

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: P253094

Luminaire Tested: **PRS615D010-S6M12-61SWDMB-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253094
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: PRS615D010-S6M12-61SWDMB-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 862.8 lumens
Efficiency: N/A
Efficacy: 68.5 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

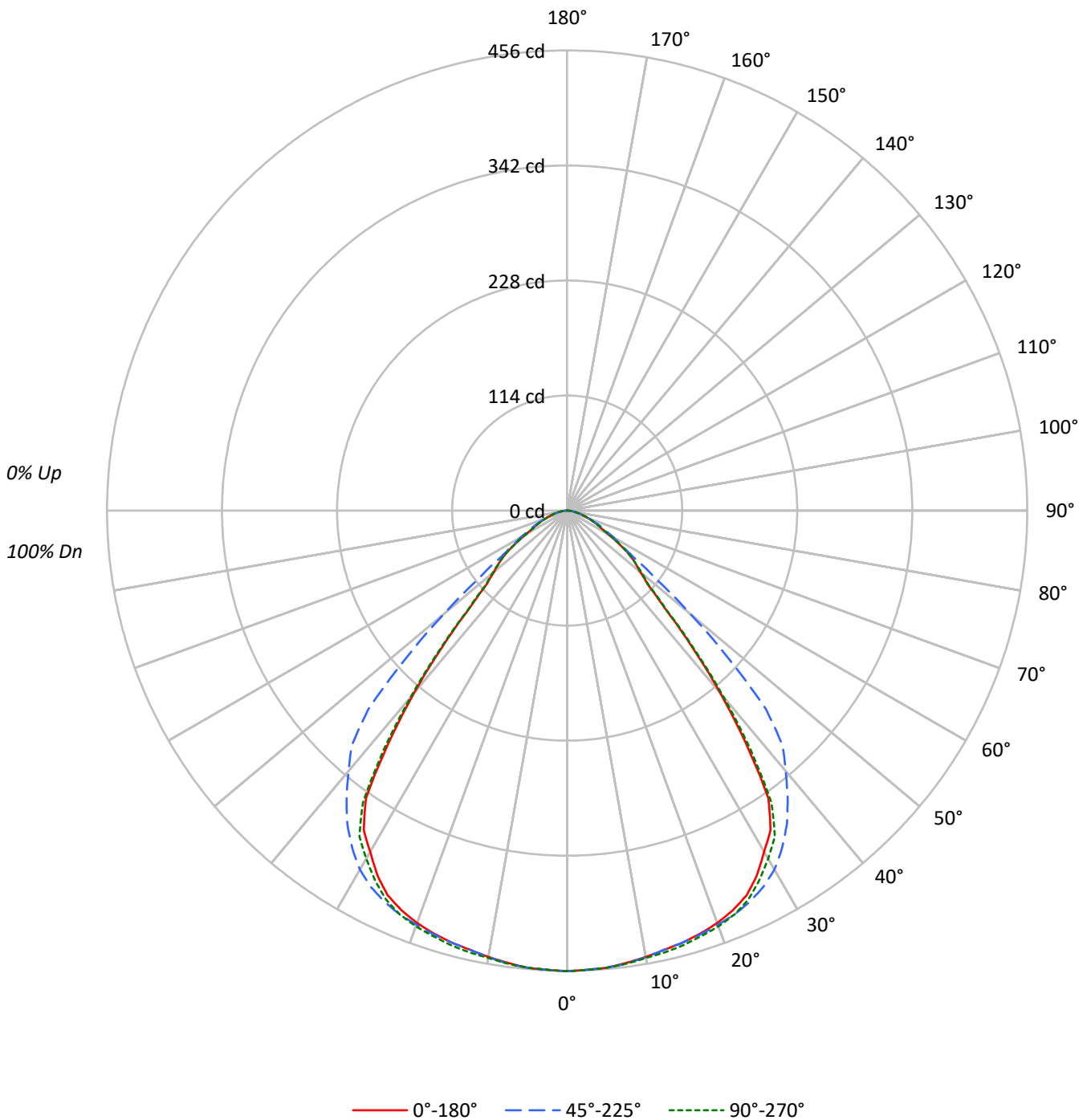
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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° | 19651 | 19651 | 19651 |
| 5° | 19648 | 19648 | 19648 |
| 10° | 19639 | 19639 | 19678 |
| 15° | 19747 | 19747 | 19867 |
| 20° | 19927 | 20009 | 20092 |
| 25° | 19986 | 20323 | 20195 |
| 30° | 19404 | 20423 | 19802 |
| 35° | 18260 | 19952 | 18544 |
| 40° | 13253 | 18924 | 13551 |
| 45° | 8318 | 16970 | 8482 |
| 50° | 6343 | 10650 | 6464 |
| 55° | 5562 | 5968 | 5562 |
| 60° | 4073 | 4538 | 4073 |
| 65° | 3362 | 3637 | 3362 |
| 70° | 2807 | 2921 | 2807 |
| 75° | 2379 | 2379 | 2379 |
| 80° | 1984 | 1984 | 1984 |
| 85° | 1778 | 1778 | 1778 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 43.2 | 5.0 |
| 10°-20° | 125.5 | 14.6 |
| 20°-30° | 195.4 | 22.6 |
| 30°-40° | 223.2 | 25.9 |
| 40°-50° | 149.4 | 17.3 |
| 50°-60° | 71.5 | 8.3 |
| 60°-70° | 34.8 | 4.0 |
| 70°-80° | 15.7 | 1.8 |
| 80°-90° | 4.0 | 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° | 364.1 | 42.2 |
| 0°-40° | 587.4 | 68.1 |
| 0°-60° | 808.2 | 93.7 |
| 0°-90° | 862.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 862.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 456 | 456 | 456 | 456 | 456 | |
| 5° | 455 | 455 | 455 | 455 | 455 | 43 |
| 15° | 443 | 443 | 443 | 445 | 446 | 125 |
| 25° | 421 | 423 | 428 | 427 | 425 | 193 |
| 35° | 347 | 367 | 380 | 372 | 353 | 206 |
| 45° | 137 | 176 | 279 | 179 | 139 | 113 |
| 55° | 74 | 80 | 80 | 80 | 74 | 65 |
| 65° | 33 | 34 | 36 | 34 | 33 | 33 |
| 75° | 14 | 14 | 14 | 14 | 14 | 15 |
| 85° | 4 | 4 | 4 | 4 | 4 | 4 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 456.4 | 456.4 | 456.4 | 456.4 | 456.4 |
| 2.5° | 455.5 | 455.5 | 455.5 | 455.5 | 455.5 |
| 5° | 454.6 | 454.6 | 454.6 | 454.6 | 454.6 |
| 7.5° | 451.9 | 451.9 | 452.8 | 451.9 | 452.8 |
| 10° | 449.2 | 449.2 | 449.2 | 450.1 | 450.1 |
| 12.5° | 445.7 | 445.7 | 445.7 | 447.4 | 448.3 |
| 15° | 443.0 | 443.0 | 443.0 | 444.8 | 445.7 |
| 17.5° | 439.4 | 439.4 | 440.3 | 442.1 | 442.1 |
| 20° | 434.9 | 435.8 | 436.7 | 438.5 | 438.5 |
| 22.5° | 428.7 | 430.5 | 433.2 | 434.1 | 433.2 |
| 25° | 420.7 | 423.3 | 427.8 | 426.9 | 425.1 |
| 27.5° | 407.3 | 413.5 | 420.7 | 417.1 | 412.6 |
| 30° | 390.3 | 400.1 | 410.8 | 403.7 | 398.3 |
| 32.5° | 375.1 | 383.1 | 396.5 | 388.5 | 383.1 |
| 35° | 347.4 | 367.1 | 379.6 | 372.4 | 352.8 |
| 37.5° | 291.2 | 334.9 | 359.0 | 340.3 | 298.3 |
| 40° | 235.8 | 282.2 | 336.7 | 285.8 | 241.1 |
| 42.5° | 183.1 | 227.7 | 316.2 | 231.3 | 186.7 |
| 45° | 136.6 | 175.9 | 278.7 | 178.6 | 139.3 |
| 47.5° | 108.1 | 130.4 | 217.0 | 133.1 | 109.9 |
| 50° | 94.7 | 103.6 | 159.0 | 105.4 | 96.5 |
| 52.5° | 84.8 | 90.2 | 110.7 | 91.1 | 84.8 |
| 55° | 74.1 | 79.5 | 79.5 | 80.4 | 74.1 |
| 57.5° | 59.8 | 67.9 | 62.5 | 67.9 | 60.7 |
| 60° | 47.3 | 53.6 | 52.7 | 53.6 | 47.3 |
| 62.5° | 38.4 | 42.0 | 42.9 | 42.0 | 38.4 |
| 65° | 33.0 | 33.9 | 35.7 | 33.9 | 33.0 |
| 67.5° | 27.7 | 28.6 | 28.6 | 28.6 | 26.8 |
| 70° | 22.3 | 23.2 | 23.2 | 23.2 | 22.3 |
| 72.5° | 17.9 | 18.8 | 18.8 | 18.8 | 17.9 |
| 75° | 14.3 | 14.3 | 14.3 | 14.3 | 14.3 |
| 77.5° | 10.7 | 11.6 | 10.7 | 11.6 | 10.7 |
| 80° | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |
| 82.5° | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 |
| 85° | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| 87.5° | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)