

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P581885

Luminaire Tested: **HC620D010-HM60525835-61WDC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581885
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC620D010-HM60525835-61WDC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2359.4 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

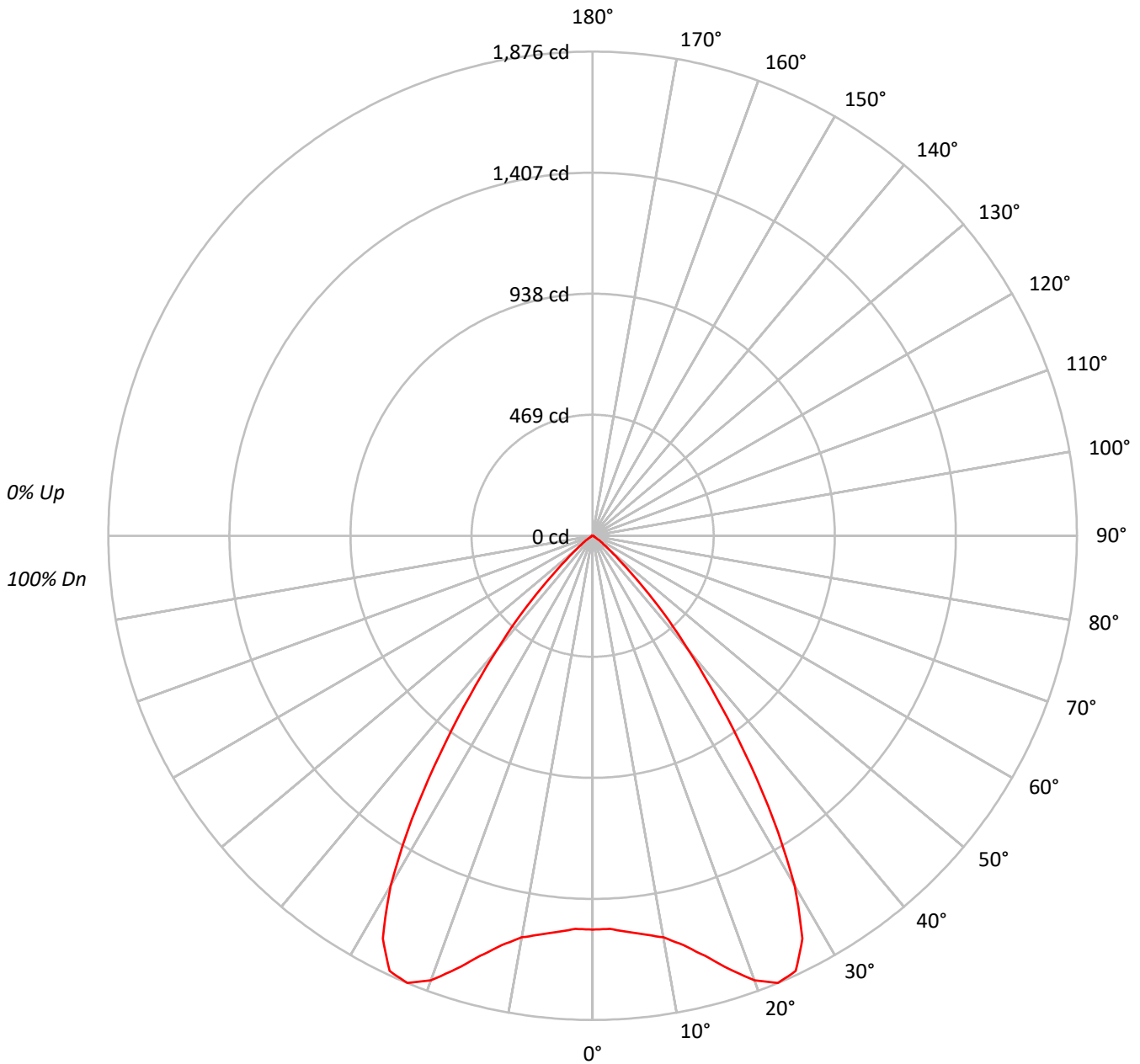
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 | 100 | 100 |
| 1 | 113 | 110 | 108 | 105 | 111 | 108 | 106 | 103 | 104 | 102 | 100 | 100 | 99 | 97 | 97 | 96 | 94 | 93 | 93 | 93 | 93 |
| 2 | 107 | 102 | 97 | 94 | 105 | 100 | 96 | 93 | 97 | 94 | 91 | 94 | 91 | 89 | 91 | 89 | 87 | 85 | 85 | 85 | 85 |
| 3 | 101 | 94 | 89 | 85 | 99 | 93 | 88 | 84 | 90 | 86 | 82 | 88 | 84 | 81 | 85 | 82 | 80 | 78 | 78 | 78 | 78 |
| 4 | 95 | 87 | 81 | 77 | 93 | 86 | 80 | 76 | 84 | 79 | 75 | 82 | 78 | 74 | 80 | 76 | 74 | 72 | 72 | 72 | 72 |
| 5 | 90 | 81 | 75 | 70 | 88 | 80 | 74 | 70 | 78 | 73 | 69 | 76 | 72 | 68 | 75 | 71 | 68 | 66 | 66 | 66 | 66 |
| 6 | 85 | 75 | 69 | 64 | 83 | 74 | 68 | 64 | 73 | 67 | 63 | 71 | 67 | 63 | 70 | 66 | 62 | 61 | 61 | 61 | 61 |
| 7 | 80 | 70 | 63 | 59 | 79 | 69 | 63 | 59 | 68 | 62 | 58 | 67 | 62 | 58 | 66 | 61 | 58 | 56 | 56 | 56 | 56 |
| 8 | 76 | 65 | 59 | 54 | 74 | 65 | 59 | 54 | 64 | 58 | 54 | 62 | 57 | 54 | 61 | 57 | 53 | 52 | 52 | 52 | 52 |
| 9 | 71 | 61 | 55 | 50 | 70 | 60 | 54 | 50 | 60 | 54 | 50 | 59 | 53 | 50 | 58 | 53 | 50 | 48 | 48 | 48 | 48 |
| 10 | 68 | 57 | 51 | 47 | 67 | 57 | 51 | 47 | 56 | 50 | 46 | 55 | 50 | 46 | 54 | 50 | 46 | 45 | 45 | 45 | 45 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 83645 |
| 5° | 84768 |
| 10° | 87946 |
| 15° | 95642 |
| 20° | 106934 |
| 25° | 112549 |
| 30° | 99079 |
| 35° | 68730 |
| 40° | 41034 |
| 45° | 19506 |
| 50° | 7360 |
| 55° | 3078 |
| 60° | 954 |
| 65° | 765 |
| 70° | 465 |
| 75° | 318 |
| 80° | 474 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 148.3 | 6.3 |
| 10°-20° | 483.9 | 20.5 |
| 20°-30° | 829.2 | 35.1 |
| 30°-40° | 644.0 | 27.3 |
| 40°-50° | 212.9 | 9.0 |
| 50°-60° | 32.7 | 1.4 |
| 60°-70° | 5.8 | 0.2 |
| 70°-80° | 2.1 | 0.1 |
| 80°-90° | 0.6 | 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° | 1461.4 | 61.9 |
| 0°-40° | 2105.3 | 89.2 |
| 0°-60° | 2350.9 | 99.6 |
| 0°-90° | 2359.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2359.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1526 | |
| 5° | 1540 | 148 |
| 15° | 1685 | 484 |
| 25° | 1861 | 829 |
| 35° | 1027 | 644 |
| 45° | 252 | 213 |
| 55° | 32 | 33 |
| 65° | 6 | 6 |
| 75° | 2 | 2 |
| 85° | 0 | 1 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 1525.8 |
| 2.5° | 1524.3 |
| 5° | 1540.4 |
| 7.5° | 1558.0 |
| 10° | 1579.9 |
| 12.5° | 1623.8 |
| 15° | 1685.2 |
| 17.5° | 1759.9 |
| 20° | 1833.0 |
| 22.5° | 1875.5 |
| 25° | 1860.7 |
| 27.5° | 1759.9 |
| 30° | 1565.2 |
| 32.5° | 1303.4 |
| 35° | 1027.0 |
| 37.5° | 779.7 |
| 40° | 573.4 |
| 42.5° | 405.2 |
| 45° | 251.6 |
| 47.5° | 140.5 |
| 50° | 86.3 |
| 52.5° | 52.7 |
| 55° | 32.2 |
| 57.5° | 16.1 |
| 60° | 8.7 |
| 62.5° | 7.4 |
| 65° | 5.9 |
| 67.5° | 4.4 |
| 70° | 2.9 |
| 72.5° | 2.9 |
| 75° | 1.5 |
| 77.5° | 1.5 |
| 80° | 1.5 |
| 82.5° | 1.5 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)