

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

Report Number: H22133

Luminaire Tested: **H7UICT-404C**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: H22133
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H7UICT-404C
Description: HALO 6" DIA RECESSED DOWNLIGHT
CLEAR SPECULAR CONE
Light Source: 100A19 100 WATTS 1750 LUMENS
A19 INSIDE FROSTED
Ballast/Driver: -

Summary

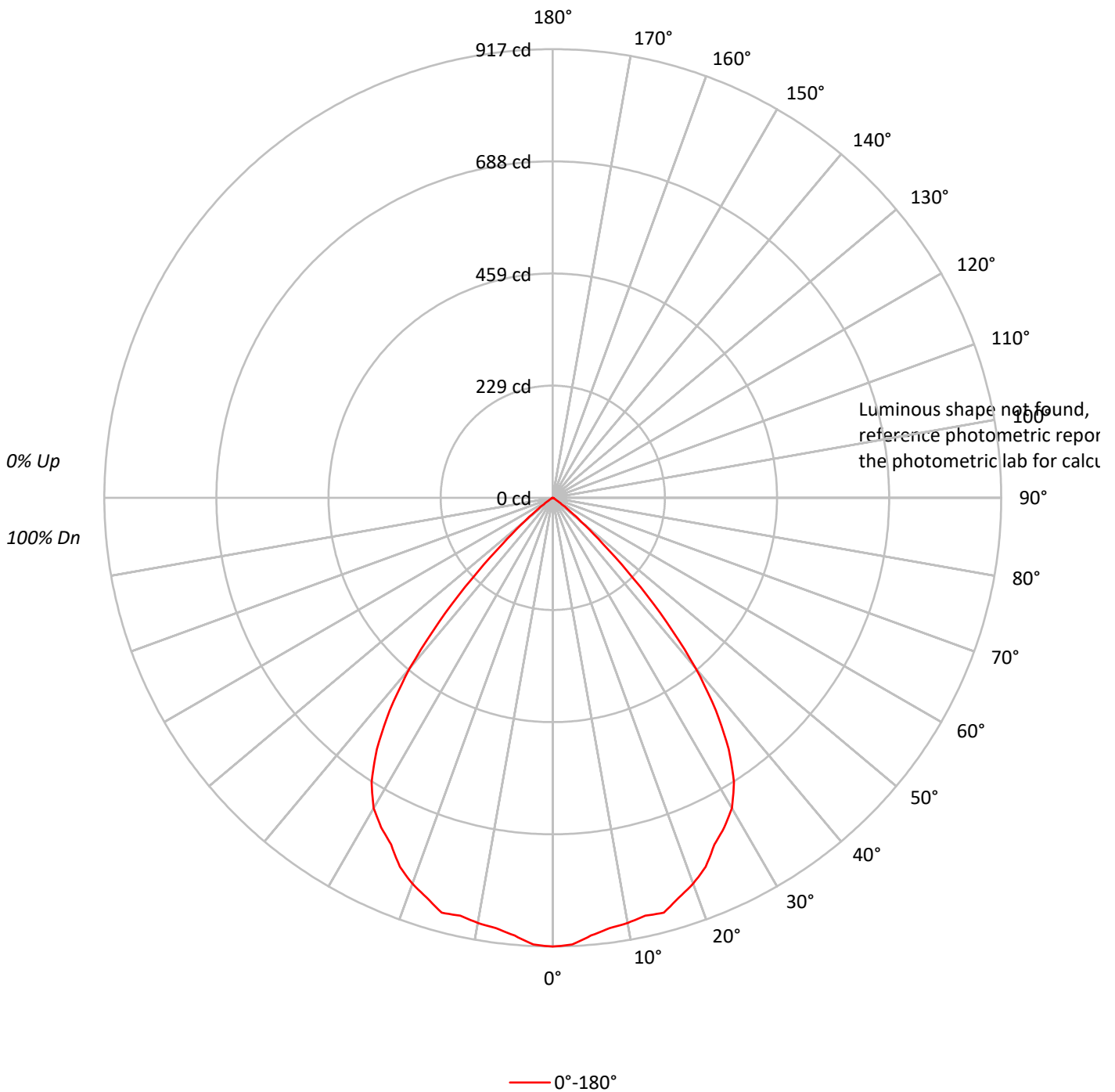
Lumens per Lamp: 1750 (1 lamp)
Luminaire Lumens: 1286.9 lumens
Efficiency: 73.5%
Efficacy: 12.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.15
Luminous Opening: (L: 0 ' x W: -0.48 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 100
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



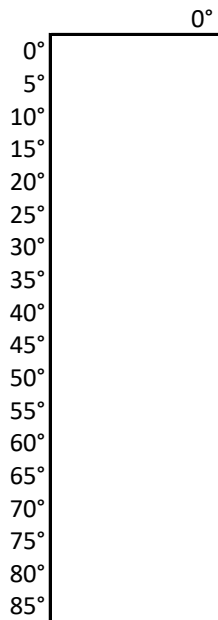


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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | |
|-----|----|----|----|----|----|----|----|----|----|----|----|--|----|----|----|--|----|----|----|----|
| 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 | 88 | 88 | 88 | 88 | 86 | 86 | 86 | 86 | 82 | 82 | 82 | | 78 | 78 | 78 | | 75 | 75 | 75 | 74 |
| 1 | 83 | 81 | 79 | 77 | 81 | 79 | 77 | 76 | 76 | 75 | 73 | | 73 | 72 | 71 | | 71 | 70 | 69 | 68 |
| 2 | 78 | 74 | 71 | 68 | 77 | 73 | 70 | 68 | 71 | 68 | 66 | | 68 | 66 | 65 | | 66 | 65 | 63 | 62 |
| 3 | 74 | 68 | 64 | 61 | 72 | 67 | 64 | 61 | 65 | 62 | 60 | | 64 | 61 | 59 | | 62 | 60 | 58 | 57 |
| 4 | 69 | 63 | 59 | 55 | 68 | 62 | 58 | 55 | 61 | 57 | 54 | | 59 | 56 | 53 | | 58 | 55 | 53 | 52 |
| 5 | 65 | 58 | 54 | 50 | 64 | 58 | 53 | 50 | 56 | 52 | 49 | | 55 | 52 | 49 | | 54 | 51 | 48 | 47 |
| 6 | 61 | 54 | 49 | 46 | 60 | 53 | 49 | 45 | 52 | 48 | 45 | | 51 | 47 | 45 | | 50 | 47 | 44 | 43 |
| 7 | 58 | 50 | 45 | 42 | 57 | 50 | 45 | 42 | 49 | 44 | 41 | | 48 | 44 | 41 | | 47 | 43 | 41 | 40 |
| 8 | 54 | 47 | 42 | 38 | 53 | 46 | 41 | 38 | 45 | 41 | 38 | | 44 | 41 | 38 | | 44 | 40 | 38 | 36 |
| 9 | 51 | 43 | 39 | 35 | 50 | 43 | 38 | 35 | 42 | 38 | 35 | | 42 | 38 | 35 | | 41 | 37 | 35 | 34 |
| 10 | 48 | 41 | 36 | 33 | 48 | 40 | 36 | 33 | 40 | 35 | 32 | | 39 | 35 | 32 | | 38 | 35 | 32 | 31 |

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

| Zone | Lumens | % Fixture | % Lamp |
|-----------|--------|-----------|--------|
| 0°-10° | 85.3 | 6.6 | 4.9 |
| 10°-20° | 245.4 | 19.1 | 14.0 |
| 20°-30° | 362.3 | 28.2 | 20.7 |
| 30°-40° | 382.6 | 29.7 | 21.9 |
| 40°-50° | 185.7 | 14.4 | 10.6 |
| 50°-60° | 23.1 | 1.8 | 1.3 |
| 60°-70° | 1.6 | 0.1 | 0.1 |
| 70°-80° | 0.6 | 0.1 | 0.0 |
| 80°-90° | 0.2 | 0.0 | 0.0 |
| 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° | 692.9 | 53.8 | 39.6 |
| 0°-40° | 1075.5 | 83.6 | 61.5 |
| 0°-60° | 1284.4 | 99.8 | 73.4 |
| 0°-90° | 1286.9 | 100.0 | 73.5 |
| 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° | 1286.9 | 100.0 | 73.5 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|-----|------|
| 0° | 917 | |
| 5° | 898 | 85 |
| 15° | 878 | 245 |
| 25° | 782 | 362 |
| 35° | 627 | 383 |
| 45° | 234 | 186 |
| 55° | 18 | 23 |
| 65° | 2 | 2 |
| 75° | 1 | 1 |
| 85° | 0 | 0 |
| 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° | 917.1 |
| 2.5° | 914.0 |
| 5° | 898.1 |
| 7.5° | 887.4 |
| 10° | 882.3 |
| 12.5° | 874.8 |
| 15° | 877.9 |
| 17.5° | 856.9 |
| 20° | 839.3 |
| 22.5° | 816.6 |
| 25° | 782.0 |
| 27.5° | 759.5 |
| 30° | 732.4 |
| 32.5° | 689.5 |
| 35° | 627.0 |
| 37.5° | 547.8 |
| 40° | 454.8 |
| 42.5° | 344.4 |
| 45° | 233.8 |
| 47.5° | 137.4 |
| 50° | 75.5 |
| 52.5° | 40.1 |
| 55° | 18.2 |
| 57.5° | 7.9 |
| 60° | 3.5 |
| 62.5° | 1.9 |
| 65° | 1.5 |
| 67.5° | 1.1 |
| 70° | 0.9 |
| 72.5° | 0.7 |
| 75° | 0.6 |
| 77.5° | 0.5 |
| 80° | 0.4 |
| 82.5° | 0.3 |
| 85° | 0.2 |
| 87.5° | 0.1 |
| 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)