

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 COMMERCIAL

Report Number: P253053

Luminaire Tested: **PRS610D010-S6M12-61SWDC**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253053  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1805-776-1)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PRS610D010-S6M12-61SWDC  
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM SPECULAR  
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 971.5 lumens  
Efficiency: N/A  
Efficacy: 97.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

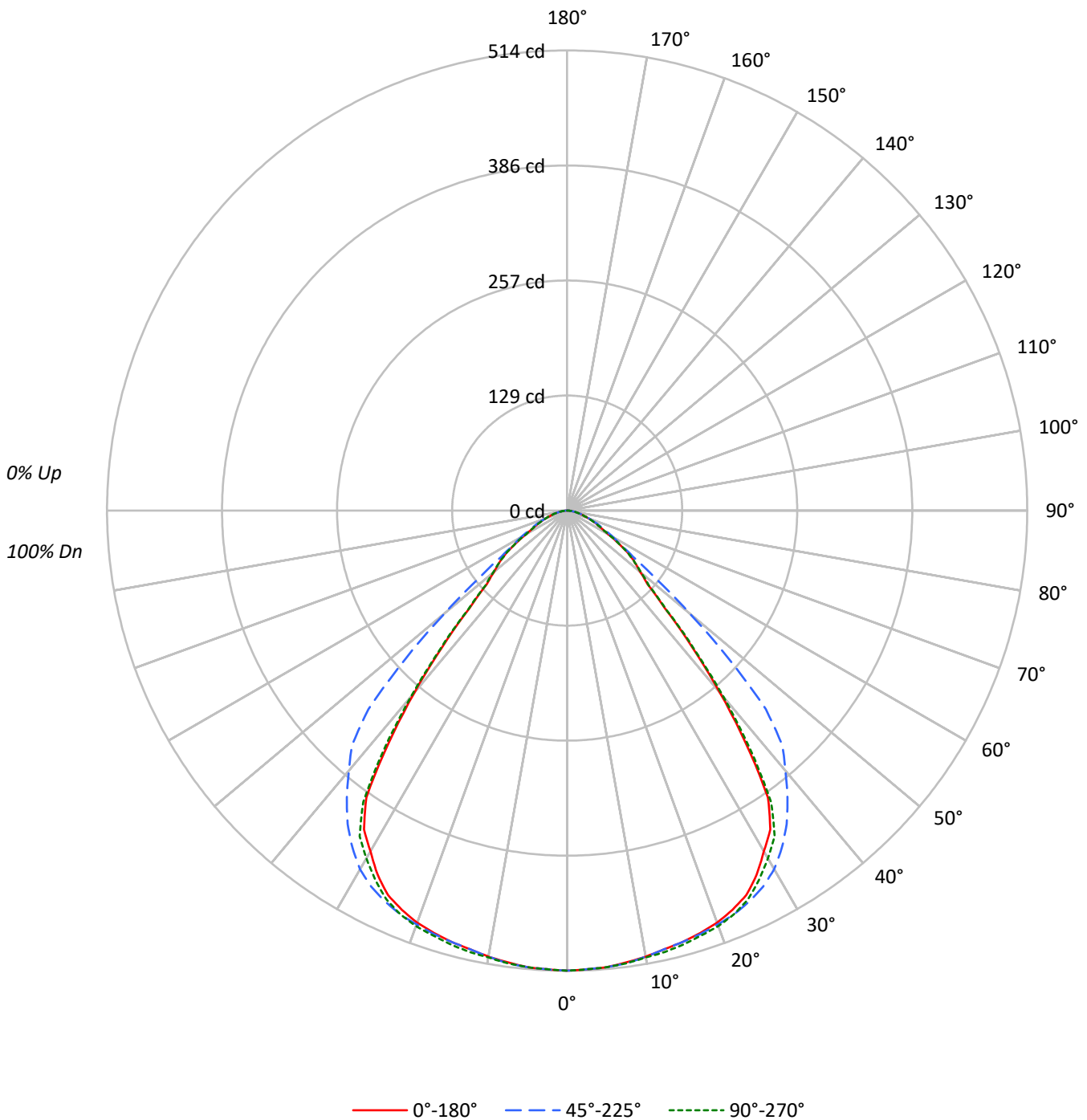
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99  | 97  | 98  | 96  | 94  | 94  | 93  | 91  | 89  |
| 2   | 104 | 97  | 92  | 88  | 101 | 96  | 91  | 87  | 92  | 88  | 85  | 89  | 86  | 83  | 86  | 84  | 81  | 79  |
| 3   | 97  | 88  | 82  | 76  | 94  | 87  | 81  | 76  | 84  | 79  | 75  | 81  | 77  | 73  | 79  | 75  | 72  | 70  |
| 4   | 90  | 80  | 73  | 67  | 88  | 79  | 72  | 67  | 77  | 71  | 66  | 74  | 69  | 65  | 72  | 68  | 65  | 63  |
| 5   | 84  | 73  | 66  | 60  | 82  | 72  | 65  | 60  | 70  | 64  | 59  | 68  | 63  | 59  | 66  | 62  | 58  | 56  |
| 6   | 78  | 67  | 59  | 54  | 76  | 66  | 59  | 54  | 64  | 58  | 53  | 63  | 57  | 53  | 61  | 56  | 52  | 51  |
| 7   | 73  | 61  | 54  | 49  | 71  | 61  | 53  | 48  | 59  | 53  | 48  | 58  | 52  | 48  | 57  | 51  | 47  | 46  |
| 8   | 68  | 57  | 49  | 44  | 67  | 56  | 49  | 44  | 55  | 48  | 44  | 54  | 48  | 43  | 52  | 47  | 43  | 42  |
| 9   | 64  | 52  | 45  | 40  | 63  | 52  | 45  | 40  | 51  | 44  | 40  | 50  | 44  | 40  | 49  | 43  | 40  | 38  |
| 10  | 60  | 49  | 42  | 37  | 59  | 48  | 41  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 46  | 40  | 36  | 35  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 22126 | 22126 | 22126 |
| 5°  | 22124 | 22124 | 22124 |
| 10° | 22118 | 22118 | 22162 |
| 15° | 22234 | 22234 | 22367 |
| 20° | 22442 | 22534 | 22625 |
| 25° | 22504 | 22884 | 22741 |
| 30° | 21850 | 22999 | 22298 |
| 35° | 20562 | 22465 | 20877 |
| 40° | 14922 | 21307 | 15260 |
| 45° | 9371  | 19107 | 9554  |
| 50° | 7140  | 11990 | 7274  |
| 55° | 6268  | 6718  | 6268  |
| 60° | 4590  | 5106  | 4590  |
| 65° | 3790  | 4096  | 3790  |
| 70° | 3160  | 3286  | 3160  |
| 75° | 2678  | 2678  | 2678  |
| 80° | 2256  | 2256  | 2256  |
| 85° | 1976  | 1976  | 1976  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 48.7   | 5.0       |
| 10°-20°   | 141.4  | 14.6      |
| 20°-30°   | 220.0  | 22.6      |
| 30°-40°   | 251.4  | 25.9      |
| 40°-50°   | 168.2  | 17.3      |
| 50°-60°   | 80.5   | 8.3       |
| 60°-70°   | 39.2   | 4.0       |
| 70°-80°   | 17.7   | 1.8       |
| 80°-90°   | 4.5    | 0.5       |
| 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°    | 410.0  | 42.2      |
| 0°-40°    | 661.4  | 68.1      |
| 0°-60°    | 910.1  | 93.7      |
| 0°-90°    | 971.5  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 971.5  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 514 | 514   | 514 | 514   | 514 |      |
| 5°  | 512 | 512   | 512 | 512   | 512 | 49   |
| 15° | 499 | 499   | 499 | 501   | 502 | 141  |
| 25° | 474 | 477   | 482 | 481   | 479 | 217  |
| 35° | 391 | 413   | 427 | 419   | 397 | 232  |
| 45° | 154 | 198   | 314 | 201   | 157 | 128  |
| 55° | 84  | 90    | 90  | 90    | 84  | 73   |
| 65° | 37  | 38    | 40  | 38    | 37  | 37   |
| 75° | 16  | 16    | 16  | 16    | 16  | 17   |
| 85° | 4   | 4     | 4   | 4     | 4   | 5    |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 513.9 | 513.9 | 513.9 | 513.9 | 513.9 |
| 2.5°  | 512.9 | 512.9 | 512.9 | 512.9 | 512.9 |
| 5°    | 511.9 | 511.9 | 511.9 | 511.9 | 511.9 |
| 7.5°  | 508.9 | 508.9 | 509.9 | 508.9 | 509.9 |
| 10°   | 505.9 | 505.9 | 505.9 | 506.9 | 506.9 |
| 12.5° | 501.8 | 501.8 | 501.8 | 503.8 | 504.9 |
| 15°   | 498.8 | 498.8 | 498.8 | 500.8 | 501.8 |
| 17.5° | 494.8 | 494.8 | 495.8 | 497.8 | 497.8 |
| 20°   | 489.8 | 490.8 | 491.8 | 493.8 | 493.8 |
| 22.5° | 482.7 | 484.7 | 487.8 | 488.8 | 487.8 |
| 25°   | 473.7 | 476.7 | 481.7 | 480.7 | 478.7 |
| 27.5° | 458.6 | 465.6 | 473.7 | 469.7 | 464.6 |
| 30°   | 439.5 | 450.5 | 462.6 | 454.6 | 448.5 |
| 32.5° | 422.4 | 431.4 | 446.5 | 437.5 | 431.4 |
| 35°   | 391.2 | 413.3 | 427.4 | 419.4 | 397.2 |
| 37.5° | 327.9 | 377.1 | 404.3 | 383.2 | 335.9 |
| 40°   | 265.5 | 317.8 | 379.1 | 321.8 | 271.5 |
| 42.5° | 206.2 | 256.4 | 356.0 | 260.5 | 210.2 |
| 45°   | 153.9 | 198.1 | 313.8 | 201.1 | 156.9 |
| 47.5° | 121.7 | 146.8 | 244.4 | 149.8 | 123.7 |
| 50°   | 106.6 | 116.7 | 179.0 | 118.7 | 108.6 |
| 52.5° | 95.5  | 101.6 | 124.7 | 102.6 | 95.5  |
| 55°   | 83.5  | 89.5  | 89.5  | 90.5  | 83.5  |
| 57.5° | 67.4  | 76.4  | 70.4  | 76.4  | 68.4  |
| 60°   | 53.3  | 60.3  | 59.3  | 60.3  | 53.3  |
| 62.5° | 43.2  | 47.3  | 48.3  | 47.3  | 43.2  |
| 65°   | 37.2  | 38.2  | 40.2  | 38.2  | 37.2  |
| 67.5° | 31.2  | 32.2  | 32.2  | 32.2  | 30.2  |
| 70°   | 25.1  | 26.1  | 26.1  | 26.1  | 25.1  |
| 72.5° | 20.1  | 21.1  | 21.1  | 21.1  | 20.1  |
| 75°   | 16.1  | 16.1  | 16.1  | 16.1  | 16.1  |
| 77.5° | 12.1  | 13.1  | 12.1  | 13.1  | 12.1  |
| 80°   | 9.1   | 9.1   | 9.1   | 9.1   | 9.1   |
| 82.5° | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   |
| 85°   | 4.0   | 4.0   | 4.0   | 4.0   | 4.0   |
| 87.5° | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)