

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: H37011

Luminaire Tested: **H600T-1603P**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: H37011
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H600T-1603P
Description: HALO RECESSED DOWNLIGHT
BRIGHT DIPPED & ANODIZED REFLECTOR
WITH PAINTED (WHITE) CONE - LOW SOCKET SETTING
Light Source: 100A19 100 WATTS 1750 LUMENS
A19 INSIDE FROSTED
Ballast/Driver: -

Summary

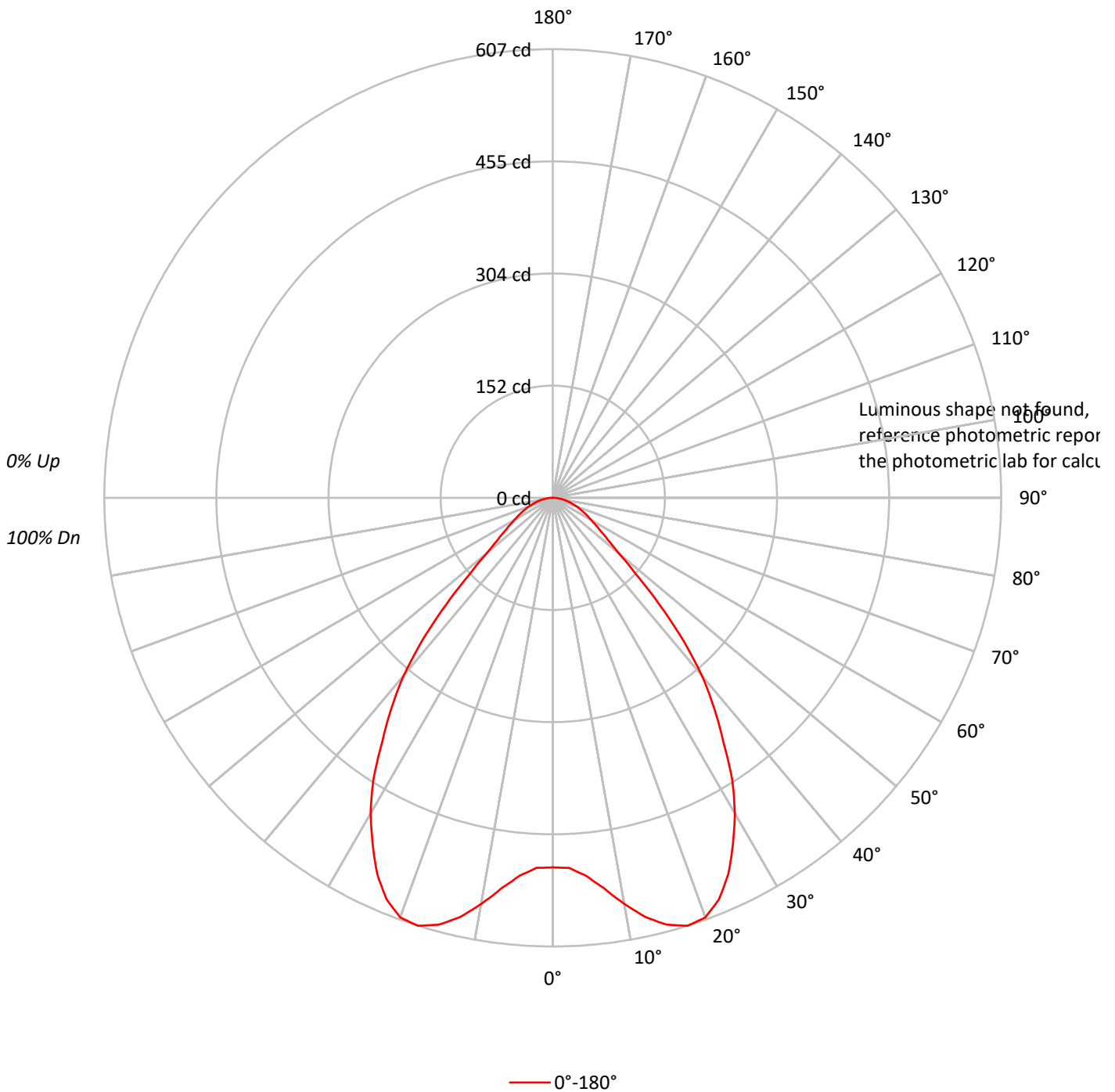
Lumens per Lamp: 1750 (1 lamp)
Luminaire Lumens: 1039.0 lumens
Efficiency: 59.4%
Efficacy: 10.4 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.23
Luminous Opening: (L: 0 ' x W: -0.52 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 100
Input Voltage (V): NR
Input Current (A_{in}): 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



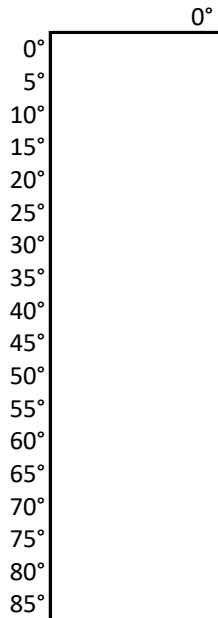


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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | |
|-----|----|----|----|----|----|----|----|----|----|----|----|--|----|----|----|--|----|----|----|----|
| 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 | 71 | 71 | 71 | 71 | 69 | 69 | 69 | 69 | 66 | 66 | 66 | | 63 | 63 | 63 | | 61 | 61 | 61 | 59 |
| 1 | 66 | 64 | 62 | 60 | 65 | 63 | 61 | 59 | 60 | 59 | 57 | | 58 | 57 | 56 | | 56 | 55 | 54 | 53 |
| 2 | 62 | 58 | 55 | 52 | 60 | 57 | 54 | 51 | 55 | 52 | 50 | | 53 | 51 | 49 | | 51 | 50 | 48 | 47 |
| 3 | 57 | 52 | 49 | 45 | 56 | 52 | 48 | 45 | 50 | 47 | 44 | | 48 | 46 | 44 | | 47 | 45 | 43 | 42 |
| 4 | 53 | 48 | 43 | 40 | 52 | 47 | 43 | 40 | 46 | 42 | 39 | | 44 | 41 | 39 | | 43 | 41 | 39 | 37 |
| 5 | 50 | 44 | 39 | 36 | 49 | 43 | 39 | 36 | 42 | 38 | 35 | | 41 | 38 | 35 | | 40 | 37 | 35 | 34 |
| 6 | 47 | 40 | 36 | 32 | 46 | 40 | 35 | 32 | 39 | 35 | 32 | | 38 | 34 | 32 | | 37 | 34 | 32 | 30 |
| 7 | 44 | 37 | 32 | 29 | 43 | 36 | 32 | 29 | 36 | 32 | 29 | | 35 | 31 | 29 | | 34 | 31 | 29 | 28 |
| 8 | 41 | 34 | 30 | 27 | 40 | 34 | 30 | 27 | 33 | 29 | 27 | | 32 | 29 | 26 | | 32 | 29 | 26 | 25 |
| 9 | 39 | 32 | 27 | 24 | 38 | 31 | 27 | 24 | 31 | 27 | 24 | | 30 | 27 | 24 | | 30 | 26 | 24 | 23 |
| 10 | 36 | 29 | 25 | 23 | 36 | 29 | 25 | 22 | 29 | 25 | 22 | | 28 | 25 | 22 | | 28 | 25 | 22 | 21 |

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

| Zone | Lumens | % Fixture | % Lamp |
|-----------|--------|-----------|--------|
| 0°-10° | 50.4 | 4.9 | 2.9 |
| 10°-20° | 168.4 | 16.2 | 9.6 |
| 20°-30° | 256.1 | 24.6 | 14.6 |
| 30°-40° | 251.6 | 24.2 | 14.4 |
| 40°-50° | 158.9 | 15.3 | 9.1 |
| 50°-60° | 74.0 | 7.1 | 4.2 |
| 60°-70° | 46.0 | 4.4 | 2.6 |
| 70°-80° | 25.4 | 2.4 | 1.5 |
| 80°-90° | 8.0 | 0.8 | 0.5 |
| 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° | 475.0 | 45.7 | 27.1 |
| 0°-40° | 726.6 | 69.9 | 41.5 |
| 0°-60° | 959.5 | 92.4 | 54.8 |
| 0°-90° | 1039.0 | 100.0 | 59.4 |
| 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° | 1039.0 | 100.0 | 59.4 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|-----|------|
| 0° | 500 | |
| 5° | 513 | 50 |
| 15° | 598 | 168 |
| 25° | 562 | 256 |
| 35° | 402 | 252 |
| 45° | 204 | 159 |
| 55° | 80 | 74 |
| 65° | 46 | 46 |
| 75° | 24 | 25 |
| 85° | 7 | 7 |
| 90° | 0 | 1 |
| 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° | 500 |
| 2.5° | 501 |
| 5° | 513 |
| 7.5° | 533 |
| 10° | 558 |
| 12.5° | 581 |
| 15° | 598 |
| 17.5° | 607 |
| 20° | 604 |
| 22.5° | 588 |
| 25° | 562 |
| 27.5° | 528 |
| 30° | 493 |
| 32.5° | 452 |
| 35° | 402 |
| 37.5° | 359 |
| 40° | 314 |
| 42.5° | 261 |
| 45° | 204 |
| 47.5° | 152 |
| 50° | 116 |
| 52.5° | 95 |
| 55° | 80 |
| 57.5° | 69 |
| 60° | 60 |
| 62.5° | 53 |
| 65° | 46 |
| 67.5° | 40 |
| 70° | 34 |
| 72.5° | 29 |
| 75° | 24 |
| 77.5° | 19 |
| 80° | 15 |
| 82.5° | 11 |
| 85° | 7 |
| 87.5° | 4 |
| 90° | 0 |
| 92.5° | 0 |
| 95° | 0 |
| 97.5° | 0 |
| 100° | 0 |
| 102.5° | 0 |
| 105° | 0 |
| 107.5° | 0 |
| 110° | 0 |



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CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)