

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: P402539

Luminaire Tested: **ShSe-CIR-2-L30-80-UNV-STD**

Issue Date: 6/5/2020

Test Information

Test Method: LM-79-08
Report Number: P402539
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2004-737-3)
Test Lab: INNOVATIONS CENTER
Issue Date: 6/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: ShSe-CIR-2-L30-80-UNV-STD
Description: SHAPER SENSE CIRCLE
LIGHT LEVEL 2
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

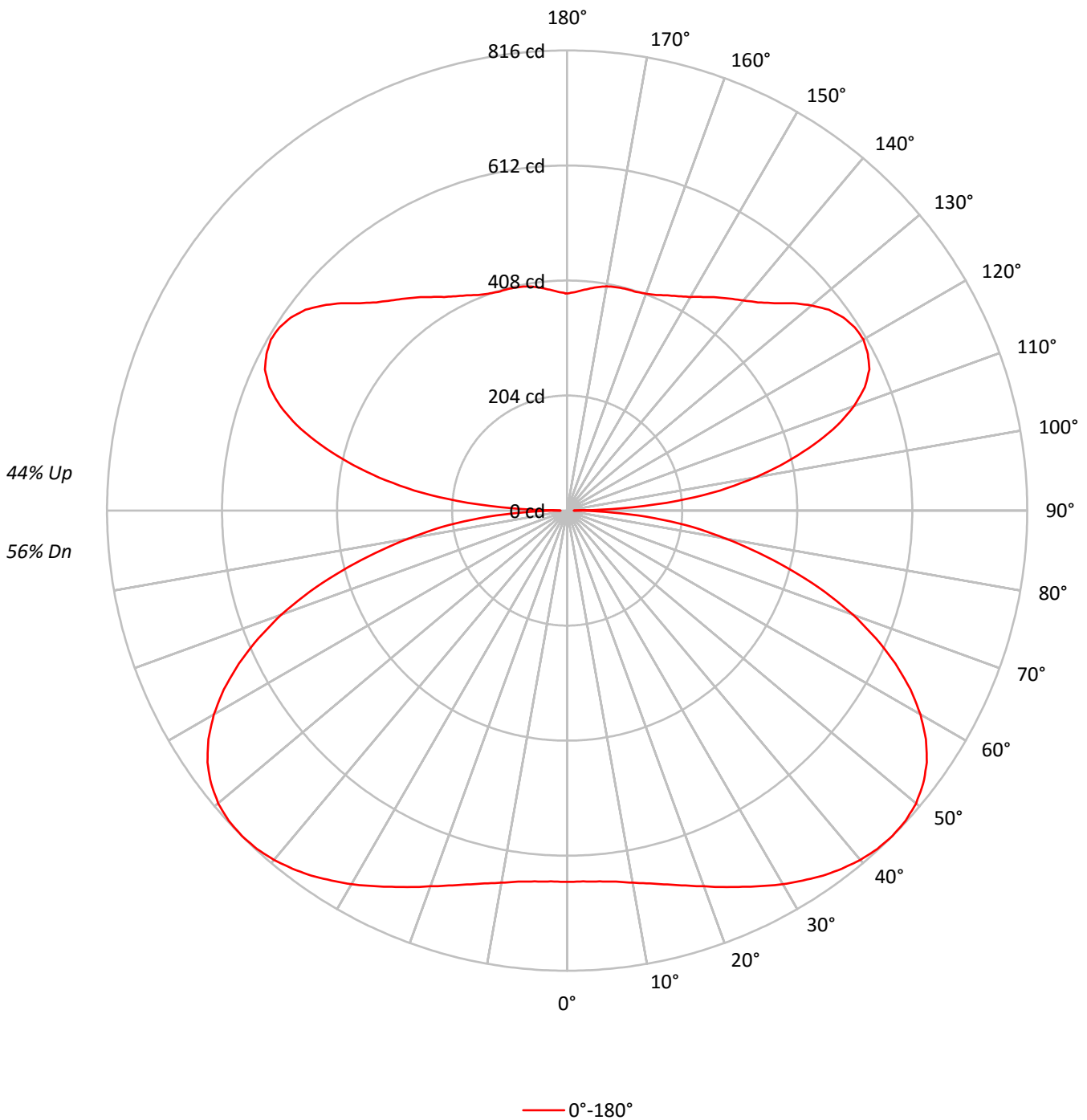
Lumens per Lamp: N/A
Luminaire Lumens: 6488.2 lumens
Efficiency: N/A
Efficacy: 143.2 lumens/watt
Spacing Criteria (0/90/45): 1.82 / 1.82 / 1.92
Luminous Opening: Circular (Dia: 1.88' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 45.3
Input Voltage (V): 120
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 | 109 | 109 | 109 | 109 | 101 | 101 | 101 | 101 | 87 | 87 | 87 | 74 | 74 | 74 | 62 | 62 | 62 | 56 |
| 1 | 98 | 92 | 88 | 84 | 90 | 86 | 82 | 78 | 74 | 71 | 68 | 62 | 60 | 58 | 52 | 50 | 49 | 44 |
| 2 | 88 | 79 | 72 | 66 | 81 | 73 | 67 | 62 | 63 | 58 | 54 | 53 | 50 | 46 | 44 | 41 | 39 | 35 |
| 3 | 79 | 68 | 60 | 53 | 73 | 63 | 56 | 50 | 54 | 49 | 44 | 46 | 41 | 38 | 38 | 35 | 32 | 28 |
| 4 | 72 | 60 | 51 | 44 | 66 | 55 | 48 | 41 | 47 | 41 | 36 | 40 | 35 | 31 | 33 | 29 | 26 | 23 |
| 5 | 65 | 53 | 44 | 37 | 60 | 49 | 41 | 35 | 42 | 35 | 30 | 35 | 30 | 26 | 29 | 25 | 22 | 19 |
| 6 | 60 | 47 | 38 | 31 | 55 | 43 | 35 | 30 | 37 | 31 | 26 | 31 | 26 | 22 | 26 | 22 | 19 | 16 |
| 7 | 55 | 42 | 33 | 27 | 51 | 39 | 31 | 26 | 33 | 27 | 22 | 28 | 23 | 19 | 23 | 19 | 16 | 14 |
| 8 | 51 | 38 | 29 | 24 | 47 | 35 | 28 | 22 | 30 | 24 | 20 | 26 | 21 | 17 | 21 | 17 | 14 | 12 |
| 9 | 47 | 34 | 26 | 21 | 44 | 32 | 25 | 20 | 28 | 21 | 17 | 23 | 18 | 15 | 20 | 16 | 13 | 10 |
| 10 | 44 | 31 | 23 | 18 | 41 | 29 | 22 | 17 | 25 | 19 | 15 | 22 | 17 | 13 | 18 | 14 | 11 | 9 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|------|
| | 0° |
| 0° | 2566 |
| 5° | 2583 |
| 10° | 2652 |
| 15° | 2770 |
| 20° | 2941 |
| 25° | 3166 |
| 30° | 3444 |
| 35° | 3762 |
| 40° | 4115 |
| 45° | 4498 |
| 50° | 4898 |
| 55° | 5292 |
| 60° | 5641 |
| 65° | 5922 |
| 70° | 6141 |
| 75° | 6233 |
| 80° | 6403 |
| 85° | 7004 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 63.3 | 1.0 |
| 10°-20° | 195.5 | 3.0 |
| 20°-30° | 341.7 | 5.3 |
| 30°-40° | 496.1 | 7.6 |
| 40°-50° | 629.6 | 9.7 |
| 50°-60° | 693.4 | 10.7 |
| 60°-70° | 632.3 | 9.7 |
| 70°-80° | 436.5 | 6.7 |
| 80°-90° | 166.4 | 2.6 |
| 90°-100° | 202.1 | 3.1 |
| 100°-110° | 474.0 | 7.3 |
| 110°-120° | 579.8 | 8.9 |
| 120°-130° | 532.7 | 8.2 |
| 130°-140° | 405.6 | 6.3 |
| 140°-150° | 290.6 | 4.5 |
| 150°-160° | 195.5 | 3.0 |
| 160°-170° | 115.2 | 1.8 |
| 170°-180° | 37.9 | 0.6 |
| 0°-30° | 600.5 | 9.3 |
| 0°-40° | 1096.6 | 16.9 |
| 0°-60° | 2419.6 | 37.3 |
| 0°-90° | 3654.7 | 56.3 |
| 90°-120° | 1255.8 | 19.4 |
| 90°-150° | 2484.8 | 38.3 |
| 90°-180° | 2833.0 | 43.7 |
| 0°-180° | 6488.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|-----|------|
| 0° | 658 | |
| 5° | 660 | 63 |
| 15° | 686 | 195 |
| 25° | 736 | 342 |
| 35° | 790 | 496 |
| 45° | 816 | 630 |
| 55° | 779 | 693 |
| 65° | 642 | 632 |
| 75° | 414 | 437 |
| 85° | 157 | 154 |
| 90° | 12 | 28 |
| 95° | 196 | 187 |
| 105° | 454 | 474 |
| 115° | 591 | 580 |
| 125° | 598 | 533 |
| 135° | 520 | 406 |
| 145° | 462 | 291 |
| 155° | 421 | 196 |
| 165° | 407 | 115 |
| 175° | 394 | 38 |
| 180° | 385 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|--------|-------|
| 0° | 658.3 |
| 2.5° | 658.3 |
| 5° | 660.1 |
| 7.5° | 663.7 |
| 10° | 670.0 |
| 12.5° | 677.3 |
| 15° | 686.3 |
| 17.5° | 697.2 |
| 20° | 709.0 |
| 22.5° | 722.6 |
| 25° | 736.1 |
| 27.5° | 750.6 |
| 30° | 765.1 |
| 32.5° | 777.8 |
| 35° | 790.5 |
| 37.5° | 800.4 |
| 40° | 808.6 |
| 42.5° | 814.0 |
| 45° | 815.8 |
| 47.5° | 814.0 |
| 50° | 807.7 |
| 52.5° | 795.9 |
| 55° | 778.7 |
| 57.5° | 754.3 |
| 60° | 723.5 |
| 62.5° | 686.3 |
| 65° | 642.0 |
| 67.5° | 593.1 |
| 70° | 538.8 |
| 72.5° | 479.0 |
| 75° | 413.8 |
| 77.5° | 349.5 |
| 80° | 285.2 |
| 82.5° | 224.6 |
| 85° | 156.6 |
| 87.5° | 81.5 |
| 90° | 11.8 |
| 92.5° | 96.9 |
| 95° | 196.5 |
| 97.5° | 273.5 |
| 100° | 339.5 |
| 102.5° | 398.4 |
| 105° | 453.6 |
| 107.5° | 502.5 |
| 110° | 541.5 |

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CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|-------|
| 112.5° | 571.3 |
| 115° | 591.3 |
| 117.5° | 601.2 |
| 120° | 606.7 |
| 122.5° | 604.9 |
| 125° | 597.6 |
| 127.5° | 584.9 |
| 130° | 565.9 |
| 132.5° | 544.2 |
| 135° | 519.7 |
| 137.5° | 500.7 |
| 140° | 486.2 |
| 142.5° | 473.6 |
| 145° | 461.8 |
| 147.5° | 449.1 |
| 150° | 437.3 |
| 152.5° | 428.3 |
| 155° | 421.0 |
| 157.5° | 413.8 |
| 160° | 409.3 |
| 162.5° | 406.6 |
| 165° | 406.6 |
| 167.5° | 405.6 |
| 170° | 403.8 |
| 172.5° | 399.3 |
| 175° | 393.9 |
| 177.5° | 388.4 |
| 180° | 384.8 |

(END OF REPORT)