

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: P257076

Luminaire Tested: **L806XHOWS8030MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257076
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L806XHOWS8030MB
Description: HALO LED EXTRA HIGH OUTPUT TRACK FIXTURE 06 WITH WIDE SPOT OPTIC,
MATTE BLACK
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1805-754-6)
Light Source: (15) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRICAL DRIVER

Summary

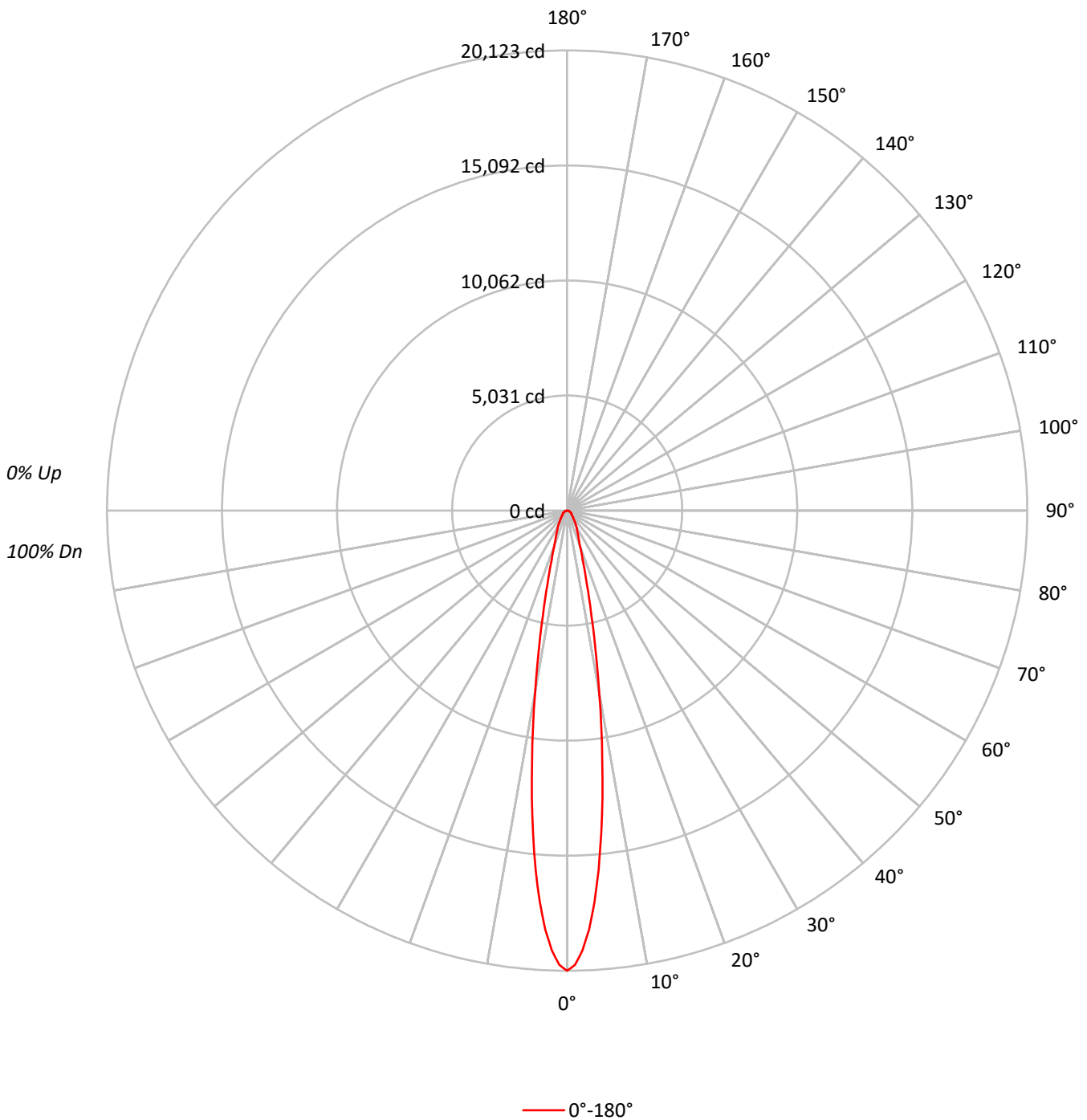
Lumens per Lamp: N/A
Luminaire Lumens: 3836.6 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.31
Luminous Opening: Circular (Dia: 0.31' x H: 0')
CIE Type: Direct

Input Watts (W): 47.3
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 | 113 | 110 | 108 | 105 | 111 | 108 | 106 | 104 | 104 | 102 | 100 | | 100 | 99 | 97 | | 97 | 96 | 94 | 93 |
| 2 | 107 | 102 | 98 | 95 | 105 | 101 | 97 | 94 | 97 | 94 | 92 | | 95 | 92 | 90 | | 92 | 90 | 88 | 86 |
| 3 | 102 | 96 | 91 | 87 | 100 | 95 | 90 | 86 | 92 | 88 | 85 | | 90 | 86 | 84 | | 87 | 85 | 82 | 81 |
| 4 | 98 | 91 | 85 | 81 | 96 | 89 | 84 | 81 | 87 | 83 | 80 | | 85 | 82 | 79 | | 83 | 80 | 78 | 76 |
| 5 | 94 | 86 | 80 | 76 | 92 | 85 | 80 | 76 | 83 | 79 | 75 | | 82 | 78 | 75 | | 80 | 77 | 74 | 72 |
| 6 | 90 | 82 | 76 | 72 | 89 | 81 | 76 | 72 | 80 | 75 | 72 | | 78 | 74 | 71 | | 77 | 73 | 71 | 69 |
| 7 | 87 | 78 | 73 | 69 | 86 | 78 | 72 | 69 | 76 | 72 | 68 | | 75 | 71 | 68 | | 74 | 71 | 68 | 66 |
| 8 | 84 | 75 | 70 | 66 | 83 | 75 | 70 | 66 | 74 | 69 | 66 | | 73 | 68 | 65 | | 72 | 68 | 65 | 64 |
| 9 | 81 | 72 | 67 | 64 | 80 | 72 | 67 | 64 | 71 | 67 | 63 | | 70 | 66 | 63 | | 69 | 66 | 63 | 62 |
| 10 | 78 | 70 | 65 | 62 | 78 | 70 | 65 | 61 | 69 | 64 | 61 | | 68 | 64 | 61 | | 67 | 64 | 61 | 60 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|---------|
| | 0° |
| 0° | 2824068 |
| 5° | 2222610 |
| 10° | 1150183 |
| 15° | 482625 |
| 20° | 245062 |
| 25° | 169063 |
| 30° | 129186 |
| 35° | 97140 |
| 40° | 75057 |
| 45° | 60772 |
| 50° | 56700 |
| 55° | 54000 |
| 60° | 56304 |
| 65° | 46291 |
| 70° | 47639 |
| 75° | 46361 |
| 80° | 38389 |
| 85° | 35747 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1245.2 | 32.5 |
| 10°-20° | 1003.0 | 26.1 |
| 20°-30° | 513.0 | 13.4 |
| 30°-40° | 360.4 | 9.4 |
| 40°-50° | 245.9 | 6.4 |
| 50°-60° | 202.6 | 5.3 |
| 60°-70° | 148.8 | 3.9 |
| 70°-80° | 95.1 | 2.5 |
| 80°-90° | 22.5 | 0.6 |
| 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° | 2761.3 | 72.0 |
| 0°-40° | 3121.7 | 81.4 |
| 0°-60° | 3570.2 | 93.1 |
| 0°-90° | 3836.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3836.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-------|------|
| 0° | 20123 | |
| 5° | 15777 | ### |
| 15° | 3322 | 1003 |
| 25° | 1092 | 513 |
| 35° | 567 | 360 |
| 45° | 306 | 246 |
| 55° | 221 | 203 |
| 65° | 139 | 149 |
| 75° | 86 | 95 |
| 85° | 22 | 23 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|---------|
| 0° | 20123.1 |
| 1° | 19866.5 |
| 2° | 19246.7 |
| 3° | 18337.6 |
| 4° | 17151.9 |
| 5° | 15777.1 |
| 6° | 14235.5 |
| 7° | 12645.3 |
| 8° | 11037.2 |
| 9° | 9506.2 |
| 10° | 8071.2 |
| 11° | 6789.4 |
| 12° | 5677.5 |
| 13° | 4733.5 |
| 14° | 3959.6 |
| 15° | 3321.8 |
| 17.5° | 2230.0 |
| 20° | 1640.9 |
| 22.5° | 1293.5 |
| 25° | 1091.8 |
| 27.5° | 922.8 |
| 30° | 797.2 |
| 32.5° | 676.8 |
| 35° | 567.0 |
| 37.5° | 478.3 |
| 40° | 409.7 |
| 42.5° | 362.2 |
| 45° | 306.2 |
| 47.5° | 275.6 |
| 50° | 259.7 |
| 52.5° | 248.1 |
| 55° | 220.7 |
| 57.5° | 207.0 |
| 60° | 200.6 |
| 62.5° | 172.1 |
| 65° | 139.4 |
| 67.5° | 132.0 |
| 70° | 116.1 |
| 72.5° | 116.1 |
| 75° | 85.5 |
| 77.5° | 77.1 |
| 80° | 47.5 |
| 82.5° | 32.7 |
| 85° | 22.2 |
| 87.5° | 4.2 |



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CANDELA DISTRIBUTION (continued):

90° | $\frac{0^\circ}{0.0}$

(END OF REPORT)