

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: P581754

Luminaire Tested: **HC615D010-HM60525840-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581754
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC615D010-HM60525840-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1522.1 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

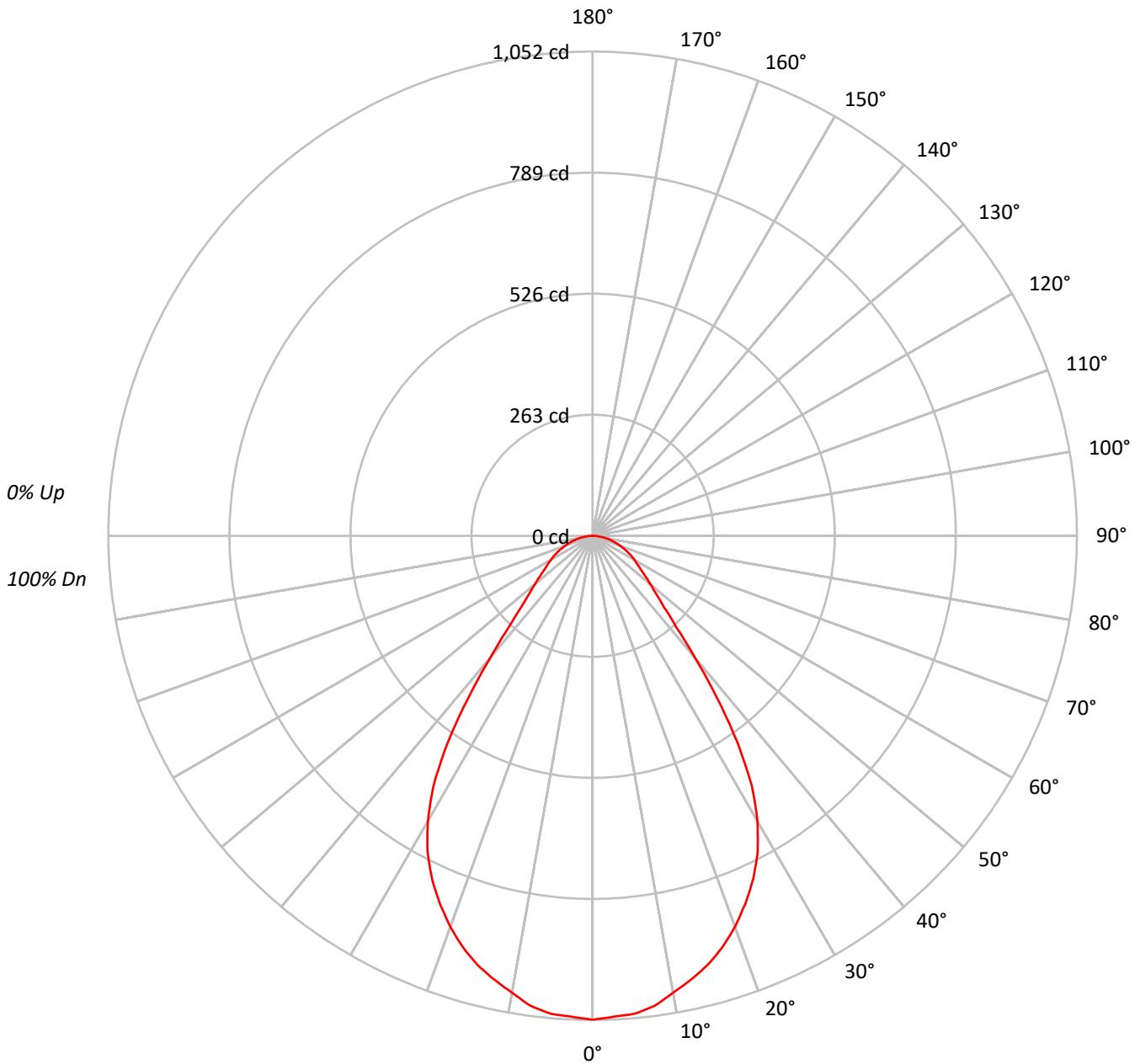
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P581754

CATALOG NUMBER: HC615D010-HM60525840-61NDW

Luminous Intensity Polar Plot





TEST NUMBER: P581754

CATALOG NUMBER: HC615D010-HM60525840-61NDW

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 |
| 1 | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99 | 96 | 97 | 95 | 94 | 94 | 92 | 91 | 89 | | | 89 |
| 2 | 104 | 97 | 92 | 87 | 101 | 95 | 90 | 86 | 92 | 88 | 84 | 89 | 85 | 83 | 86 | 83 | 81 | 79 | | | 79 |
| 3 | 97 | 88 | 82 | 77 | 94 | 87 | 81 | 76 | 84 | 79 | 75 | 81 | 77 | 73 | 79 | 75 | 72 | 70 | | | 70 |
| 4 | 90 | 81 | 73 | 68 | 88 | 79 | 73 | 68 | 77 | 71 | 67 | 75 | 70 | 66 | 73 | 69 | 65 | 63 | | | 63 |
| 5 | 84 | 74 | 67 | 61 | 83 | 73 | 66 | 61 | 71 | 65 | 60 | 69 | 64 | 60 | 67 | 63 | 59 | 57 | | | 57 |
| 6 | 79 | 68 | 61 | 55 | 77 | 67 | 60 | 55 | 66 | 59 | 55 | 64 | 59 | 54 | 63 | 58 | 54 | 52 | | | 52 |
| 7 | 74 | 63 | 56 | 50 | 73 | 62 | 55 | 50 | 61 | 55 | 50 | 60 | 54 | 50 | 58 | 53 | 49 | 48 | | | 48 |
| 8 | 70 | 59 | 51 | 46 | 69 | 58 | 51 | 46 | 57 | 50 | 46 | 56 | 50 | 46 | 54 | 49 | 46 | 44 | | | 44 |
| 9 | 66 | 55 | 48 | 43 | 65 | 54 | 47 | 43 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 41 | | | 41 |
| 10 | 62 | 51 | 44 | 40 | 61 | 51 | 44 | 40 | 50 | 44 | 39 | 49 | 43 | 39 | 48 | 43 | 39 | 38 | | | 38 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 57649 |
| 5° | 57374 |
| 10° | 56111 |
| 15° | 54790 |
| 20° | 52732 |
| 25° | 49872 |
| 30° | 45323 |
| 35° | 36687 |
| 40° | 24739 |
| 45° | 17002 |
| 50° | 13927 |
| 55° | 12196 |
| 60° | 11534 |
| 65° | 10883 |
| 70° | 10226 |
| 75° | 9722 |
| 80° | 8808 |
| 85° | 7737 |



TEST NUMBER: P581754

CATALOG NUMBER: HC615D010-HM60525840-61NDW

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 98.4 | 6.5 |
| 10°-20° | 271.1 | 17.8 |
| 20°-30° | 376.7 | 24.7 |
| 30°-40° | 335.4 | 22.0 |
| 40°-50° | 178.0 | 11.7 |
| 50°-60° | 116.5 | 7.7 |
| 60°-70° | 83.5 | 5.5 |
| 70°-80° | 48.4 | 3.2 |
| 80°-90° | 14.1 | 0.9 |
| 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° | 746.2 | 49.0 |
| 0°-40° | 1081.6 | 71.1 |
| 0°-60° | 1376.1 | 90.4 |
| 0°-90° | 1522.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1522.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1052 | |
| 5° | 1043 | 98 |
| 15° | 965 | 271 |
| 25° | 824 | 377 |
| 35° | 548 | 335 |
| 45° | 219 | 178 |
| 55° | 128 | 116 |
| 65° | 84 | 83 |
| 75° | 46 | 48 |
| 85° | 12 | 14 |
| 90° | 0 | |



TEST NUMBER: P581754

CATALOG NUMBER: HC615D010-HM60525840-61NDW

CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 1051.6 |
| 2.5° | 1046.0 |
| 5° | 1042.6 |
| 7.5° | 1030.4 |
| 10° | 1008.0 |
| 12.5° | 987.8 |
| 15° | 965.4 |
| 17.5° | 937.5 |
| 20° | 903.9 |
| 22.5° | 865.9 |
| 25° | 824.5 |
| 27.5° | 776.3 |
| 30° | 716.0 |
| 32.5° | 643.3 |
| 35° | 548.2 |
| 37.5° | 443.0 |
| 40° | 345.7 |
| 42.5° | 268.5 |
| 45° | 219.3 |
| 47.5° | 186.8 |
| 50° | 163.3 |
| 52.5° | 144.4 |
| 55° | 127.6 |
| 57.5° | 115.2 |
| 60° | 105.2 |
| 62.5° | 95.1 |
| 65° | 83.9 |
| 67.5° | 73.9 |
| 70° | 63.8 |
| 72.5° | 54.8 |
| 75° | 45.9 |
| 77.5° | 36.9 |
| 80° | 27.9 |
| 82.5° | 20.1 |
| 85° | 12.3 |
| 87.5° | 5.6 |
| 90° | 0.0 |



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)