

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: P273536

Luminaire Tested: **122-36-P1S-L9/827-UNV-NA-34**

Test Date: 08/10/15

Test Information

Test Method: LM-79-08
Report Number: P273536
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34342)
Test Lab: INNOVATION CENTER-P3
Test Date: 08/10/15
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 122-36-P1S-L9/827-UNV-NA-34
Description: SHAPER 122 SERIES 36" FABRIQUE DRUM PENDANT LUMINAIRE
Light Source: 22 CKTS 2700K LEDS
12540995
Ballast/Driver: (1) HATCH ELECTRONIC DRIVER (1) ROAL ELECTRONIC DRIVER
LC60-2400Z-UNV-F, RSLD035-07

Summary

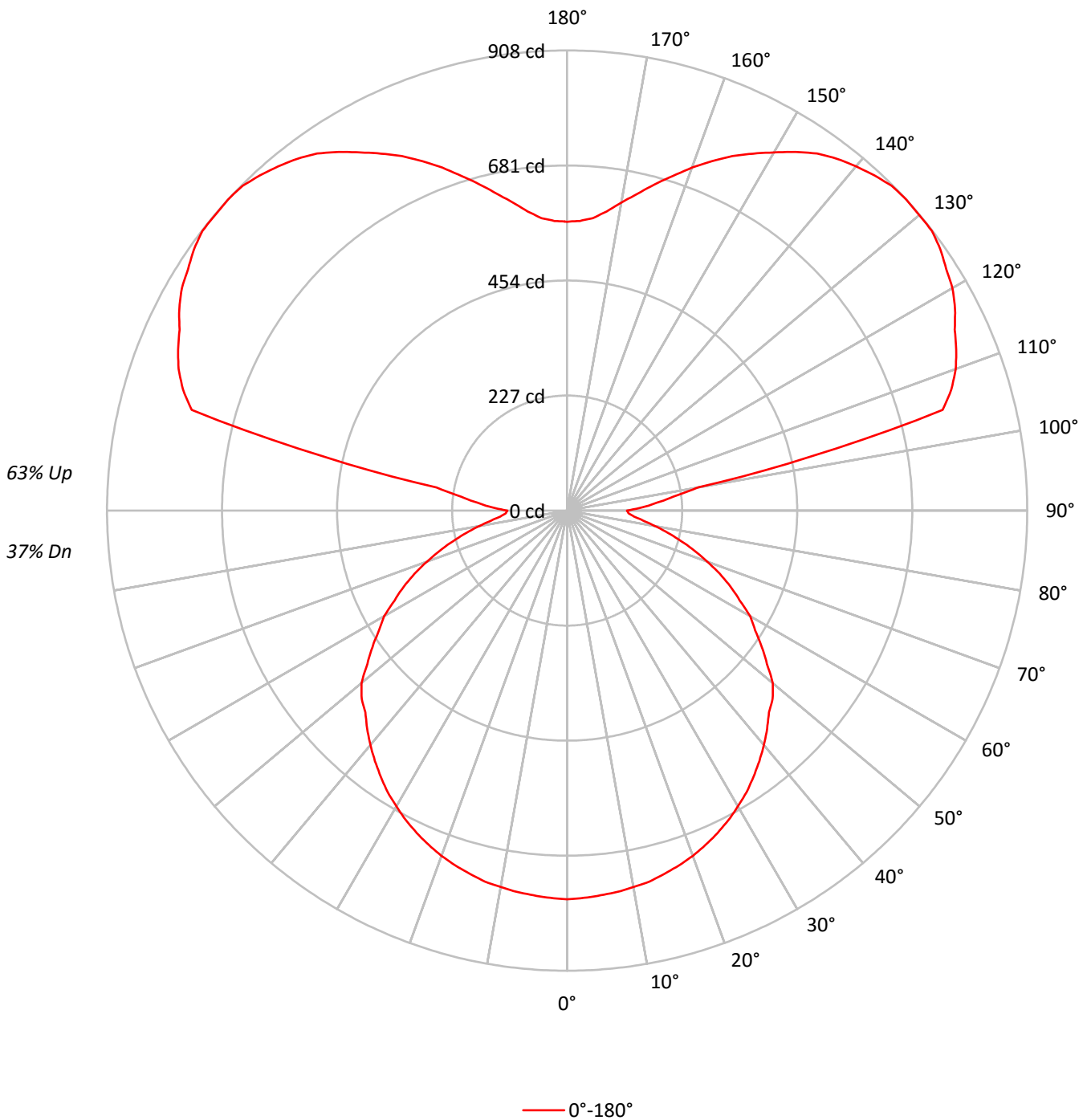
Lumens per Lamp: N/A
Luminaire Lumens: 6982.3 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.31 / 1.44
Luminous Opening: Vertical Cylinder (Dia: 3' x H: 1')
CIE Type: Semi-Indirect

Input Watts (W): 81.3
Input Voltage (V): 120.0
Input Current (Ain): 0.686
Voltage Rise (V): NR
Power Factor: 0.9923
Total Harmonic Distortion (THDi): 9.79
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: HR
Ambient Temperature (°C): 25.0
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 | 104 | 104 | 104 | 104 | 94 | 94 | 94 | 94 | 76 | 76 | 76 | | 60 | 60 | 60 | | 45 | 45 | 45 | 37 |
| 1 | 94 | 89 | 85 | 82 | 85 | 81 | 78 | 74 | 66 | 63 | 61 | | 51 | 49 | 48 | | 38 | 37 | 36 | 30 |
| 2 | 85 | 78 | 71 | 66 | 77 | 70 | 65 | 60 | 57 | 53 | 49 | | 44 | 42 | 39 | | 33 | 31 | 29 | 24 |
| 3 | 77 | 68 | 60 | 54 | 70 | 62 | 55 | 50 | 50 | 45 | 41 | | 39 | 36 | 33 | | 29 | 27 | 25 | 20 |
| 4 | 71 | 60 | 52 | 45 | 64 | 54 | 47 | 42 | 44 | 39 | 35 | | 34 | 31 | 28 | | 25 | 23 | 21 | 17 |
| 5 | 65 | 53 | 45 | 39 | 58 | 48 | 41 | 36 | 39 | 34 | 30 | | 31 | 27 | 24 | | 23 | 20 | 18 | 14 |
| 6 | 59 | 47 | 39 | 33 | 54 | 43 | 36 | 31 | 35 | 30 | 26 | | 28 | 24 | 21 | | 21 | 18 | 16 | 12 |
| 7 | 55 | 42 | 34 | 29 | 49 | 39 | 32 | 27 | 32 | 26 | 22 | | 25 | 21 | 18 | | 19 | 16 | 14 | 11 |
| 8 | 51 | 38 | 31 | 25 | 46 | 35 | 28 | 23 | 29 | 23 | 20 | | 23 | 19 | 16 | | 17 | 14 | 12 | 10 |
| 9 | 47 | 35 | 27 | 22 | 43 | 32 | 25 | 21 | 26 | 21 | 17 | | 21 | 17 | 14 | | 16 | 13 | 11 | 9 |
| 10 | 44 | 32 | 25 | 20 | 40 | 29 | 23 | 18 | 24 | 19 | 16 | | 19 | 15 | 13 | | 15 | 12 | 10 | 8 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|------|
| | 0° |
| 0° | 1168 |
| 5° | 1123 |
| 10° | 1085 |
| 15° | 1050 |
| 20° | 1018 |
| 25° | 985 |
| 30° | 952 |
| 35° | 919 |
| 40° | 885 |
| 45° | 851 |
| 50° | 834 |
| 55° | 775 |
| 60° | 732 |
| 65° | 672 |
| 70° | 604 |
| 75° | 531 |
| 80° | 453 |
| 85° | 394 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 72.5 | 1.0 |
| 10°-20° | 209.7 | 3.0 |
| 20°-30° | 323.8 | 4.6 |
| 30°-40° | 401.5 | 5.8 |
| 40°-50° | 437.6 | 6.3 |
| 50°-60° | 420.6 | 6.0 |
| 60°-70° | 352.0 | 5.0 |
| 70°-80° | 247.1 | 3.5 |
| 80°-90° | 150.2 | 2.2 |
| 90°-100° | 198.4 | 2.8 |
| 100°-110° | 683.1 | 9.8 |
| 110°-120° | 839.6 | 12.0 |
| 120°-130° | 803.9 | 11.5 |
| 130°-140° | 698.8 | 10.0 |
| 140°-150° | 538.8 | 7.7 |
| 150°-160° | 357.7 | 5.1 |
| 160°-170° | 190.5 | 2.7 |
| 170°-180° | 56.5 | 0.8 |
| 0°-30° | 606.1 | 8.7 |
| 0°-40° | 1007.6 | 14.4 |
| 0°-60° | 1865.7 | 26.7 |
| 0°-90° | 2615.0 | 37.5 |
| 90°-120° | 1721.1 | 24.6 |
| 90°-150° | 3762.6 | 53.9 |
| 90°-180° | 4367.0 | 62.5 |
| 0°-180° | 6982.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|-----|------|
| 0° | 767 | |
| 5° | 762 | 73 |
| 15° | 742 | 210 |
| 25° | 702 | 324 |
| 35° | 641 | 401 |
| 45° | 563 | 438 |
| 55° | 469 | 421 |
| 65° | 356 | 352 |
| 75° | 233 | 247 |
| 85° | 132 | 117 |
| 90° | 118 | 69 |
| 95° | 178 | 162 |
| 105° | 767 | 683 |
| 115° | 844 | 840 |
| 125° | 899 | 804 |
| 135° | 906 | 699 |
| 145° | 860 | 539 |
| 155° | 772 | 358 |
| 165° | 666 | 190 |
| 175° | 579 | 57 |
| 180° | 570 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|--------|-----|
| 0° | 767 |
| 2.5° | 765 |
| 5° | 762 |
| 7.5° | 759 |
| 10° | 754 |
| 12.5° | 750 |
| 15° | 742 |
| 17.5° | 734 |
| 20° | 725 |
| 22.5° | 714 |
| 25° | 702 |
| 27.5° | 689 |
| 30° | 674 |
| 32.5° | 659 |
| 35° | 641 |
| 37.5° | 623 |
| 40° | 604 |
| 42.5° | 584 |
| 45° | 563 |
| 47.5° | 550 |
| 50° | 530 |
| 52.5° | 497 |
| 55° | 469 |
| 57.5° | 440 |
| 60° | 417 |
| 62.5° | 384 |
| 65° | 356 |
| 67.5° | 326 |
| 70° | 294 |
| 72.5° | 264 |
| 75° | 233 |
| 77.5° | 204 |
| 80° | 176 |
| 82.5° | 151 |
| 85° | 132 |
| 87.5° | 121 |
| 90° | 118 |
| 92.5° | 149 |
| 95° | 178 |
| 97.5° | 211 |
| 100° | 262 |
| 102.5° | 490 |
| 105° | 767 |
| 107.5° | 795 |
| 110° | 816 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|-----|
| 112.5° | 831 |
| 115° | 844 |
| 117.5° | 863 |
| 120° | 878 |
| 122.5° | 887 |
| 125° | 899 |
| 127.5° | 907 |
| 130° | 907 |
| 132.5° | 908 |
| 135° | 906 |
| 137.5° | 897 |
| 140° | 887 |
| 142.5° | 875 |
| 145° | 860 |
| 147.5° | 839 |
| 150° | 816 |
| 152.5° | 794 |
| 155° | 772 |
| 157.5° | 746 |
| 160° | 720 |
| 162.5° | 692 |
| 165° | 666 |
| 167.5° | 640 |
| 170° | 617 |
| 172.5° | 595 |
| 175° | 579 |
| 177.5° | 572 |
| 180° | 570 |

(END OF REPORT)