

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-L830-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-L830-CD1-U
Description: 3000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 80 CRI 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2888.4 lumens
Efficiency: N/A
Efficacy: 141.6 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

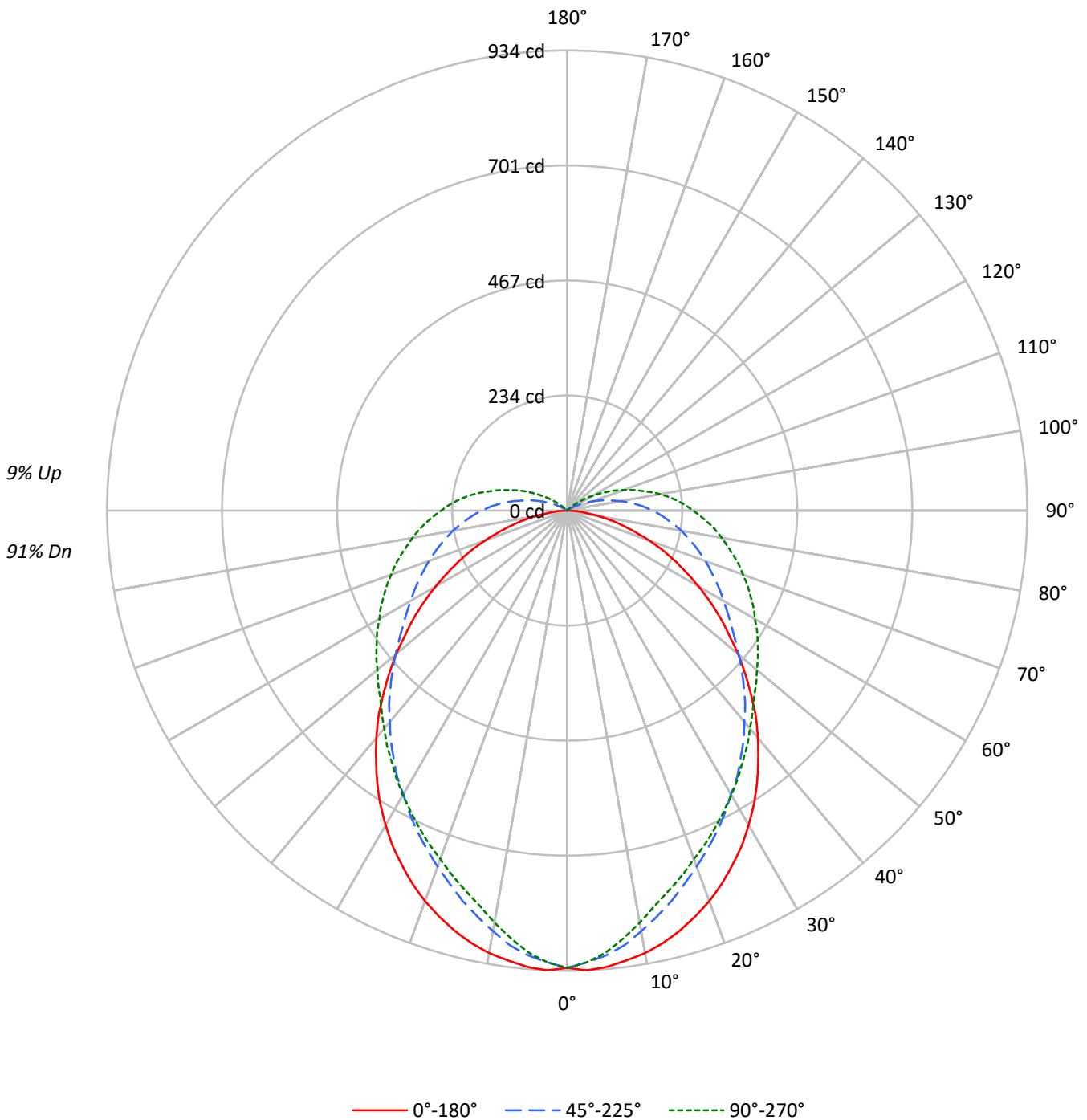
Input Watts (W): 20.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: 4SSRK-TB-30-L830-CD1-U

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° | 59939 | 59939 | 59939 |
| 5° | 60047 | 46998 | 43241 |
| 10° | 59379 | 37797 | 32657 |
| 15° | 58373 | 31050 | 25756 |
| 20° | 57099 | 25899 | 21064 |
| 25° | 55481 | 21968 | 17668 |
| 30° | 53648 | 18717 | 15019 |
| 35° | 51510 | 16128 | 12886 |
| 40° | 49055 | 13889 | 11174 |
| 45° | 46269 | 12008 | 9798 |
| 50° | 43371 | 10367 | 8760 |
| 55° | 40384 | 9003 | 7919 |
| 60° | 37153 | 7965 | 7168 |
| 65° | 33836 | 7113 | 6553 |
| 70° | 29972 | 6361 | 5985 |
| 75° | 25244 | 5690 | 5472 |
| 80° | 19795 | 5086 | 5003 |
| 85° | 12448 | 4473 | 4566 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 85.9 | 3.0 |
| 10°-20° | 234.2 | 8.1 |
| 20°-30° | 338.9 | 11.7 |
| 30°-40° | 394.2 | 13.6 |
| 40°-50° | 401.2 | 13.9 |
| 50°-60° | 373.3 | 12.9 |
| 60°-70° | 325.1 | 11.3 |
| 70°-80° | 264.6 | 9.2 |
| 80°-90° | 200.5 | 6.9 |
| 90°-100° | 139.0 | 4.8 |
| 100°-110° | 81.7 | 2.8 |
| 110°-120° | 38.3 | 1.3 |
| 120°-130° | 10.9 | 0.4 |
| 130°-140° | 0.6 | 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° | 659.0 | 22.8 |
| 0°-40° | 1053.1 | 36.5 |
| 0°-60° | 1827.7 | 63.3 |
| 0°-90° | 2617.8 | 90.6 |
| 90°-120° | 259.0 | 9.0 |
| 90°-150° | 270.5 | 9.4 |
| 90°-180° | 271.0 | 9.4 |
| 0°-180° | 2888.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 928 | 928 | 928 | 928 | 928 | |
| 5° | 930 | 922 | 906 | 906 | 900 | 88 |
| 15° | 883 | 859 | 820 | 805 | 798 | 249 |
| 25° | 794 | 759 | 719 | 713 | 710 | 366 |
| 35° | 672 | 637 | 614 | 620 | 621 | 420 |
| 45° | 528 | 507 | 507 | 528 | 536 | 407 |
| 55° | 380 | 379 | 406 | 455 | 472 | 339 |
| 65° | 241 | 262 | 332 | 390 | 411 | 239 |
| 75° | 117 | 171 | 266 | 327 | 349 | 125 |
| 85° | 25 | 107 | 203 | 268 | 288 | 29 |
| 90° | 0 | 78 | 172 | 235 | 256 | 1 |
| 95° | 0 | 50 | 142 | 205 | 225 | 0 |
| 105° | 0 | 12 | 80 | 136 | 155 | 0 |
| 115° | 0 | 0 | 32 | 74 | 91 | 0 |
| 125° | 0 | 0 | 2 | 25 | 36 | 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° | 2 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P289643

CATALOG NUMBER: 4SSRK-TB-30-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 928.1 | 928.1 | 928.1 | 928.1 | 928.1 |
| 2.5° | 934.0 | 929.6 | 917.9 | 922.3 | 917.9 |
| 5° | 929.6 | 922.3 | 906.2 | 906.2 | 900.4 |
| 7.5° | 920.8 | 912.1 | 890.1 | 882.8 | 875.5 |
| 10° | 912.1 | 898.9 | 866.8 | 858.0 | 849.2 |
| 12.5° | 898.9 | 879.9 | 843.4 | 830.2 | 821.4 |
| 15° | 882.8 | 859.4 | 820.0 | 805.4 | 798.1 |
| 17.5° | 863.8 | 837.5 | 793.7 | 782.0 | 776.1 |
| 20° | 843.4 | 812.7 | 768.8 | 758.6 | 752.7 |
| 22.5° | 820.0 | 784.9 | 744.0 | 736.7 | 732.3 |
| 25° | 793.7 | 758.6 | 719.1 | 713.3 | 710.4 |
| 27.5° | 767.4 | 729.4 | 692.8 | 689.9 | 688.4 |
| 30° | 736.7 | 700.1 | 665.1 | 666.5 | 666.5 |
| 32.5° | 706.0 | 669.4 | 641.7 | 644.6 | 644.6 |
| 35° | 672.4 | 637.3 | 613.9 | 619.7 | 621.2 |
| 37.5° | 637.3 | 606.6 | 587.6 | 596.4 | 600.7 |
| 40° | 602.2 | 574.4 | 559.8 | 573.0 | 577.4 |
| 42.5° | 567.1 | 540.8 | 535.0 | 551.0 | 556.9 |
| 45° | 527.7 | 507.2 | 507.2 | 527.7 | 536.4 |
| 47.5° | 489.7 | 476.5 | 480.9 | 507.2 | 520.3 |
| 50° | 453.1 | 442.9 | 454.6 | 488.2 | 502.8 |
| 52.5° | 413.6 | 410.7 | 429.7 | 470.7 | 488.2 |
| 55° | 380.0 | 378.6 | 406.3 | 454.6 | 472.1 |
| 57.5° | 343.5 | 347.9 | 385.9 | 438.5 | 457.5 |
| 60° | 308.4 | 317.2 | 366.9 | 422.4 | 440.0 |
| 62.5° | 273.3 | 290.9 | 349.3 | 406.3 | 426.8 |
| 65° | 241.2 | 261.6 | 331.8 | 390.3 | 410.7 |
| 67.5° | 209.0 | 235.3 | 314.3 | 375.6 | 396.1 |
| 70° | 176.9 | 211.9 | 298.2 | 359.6 | 380.0 |
| 72.5° | 144.7 | 191.5 | 282.1 | 343.5 | 365.4 |
| 75° | 116.9 | 171.0 | 266.0 | 327.4 | 349.3 |
| 77.5° | 90.6 | 154.9 | 249.9 | 314.3 | 333.3 |
| 80° | 65.8 | 137.4 | 235.3 | 298.2 | 318.6 |
| 82.5° | 42.4 | 122.8 | 219.2 | 282.1 | 304.0 |
| 85° | 24.8 | 106.7 | 203.2 | 267.5 | 287.9 |
| 87.5° | 10.2 | 90.6 | 188.6 | 251.4 | 271.9 |
| 90° | 0.0 | 77.5 | 172.5 | 235.3 | 255.8 |
| 92.5° | 0.0 | 64.3 | 157.9 | 220.7 | 241.2 |
| 95° | 0.0 | 49.7 | 141.8 | 204.6 | 225.1 |
| 97.5° | 0.0 | 38.0 | 125.7 | 188.6 | 209.0 |
| 100° | 0.0 | 29.2 | 109.6 | 169.6 | 191.5 |
| 102.5° | 0.0 | 20.5 | 93.5 | 152.0 | 173.9 |
| 105° | 0.0 | 11.7 | 80.4 | 135.9 | 154.9 |
| 107.5° | 0.0 | 5.8 | 67.2 | 119.9 | 138.9 |
| 110° | 0.0 | 1.5 | 54.1 | 103.8 | 121.3 |



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CATALOG NUMBER: 4SSRK-TB-30-L830-CD1-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|-------|
| 112.5° | 0.0 | 0.0 | 42.4 | 89.2 | 106.7 |
| 115° | 0.0 | 0.0 | 32.2 | 74.5 | 90.6 |
| 117.5° | 0.0 | 0.0 | 21.9 | 61.4 | 76.0 |
| 120° | 0.0 | 0.0 | 13.2 | 48.2 | 61.4 |
| 122.5° | 0.0 | 0.0 | 5.8 | 36.5 | 48.2 |
| 125° | 0.0 | 0.0 | 1.5 | 24.8 | 36.5 |
| 127.5° | 0.0 | 0.0 | 0.0 | 14.6 | 24.8 |
| 130° | 0.0 | 0.0 | 0.0 | 7.3 | 14.6 |
| 132.5° | 0.0 | 0.0 | 0.0 | 1.5 | 5.8 |
| 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° | 1.5 | 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)