

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: P253021

Luminaire Tested: **PRS630D010-S6M24-64SWDMW-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253021
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1804-748-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS630D010-S6M24-64SWDMW-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2648.4 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.32 / 1.41
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

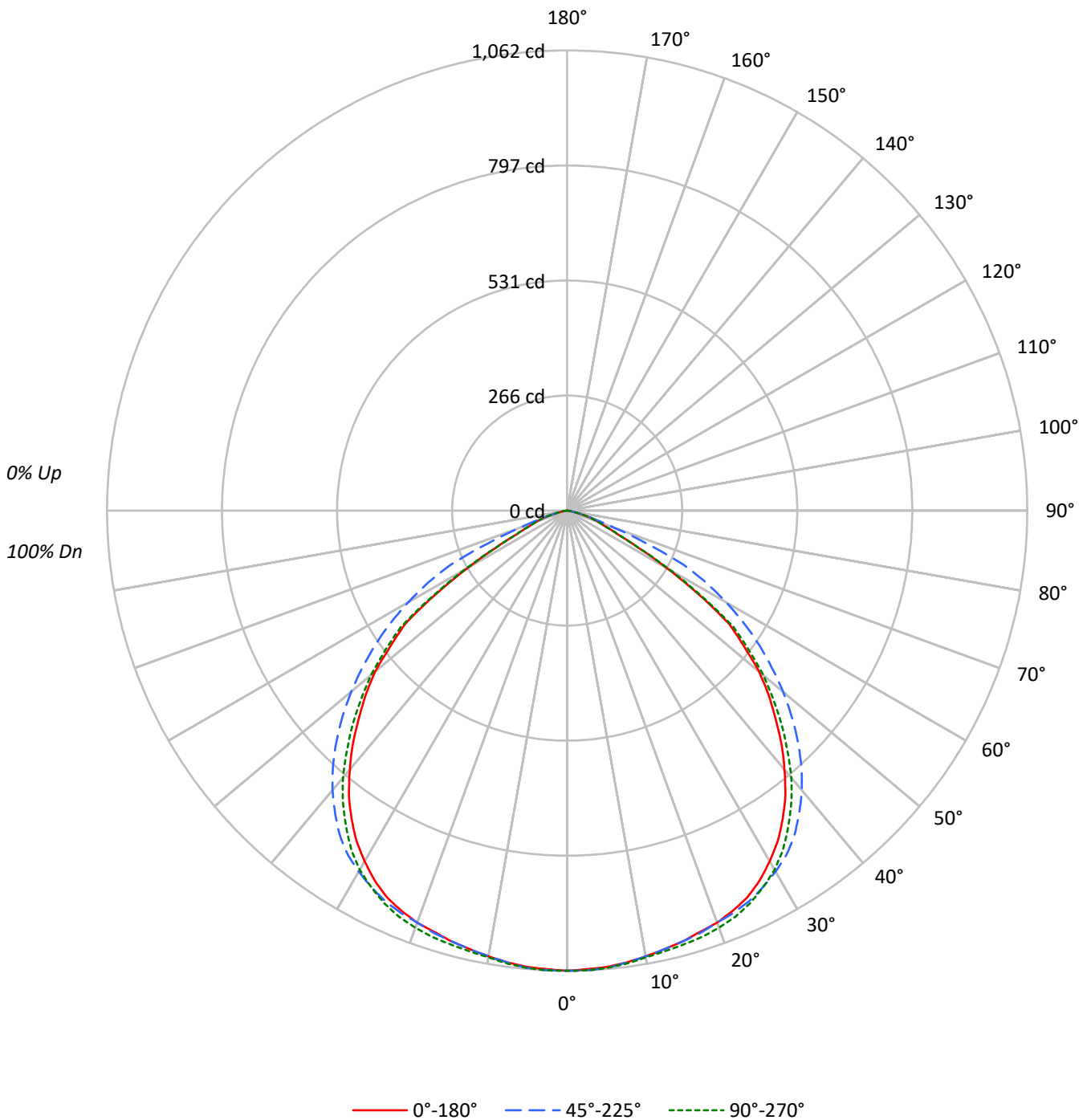
Input Watts (W): 25.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 100 | 100 | 100 | 100 | 100 | | |
| 1 | 111 | 107 | 103 | 100 | 108 | 105 | 101 | 99 | 100 | 98 | 95 | 97 | 95 | 93 | 93 | 91 | 90 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | | |
| 2 | 102 | 95 | 89 | 84 | 100 | 93 | 88 | 83 | 90 | 85 | 81 | 86 | 83 | 79 | 84 | 80 | 78 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | | |
| 3 | 94 | 84 | 77 | 72 | 91 | 83 | 76 | 71 | 80 | 74 | 70 | 77 | 73 | 68 | 75 | 71 | 67 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | | |
| 4 | 86 | 76 | 68 | 61 | 84 | 74 | 67 | 61 | 72 | 65 | 60 | 70 | 64 | 59 | 67 | 63 | 59 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | | |
| 5 | 80 | 68 | 60 | 53 | 78 | 67 | 59 | 53 | 65 | 58 | 53 | 63 | 57 | 52 | 61 | 56 | 52 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | | |
| 6 | 74 | 61 | 53 | 47 | 72 | 60 | 52 | 47 | 59 | 52 | 46 | 57 | 51 | 46 | 55 | 50 | 46 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | | |
| 7 | 68 | 56 | 47 | 42 | 67 | 55 | 47 | 41 | 53 | 46 | 41 | 52 | 46 | 41 | 51 | 45 | 41 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | | |
| 8 | 64 | 51 | 43 | 37 | 62 | 50 | 42 | 37 | 49 | 42 | 37 | 48 | 41 | 37 | 47 | 41 | 36 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | | |
| 9 | 60 | 47 | 39 | 34 | 58 | 46 | 39 | 33 | 45 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | | |
| 10 | 56 | 43 | 35 | 30 | 55 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 30 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 45721 | 45721 | 45721 |
| 5° | 45679 | 45787 | 45787 |
| 10° | 45661 | 45661 | 45770 |
| 15° | 45889 | 45889 | 46219 |
| 20° | 46369 | 46369 | 46941 |
| 25° | 46775 | 47250 | 47483 |
| 30° | 46470 | 47837 | 47589 |
| 35° | 45592 | 48083 | 46774 |
| 40° | 43851 | 47353 | 45251 |
| 45° | 41436 | 45838 | 42647 |
| 50° | 38736 | 43579 | 39573 |
| 55° | 34245 | 40603 | 35176 |
| 60° | 22966 | 36485 | 23612 |
| 65° | 12949 | 30217 | 12949 |
| 70° | 9731 | 14754 | 9416 |
| 75° | 5806 | 6638 | 6222 |
| 80° | 2479 | 3099 | 2479 |
| 85° | 1235 | 1235 | 1235 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 100.6 | 3.8 |
| 10°-20° | 291.8 | 11.0 |
| 20°-30° | 457.1 | 17.3 |
| 30°-40° | 558.5 | 21.1 |
| 40°-50° | 555.2 | 21.0 |
| 50°-60° | 438.4 | 16.6 |
| 60°-70° | 196.2 | 7.4 |
| 70°-80° | 45.7 | 1.7 |
| 80°-90° | 4.8 | 0.2 |
| 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° | 849.5 | 32.1 |
| 0°-40° | 1408.0 | 53.2 |
| 0°-60° | 2401.7 | 90.7 |
| 0°-90° | 2648.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2648.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1062 | 1062 | 1062 | 1062 | 1062 | |
| 5° | 1057 | 1057 | 1059 | 1059 | 1059 | 100 |
| 15° | 1030 | 1027 | 1030 | 1032 | 1037 | 291 |
| 25° | 985 | 987 | 995 | 997 | 1000 | 453 |
| 35° | 867 | 885 | 915 | 902 | 890 | 541 |
| 45° | 680 | 713 | 753 | 730 | 700 | 525 |
| 55° | 456 | 491 | 541 | 501 | 469 | 390 |
| 65° | 127 | 167 | 297 | 170 | 127 | 142 |
| 75° | 35 | 42 | 40 | 42 | 37 | 40 |
| 85° | 2 | 2 | 2 | 2 | 2 | 5 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P253021

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1061.9 | 1061.9 | 1061.9 | 1061.9 | 1061.9 |
| 2.5° | 1059.4 | 1061.9 | 1061.9 | 1061.9 | 1061.9 |
| 5° | 1056.9 | 1056.9 | 1059.4 | 1059.4 | 1059.4 |
| 7.5° | 1051.9 | 1051.9 | 1051.9 | 1054.4 | 1054.4 |
| 10° | 1044.4 | 1044.4 | 1044.4 | 1046.9 | 1046.9 |
| 12.5° | 1036.9 | 1036.9 | 1036.9 | 1039.4 | 1041.9 |
| 15° | 1029.5 | 1027.0 | 1029.5 | 1032.0 | 1036.9 |
| 17.5° | 1019.5 | 1022.0 | 1022.0 | 1027.0 | 1032.0 |
| 20° | 1012.0 | 1012.0 | 1012.0 | 1019.5 | 1024.5 |
| 22.5° | 999.5 | 999.5 | 1004.5 | 1009.5 | 1014.5 |
| 25° | 984.6 | 987.1 | 994.6 | 997.1 | 999.5 |
| 27.5° | 962.2 | 969.6 | 979.6 | 982.1 | 979.6 |
| 30° | 934.7 | 944.7 | 962.2 | 959.7 | 957.2 |
| 32.5° | 904.8 | 917.3 | 942.2 | 934.7 | 927.3 |
| 35° | 867.4 | 884.9 | 914.8 | 902.3 | 889.9 |
| 37.5° | 827.6 | 850.0 | 879.9 | 867.4 | 850.0 |
| 40° | 780.2 | 807.6 | 842.5 | 825.1 | 805.1 |
| 42.5° | 732.8 | 762.7 | 800.1 | 777.7 | 752.8 |
| 45° | 680.5 | 712.9 | 752.8 | 730.3 | 700.4 |
| 47.5° | 630.6 | 663.0 | 702.9 | 675.5 | 645.6 |
| 50° | 578.3 | 608.2 | 650.6 | 620.7 | 590.8 |
| 52.5° | 513.5 | 553.4 | 595.7 | 563.3 | 528.4 |
| 55° | 456.2 | 491.1 | 540.9 | 501.0 | 468.6 |
| 57.5° | 358.9 | 428.7 | 483.6 | 436.2 | 368.9 |
| 60° | 266.7 | 334.0 | 423.7 | 344.0 | 274.2 |
| 62.5° | 184.5 | 246.8 | 363.9 | 249.3 | 186.9 |
| 65° | 127.1 | 167.0 | 296.6 | 169.5 | 127.1 |
| 67.5° | 94.7 | 112.2 | 199.4 | 112.2 | 94.7 |
| 70° | 77.3 | 82.3 | 117.2 | 82.3 | 74.8 |
| 72.5° | 57.3 | 64.8 | 64.8 | 64.8 | 59.8 |
| 75° | 34.9 | 42.4 | 39.9 | 42.4 | 37.4 |
| 77.5° | 15.0 | 19.9 | 24.9 | 22.4 | 15.0 |
| 80° | 10.0 | 10.0 | 12.5 | 10.0 | 10.0 |
| 82.5° | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 |
| 85° | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| 87.5° | 2.5 | 2.5 | 2.5 | 2.5 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)