

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: P238226

Luminaire Tested: **PRS630D010-S6M24-61SNDH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238226
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-19)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS630D010-S6M24-61SNDH
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

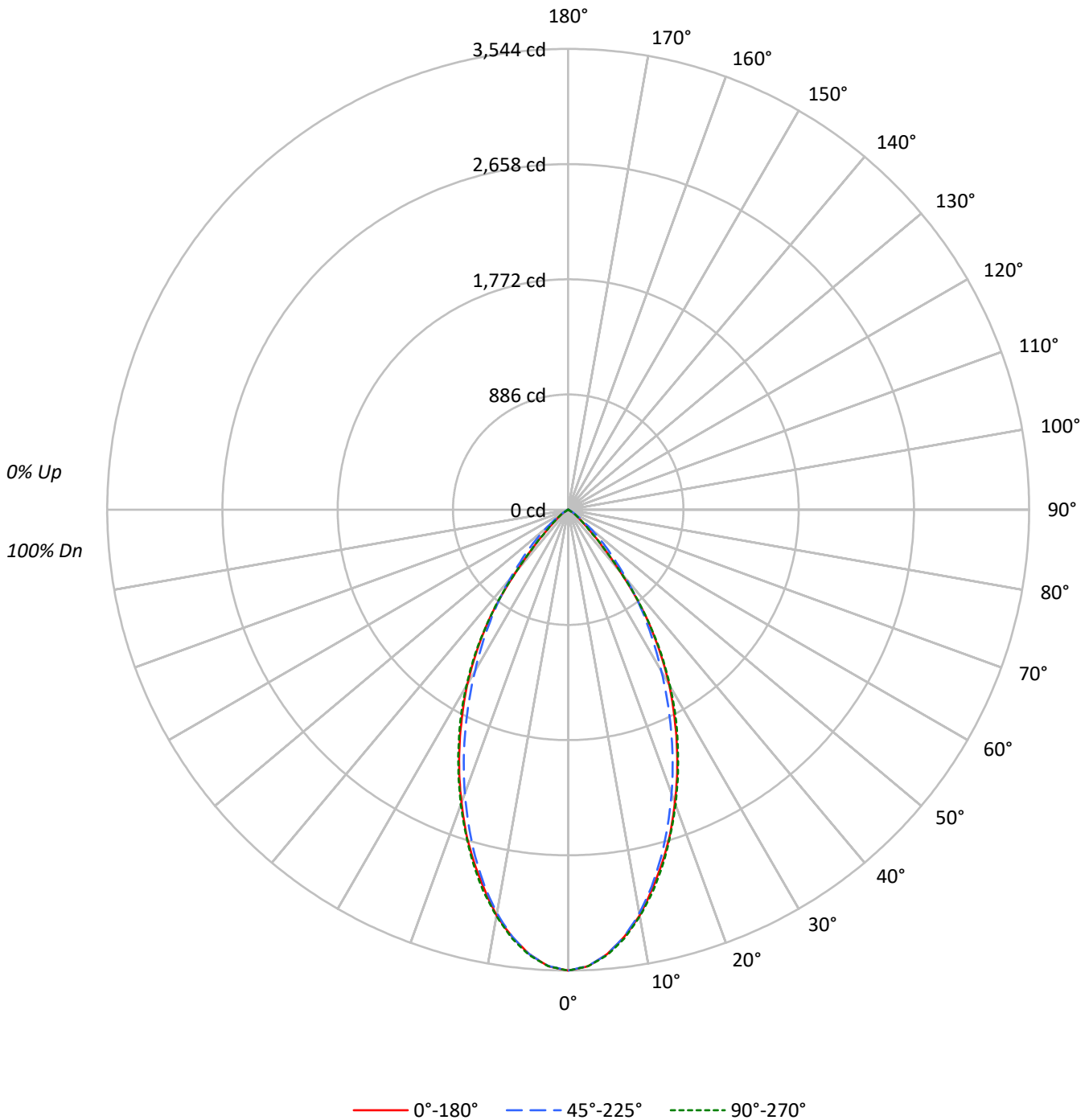
Lumens per Lamp: N/A
Luminaire Lumens: 3001.6 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.84
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | | 106 | 106 | 106 | | 102 | 102 | 102 | 100 |
| 1 | 113 | 111 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 102 | 101 | | 101 | 99 | 98 | | 97 | 96 | 95 | 93 |
| 2 | 108 | 102 | 98 | 95 | 105 | 101 | 97 | 94 | 98 | 94 | 92 | | 95 | 92 | 90 | | 92 | 90 | 88 | 86 |
| 3 | 102 | 95 | 90 | 86 | 100 | 94 | 89 | 85 | 91 | 87 | 84 | | 89 | 85 | 83 | | 86 | 84 | 81 | 80 |
| 4 | 96 | 89 | 83 | 79 | 95 | 87 | 82 | 78 | 85 | 81 | 77 | | 83 | 79 | 76 | | 81 | 78 | 75 | 74 |
| 5 | 91 | 83 | 77 | 72 | 90 | 82 | 76 | 72 | 80 | 75 | 71 | | 78 | 74 | 71 | | 77 | 73 | 70 | 68 |
| 6 | 87 | 77 | 71 | 67 | 85 | 77 | 71 | 66 | 75 | 70 | 66 | | 74 | 69 | 66 | | 72 | 68 | 65 | 64 |
| 7 | 82 | 72 | 66 | 62 | 81 | 72 | 66 | 62 | 70 | 65 | 61 | | 69 | 65 | 61 | | 68 | 64 | 61 | 59 |
| 8 | 78 | 68 | 62 | 58 | 77 | 68 | 62 | 58 | 66 | 61 | 57 | | 65 | 61 | 57 | | 64 | 60 | 57 | 55 |
| 9 | 74 | 64 | 58 | 54 | 73 | 64 | 58 | 54 | 63 | 57 | 54 | | 62 | 57 | 53 | | 61 | 57 | 53 | 52 |
| 10 | 71 | 61 | 55 | 51 | 69 | 60 | 54 | 51 | 59 | 54 | 50 | | 58 | 54 | 50 | | 58 | 53 | 50 | 49 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 152594 | 152594 | 152594 |
| 5° | 148280 | 148280 | 148638 |
| 10° | 138509 | 137788 | 138754 |
| 15° | 124951 | 123106 | 125691 |
| 20° | 109819 | 106401 | 110579 |
| 25° | 93773 | 88913 | 94690 |
| 30° | 77244 | 71194 | 77791 |
| 35° | 58269 | 54927 | 58558 |
| 40° | 34960 | 39158 | 34960 |
| 45° | 16495 | 25586 | 16495 |
| 50° | 8520 | 14629 | 8333 |
| 55° | 4774 | 6433 | 4774 |
| 60° | 1903 | 2859 | 1903 |
| 65° | 560 | 1131 | 560 |
| 70° | 352 | 352 | 352 |
| 75° | 0 | 0 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 319.0 | 10.6 |
| 10°-20° | 775.6 | 25.8 |
| 20°-30° | 879.7 | 29.3 |
| 30°-40° | 665.2 | 22.2 |
| 40°-50° | 279.3 | 9.3 |
| 50°-60° | 72.4 | 2.4 |
| 60°-70° | 9.3 | 0.3 |
| 70°-80° | 1.1 | 0.0 |
| 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° | 1974.3 | 65.8 |
| 0°-40° | 2639.5 | 87.9 |
| 0°-60° | 2991.2 | 99.7 |
| 0°-90° | 3001.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3001.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 3544 | 3544 | 3544 | 3544 | 3544 | |
| 5° | 3431 | 3434 | 3431 | 3436 | 3439 | 319 |
| 15° | 2803 | 2784 | 2762 | 2789 | 2820 | 781 |
| 25° | 1974 | 1919 | 1872 | 1930 | 1993 | 902 |
| 35° | 1109 | 1062 | 1045 | 1070 | 1114 | 679 |
| 45° | 271 | 332 | 420 | 332 | 271 | 234 |
| 55° | 64 | 75 | 86 | 75 | 64 | 60 |
| 65° | 6 | 3 | 11 | 3 | 6 | 6 |
| 75° | 0 | 0 | 0 | 0 | 0 | 1 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 3544.1 | 3544.1 | 3544.1 | 3544.1 | 3544.1 |
| 2.5° | 3513.7 | 3510.9 | 3510.9 | 3513.7 | 3513.7 |
| 5° | 3430.8 | 3433.5 | 3430.8 | 3436.3 | 3439.1 |
| 7.5° | 3311.9 | 3311.9 | 3309.1 | 3314.7 | 3323.0 |
| 10° | 3168.1 | 3157.1 | 3151.6 | 3162.6 | 3173.7 |
| 12.5° | 2985.7 | 2977.4 | 2966.3 | 2985.7 | 3007.8 |
| 15° | 2803.2 | 2783.9 | 2761.8 | 2789.4 | 2819.8 |
| 17.5° | 2609.7 | 2571.0 | 2546.1 | 2582.1 | 2615.2 |
| 20° | 2396.8 | 2358.1 | 2322.2 | 2360.9 | 2413.4 |
| 22.5° | 2189.5 | 2134.2 | 2098.3 | 2142.5 | 2203.3 |
| 25° | 1973.9 | 1918.6 | 1871.6 | 1929.6 | 1993.2 |
| 27.5° | 1758.2 | 1700.2 | 1647.7 | 1711.2 | 1785.9 |
| 30° | 1553.7 | 1481.8 | 1432.0 | 1498.4 | 1564.7 |
| 32.5° | 1327.0 | 1260.6 | 1233.0 | 1280.0 | 1349.1 |
| 35° | 1108.6 | 1061.6 | 1045.0 | 1069.9 | 1114.1 |
| 37.5° | 870.8 | 859.8 | 865.3 | 876.4 | 884.6 |
| 40° | 622.0 | 674.5 | 696.7 | 677.3 | 622.0 |
| 42.5° | 414.7 | 486.6 | 544.6 | 486.6 | 420.2 |
| 45° | 270.9 | 331.7 | 420.2 | 331.7 | 270.9 |
| 47.5° | 176.9 | 223.9 | 312.4 | 221.2 | 176.9 |
| 50° | 127.2 | 149.3 | 218.4 | 149.3 | 124.4 |
| 52.5° | 91.2 | 105.1 | 141.0 | 105.1 | 91.2 |
| 55° | 63.6 | 74.6 | 85.7 | 74.6 | 63.6 |
| 57.5° | 41.5 | 49.8 | 49.8 | 49.8 | 41.5 |
| 60° | 22.1 | 30.4 | 33.2 | 30.4 | 22.1 |
| 62.5° | 5.5 | 13.8 | 19.4 | 13.8 | 5.5 |
| 65° | 5.5 | 2.8 | 11.1 | 2.8 | 5.5 |
| 67.5° | 2.8 | 2.8 | 5.5 | 2.8 | 2.8 |
| 70° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 72.5° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)