

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: P14188

Luminaire Tested: **L806SMFL8030 / L807SMFL8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P14188
Test Lab: INNOVATION CENTER-P1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L806SMFL8030 / L807SMFL8030
Description: HALO LED 806/7 SMALL, FL, 3000K
Light Source: [5] 3000K LEDS
Ballast/Driver: [1] ELECTRONIC DRIVER

Summary

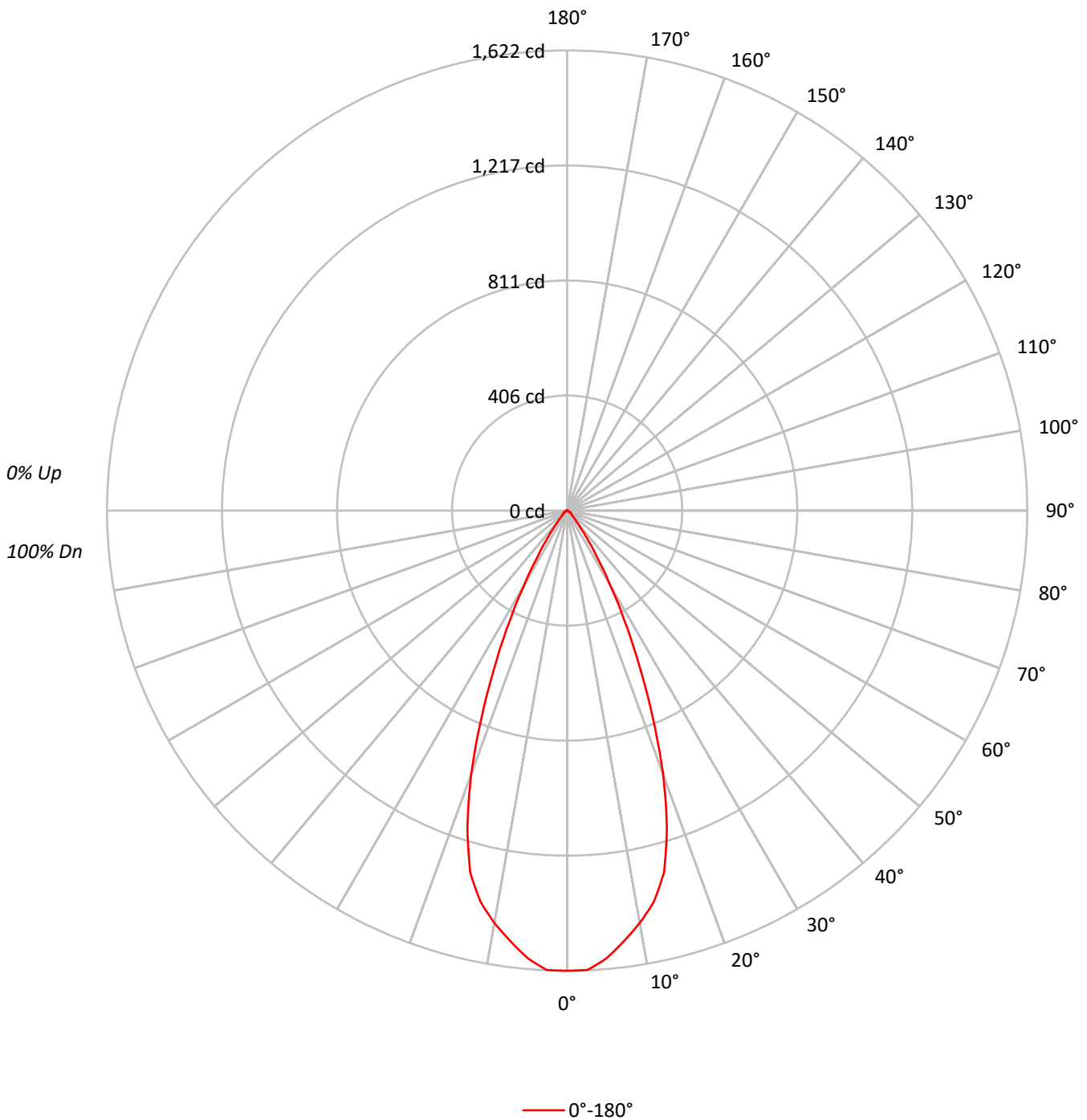
Lumens per Lamp: N/A
Luminaire Lumens: 919.2 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Spacing Criteria (0/90/45): 0.73 / 0.73 / 0.68
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 12
Input Voltage (V): NR
Input Current (Ain): 0.10045
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 13 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 | 94 |
| 2 | 109 | 105 | 101 | 98 | 107 | 103 | 100 | 97 | 100 | 97 | 95 | | 97 | 95 | 93 | | 94 | 92 | 91 | 89 |
| 3 | 104 | 98 | 94 | 90 | 102 | 97 | 93 | 90 | 95 | 91 | 88 | | 92 | 89 | 87 | | 90 | 88 | 86 | 84 |
| 4 | 100 | 93 | 88 | 84 | 98 | 92 | 87 | 84 | 90 | 86 | 83 | | 88 | 85 | 82 | | 86 | 83 | 81 | 80 |
| 5 | 96 | 88 | 83 | 79 | 94 | 87 | 82 | 79 | 85 | 81 | 78 | | 84 | 80 | 77 | | 82 | 79 | 77 | 75 |
| 6 | 92 | 84 | 78 | 74 | 90 | 83 | 78 | 74 | 81 | 77 | 74 | | 80 | 76 | 73 | | 79 | 75 | 73 | 71 |
| 7 | 88 | 80 | 74 | 71 | 87 | 79 | 74 | 70 | 78 | 73 | 70 | | 77 | 73 | 70 | | 76 | 72 | 69 | 68 |
| 8 | 84 | 76 | 71 | 67 | 83 | 75 | 70 | 67 | 74 | 70 | 67 | | 73 | 69 | 66 | | 72 | 69 | 66 | 65 |
| 9 | 81 | 72 | 67 | 64 | 80 | 72 | 67 | 64 | 71 | 67 | 63 | | 70 | 66 | 63 | | 69 | 66 | 63 | 62 |
| 10 | 78 | 69 | 64 | 61 | 77 | 69 | 64 | 61 | 68 | 64 | 61 | | 67 | 63 | 60 | | 67 | 63 | 60 | 59 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 800262 |
| 5° | 784994 |
| 10° | 739462 |
| 15° | 674235 |
| 20° | 518743 |
| 25° | 326086 |
| 30° | 174330 |
| 35° | 78300 |
| 40° | 34135 |
| 45° | 20235 |
| 50° | 14584 |
| 55° | 12903 |
| 60° | 10854 |
| 65° | 9339 |
| 70° | 1443 |
| 75° | 7625 |
| 80° | 2841 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 147.6 | 16.1 |
| 10°-20° | 356.7 | 38.8 |
| 20°-30° | 276.7 | 30.1 |
| 30°-40° | 90.0 | 9.8 |
| 40°-50° | 23.4 | 2.6 |
| 50°-60° | 13.6 | 1.5 |
| 60°-70° | 7.4 | 0.8 |
| 70°-80° | 2.9 | 0.3 |
| 80°-90° | 0.7 | 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° | 781.1 | 85.0 |
| 0°-40° | 871.1 | 94.8 |
| 0°-60° | 908.2 | 98.8 |
| 0°-90° | 919.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 919.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1622 | |
| 5° | 1585 | 148 |
| 15° | 1320 | 357 |
| 25° | 599 | 277 |
| 35° | 130 | 90 |
| 45° | 29 | 23 |
| 55° | 15 | 14 |
| 65° | 8 | 7 |
| 75° | 4 | 3 |
| 85° | 0 | 1 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|------|
| 0° | 1622 |
| 2.5° | 1621 |
| 5° | 1585 |
| 7.5° | 1531 |
| 10° | 1476 |
| 12.5° | 1412 |
| 15° | 1320 |
| 17.5° | 1169 |
| 20° | 988 |
| 22.5° | 787 |
| 25° | 599 |
| 27.5° | 439 |
| 30° | 306 |
| 32.5° | 202 |
| 35° | 130 |
| 37.5° | 81 |
| 40° | 53 |
| 42.5° | 38 |
| 45° | 29 |
| 47.5° | 20 |
| 50° | 19 |
| 52.5° | 17 |
| 55° | 15 |
| 57.5° | 14 |
| 60° | 11 |
| 62.5° | 9 |
| 65° | 8 |
| 67.5° | 7 |
| 70° | 1 |
| 72.5° | 3 |
| 75° | 4 |
| 77.5° | 3 |
| 80° | 1 |
| 82.5° | 2 |
| 85° | 0 |
| 87.5° | 0 |
| 90° | 0 |

(END OF REPORT)