

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge or
Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO

Report Number: H23320

Luminaire Tested: **H800HP-800P**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H23320
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H800HP-800P
Description: HALO 8" DIA RECESSED DOWNLIGHT
SPECULAR REFLECTOR WITH FROSTED GLASS LENS
Light Source: (2) F13TT 13 WATTS 900 LUMENS EACH
TWIN TUBE COMPACT FLUORESCENT
Ballast/Driver: -

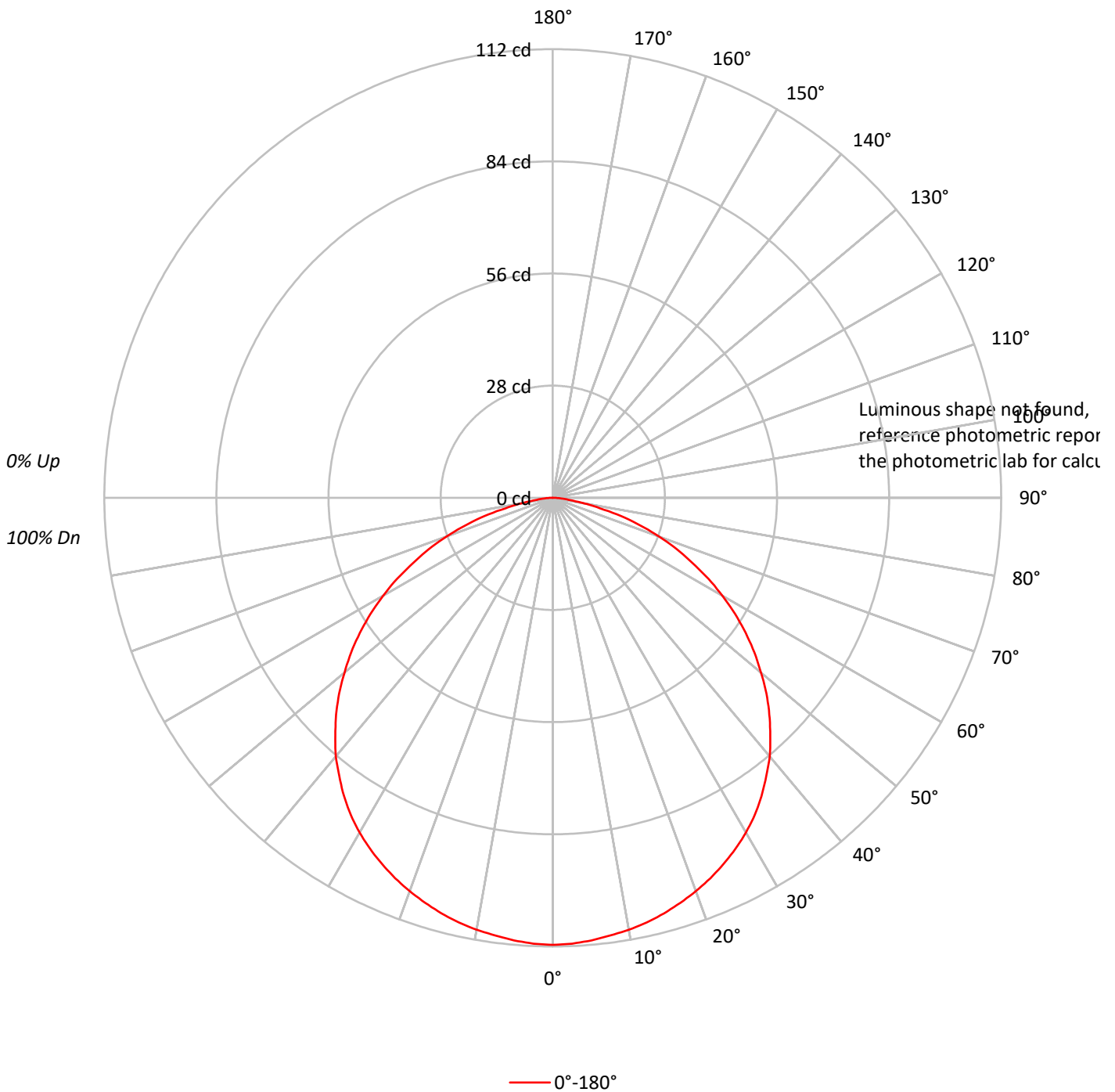
Summary

Lumens per Lamp: 900 (2 lamps)
Luminaire Lumens: 315.8 lumens
Efficiency: 17.5%
Efficacy: 9.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.39
Luminous Opening: (L: 0 ' x W: -0.54 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 32
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



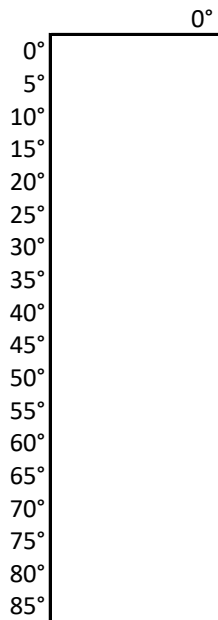


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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | |
|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 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 | 21 | 21 | 21 | 21 | 20 | 20 | 20 | 20 | 19 | 19 | 19 | 19 | 19 | 19 | 18 | 18 | 18 | 18 |
| 1 | 19 | 18 | 18 | 17 | 19 | 18 | 17 | 17 | 17 | 17 | 16 | 17 | 16 | 16 | 16 | 16 | 15 | 15 |
| 2 | 17 | 16 | 15 | 14 | 17 | 16 | 15 | 14 | 15 | 14 | 13 | 15 | 14 | 13 | 14 | 13 | 13 | 12 |
| 3 | 16 | 14 | 13 | 12 | 15 | 14 | 13 | 11 | 13 | 12 | 11 | 13 | 12 | 11 | 12 | 12 | 11 | 10 |
| 4 | 15 | 12 | 11 | 10 | 14 | 12 | 11 | 10 | 12 | 11 | 10 | 11 | 10 | 9 | 11 | 10 | 9 | 9 |
| 5 | 13 | 11 | 10 | 8 | 13 | 11 | 9 | 8 | 11 | 9 | 8 | 10 | 9 | 8 | 10 | 9 | 8 | 8 |
| 6 | 12 | 10 | 8 | 7 | 12 | 10 | 8 | 7 | 10 | 8 | 7 | 9 | 8 | 7 | 9 | 8 | 7 | 7 |
| 7 | 11 | 9 | 8 | 6 | 11 | 9 | 7 | 6 | 9 | 7 | 6 | 8 | 7 | 6 | 8 | 7 | 6 | 6 |
| 8 | 11 | 8 | 7 | 6 | 10 | 8 | 7 | 6 | 8 | 7 | 6 | 8 | 7 | 6 | 8 | 6 | 6 | 5 |
| 9 | 10 | 8 | 6 | 5 | 10 | 7 | 6 | 5 | 7 | 6 | 5 | 7 | 6 | 5 | 7 | 6 | 5 | 5 |
| 10 | 9 | 7 | 6 | 5 | 9 | 7 | 6 | 5 | 7 | 6 | 5 | 7 | 5 | 5 | 6 | 5 | 5 | 4 |

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

| Zone | Lumens | % Fixture | % Lamp |
|-----------|--------|-----------|--------|
| 0°-10° | 10.5 | 3.3 | 0.6 |
| 10°-20° | 30.3 | 9.6 | 1.7 |
| 20°-30° | 46.5 | 14.7 | 2.6 |
| 30°-40° | 56.8 | 18.0 | 3.2 |
| 40°-50° | 59.0 | 18.7 | 3.3 |
| 50°-60° | 52.5 | 16.6 | 2.9 |
| 60°-70° | 38.2 | 12.1 | 2.1 |
| 70°-80° | 18.7 | 5.9 | 1.0 |
| 80°-90° | 3.3 | 1.0 | 0.2 |
| 90°-100° | 0.0 | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 | 0.0 |
| 0°-30° | 87.4 | 27.7 | 4.9 |
| 0°-40° | 144.2 | 45.7 | 8.0 |
| 0°-60° | 255.7 | 81.0 | 14.2 |
| 0°-90° | 315.8 | 100.0 | 17.5 |
| 90°-120° | 0.0 | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 | 0.0 |
| 0°-180° | 315.8 | 100.0 | 17.5 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|-----|------|
| 0° | 112 | |
| 5° | 111 | 11 |
| 15° | 107 | 30 |
| 25° | 101 | 47 |
| 35° | 91 | 57 |
| 45° | 76 | 59 |
| 55° | 59 | 52 |
| 65° | 38 | 38 |
| 75° | 18 | 19 |
| 85° | 2 | 3 |
| 90° | 0 | 0 |
| 95° | 0 | 0 |
| 105° | 0 | 0 |
| 115° | 0 | 0 |
| 125° | 0 | 0 |
| 135° | 0 | 0 |
| 145° | 0 | 0 |
| 155° | 0 | 0 |
| 165° | 0 | 0 |
| 175° | 0 | 0 |
| 180° | 0 | 0 |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|--------|-------|
| 0° | 111.6 |
| 2.5° | 111.4 |
| 5° | 110.9 |
| 7.5° | 110.2 |
| 10° | 109.5 |
| 12.5° | 108.6 |
| 15° | 107.4 |
| 17.5° | 106.0 |
| 20° | 104.5 |
| 22.5° | 102.8 |
| 25° | 100.9 |
| 27.5° | 98.8 |
| 30° | 96.5 |
| 32.5° | 93.9 |
| 35° | 90.9 |
| 37.5° | 87.6 |
| 40° | 84.3 |
| 42.5° | 80.4 |
| 45° | 76.5 |
| 47.5° | 72.4 |
| 50° | 67.9 |
| 52.5° | 63.5 |
| 55° | 58.8 |
| 57.5° | 54.0 |
| 60° | 48.9 |
| 62.5° | 43.9 |
| 65° | 38.4 |
| 67.5° | 33.6 |
| 70° | 28.2 |
| 72.5° | 23.0 |
| 75° | 17.7 |
| 77.5° | 12.1 |
| 80° | 7.9 |
| 82.5° | 4.3 |
| 85° | 2.4 |
| 87.5° | 1.4 |
| 90° | 0.0 |
| 92.5° | 0.0 |
| 95° | 0.0 |
| 97.5° | 0.0 |
| 100° | 0.0 |
| 102.5° | 0.0 |
| 105° | 0.0 |
| 107.5° | 0.0 |
| 110° | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|-----|
| 112.5° | 0.0 |
| 115° | 0.0 |
| 117.5° | 0.0 |
| 120° | 0.0 |
| 122.5° | 0.0 |
| 125° | 0.0 |
| 127.5° | 0.0 |
| 130° | 0.0 |
| 132.5° | 0.0 |
| 135° | 0.0 |
| 137.5° | 0.0 |
| 140° | 0.0 |
| 142.5° | 0.0 |
| 145° | 0.0 |
| 147.5° | 0.0 |
| 150° | 0.0 |
| 152.5° | 0.0 |
| 155° | 0.0 |
| 157.5° | 0.0 |
| 160° | 0.0 |
| 162.5° | 0.0 |
| 165° | 0.0 |
| 167.5° | 0.0 |
| 170° | 0.0 |
| 172.5° | 0.0 |
| 175° | 0.0 |
| 177.5° | 0.0 |
| 180° | 0.0 |

(END OF REPORT)