

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: SHAPER

Report Number: P237904

Luminaire Tested: **1400-DOME-80-L30-120**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P237904  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25854)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: 1400-DOME-80-L30-120  
Description: SHAPER 1400 SERIES LED PENDANT DIRECT DOWNLIGHT  
Light Source: LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 750.0 lumens  
Efficiency: N/A  
Efficacy: 61.5 lumens/watt  
Spacing Criteria (0/90/45): 1.42 / 1.42 / 1.48  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

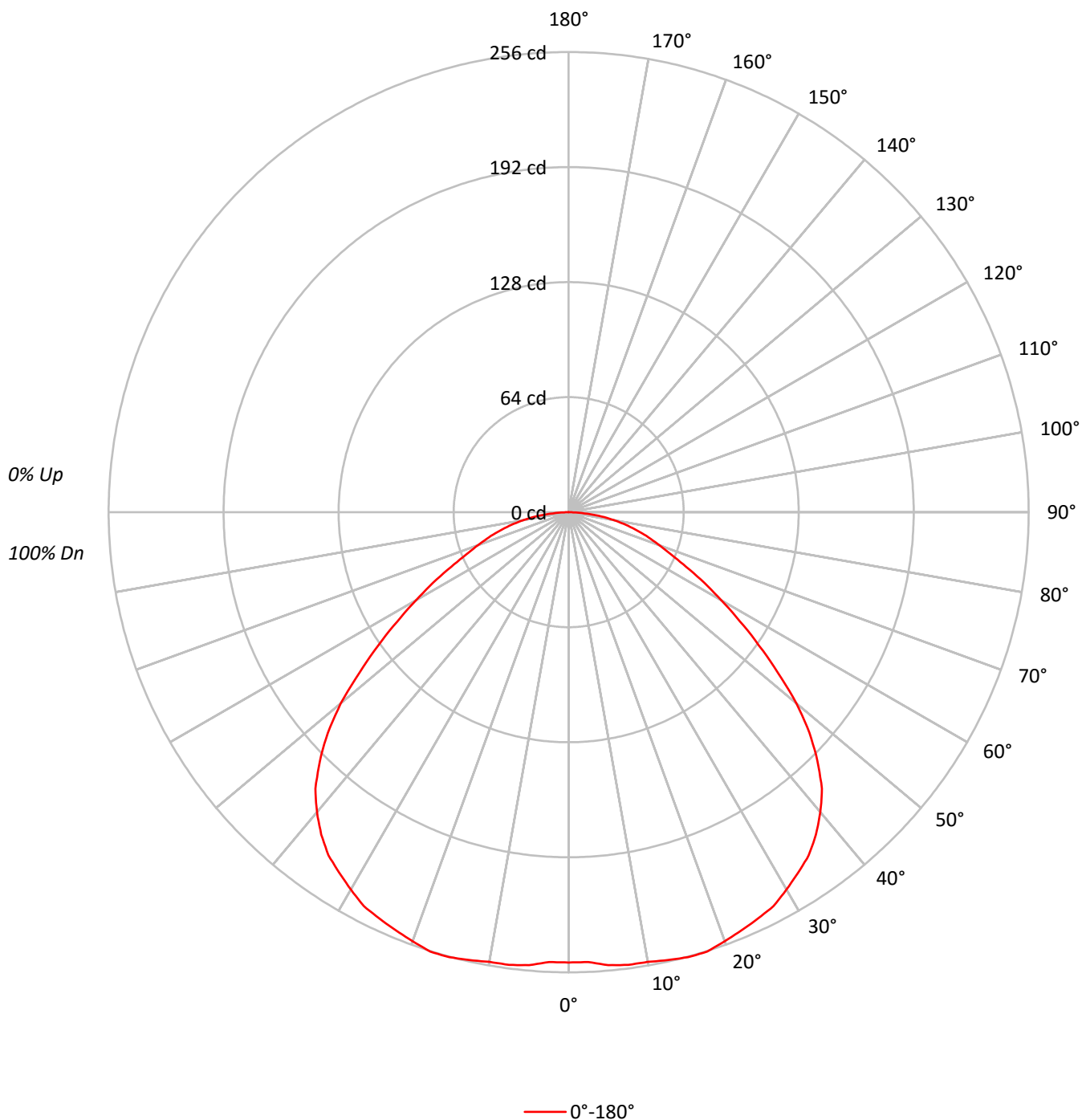
Input Watts (W): 12.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  |     |  |  |
| RW  | 70  | 50  | 30  | 10  | 70  | 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 |  |  |
| 1   | 109 | 105 | 101 | 97  | 107 | 102 | 99  | 95  | 98  | 95  | 92  | 94  | 92  | 90  | 91  | 89  | 87  | 85  |  |  |
| 2   | 100 | 92  | 85  | 80  | 97  | 90  | 84  | 79  | 86  | 81  | 77  | 83  | 79  | 75  | 80  | 77  | 74  | 71  |  |  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 77  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 61  |  |  |
| 4   | 84  | 72  | 63  | 57  | 81  | 71  | 63  | 57  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 59  | 54  | 52  |  |  |
| 5   | 77  | 64  | 56  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 47  | 45  |  |  |
| 6   | 71  | 58  | 49  | 43  | 69  | 57  | 49  | 43  | 55  | 48  | 42  | 54  | 47  | 42  | 52  | 46  | 42  | 40  |  |  |
| 7   | 66  | 53  | 44  | 38  | 64  | 52  | 44  | 38  | 50  | 43  | 38  | 49  | 42  | 37  | 47  | 42  | 37  | 35  |  |  |
| 8   | 61  | 48  | 40  | 34  | 60  | 47  | 39  | 34  | 46  | 39  | 33  | 45  | 38  | 33  | 44  | 38  | 33  | 31  |  |  |
| 9   | 57  | 44  | 36  | 30  | 56  | 43  | 36  | 30  | 42  | 35  | 30  | 41  | 35  | 30  | 40  | 34  | 30  | 28  |  |  |
| 10  | 54  | 41  | 33  | 27  | 52  | 40  | 32  | 27  | 39  | 32  | 27  | 38  | 32  | 27  | 37  | 31  | 27  | 25  |  |  |

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

|     | 0°    |
|-----|-------|
| 0°  | 30898 |
| 5°  | 31313 |
| 10° | 31813 |
| 15° | 32729 |
| 20° | 33340 |
| 25° | 33943 |
| 30° | 34524 |
| 35° | 35084 |
| 40° | 35085 |
| 45° | 34155 |
| 50° | 31758 |
| 55° | 27806 |
| 60° | 24151 |
| 65° | 21072 |
| 70° | 19330 |
| 75° | 18872 |
| 80° | 18184 |
| 85° | 14860 |

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 24.2   | 3.2       |
| 10°-20°   | 72.4   | 9.7       |
| 20°-30°   | 115.1  | 15.4      |
| 30°-40°   | 145.3  | 19.4      |
| 40°-50°   | 150.1  | 20.0      |
| 50°-60°   | 116.2  | 15.5      |
| 60°-70°   | 72.9   | 9.7       |
| 70°-80°   | 41.8   | 5.6       |
| 80°-90°   | 12.0   | 1.6       |
| 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°    | 211.7  | 28.2      |
| 0°-40°    | 357.0  | 47.6      |
| 0°-60°    | 623.3  | 83.1      |
| 0°-90°    | 750.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 750.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 250 |      |
| 5°  | 253 | 24   |
| 15° | 256 | 72   |
| 25° | 249 | 115  |
| 35° | 233 | 145  |
| 45° | 196 | 150  |
| 55° | 129 | 116  |
| 65° | 72  | 73   |
| 75° | 40  | 42   |
| 85° | 10  | 12   |
| 90° | 0   |      |

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**CANDELA DISTRIBUTION (FULL):**

| 0°    |       |
|-------|-------|
| 0°    | 250.5 |
| 2.5°  | 250.5 |
| 5°    | 252.9 |
| 7.5°  | 254.0 |
| 10°   | 254.0 |
| 12.5° | 255.2 |
| 15°   | 256.3 |
| 17.5° | 256.3 |
| 20°   | 254.0 |
| 22.5° | 251.7 |
| 25°   | 249.4 |
| 27.5° | 247.0 |
| 30°   | 242.4 |
| 32.5° | 237.7 |
| 35°   | 233.0 |
| 37.5° | 226.1 |
| 40°   | 217.9 |
| 42.5° | 208.6 |
| 45°   | 195.8 |
| 47.5° | 181.8 |
| 50°   | 165.5 |
| 52.5° | 146.8 |
| 55°   | 129.3 |
| 57.5° | 113.0 |
| 60°   | 97.9  |
| 62.5° | 85.1  |
| 65°   | 72.2  |
| 67.5° | 61.8  |
| 70°   | 53.6  |
| 72.5° | 46.6  |
| 75°   | 39.6  |
| 77.5° | 32.6  |
| 80°   | 25.6  |
| 82.5° | 18.6  |
| 85°   | 10.5  |
| 87.5° | 2.3   |
| 90°   | 0.0   |

(END OF REPORT)