

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P21969

Luminaire Tested: **PD6V142E-60VH\_32TTT**

Issue Date: 03/03/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P21969  
Test Lab: INNOVATION CENTER P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PD6V142E-60VH\_32TTT  
Description: HALO 6-INCH APERTURE OPEN DOWNLIGHT, VERTICAL LAMP. SEMI  
SPECULAR CLEAR TRIM.  
Light Source: (1) 32W CFL TTT  
CF32DT/E/IN/827  
Ballast/Driver: (1) SYLVANIA ELECTRONIC BALLAST  
QTP2x26CF/UNV DM

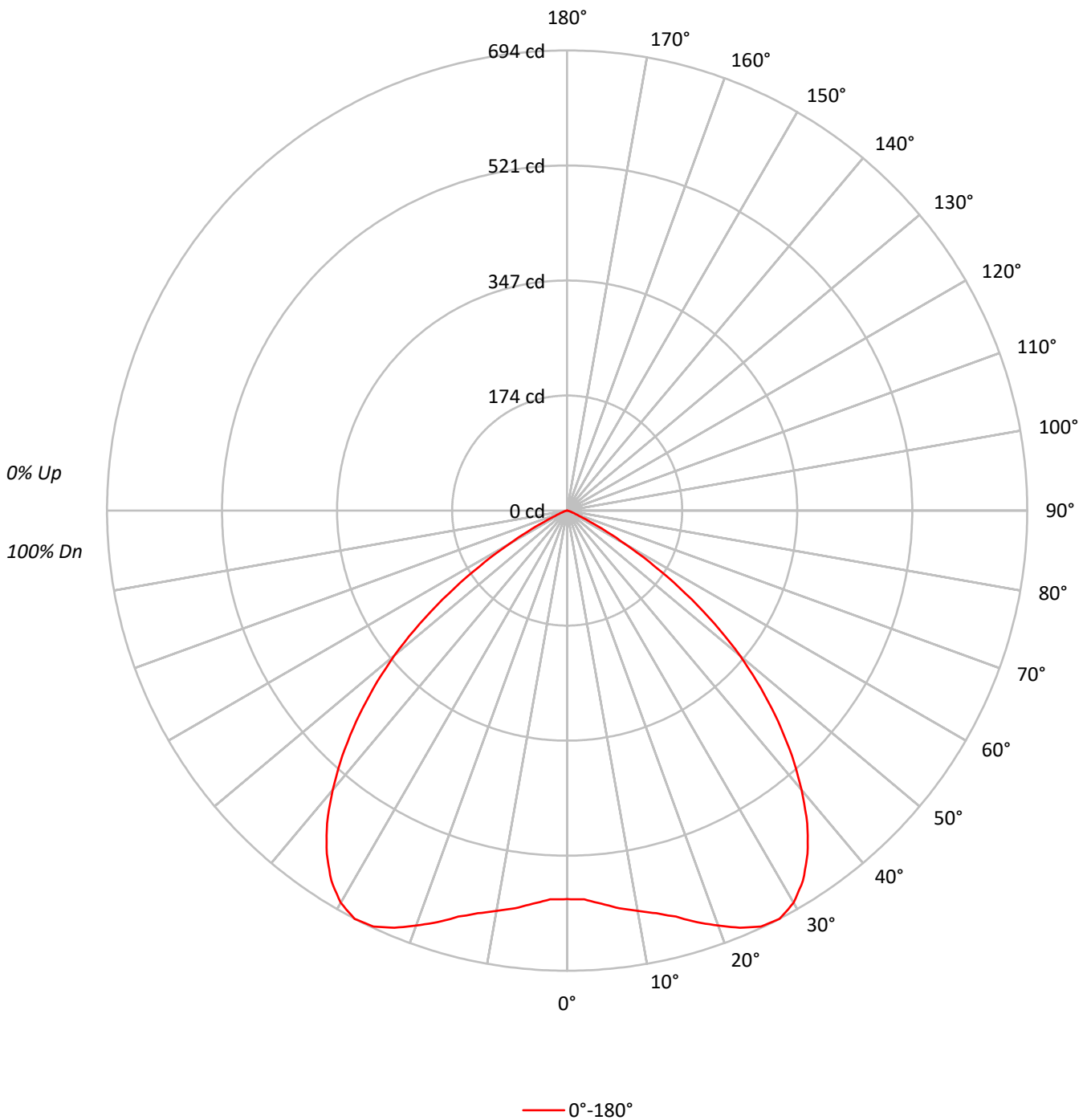
**Summary**

Lumens per Lamp: 2400 (1 lamp)  
Luminaire Lumens: 1529.5 lumens  
Efficiency: 63.7%  
Efficacy: 47.5 lumens/watt  
Spacing Criteria (0/90/45): 1.55 / 1.55 / 1.45  
Luminous Opening: Vertical Cylinder (Dia: 0.53' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 32.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 0.2689  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: 6 HR  
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   | 76 | 76 | 76 | 76 | 74 | 74 | 74 | 74 | 71 | 71 | 71 |  | 68 | 68 | 68 |  | 65 | 65 | 65 | 64 |
| 1   | 71 | 69 | 67 | 65 | 70 | 68 | 66 | 64 | 65 | 63 | 62 |  | 62 | 61 | 60 |  | 60 | 59 | 58 | 57 |
| 2   | 66 | 62 | 59 | 56 | 65 | 61 | 58 | 55 | 59 | 56 | 54 |  | 57 | 55 | 53 |  | 55 | 53 | 52 | 50 |
| 3   | 61 | 56 | 52 | 48 | 60 | 55 | 51 | 48 | 53 | 50 | 47 |  | 52 | 49 | 46 |  | 50 | 48 | 46 | 44 |
| 4   | 57 | 50 | 46 | 42 | 55 | 50 | 45 | 42 | 48 | 44 | 41 |  | 47 | 43 | 41 |  | 45 | 43 | 40 | 39 |
| 5   | 53 | 46 | 41 | 37 | 51 | 45 | 40 | 37 | 44 | 40 | 37 |  | 42 | 39 | 36 |  | 41 | 38 | 36 | 35 |
| 6   | 49 | 41 | 36 | 33 | 48 | 41 | 36 | 33 | 40 | 36 | 32 |  | 39 | 35 | 32 |  | 38 | 35 | 32 | 31 |
| 7   | 45 | 38 | 33 | 29 | 44 | 37 | 33 | 29 | 36 | 32 | 29 |  | 35 | 32 | 29 |  | 35 | 31 | 29 | 27 |
| 8   | 42 | 35 | 30 | 26 | 41 | 34 | 29 | 26 | 33 | 29 | 26 |  | 33 | 29 | 26 |  | 32 | 28 | 26 | 25 |
| 9   | 40 | 32 | 27 | 24 | 39 | 31 | 27 | 24 | 31 | 26 | 24 |  | 30 | 26 | 23 |  | 29 | 26 | 23 | 22 |
| 10  | 37 | 29 | 25 | 22 | 36 | 29 | 25 | 21 | 28 | 24 | 21 |  | 28 | 24 | 21 |  | 27 | 24 | 21 | 20 |

**AVERAGE LUMINANCE (cd/sqm):**

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 28456 |
| 5°  | 28408 |
| 10° | 29001 |
| 15° | 29950 |
| 20° | 31655 |
| 25° | 33350 |
| 30° | 33642 |
| 35° | 32082 |
| 40° | 29028 |
| 45° | 24929 |
| 50° | 19979 |
| 55° | 13750 |
| 60° | 6932  |
| 65° | 1897  |
| 70° | 770   |
| 75° | 396   |
| 80° | 119   |
| 85° | 0     |



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

| Zone      | Lumens | % Fixture | % Lamp | 0°  | Flux |     |
|-----------|--------|-----------|--------|-----|------|-----|
| 0°-10°    | 57.4   | 3.8       | 2.4    | 0°  | 586  |     |
| 10°-20°   | 181.3  | 11.9      | 7.6    | 5°  | 595  | 57  |
| 20°-30°   | 317.5  | 20.8      | 13.2   | 15° | 634  | 181 |
| 30°-40°   | 391.9  | 25.6      | 16.3   | 25° | 692  | 318 |
| 40°-50°   | 344.9  | 22.6      | 14.4   | 35° | 632  | 392 |
| 50°-60°   | 194.3  | 12.7      | 8.1    | 45° | 450  | 345 |
| 60°-70°   | 37.4   | 2.4       | 1.6    | 55° | 218  | 194 |
| 70°-80°   | 4.5    | 0.3       | 0.2    | 65° | 25   | 37  |
| 80°-90°   | 0.4    | 0.0       | 0.0    | 75° | 4    | 4   |
| 90°-100°  | 0.0    | 0.0       | 0.0    | 85° | 0    | 0   |
| 100°-110° | 0.0    | 0.0       | 0.0    | 90° | 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°    | 556.2  | 36.4      | 23.2   |     |      |     |
| 0°-40°    | 948.0  | 62.0      | 39.5   |     |      |     |
| 0°-60°    | 1487.2 | 97.2      | 62.0   |     |      |     |
| 0°-90°    | 1529.5 | 100.0     | 63.7   |     |      |     |
| 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°   | 1529.5 | 100.0     | 63.7   |     |      |     |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°  |
|-------|-----|
| 0°    | 586 |
| 2.5°  | 587 |
| 5°    | 595 |
| 7.5°  | 605 |
| 10°   | 613 |
| 12.5° | 622 |
| 15°   | 634 |
| 17.5° | 651 |
| 20°   | 666 |
| 22.5° | 681 |
| 25°   | 692 |
| 27.5° | 694 |
| 30°   | 683 |
| 32.5° | 662 |
| 35°   | 632 |
| 37.5° | 595 |
| 40°   | 550 |
| 42.5° | 502 |
| 45°   | 450 |
| 47.5° | 396 |
| 50°   | 340 |
| 52.5° | 280 |
| 55°   | 218 |
| 57.5° | 157 |
| 60°   | 101 |
| 62.5° | 59  |
| 65°   | 25  |
| 67.5° | 14  |
| 70°   | 9   |
| 72.5° | 6   |
| 75°   | 4   |
| 77.5° | 2   |
| 80°   | 1   |
| 82.5° | 1   |
| 85°   | 0   |
| 87.5° | 0   |
| 90°   | 0   |

(END OF REPORT)