | 96 | 89 | 84 | 80 | 95 | 88 | 83 | 80 | 86 | 82 | 79 | | 85 | 81 | 78 | | 83 | 80 | 78 | 76 |
| 6 | 92 | 85 | 79 | 76 | 91 | 84 | 79 | 75 | 82 | 78 | 75 | | 81 | 77 | 74 | | 80 | 77 | 74 | 73 |
| 7 | 89 | 81 | 76 | 72 | 88 | 80 | 75 | 72 | 79 | 75 | 71 | | 78 | 74 | 71 | | 77 | 73 | 71 | 70 |
| 8 | 86 | 77 | 72 | 69 | 84 | 77 | 72 | 69 | 76 | 71 | 68 | | 75 | 71 | 68 | | 74 | 70 | 68 | 67 |
| 9 | 82 | 74 | 69 | 66 | 81 | 74 | 69 | 66 | 73 | 69 | 65 | | 72 | 68 | 65 | | 71 | 68 | 65 | 64 |
| 10 | 80 | 71 | 66 | 63 | 79 | 71 | 66 | 63 | 70 | 66 | 63 | | 69 | 66 | 63 | | 69 | 65 | 63 | 61 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|---------|
| | 0° |
| 0° | 1302029 |
| 5° | 1226769 |
| 10° | 939859 |
| 15° | 629797 |
| 20° | 394833 |
| 25° | 239529 |
| 30° | 142996 |
| 35° | 86732 |
| 40° | 52169 |
| 45° | 32794 |
| 50° | 23794 |
| 55° | 18064 |
| 60° | 15788 |
| 65° | 12842 |
| 70° | 12983 |
| 75° | 11438 |
| 80° | 2841 |
| 85° | 5661 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 216.4 | 23.2 |
| 10°-20° | 342.2 | 36.7 |
| 20°-30° | 207.6 | 22.2 |
| 30°-40° | 93.6 | 10.0 |
| 40°-50° | 38.8 | 4.2 |
| 50°-60° | 19.7 | 2.1 |
| 60°-70° | 10.0 | 1.1 |
| 70°-80° | 4.2 | 0.5 |
| 80°-90° | 1.0 | 0.1 |
| 90°-100° | 0.0 | 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° | 766.2 | 82.1 |
| 0°-40° | 859.8 | 92.1 |
| 0°-60° | 918.3 | 98.4 |
| 0°-90° | 933.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 933.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 2639 | |
| 5° | 2477 | 216 |
| 15° | 1233 | 342 |
| 25° | 440 | 208 |
| 35° | 144 | 94 |
| 45° | 47 | 39 |
| 55° | 21 | 20 |
| 65° | 11 | 10 |
| 75° | 6 | 4 |
| 85° | 1 | 1 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|------|
| 0° | 2639 |
| 2.5° | 2632 |
| 5° | 2477 |
| 7.5° | 2203 |
| 10° | 1876 |
| 12.5° | 1541 |
| 15° | 1233 |
| 17.5° | 971 |
| 20° | 752 |
| 22.5° | 575 |
| 25° | 440 |
| 27.5° | 335 |
| 30° | 251 |
| 32.5° | 191 |
| 35° | 144 |
| 37.5° | 108 |
| 40° | 81 |
| 42.5° | 62 |
| 45° | 47 |
| 47.5° | 38 |
| 50° | 31 |
| 52.5° | 24 |
| 55° | 21 |
| 57.5° | 20 |
| 60° | 16 |
| 62.5° | 7 |
| 65° | 11 |
| 67.5° | 10 |
| 70° | 9 |
| 72.5° | 0 |
| 75° | 6 |
| 77.5° | 5 |
| 80° | 1 |
| 82.5° | 2 |
| 85° | 1 |
| 87.5° | 0 |
| 90° | 0 |

(END OF REPORT)