

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: P238045

Luminaire Tested: **PRS620D010-S6M12-64SNDH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238045
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS620D010-S6M12-64SNDH
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

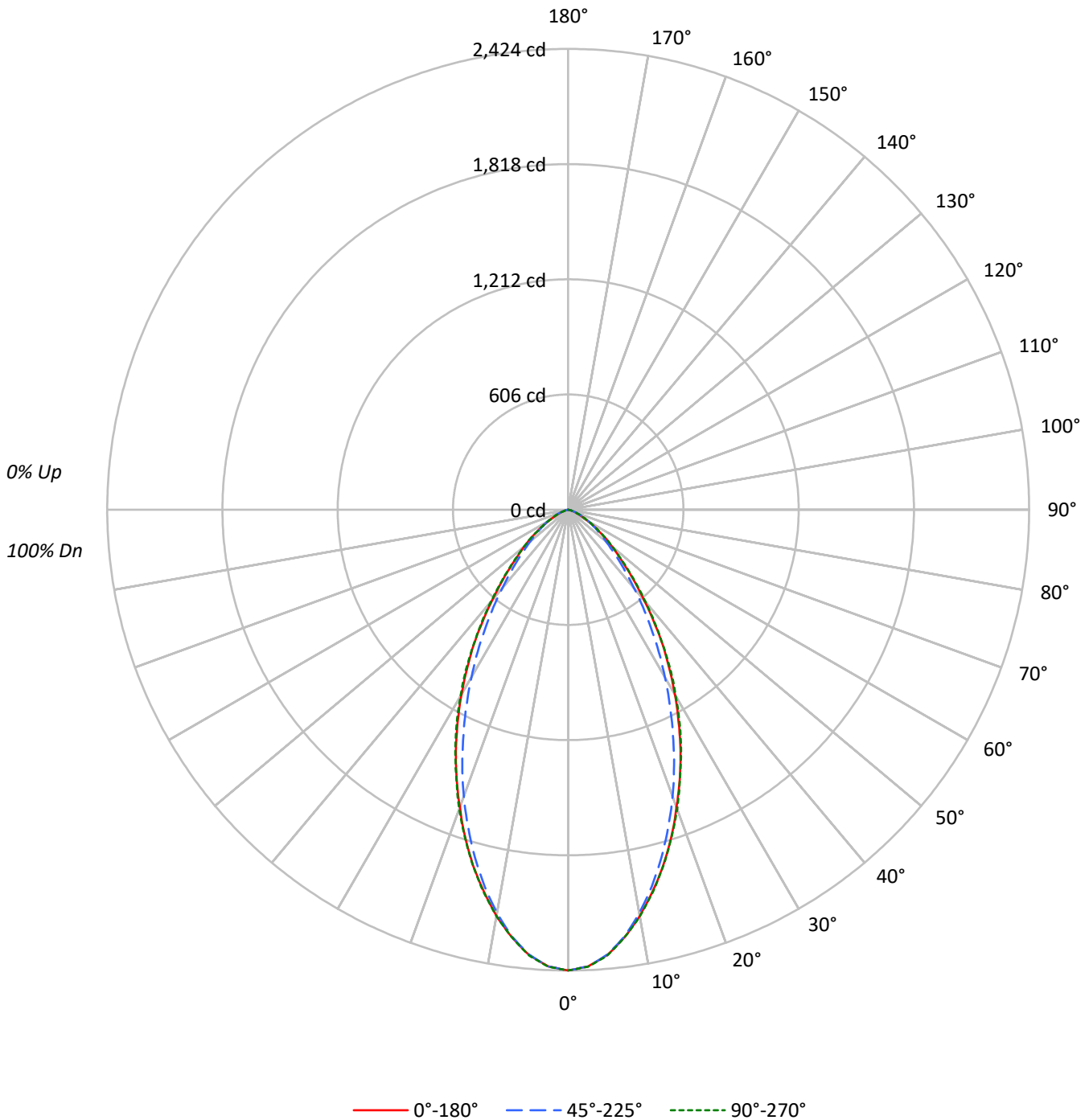
Lumens per Lamp: N/A
Luminaire Lumens: 2459.4 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.85
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 20
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





TEST NUMBER: P238045

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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 | 109 | 106 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99 | 99 | 98 | 96 | 96 | 94 | 93 | 91 | | | | | 91 | | | |
| 2 | 106 | 100 | 95 | 91 | 103 | 98 | 94 | 90 | 95 | 91 | 88 | 92 | 89 | 86 | 89 | 87 | 85 | 83 | | | | | 83 | | | |
| 3 | 99 | 92 | 86 | 81 | 97 | 90 | 85 | 81 | 88 | 83 | 79 | 85 | 81 | 78 | 83 | 79 | 77 | 75 | | | | | 75 | | | |
| 4 | 93 | 84 | 78 | 73 | 91 | 83 | 77 | 73 | 81 | 76 | 72 | 79 | 74 | 71 | 77 | 73 | 70 | 68 | | | | | 68 | | | |
| 5 | 88 | 78 | 71 | 66 | 86 | 77 | 71 | 66 | 75 | 69 | 65 | 73 | 68 | 65 | 72 | 67 | 64 | 62 | | | | | 62 | | | |
| 6 | 82 | 72 | 65 | 60 | 81 | 71 | 65 | 60 | 70 | 64 | 60 | 68 | 63 | 59 | 67 | 62 | 59 | 57 | | | | | 57 | | | |
| 7 | 78 | 67 | 60 | 56 | 76 | 66 | 60 | 55 | 65 | 59 | 55 | 64 | 59 | 55 | 63 | 58 | 54 | 53 | | | | | 53 | | | |
| 8 | 74 | 63 | 56 | 51 | 72 | 62 | 56 | 51 | 61 | 55 | 51 | 60 | 55 | 51 | 59 | 54 | 51 | 49 | | | | | 49 | | | |
| 9 | 70 | 59 | 52 | 48 | 68 | 58 | 52 | 48 | 57 | 51 | 47 | 56 | 51 | 47 | 55 | 51 | 47 | 46 | | | | | 46 | | | |
| 10 | 66 | 55 | 49 | 44 | 65 | 55 | 49 | 44 | 54 | 48 | 44 | 53 | 48 | 44 | 52 | 47 | 44 | 43 | | | | | 43 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 104345 | 104345 | 104345 |
| 5° | 101649 | 101554 | 101744 |
| 10° | 94850 | 94186 | 94942 |
| 15° | 86247 | 84411 | 86345 |
| 20° | 76316 | 73530 | 76815 |
| 25° | 66338 | 61901 | 66747 |
| 30° | 55817 | 50527 | 56249 |
| 35° | 45429 | 39836 | 45544 |
| 40° | 34909 | 30390 | 35398 |
| 45° | 26317 | 22876 | 26840 |
| 50° | 20075 | 17456 | 20510 |
| 55° | 14998 | 13692 | 14998 |
| 60° | 10471 | 11031 | 10661 |
| 65° | 7081 | 8405 | 7305 |
| 70° | 4922 | 5463 | 4645 |
| 75° | 2163 | 2529 | 2163 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 218.4 | 8.9 |
| 10°-20° | 533.5 | 21.7 |
| 20°-30° | 617.2 | 25.1 |
| 30°-40° | 505.2 | 20.5 |
| 40°-50° | 316.0 | 12.8 |
| 50°-60° | 173.8 | 7.1 |
| 60°-70° | 77.5 | 3.2 |
| 70°-80° | 17.7 | 0.7 |
| 80°-90° | 0.0 | 0.0 |
| 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° | 1369.1 | 55.7 |
| 0°-40° | 1874.3 | 76.2 |
| 0°-60° | 2364.1 | 96.1 |
| 0°-90° | 2459.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2459.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2424 | 2424 | 2424 | 2424 | 2424 | |
| 5° | 2352 | 2350 | 2350 | 2354 | 2354 | 219 |
| 15° | 1935 | 1913 | 1894 | 1918 | 1937 | 539 |
| 25° | 1396 | 1342 | 1303 | 1349 | 1405 | 638 |
| 35° | 864 | 799 | 758 | 806 | 866 | 537 |
| 45° | 432 | 395 | 376 | 402 | 441 | 340 |
| 55° | 200 | 191 | 182 | 195 | 200 | 181 |
| 65° | 70 | 76 | 82 | 76 | 72 | 73 |
| 75° | 13 | 15 | 15 | 15 | 13 | 15 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P238045

CATALOG NUMBER: PRS620D010-S6M12-64SNDH

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2423.5 | 2423.5 | 2423.5 | 2423.5 | 2423.5 |
| 2.5° | 2404.0 | 2406.2 | 2404.0 | 2406.2 | 2406.2 |
| 5° | 2351.9 | 2349.7 | 2349.7 | 2354.1 | 2354.1 |
| 7.5° | 2269.4 | 2267.2 | 2265.0 | 2269.4 | 2269.4 |
| 10° | 2169.5 | 2165.1 | 2154.3 | 2167.3 | 2171.6 |
| 12.5° | 2054.4 | 2045.7 | 2030.5 | 2045.7 | 2058.7 |
| 15° | 1934.9 | 1913.2 | 1893.7 | 1917.6 | 1937.1 |
| 17.5° | 1804.6 | 1776.4 | 1750.3 | 1774.2 | 1806.8 |
| 20° | 1665.6 | 1633.1 | 1604.8 | 1635.2 | 1676.5 |
| 22.5° | 1533.2 | 1487.6 | 1455.0 | 1491.9 | 1535.3 |
| 25° | 1396.4 | 1342.1 | 1303.0 | 1348.6 | 1405.0 |
| 27.5° | 1257.4 | 1198.7 | 1157.5 | 1207.4 | 1270.4 |
| 30° | 1122.7 | 1059.8 | 1016.3 | 1070.6 | 1131.4 |
| 32.5° | 988.1 | 929.5 | 886.0 | 938.1 | 1003.3 |
| 35° | 864.3 | 799.2 | 757.9 | 805.7 | 866.5 |
| 37.5° | 736.2 | 677.6 | 645.0 | 686.2 | 747.0 |
| 40° | 621.1 | 569.0 | 540.7 | 577.7 | 629.8 |
| 42.5° | 521.2 | 475.6 | 451.7 | 479.9 | 532.1 |
| 45° | 432.2 | 395.2 | 375.7 | 401.8 | 440.8 |
| 47.5° | 358.3 | 330.1 | 310.5 | 334.4 | 364.8 |
| 50° | 299.7 | 273.6 | 260.6 | 278.0 | 306.2 |
| 52.5° | 247.6 | 230.2 | 215.0 | 232.4 | 254.1 |
| 55° | 199.8 | 191.1 | 182.4 | 195.4 | 199.8 |
| 57.5° | 156.4 | 154.2 | 152.0 | 156.4 | 158.5 |
| 60° | 121.6 | 123.8 | 128.1 | 123.8 | 123.8 |
| 62.5° | 93.4 | 97.7 | 106.4 | 97.7 | 95.6 |
| 65° | 69.5 | 76.0 | 82.5 | 76.0 | 71.7 |
| 67.5° | 52.1 | 56.5 | 60.8 | 56.5 | 52.1 |
| 70° | 39.1 | 41.3 | 43.4 | 41.3 | 36.9 |
| 72.5° | 23.9 | 28.2 | 28.2 | 28.2 | 23.9 |
| 75° | 13.0 | 15.2 | 15.2 | 15.2 | 13.0 |
| 77.5° | 2.2 | 6.5 | 6.5 | 6.5 | 2.2 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)