

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: P184105

Luminaire Tested: **L80815FL9030P**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P184105  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27060)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: L80815FL9030P  
Description: HALO TRACK L LED 08, 1500 LM, FLOOD, WHITE  
  
Light Source: EATON LED 3000K  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1438.6 lumens  
Efficiency: N/A  
Efficacy: 69.5 lumens/watt  
Spacing Criteria (0/90/45): 0.7 / 0.7 / 0.62  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

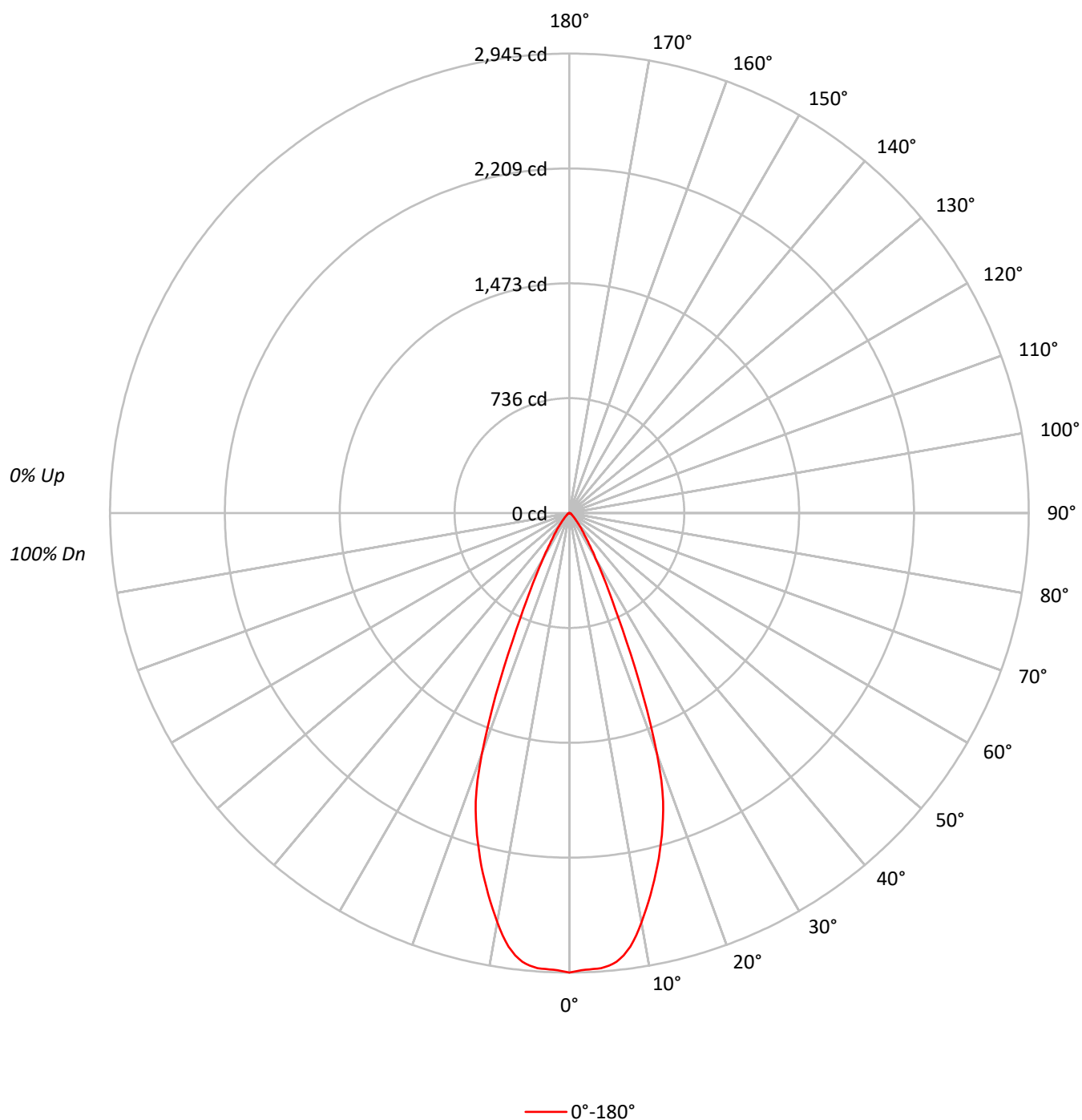
Input Watts (W): 20.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 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   | 114 | 112 | 109 | 107 | 112 | 110 | 108 | 106 | 106 | 104 | 102 | 102 | 101 | 99  | 98  | 97  | 97  | 95  |    |    |    |    | 95  |   |  |   |
| 2   | 109 | 105 | 102 | 99  | 107 | 103 | 100 | 97  | 100 | 98  | 95  | 97  | 95  | 93  | 95  | 93  | 91  | 90  |    |    |    |    | 90  |   |  |   |
| 3   | 105 | 99  | 95  | 92  | 103 | 98  | 94  | 91  | 95  | 92  | 89  | 93  | 90  | 88  | 91  | 89  | 87  | 85  |    |    |    |    | 85  |   |  |   |
| 4   | 101 | 94  | 89  | 86  | 99  | 93  | 89  | 85  | 91  | 87  | 84  | 89  | 86  | 83  | 87  | 85  | 82  | 81  |    |    |    |    | 81  |   |  |   |
| 5   | 97  | 90  | 85  | 81  | 95  | 89  | 84  | 80  | 87  | 83  | 80  | 85  | 82  | 79  | 84  | 81  | 78  | 77  |    |    |    |    | 77  |   |  |   |
| 6   | 93  | 85  | 80  | 77  | 92  | 85  | 80  | 76  | 83  | 79  | 76  | 82  | 78  | 75  | 81  | 77  | 75  | 74  |    |    |    |    | 74  |   |  |   |
| 7   | 89  | 81  | 76  | 73  | 88  | 81  | 76  | 73  | 80  | 75  | 72  | 79  | 75  | 72  | 78  | 74  | 72  | 70  |    |    |    |    | 70  |   |  |   |
| 8   | 86  | 78  | 73  | 69  | 85  | 77  | 73  | 69  | 76  | 72  | 69  | 75  | 72  | 69  | 75  | 71  | 68  | 67  |    |    |    |    | 67  |   |  |   |
| 9   | 83  | 75  | 70  | 66  | 82  | 74  | 70  | 66  | 73  | 69  | 66  | 73  | 69  | 66  | 72  | 68  | 66  | 65  |    |    |    |    | 65  |   |  |   |
| 10  | 80  | 72  | 67  | 64  | 79  | 71  | 67  | 64  | 71  | 66  | 63  | 70  | 66  | 63  | 69  | 66  | 63  | 62  |    |    |    |    | 62  |   |  |   |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°     |
|-----|--------|
| 0°  | 645804 |
| 5°  | 640918 |
| 10° | 592596 |
| 15° | 508720 |
| 20° | 383540 |
| 25° | 180059 |
| 30° | 84924  |
| 35° | 43768  |
| 40° | 24360  |
| 45° | 13986  |
| 50° | 9108   |
| 55° | 6384   |
| 60° | 5131   |
| 65° | 5189   |
| 70° | 5321   |
| 75° | 4236   |
| 80° | 4167   |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 270.5  | 18.8      |
| 10°-20°   | 614.0  | 42.7      |
| 20°-30°   | 373.1  | 25.9      |
| 30°-40°   | 110.5  | 7.7       |
| 40°-50°   | 37.7   | 2.6       |
| 50°-60°   | 16.2   | 1.1       |
| 60°-70°   | 9.9    | 0.7       |
| 70°-80°   | 5.9    | 0.4       |
| 80°-90°   | 0.9    | 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°    | 1257.6 | 87.4      |
| 0°-40°    | 1368.1 | 95.1      |
| 0°-60°    | 1421.9 | 98.8      |
| 0°-90°    | 1438.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1438.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2945 |      |
| 5°  | 2912 | 270  |
| 15° | 2241 | 614  |
| 25° | 744  | 373  |
| 35° | 164  | 110  |
| 45° | 45   | 38   |
| 55° | 17   | 16   |
| 65° | 10   | 10   |
| 75° | 5    | 6    |
| 85° | 0    | 1    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 2945.1 |
| 1°    | 2935.1 |
| 2°    | 2928.4 |
| 3°    | 2926.7 |
| 4°    | 2923.4 |
| 5°    | 2911.7 |
| 6°    | 2891.7 |
| 7°    | 2856.7 |
| 8°    | 2806.6 |
| 9°    | 2739.9 |
| 10°   | 2661.4 |
| 11°   | 2583.0 |
| 12°   | 2499.6 |
| 13°   | 2416.2 |
| 14°   | 2331.1 |
| 15°   | 2240.9 |
| 16°   | 2149.2 |
| 17°   | 2050.7 |
| 18°   | 1943.9 |
| 19°   | 1812.1 |
| 20°   | 1643.6 |
| 21°   | 1453.4 |
| 22°   | 1259.8 |
| 23°   | 1076.3 |
| 24°   | 901.1  |
| 25°   | 744.2  |
| 26°   | 630.7  |
| 27°   | 545.6  |
| 28°   | 468.9  |
| 29°   | 398.8  |
| 30°   | 335.4  |
| 32.5° | 231.9  |
| 35°   | 163.5  |
| 37.5° | 116.8  |
| 40°   | 85.1   |
| 42.5° | 61.7   |
| 45°   | 45.1   |
| 47.5° | 35.0   |
| 50°   | 26.7   |
| 52.5° | 21.7   |
| 55°   | 16.7   |
| 57.5° | 15.0   |
| 60°   | 11.7   |
| 62.5° | 11.7   |
| 65°   | 10.0   |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  |
|-------|-----|
| 67.5° | 8.3 |
| 70°   | 8.3 |
| 72.5° | 6.7 |
| 75°   | 5.0 |
| 77.5° | 5.0 |
| 80°   | 3.3 |
| 82.5° | 1.7 |
| 85°   | 0.0 |
| 87.5° | 0.0 |
| 90°   | 0.0 |

(END OF REPORT)