

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: P303327

Luminaire Tested: **PR6FS12D010 PR6M12MD9FSMMS 1500Lm3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P303327
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1903-195-2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR6FS12D010 PR6M12MD9FSMMS 1500Lm3500K
Description: PR6 MEDIUM LENS WITH, MATTE METALLIC SILVER FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1238.5 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.25
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

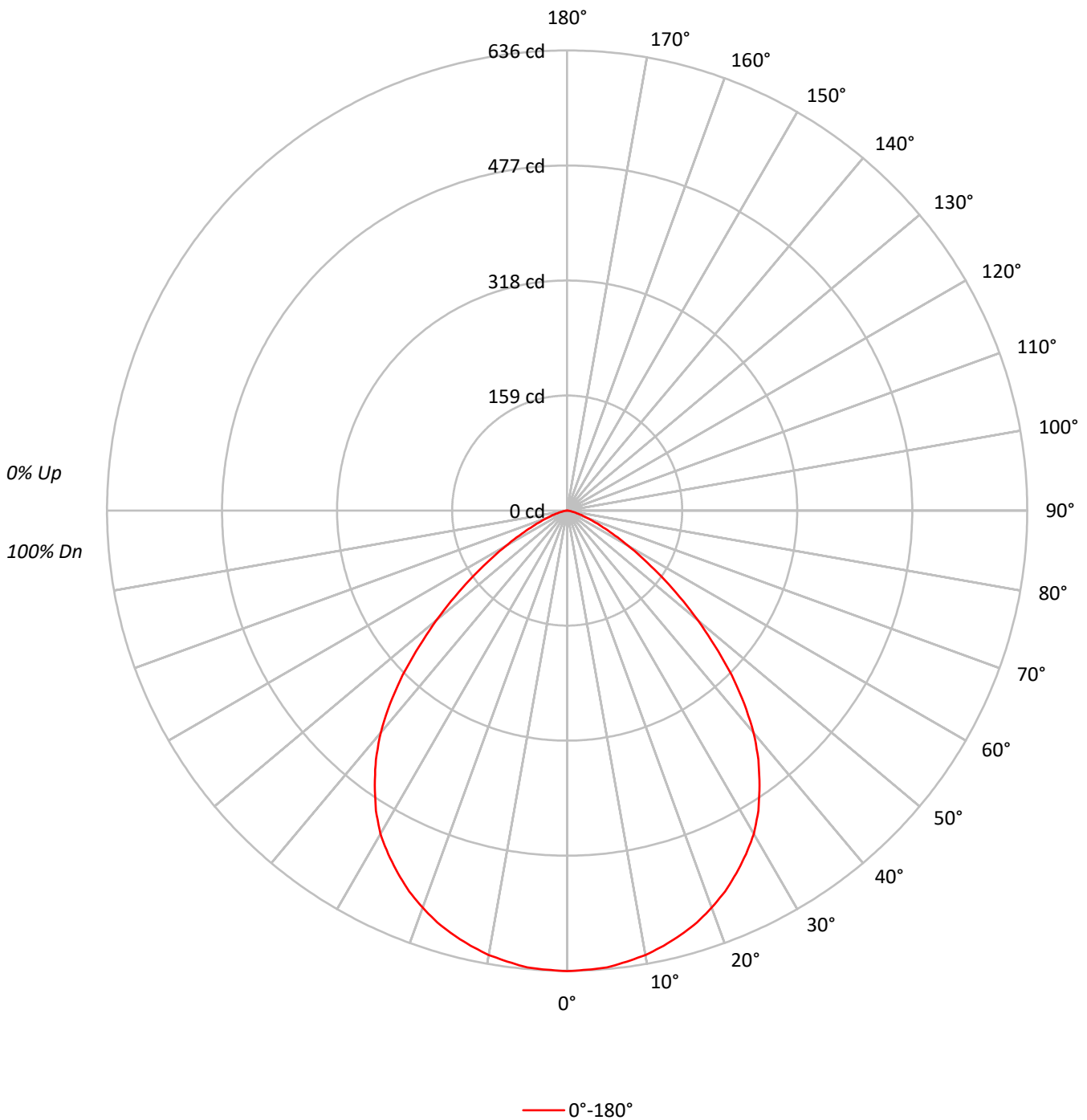
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 111 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99 | 97 | | 98 | 96 | 94 | | 94 | 93 | 91 | 89 |
| 2 | 104 | 97 | 92 | 87 | 101 | 95 | 90 | 86 | 92 | 88 | 84 | | 89 | 85 | 82 | | 86 | 83 | 81 | 79 |
| 3 | 96 | 87 | 81 | 75 | 94 | 86 | 80 | 75 | 83 | 78 | 74 | | 80 | 76 | 72 | | 78 | 74 | 71 | 69 |
| 4 | 89 | 79 | 72 | 66 | 87 | 78 | 71 | 66 | 75 | 69 | 65 | | 73 | 68 | 64 | | 71 | 67 | 63 | 61 |
| 5 | 83 | 72 | 64 | 58 | 81 | 71 | 63 | 58 | 69 | 62 | 57 | | 67 | 61 | 57 | | 65 | 60 | 56 | 54 |
| 6 | 77 | 65 | 58 | 52 | 75 | 64 | 57 | 52 | 63 | 56 | 51 | | 61 | 55 | 51 | | 60 | 55 | 51 | 49 |
| 7 | 72 | 60 | 52 | 47 | 70 | 59 | 52 | 46 | 58 | 51 | 46 | | 56 | 50 | 46 | | 55 | 50 | 46 | 44 |
| 8 | 67 | 55 | 47 | 42 | 66 | 54 | 47 | 42 | 53 | 47 | 42 | | 52 | 46 | 42 | | 51 | 45 | 41 | 40 |
| 9 | 63 | 51 | 43 | 38 | 62 | 50 | 43 | 38 | 49 | 43 | 38 | | 48 | 42 | 38 | | 47 | 42 | 38 | 36 |
| 10 | 59 | 47 | 40 | 35 | 58 | 47 | 40 | 35 | 46 | 39 | 35 | | 45 | 39 | 35 | | 44 | 39 | 35 | 33 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 41526 |
| 5° | 41514 |
| 10° | 41318 |
| 15° | 41005 |
| 20° | 40546 |
| 25° | 39829 |
| 30° | 38880 |
| 35° | 36923 |
| 40° | 34143 |
| 45° | 29663 |
| 50° | 23913 |
| 55° | 18062 |
| 60° | 12696 |
| 65° | 8506 |
| 70° | 5379 |
| 75° | 3227 |
| 80° | 1916 |
| 85° | 973 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 60.1 | 4.9 |
| 10°-20° | 171.2 | 13.8 |
| 20°-30° | 254.6 | 20.6 |
| 30°-40° | 288.8 | 23.3 |
| 40°-50° | 245.8 | 19.8 |
| 50°-60° | 143.8 | 11.6 |
| 60°-70° | 57.1 | 4.6 |
| 70°-80° | 15.2 | 1.2 |
| 80°-90° | 1.8 | 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° | 486.0 | 39.2 |
| 0°-40° | 774.8 | 62.6 |
| 0°-60° | 1164.5 | 94.0 |
| 0°-90° | 1238.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1238.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 636 | |
| 5° | 634 | 60 |
| 15° | 607 | 171 |
| 25° | 553 | 255 |
| 35° | 464 | 289 |
| 45° | 322 | 246 |
| 55° | 159 | 144 |
| 65° | 55 | 57 |
| 75° | 13 | 15 |
| 85° | 1 | 2 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|-------|
| 0° | 636.5 |
| 2.5° | 635.2 |
| 5° | 633.9 |
| 7.5° | 628.8 |
| 10° | 623.7 |
| 12.5° | 616.0 |
| 15° | 607.1 |
| 17.5° | 596.8 |
| 20° | 584.0 |
| 22.5° | 569.9 |
| 25° | 553.3 |
| 27.5° | 535.3 |
| 30° | 516.1 |
| 32.5° | 491.8 |
| 35° | 463.6 |
| 37.5° | 434.2 |
| 40° | 400.9 |
| 42.5° | 362.4 |
| 45° | 321.5 |
| 47.5° | 276.6 |
| 50° | 235.6 |
| 52.5° | 195.9 |
| 55° | 158.8 |
| 57.5° | 125.5 |
| 60° | 97.3 |
| 62.5° | 74.3 |
| 65° | 55.1 |
| 67.5° | 39.7 |
| 70° | 28.2 |
| 72.5° | 20.5 |
| 75° | 12.8 |
| 77.5° | 7.7 |
| 80° | 5.1 |
| 82.5° | 2.6 |
| 85° | 1.3 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)