

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: P238014

Luminaire Tested: **PRS615D010-S6M12-64SMDMW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238014
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS615D010-S6M12-64SMDMW
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW 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: 1504.5 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.95 / 1.01
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

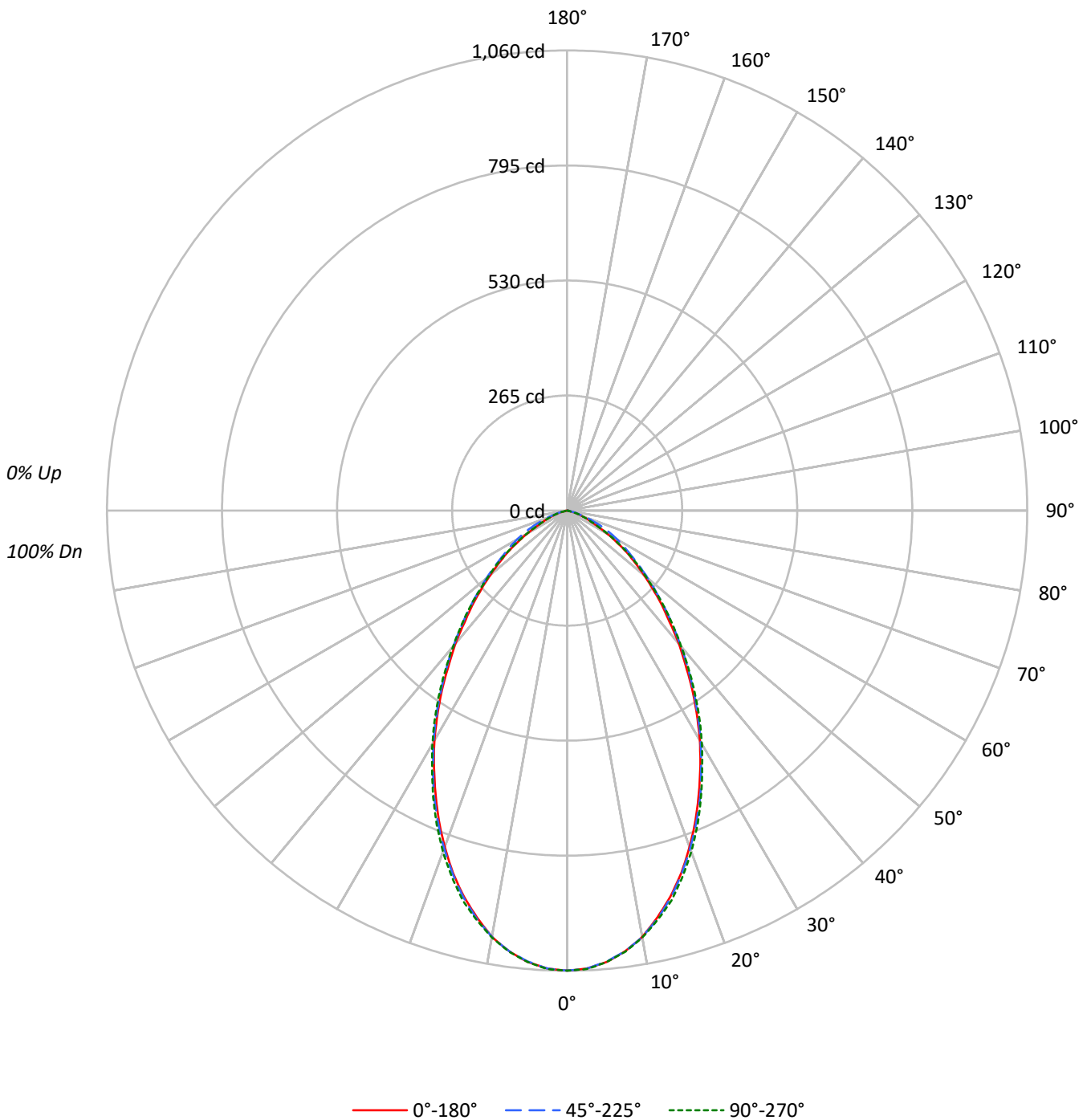
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P238014

CATALOG NUMBER: PRS615D010-S6M12-64SMDMW

Luminous Intensity Polar Plot





TEST NUMBER: P238014

CATALOG NUMBER: PRS615D010-S6M12-64SMDMW

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 | 101 | 102 | 100 | 97 | 98 | 96 | 95 | 95 | 93 | 92 | 90 | | | | | 90 | | | |
| 2 | 104 | 98 | 93 | 88 | 102 | 96 | 91 | 87 | 93 | 89 | 85 | 90 | 86 | 83 | 87 | 84 | 82 | 80 | | | | | 80 | | | |
| 3 | 97 | 89 | 82 | 77 | 95 | 87 | 81 | 76 | 84 | 79 | 75 | 82 | 78 | 74 | 79 | 76 | 73 | 71 | | | | | 71 | | | |
| 4 | 90 | 81 | 74 | 68 | 88 | 79 | 73 | 68 | 77 | 71 | 67 | 75 | 70 | 66 | 73 | 69 | 65 | 63 | | | | | 63 | | | |
| 5 | 84 | 74 | 66 | 61 | 82 | 73 | 66 | 60 | 71 | 65 | 60 | 69 | 64 | 59 | 67 | 62 | 59 | 57 | | | | | 57 | | | |
| 6 | 79 | 68 | 60 | 55 | 77 | 67 | 60 | 55 | 65 | 59 | 54 | 64 | 58 | 54 | 62 | 57 | 53 | 52 | | | | | 52 | | | |
| 7 | 74 | 62 | 55 | 50 | 72 | 62 | 55 | 50 | 60 | 54 | 49 | 59 | 53 | 49 | 58 | 52 | 49 | 47 | | | | | 47 | | | |
| 8 | 69 | 58 | 50 | 45 | 68 | 57 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 45 | 54 | 48 | 45 | 43 | | | | | 43 | | | |
| 9 | 65 | 54 | 47 | 42 | 64 | 53 | 46 | 42 | 52 | 46 | 41 | 51 | 45 | 41 | 50 | 45 | 41 | 39 | | | | | 39 | | | |
| 10 | 62 | 50 | 43 | 38 | 61 | 50 | 43 | 38 | 49 | 43 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 36 | | | | | 36 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 45626 | 45626 | 45626 |
| 5° | 45113 | 45053 | 45113 |
| 10° | 43597 | 43597 | 43654 |
| 15° | 41004 | 41124 | 41423 |
| 20° | 37759 | 37943 | 38309 |
| 25° | 34091 | 34471 | 34661 |
| 30° | 30382 | 30581 | 30844 |
| 35° | 26380 | 26659 | 26943 |
| 40° | 22521 | 22898 | 22971 |
| 45° | 18809 | 19375 | 19375 |
| 50° | 15520 | 16230 | 15875 |
| 55° | 12491 | 13489 | 12791 |
| 60° | 9171 | 11461 | 9403 |
| 65° | 6235 | 9088 | 6378 |
| 70° | 4519 | 5866 | 4519 |
| 75° | 2662 | 3094 | 2429 |
| 80° | 669 | 992 | 669 |
| 85° | 642 | 642 | 642 |



TEST NUMBER: P238014

CATALOG NUMBER: PRS615D010-S6M12-64SMDMW

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 98.2 | 6.5 |
| 10°-20° | 258.3 | 17.2 |
| 20°-30° | 331.6 | 22.0 |
| 30°-40° | 316.9 | 21.1 |
| 40°-50° | 245.4 | 16.3 |
| 50°-60° | 157.8 | 10.5 |
| 60°-70° | 74.8 | 5.0 |
| 70°-80° | 20.0 | 1.3 |
| 80°-90° | 1.5 | 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° | 688.1 | 45.7 |
| 0°-40° | 1004.9 | 66.8 |
| 0°-60° | 1408.2 | 93.6 |
| 0°-90° | 1504.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1504.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1060 | 1060 | 1060 | 1060 | 1060 | |
| 5° | 1044 | 1044 | 1042 | 1044 | 1044 | 98 |
| 15° | 920 | 921 | 923 | 927 | 929 | 257 |
| 25° | 718 | 719 | 726 | 727 | 730 | 329 |
| 35° | 502 | 503 | 507 | 510 | 513 | 313 |
| 45° | 309 | 316 | 318 | 321 | 318 | 239 |
| 55° | 166 | 176 | 180 | 178 | 170 | 149 |
| 65° | 61 | 71 | 89 | 71 | 63 | 64 |
| 75° | 16 | 19 | 19 | 19 | 15 | 17 |
| 85° | 1 | 1 | 1 | 1 | 1 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P238014

CATALOG NUMBER: PRS615D010-S6M12-64SMDMW

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1059.7 | 1059.7 | 1059.7 | 1059.7 | 1059.7 |
| 2.5° | 1055.7 | 1055.7 | 1055.7 | 1055.7 | 1057.1 |
| 5° | 1043.8 | 1043.8 | 1042.4 | 1043.8 | 1043.8 |
| 7.5° | 1023.8 | 1023.8 | 1023.8 | 1025.1 | 1025.1 |
| 10° | 997.2 | 997.2 | 997.2 | 998.5 | 998.5 |
| 12.5° | 959.9 | 961.2 | 962.6 | 965.2 | 965.2 |
| 15° | 919.9 | 921.3 | 922.6 | 926.6 | 929.3 |
| 17.5° | 874.7 | 876.0 | 877.3 | 882.7 | 884.0 |
| 20° | 824.1 | 824.1 | 828.1 | 834.7 | 836.1 |
| 22.5° | 772.2 | 773.5 | 777.5 | 780.2 | 784.2 |
| 25° | 717.6 | 718.9 | 725.6 | 726.9 | 729.6 |
| 27.5° | 664.3 | 664.3 | 668.3 | 671.0 | 673.7 |
| 30° | 611.1 | 611.1 | 615.1 | 616.4 | 620.4 |
| 32.5° | 555.2 | 556.5 | 560.5 | 563.2 | 567.1 |
| 35° | 501.9 | 503.2 | 507.2 | 509.9 | 512.6 |
| 37.5° | 447.3 | 454.0 | 456.6 | 459.3 | 459.3 |
| 40° | 400.7 | 404.7 | 407.4 | 411.4 | 408.7 |
| 42.5° | 350.1 | 359.5 | 360.8 | 364.8 | 362.1 |
| 45° | 308.9 | 315.5 | 318.2 | 320.9 | 318.2 |
| 47.5° | 267.6 | 275.6 | 278.2 | 279.6 | 275.6 |
| 50° | 231.7 | 238.3 | 242.3 | 242.3 | 237.0 |
| 52.5° | 197.0 | 205.0 | 209.0 | 209.0 | 203.7 |
| 55° | 166.4 | 175.7 | 179.7 | 178.4 | 170.4 |
| 57.5° | 134.5 | 146.4 | 155.8 | 149.1 | 138.5 |
| 60° | 106.5 | 119.8 | 133.1 | 121.2 | 109.2 |
| 62.5° | 79.9 | 93.2 | 110.5 | 94.5 | 81.2 |
| 65° | 61.2 | 70.6 | 89.2 | 70.6 | 62.6 |
| 67.5° | 47.9 | 53.3 | 66.6 | 53.3 | 47.9 |
| 70° | 35.9 | 39.9 | 46.6 | 39.9 | 35.9 |
| 72.5° | 25.3 | 29.3 | 30.6 | 29.3 | 25.3 |
| 75° | 16.0 | 18.6 | 18.6 | 18.6 | 14.6 |
| 77.5° | 5.3 | 8.0 | 10.7 | 8.0 | 5.3 |
| 80° | 2.7 | 2.7 | 4.0 | 2.7 | 2.7 |
| 82.5° | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| 85° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)