

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: METALUX

Report Number: P289643

Luminaire Tested: **4SSRK-TB-30-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SSRK-TB-30-L935-CD1-U
Description: 3000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 90 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2468.1 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.08 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Direct

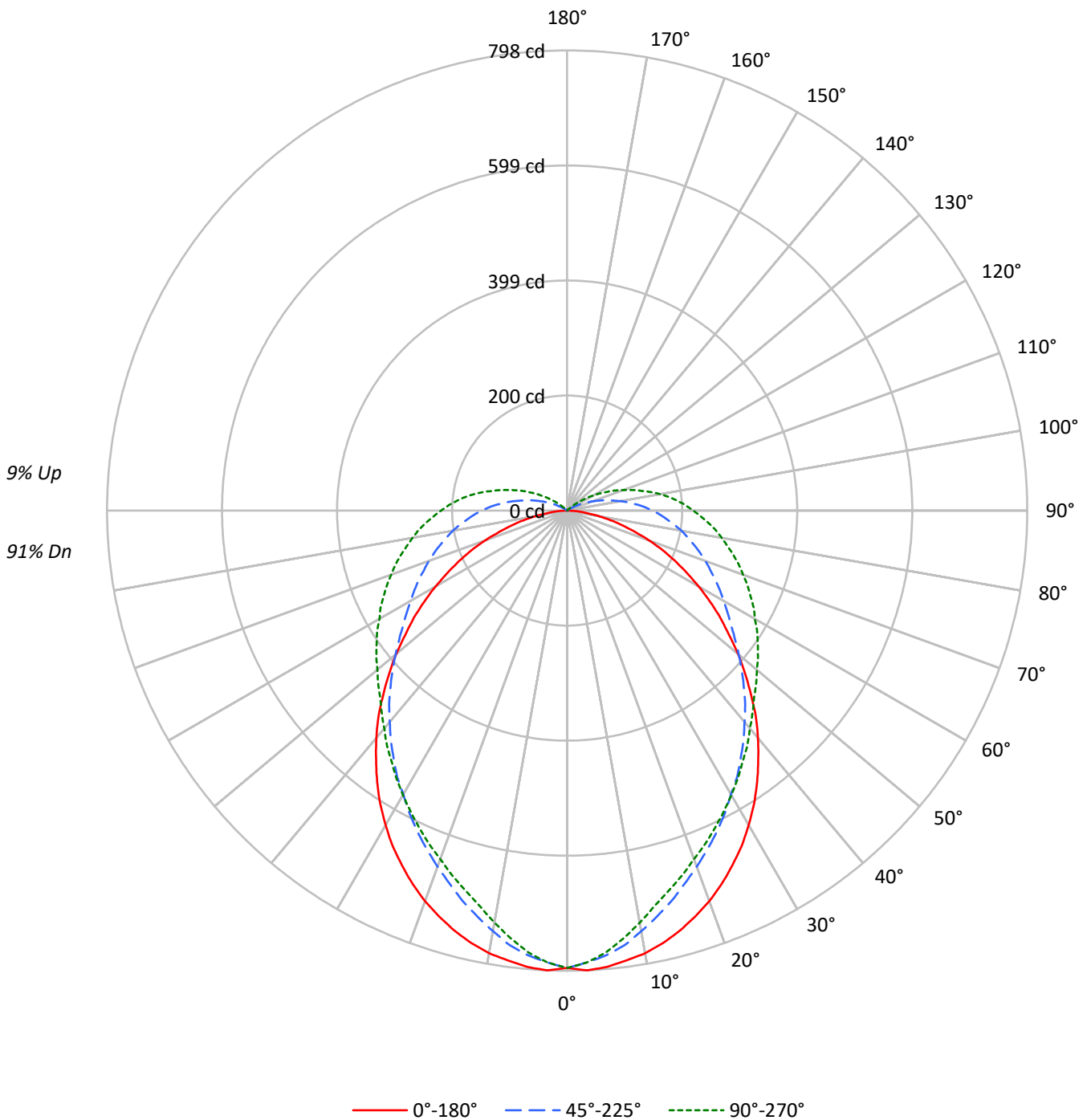
Input Watts (W): 20.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 117 | 117 | 117 | 117 | 113 | 113 | 113 | 113 | 106 | 106 | 106 | 99 | 99 | 99 | 93 | 93 | 93 | 91 |
| 1 | 104 | 98 | 93 | 89 | 100 | 95 | 90 | 86 | 89 | 85 | 82 | 84 | 80 | 78 | 78 | 76 | 74 | 71 |
| 2 | 94 | 85 | 77 | 71 | 90 | 82 | 75 | 69 | 77 | 71 | 66 | 72 | 67 | 63 | 68 | 64 | 60 | 58 |
| 3 | 85 | 74 | 65 | 58 | 82 | 72 | 64 | 57 | 67 | 60 | 55 | 63 | 58 | 53 | 60 | 55 | 51 | 48 |
| 4 | 78 | 65 | 56 | 49 | 75 | 63 | 55 | 48 | 60 | 52 | 47 | 56 | 50 | 45 | 53 | 48 | 43 | 41 |
| 5 | 72 | 58 | 49 | 42 | 69 | 57 | 48 | 41 | 53 | 46 | 40 | 50 | 44 | 39 | 48 | 42 | 38 | 35 |
| 6 | 66 | 53 | 43 | 37 | 64 | 51 | 42 | 36 | 48 | 41 | 35 | 46 | 39 | 34 | 43 | 38 | 33 | 31 |
| 7 | 61 | 48 | 39 | 32 | 59 | 46 | 38 | 32 | 44 | 37 | 31 | 42 | 35 | 30 | 40 | 34 | 29 | 27 |
| 8 | 57 | 44 | 35 | 29 | 55 | 42 | 34 | 29 | 40 | 33 | 28 | 38 | 32 | 27 | 36 | 31 | 26 | 24 |
| 9 | 54 | 40 | 32 | 26 | 52 | 39 | 31 | 26 | 37 | 30 | 25 | 35 | 29 | 24 | 34 | 28 | 24 | 22 |
| 10 | 50 | 37 | 29 | 24 | 48 | 36 | 28 | 23 | 34 | 28 | 23 | 33 | 27 | 22 | 31 | 26 | 22 | 20 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 51221 | 51221 | 51221 |
| 5° | 51307 | 40162 | 36949 |
| 10° | 50740 | 32294 | 27904 |
| 15° | 49883 | 26532 | 22006 |
| 20° | 48792 | 22132 | 18000 |
| 25° | 47407 | 18772 | 15096 |
| 30° | 45842 | 15993 | 12833 |
| 35° | 44010 | 13782 | 11011 |
| 40° | 41919 | 11869 | 9547 |
| 45° | 39535 | 10261 | 8374 |
| 50° | 37063 | 8857 | 7485 |
| 55° | 34507 | 7693 | 6767 |
| 60° | 31744 | 6806 | 6124 |
| 65° | 28912 | 6077 | 5600 |
| 70° | 25601 | 5435 | 5114 |
| 75° | 21573 | 4862 | 4676 |
| 80° | 16907 | 4346 | 4276 |
| 85° | 10641 | 3821 | 3902 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 73.4 | 3.0 |
| 10°-20° | 200.1 | 8.1 |
| 20°-30° | 289.5 | 11.7 |
| 30°-40° | 336.8 | 13.6 |
| 40°-50° | 342.8 | 13.9 |
| 50°-60° | 319.0 | 12.9 |
| 60°-70° | 277.8 | 11.3 |
| 70°-80° | 226.1 | 9.2 |
| 80°-90° | 171.3 | 6.9 |
| 90°-100° | 118.8 | 4.8 |
| 100°-110° | 69.8 | 2.8 |
| 110°-120° | 32.7 | 1.3 |
| 120°-130° | 9.3 | 0.4 |
| 130°-140° | 0.5 | 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° | 563.1 | 22.8 |
| 0°-40° | 899.9 | 36.5 |
| 0°-60° | 1561.7 | 63.3 |
| 0°-90° | 2236.9 | 90.6 |
| 90°-120° | 221.3 | 9.0 |
| 90°-150° | 231.2 | 9.4 |
| 90°-180° | 231.0 | 9.4 |
| 0°-180° | 2468.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 793 | 793 | 793 | 793 | 793 | |
| 5° | 794 | 788 | 774 | 774 | 769 | 75 |
| 15° | 754 | 734 | 701 | 688 | 682 | 213 |
| 25° | 678 | 648 | 614 | 610 | 607 | 312 |
| 35° | 574 | 544 | 525 | 530 | 531 | 359 |
| 45° | 451 | 433 | 433 | 451 | 458 | 348 |
| 55° | 325 | 324 | 347 | 388 | 403 | 290 |
| 65° | 206 | 224 | 284 | 334 | 351 | 204 |
| 75° | 100 | 146 | 227 | 280 | 298 | 107 |
| 85° | 21 | 91 | 174 | 229 | 246 | 24 |
| 90° | 0 | 66 | 147 | 201 | 219 | 1 |
| 95° | 0 | 42 | 121 | 175 | 192 | 0 |
| 105° | 0 | 10 | 69 | 116 | 132 | 0 |
| 115° | 0 | 0 | 28 | 64 | 77 | 0 |
| 125° | 0 | 0 | 1 | 21 | 31 | 0 |
| 135° | 0 | 0 | 0 | 0 | 0 | 0 |
| 145° | 0 | 0 | 0 | 0 | 0 | 0 |
| 155° | 0 | 0 | 0 | 0 | 0 | 0 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 1 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P289643

CATALOG NUMBER: 4SSRK-TB-30-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 793.1 | 793.1 | 793.1 | 793.1 | 793.1 |
| 2.5° | 798.1 | 794.3 | 784.3 | 788.1 | 784.3 |
| 5° | 794.3 | 788.1 | 774.4 | 774.4 | 769.4 |
| 7.5° | 786.8 | 779.4 | 760.6 | 754.4 | 748.1 |
| 10° | 779.4 | 768.1 | 740.6 | 733.1 | 725.6 |
| 12.5° | 768.1 | 751.9 | 720.7 | 709.4 | 701.9 |
| 15° | 754.4 | 734.4 | 700.7 | 688.2 | 681.9 |
| 17.5° | 738.1 | 715.7 | 678.2 | 668.2 | 663.2 |
| 20° | 720.7 | 694.4 | 657.0 | 648.2 | 643.2 |
| 22.5° | 700.7 | 670.7 | 635.7 | 629.5 | 625.7 |
| 25° | 678.2 | 648.2 | 614.5 | 609.5 | 607.0 |
| 27.5° | 655.7 | 623.2 | 592.0 | 589.5 | 588.3 |
| 30° | 629.5 | 598.3 | 568.3 | 569.5 | 569.5 |
| 32.5° | 603.2 | 572.0 | 548.3 | 550.8 | 550.8 |
| 35° | 574.5 | 544.5 | 524.6 | 529.6 | 530.8 |
| 37.5° | 544.5 | 518.3 | 502.1 | 509.6 | 513.3 |
| 40° | 514.6 | 490.8 | 478.4 | 489.6 | 493.3 |
| 42.5° | 484.6 | 462.1 | 457.1 | 470.9 | 475.9 |
| 45° | 450.9 | 433.4 | 433.4 | 450.9 | 458.4 |
| 47.5° | 418.4 | 407.2 | 410.9 | 433.4 | 444.6 |
| 50° | 387.2 | 378.4 | 388.4 | 417.2 | 429.6 |
| 52.5° | 353.5 | 351.0 | 367.2 | 402.2 | 417.2 |
| 55° | 324.7 | 323.5 | 347.2 | 388.4 | 403.4 |
| 57.5° | 293.5 | 297.3 | 329.7 | 374.7 | 390.9 |
| 60° | 263.5 | 271.0 | 313.5 | 361.0 | 375.9 |
| 62.5° | 233.6 | 248.5 | 298.5 | 347.2 | 364.7 |
| 65° | 206.1 | 223.6 | 283.5 | 333.5 | 351.0 |
| 67.5° | 178.6 | 201.1 | 268.5 | 321.0 | 338.5 |
| 70° | 151.1 | 181.1 | 254.8 | 307.2 | 324.7 |
| 72.5° | 123.6 | 163.6 | 241.1 | 293.5 | 312.2 |
| 75° | 99.9 | 146.1 | 227.3 | 279.8 | 298.5 |
| 77.5° | 77.4 | 132.4 | 213.6 | 268.5 | 284.8 |
| 80° | 56.2 | 117.4 | 201.1 | 254.8 | 272.3 |
| 82.5° | 36.2 | 104.9 | 187.3 | 241.1 | 259.8 |
| 85° | 21.2 | 91.2 | 173.6 | 228.6 | 246.0 |
| 87.5° | 8.7 | 77.4 | 161.1 | 214.8 | 232.3 |
| 90° | 0.0 | 66.2 | 147.4 | 201.1 | 218.6 |
| 92.5° | 0.0 | 55.0 | 134.9 | 188.6 | 206.1 |
| 95° | 0.0 | 42.5 | 121.1 | 174.9 | 192.3 |
| 97.5° | 0.0 | 32.5 | 107.4 | 161.1 | 178.6 |
| 100° | 0.0 | 25.0 | 93.7 | 144.9 | 163.6 |
| 102.5° | 0.0 | 17.5 | 79.9 | 129.9 | 148.6 |
| 105° | 0.0 | 10.0 | 68.7 | 116.2 | 132.4 |
| 107.5° | 0.0 | 5.0 | 57.5 | 102.4 | 118.7 |
| 110° | 0.0 | 1.2 | 46.2 | 88.7 | 103.7 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|------|
| 112.5° | 0.0 | 0.0 | 36.2 | 76.2 | 91.2 |
| 115° | 0.0 | 0.0 | 27.5 | 63.7 | 77.4 |
| 117.5° | 0.0 | 0.0 | 18.7 | 52.5 | 64.9 |
| 120° | 0.0 | 0.0 | 11.2 | 41.2 | 52.5 |
| 122.5° | 0.0 | 0.0 | 5.0 | 31.2 | 41.2 |
| 125° | 0.0 | 0.0 | 1.2 | 21.2 | 31.2 |
| 127.5° | 0.0 | 0.0 | 0.0 | 12.5 | 21.2 |
| 130° | 0.0 | 0.0 | 0.0 | 6.2 | 12.5 |
| 132.5° | 0.0 | 0.0 | 0.0 | 1.2 | 5.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)