

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

Report Number: P14163

Luminaire Tested: **L80248030**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P14163
Test Lab: INNOVATION CENTER-P1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L80248030
Description: HALO SPAN LED WALL WASH WITH 0 DEG TILT
Light Source: [98] 3000K LEDS
Ballast/Driver: [1] ELECTRONIC DRIVER

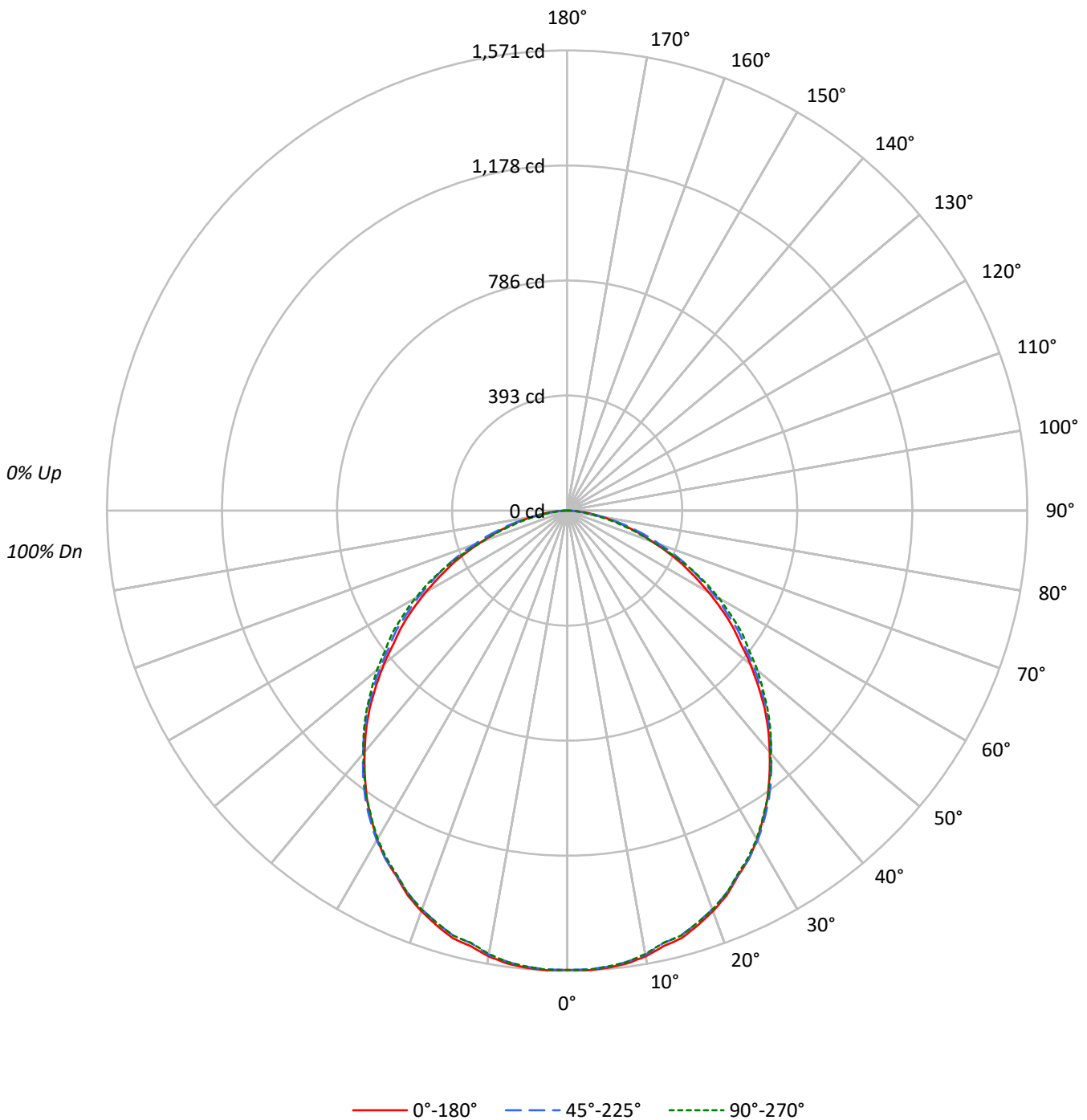
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4058.3 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.32' x L: 1.88' x H: 0')
CIE Type: Direct

Input Watts (W): 49
Input Voltage (V): NR
Input Current (Ain): 0.41006
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 13 HR
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 | 109 | 105 | 101 | 97 | 107 | 103 | 99 | 96 | 98 | 95 | 93 | 94 | 92 | 90 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 87 | 81 | 77 | 83 | 79 | 75 | 80 | 77 | 74 | 72 |
| 3 | 91 | 81 | 73 | 67 | 89 | 80 | 72 | 66 | 77 | 70 | 65 | 74 | 68 | 64 | 71 | 67 | 63 | 61 |
| 4 | 84 | 72 | 64 | 57 | 81 | 71 | 63 | 57 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 54 | 52 |
| 5 | 77 | 65 | 56 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 58 | 52 | 48 | 45 |
| 6 | 71 | 58 | 50 | 43 | 69 | 57 | 49 | 43 | 56 | 48 | 43 | 54 | 47 | 42 | 52 | 46 | 42 | 40 |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 51 | 43 | 38 | 49 | 43 | 38 | 48 | 42 | 37 | 35 |
| 8 | 62 | 48 | 40 | 34 | 60 | 48 | 40 | 34 | 46 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 32 |
| 9 | 58 | 44 | 36 | 31 | 56 | 44 | 36 | 31 | 43 | 36 | 31 | 42 | 35 | 31 | 41 | 35 | 30 | 29 |
| 10 | 54 | 41 | 33 | 28 | 53 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 28 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 27876 | 27876 | 27876 |
| 5° | 27964 | 27911 | 27893 |
| 10° | 27890 | 27800 | 27746 |
| 15° | 27810 | 27644 | 27644 |
| 20° | 27527 | 27413 | 27432 |
| 25° | 27030 | 26971 | 26932 |
| 30° | 26625 | 26686 | 26563 |
| 35° | 25891 | 26065 | 25913 |
| 40° | 24971 | 25157 | 25110 |
| 45° | 23960 | 24211 | 24387 |
| 50° | 22596 | 23011 | 23453 |
| 55° | 21355 | 22068 | 22595 |
| 60° | 19804 | 20764 | 21298 |
| 65° | 18257 | 19392 | 19308 |
| 70° | 16009 | 17413 | 15957 |
| 75° | 14356 | 15249 | 13394 |
| 80° | 11978 | 12183 | 10238 |
| 85° | 9995 | 8567 | 7751 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 148.6 | 3.7 |
| 10°-20° | 423.6 | 10.4 |
| 20°-30° | 635.3 | 15.7 |
| 30°-40° | 747.2 | 18.4 |
| 40°-50° | 741.9 | 18.3 |
| 50°-60° | 633.4 | 15.6 |
| 60°-70° | 448.0 | 11.0 |
| 70°-80° | 226.4 | 5.6 |
| 80°-90° | 54.1 | 1.3 |
| 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° | 1207.4 | 29.8 |
| 0°-40° | 1954.6 | 48.2 |
| 0°-60° | 3329.9 | 82.1 |
| 0°-90° | 4058.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4058.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1568 | 1568 | 1568 | 1568 | 1568 | |
| 5° | 1567 | 1567 | 1564 | 1562 | 1563 | 149 |
| 15° | 1511 | 1507 | 1502 | 1500 | 1502 | 425 |
| 25° | 1378 | 1376 | 1375 | 1374 | 1373 | 636 |
| 35° | 1193 | 1196 | 1201 | 1195 | 1194 | 745 |
| 45° | 953 | 963 | 963 | 967 | 970 | 733 |
| 55° | 689 | 701 | 712 | 727 | 729 | 614 |
| 65° | 434 | 444 | 461 | 467 | 459 | 428 |
| 75° | 209 | 221 | 222 | 204 | 195 | 222 |
| 85° | 49 | 54 | 42 | 39 | 38 | 58 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P14163
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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|------|-------|------|-------|------|
| 0° | 1568 | 1568 | 1568 | 1568 | 1568 |
| 2.5° | 1571 | 1569 | 1568 | 1566 | 1569 |
| 5° | 1567 | 1567 | 1564 | 1562 | 1563 |
| 7.5° | 1560 | 1559 | 1554 | 1552 | 1555 |
| 10° | 1545 | 1544 | 1540 | 1537 | 1537 |
| 12.5° | 1523 | 1520 | 1513 | 1512 | 1512 |
| 15° | 1511 | 1507 | 1502 | 1500 | 1502 |
| 17.5° | 1484 | 1483 | 1476 | 1476 | 1476 |
| 20° | 1455 | 1453 | 1449 | 1448 | 1450 |
| 22.5° | 1422 | 1420 | 1416 | 1417 | 1417 |
| 25° | 1378 | 1376 | 1375 | 1374 | 1373 |
| 27.5° | 1342 | 1341 | 1342 | 1340 | 1337 |
| 30° | 1297 | 1298 | 1300 | 1296 | 1294 |
| 32.5° | 1246 | 1248 | 1252 | 1246 | 1243 |
| 35° | 1193 | 1196 | 1201 | 1195 | 1194 |
| 37.5° | 1135 | 1141 | 1144 | 1140 | 1138 |
| 40° | 1076 | 1084 | 1084 | 1083 | 1082 |
| 42.5° | 1016 | 1024 | 1025 | 1026 | 1028 |
| 45° | 953 | 963 | 963 | 967 | 970 |
| 47.5° | 884 | 897 | 897 | 905 | 907 |
| 50° | 817 | 831 | 832 | 846 | 848 |
| 52.5° | 747 | 760 | 766 | 779 | 782 |
| 55° | 689 | 701 | 712 | 727 | 729 |
| 57.5° | 623 | 634 | 643 | 661 | 662 |
| 60° | 557 | 569 | 584 | 599 | 599 |
| 62.5° | 493 | 504 | 520 | 533 | 531 |
| 65° | 434 | 444 | 461 | 467 | 459 |
| 67.5° | 371 | 382 | 399 | 396 | 382 |
| 70° | 308 | 320 | 335 | 320 | 307 |
| 72.5° | 259 | 270 | 280 | 260 | 249 |
| 75° | 209 | 221 | 222 | 204 | 195 |
| 77.5° | 162 | 175 | 170 | 152 | 147 |
| 80° | 117 | 127 | 119 | 105 | 100 |
| 82.5° | 81 | 89 | 78 | 70 | 66 |
| 85° | 49 | 54 | 42 | 39 | 38 |
| 87.5° | 24 | 24 | 17 | 16 | 15 |
| 90° | 0 | 0 | 0 | 0 | 0 |

(END OF REPORT)