

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: P253083

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253083
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-S6M12-61SWDMW
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 967.6 lumens
Efficiency: N/A
Efficacy: 96.8 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

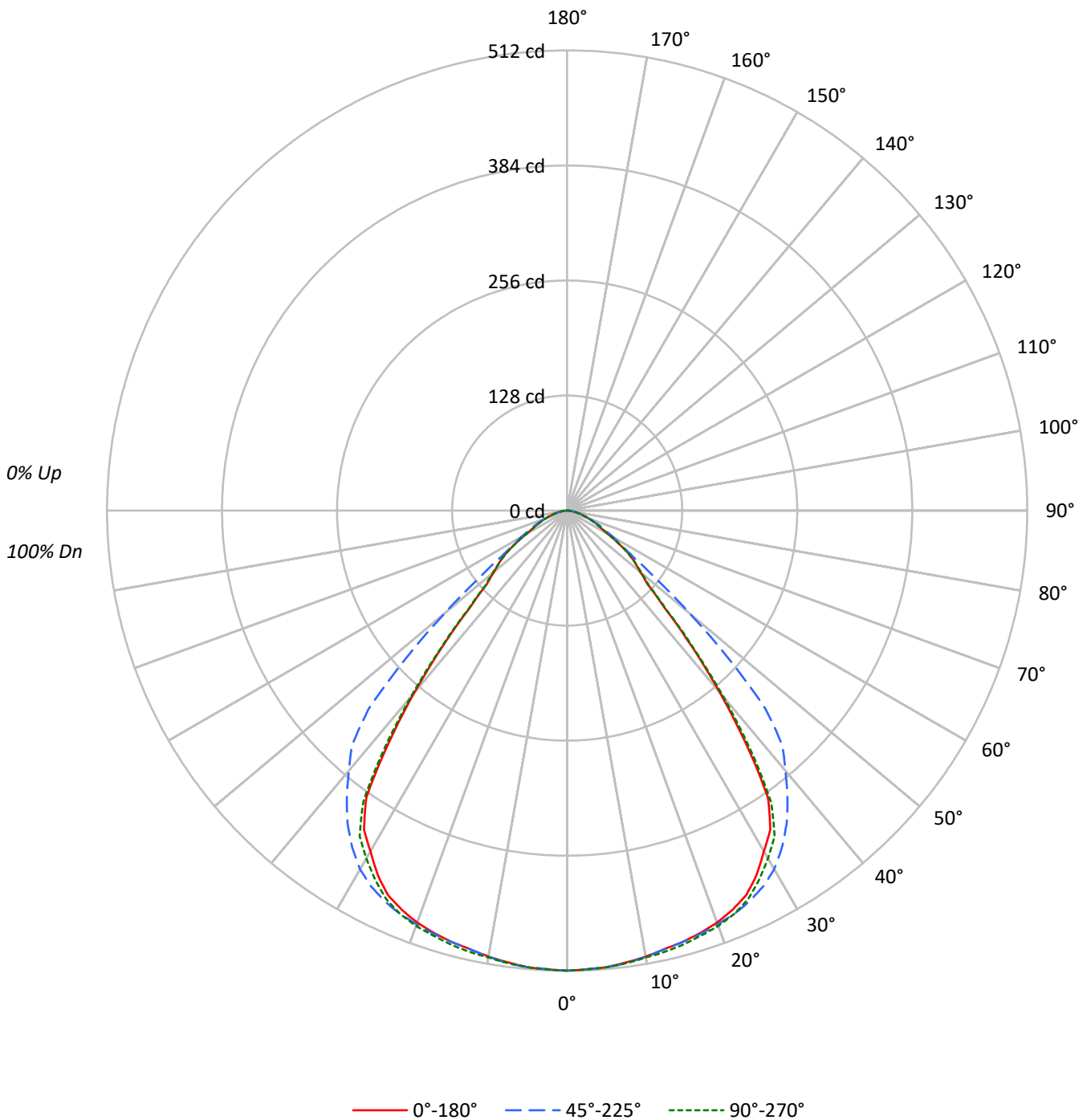
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 22040 | 22040 | 22040 |
| 5° | 22038 | 22038 | 22038 |
| 10° | 22030 | 22030 | 22074 |
| 15° | 22145 | 22145 | 22278 |
| 20° | 22350 | 22442 | 22534 |
| 25° | 22414 | 22794 | 22651 |
| 30° | 21761 | 22909 | 22213 |
| 35° | 20483 | 22375 | 20798 |
| 40° | 14861 | 21223 | 15203 |
| 45° | 9334 | 19028 | 9517 |
| 50° | 7114 | 11943 | 7248 |
| 55° | 6238 | 6696 | 6238 |
| 60° | 4573 | 5089 | 4573 |
| 65° | 3780 | 4085 | 3780 |
| 70° | 3147 | 3273 | 3147 |
| 75° | 2662 | 2662 | 2662 |
| 80° | 2232 | 2232 | 2232 |
| 85° | 1976 | 1976 | 1976 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 48.5 | 5.0 |
| 10°-20° | 140.8 | 14.6 |
| 20°-30° | 219.1 | 22.6 |
| 30°-40° | 250.4 | 25.9 |
| 40°-50° | 167.5 | 17.3 |
| 50°-60° | 80.2 | 8.3 |
| 60°-70° | 39.1 | 4.0 |
| 70°-80° | 17.6 | 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° | 408.4 | 42.2 |
| 0°-40° | 658.8 | 68.1 |
| 0°-60° | 906.5 | 93.7 |
| 0°-90° | 967.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 967.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 512 | 512 | 512 | 512 | 512 | |
| 5° | 510 | 510 | 510 | 510 | 510 | 48 |
| 15° | 497 | 497 | 497 | 499 | 500 | 140 |
| 25° | 472 | 475 | 480 | 479 | 477 | 216 |
| 35° | 390 | 412 | 426 | 418 | 396 | 232 |
| 45° | 153 | 197 | 312 | 200 | 156 | 127 |
| 55° | 83 | 89 | 89 | 90 | 83 | 72 |
| 65° | 37 | 38 | 40 | 38 | 37 | 37 |
| 75° | 16 | 16 | 16 | 16 | 16 | 17 |
| 85° | 4 | 4 | 4 | 4 | 4 | 4 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CATALOG NUMBER: PRS610D010-S6M12-61SWDMW

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 511.9 | 511.9 | 511.9 | 511.9 | 511.9 |
| 2.5° | 510.9 | 510.9 | 510.9 | 510.9 | 510.9 |
| 5° | 509.9 | 509.9 | 509.9 | 509.9 | 509.9 |
| 7.5° | 506.9 | 506.9 | 507.9 | 506.9 | 507.9 |
| 10° | 503.9 | 503.9 | 503.9 | 504.9 | 504.9 |
| 12.5° | 499.8 | 499.8 | 499.8 | 501.9 | 502.9 |
| 15° | 496.8 | 496.8 | 496.8 | 498.8 | 499.8 |
| 17.5° | 492.8 | 492.8 | 493.8 | 495.8 | 495.8 |
| 20° | 487.8 | 488.8 | 489.8 | 491.8 | 491.8 |
| 22.5° | 480.8 | 482.8 | 485.8 | 486.8 | 485.8 |
| 25° | 471.8 | 474.8 | 479.8 | 478.8 | 476.8 |
| 27.5° | 456.8 | 463.8 | 471.8 | 467.8 | 462.8 |
| 30° | 437.7 | 448.8 | 460.8 | 452.8 | 446.8 |
| 32.5° | 420.7 | 429.7 | 444.8 | 435.7 | 429.7 |
| 35° | 389.7 | 411.7 | 425.7 | 417.7 | 395.7 |
| 37.5° | 326.6 | 375.6 | 402.7 | 381.6 | 334.6 |
| 40° | 264.4 | 316.5 | 377.6 | 320.5 | 270.5 |
| 42.5° | 205.3 | 255.4 | 354.6 | 259.4 | 209.4 |
| 45° | 153.3 | 197.3 | 312.5 | 200.3 | 156.3 |
| 47.5° | 121.2 | 146.2 | 243.4 | 149.3 | 123.2 |
| 50° | 106.2 | 116.2 | 178.3 | 118.2 | 108.2 |
| 52.5° | 95.2 | 101.2 | 124.2 | 102.2 | 95.2 |
| 55° | 83.1 | 89.2 | 89.2 | 90.2 | 83.1 |
| 57.5° | 67.1 | 76.1 | 70.1 | 76.1 | 68.1 |
| 60° | 53.1 | 60.1 | 59.1 | 60.1 | 53.1 |
| 62.5° | 43.1 | 47.1 | 48.1 | 47.1 | 43.1 |
| 65° | 37.1 | 38.1 | 40.1 | 38.1 | 37.1 |
| 67.5° | 31.1 | 32.1 | 32.1 | 32.1 | 30.1 |
| 70° | 25.0 | 26.0 | 26.0 | 26.0 | 25.0 |
| 72.5° | 20.0 | 21.0 | 21.0 | 21.0 | 20.0 |
| 75° | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 |
| 77.5° | 12.0 | 13.0 | 12.0 | 13.0 | 12.0 |
| 80° | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 |
| 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)