

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: P290153

Luminaire Tested: **8SSRK-LN-80-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290153
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-10)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-LN-80-L835-CD1-U
Description: 8000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 80 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8490.2 lumens
Efficiency: N/A
Efficacy: 149.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.03 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

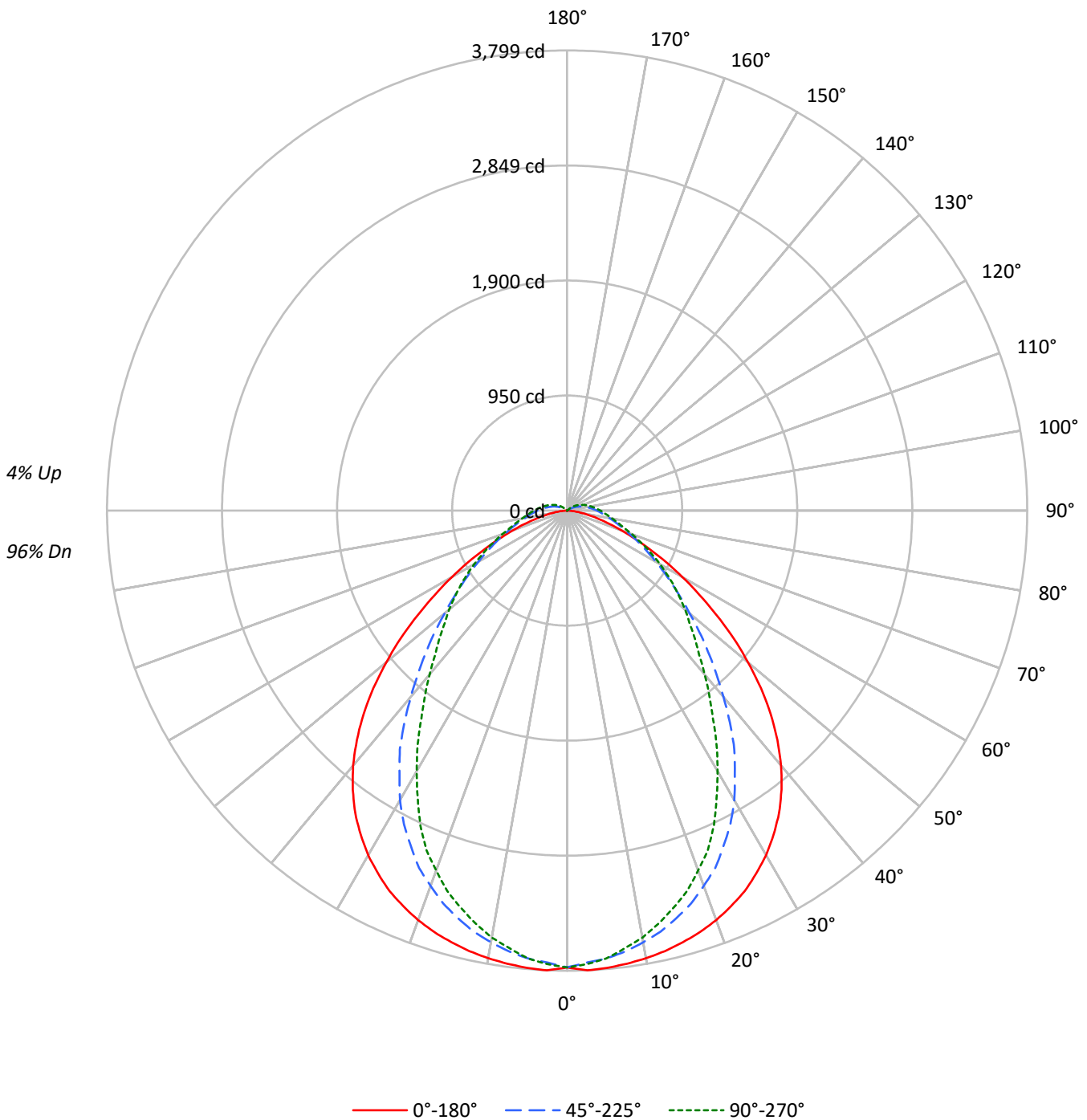
Input Watts (W): 56.6491
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: 8SSRK-LN-80-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P290153

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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 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 103 | 103 | 103 | 98 | 98 | 98 | 96 | | | | |
| 1 | 108 | 104 | 99 | 96 | 105 | 101 | 97 | 94 | 96 | 93 | 90 | 91 | 89 | 86 | 87 | 85 | 83 | 81 | | | | |
| 2 | 99 | 91 | 85 | 80 | 96 | 89 | 83 | 78 | 85 | 80 | 76 | 81 | 77 | 74 | 78 | 74 | 71 | 69 | | | | |
| 3 | 91 | 81 | 74 | 68 | 88 | 79 | 72 | 67 | 76 | 70 | 65 | 73 | 68 | 63 | 70 | 65 | 62 | 59 | | | | |
| 4 | 84 | 73 | 65 | 58 | 81 | 71 | 64 | 58 | 68 | 62 | 56 | 65 | 60 | 55 | 63 | 58 | 54 | 52 | | | | |
| 5 | 78 | 66 | 57 | 51 | 75 | 64 | 56 | 51 | 62 | 55 | 50 | 59 | 53 | 49 | 57 | 52 | 48 | 46 | | | | |
| 6 | 72 | 60 | 51 | 45 | 70 | 58 | 51 | 45 | 56 | 49 | 44 | 54 | 48 | 43 | 52 | 47 | 43 | 41 | | | | |
| 7 | 67 | 54 | 46 | 40 | 65 | 53 | 46 | 40 | 52 | 45 | 39 | 50 | 44 | 39 | 48 | 43 | 38 | 36 | | | | |
| 8 | 63 | 50 | 42 | 36 | 61 | 49 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 35 | 44 | 39 | 35 | 33 | | | | |
| 9 | 59 | 46 | 38 | 33 | 57 | 45 | 38 | 33 | 44 | 37 | 32 | 43 | 36 | 32 | 41 | 36 | 32 | 30 | | | | |
| 10 | 55 | 43 | 35 | 30 | 54 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 29 | 38 | 33 | 29 | 27 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 121781 | 121781 | 121781 |
| 5° | 122606 | 96340 | 89118 |
| 10° | 122589 | 79054 | 68829 |
| 15° | 122658 | 66105 | 54764 |
| 20° | 122697 | 55680 | 44247 |
| 25° | 122368 | 46807 | 35648 |
| 30° | 121036 | 38957 | 27979 |
| 35° | 118520 | 31731 | 21778 |
| 40° | 113885 | 24988 | 17111 |
| 45° | 106398 | 19529 | 13598 |
| 50° | 95446 | 15100 | 11073 |
| 55° | 82265 | 11753 | 8994 |
| 60° | 68523 | 9219 | 7231 |
| 65° | 54629 | 7256 | 5711 |
| 70° | 42624 | 5745 | 4489 |
| 75° | 31905 | 4667 | 3574 |
| 80° | 23084 | 3850 | 2963 |
| 85° | 14334 | 3247 | 2526 |



TEST NUMBER: P290153

CATALOG NUMBER: 8SSRK-LN-80-L835-CD1-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 354.1 | 4.2 |
| 10°-20° | 991.5 | 11.7 |
| 20°-30° | 1428.9 | 16.8 |
| 30°-40° | 1547.8 | 18.2 |
| 40°-50° | 1370.9 | 16.1 |
| 50°-60° | 1043.1 | 12.3 |
| 60°-70° | 695.0 | 8.2 |
| 70°-80° | 429.4 | 5.1 |
| 80°-90° | 269.0 | 3.2 |
| 90°-100° | 176.8 | 2.1 |
| 100°-110° | 108.3 | 1.3 |
| 110°-120° | 55.9 | 0.7 |
| 120°-130° | 18.3 | 0.2 |
| 130°-140° | 1.1 | 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° | 2774.5 | 32.7 |
| 0°-40° | 4322.3 | 50.9 |
| 0°-60° | 6736.4 | 79.3 |
| 0°-90° | 8129.7 | 95.8 |
| 90°-120° | 341.0 | 4.0 |
| 90°-150° | 360.4 | 4.2 |
| 90°-180° | 360.0 | 4.2 |
| 0°-180° | 8490.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 3771 | 3771 | 3771 | 3771 | 3771 | |
| 5° | 3789 | 3765 | 3711 | 3725 | 3711 | 360 |
| 15° | 3690 | 3620 | 3484 | 3437 | 3394 | 1042 |
| 25° | 3468 | 3305 | 3055 | 2925 | 2867 | 1595 |
| 35° | 3050 | 2765 | 2407 | 2181 | 2100 | 1901 |
| 45° | 2378 | 2006 | 1644 | 1519 | 1489 | 1824 |
| 55° | 1505 | 1228 | 1056 | 1069 | 1072 | 1352 |
| 65° | 747 | 655 | 674 | 713 | 716 | 754 |
| 75° | 276 | 336 | 434 | 463 | 456 | 305 |
| 85° | 48 | 173 | 294 | 324 | 318 | 58 |
| 90° | 2 | 126 | 245 | 276 | 274 | 3 |
| 95° | 5 | 89 | 203 | 235 | 234 | 3 |
| 105° | 3 | 35 | 127 | 162 | 166 | 4 |
| 115° | 3 | 3 | 65 | 101 | 110 | 3 |
| 125° | 2 | 2 | 2 | 44 | 55 | 2 |
| 135° | 0 | 0 | 0 | 0 | 0 | 1 |
| 145° | 0 | 0 | 0 | 0 | 0 | 0 |
| 155° | 0 | 0 | 0 | 0 | 0 | 0 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P290153

CATALOG NUMBER: 8SSRK-LN-80-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 3771.3 | 3771.3 | 3771.3 | 3771.3 | 3771.3 |
| 2.5° | 3799.3 | 3778.3 | 3735.4 | 3760.3 | 3748.4 |
| 5° | 3789.3 | 3765.3 | 3711.4 | 3725.4 | 3711.4 |
| 7.5° | 3773.3 | 3743.4 | 3671.5 | 3677.5 | 3644.5 |
| 10° | 3752.4 | 3712.4 | 3619.6 | 3609.6 | 3579.6 |
| 12.5° | 3725.4 | 3669.5 | 3560.6 | 3520.7 | 3491.7 |
| 15° | 3689.5 | 3619.6 | 3483.8 | 3436.8 | 3393.9 |
| 17.5° | 3648.5 | 3558.6 | 3400.9 | 3344.0 | 3293.0 |
| 20° | 3597.6 | 3484.8 | 3297.0 | 3218.2 | 3162.2 |
| 22.5° | 3535.7 | 3403.9 | 3194.2 | 3079.4 | 3034.4 |
| 25° | 3467.8 | 3305.0 | 3055.4 | 2924.6 | 2866.7 |
| 27.5° | 3378.9 | 3196.2 | 2918.6 | 2754.9 | 2672.0 |
| 30° | 3285.1 | 3067.4 | 2759.8 | 2571.1 | 2483.3 |
| 32.5° | 3172.2 | 2926.6 | 2576.1 | 2375.4 | 2297.5 |
| 35° | 3050.4 | 2764.8 | 2407.4 | 2180.7 | 2099.8 |
| 37.5° | 2906.6 | 2590.1 | 2206.7 | 1999.0 | 1928.1 |
| 40° | 2748.9 | 2400.4 | 2007.0 | 1824.3 | 1768.3 |
| 42.5° | 2569.1 | 2207.7 | 1819.3 | 1661.5 | 1613.6 |
| 45° | 2378.4 | 2006.0 | 1643.5 | 1518.7 | 1488.8 |
| 47.5° | 2170.7 | 1804.3 | 1478.8 | 1389.9 | 1367.9 |
| 50° | 1947.1 | 1602.6 | 1319.0 | 1270.1 | 1271.1 |
| 52.5° | 1734.4 | 1411.9 | 1183.2 | 1170.2 | 1167.2 |
| 55° | 1504.7 | 1228.2 | 1056.4 | 1069.4 | 1072.4 |
| 57.5° | 1297.0 | 1057.4 | 948.6 | 972.5 | 975.5 |
| 60° | 1099.3 | 904.6 | 845.7 | 882.7 | 887.7 |
| 62.5° | 918.6 | 773.8 | 757.9 | 795.8 | 794.8 |
| 65° | 746.9 | 655.0 | 674.0 | 712.9 | 715.9 |
| 67.5° | 601.1 | 558.2 | 604.1 | 638.0 | 636.0 |
| 70° | 477.3 | 471.3 | 536.2 | 572.1 | 570.1 |
| 72.5° | 371.4 | 398.4 | 483.3 | 514.2 | 506.2 |
| 75° | 275.6 | 335.5 | 434.3 | 463.3 | 456.3 |
| 77.5° | 202.7 | 283.6 | 391.4 | 419.4 | 414.4 |
| 80° | 138.8 | 240.6 | 354.5 | 383.4 | 377.4 |
| 82.5° | 88.9 | 204.7 | 322.5 | 350.5 | 346.5 |
| 85° | 47.9 | 172.7 | 293.6 | 323.5 | 318.5 |
| 87.5° | 18.0 | 146.8 | 267.6 | 297.6 | 295.6 |
| 90° | 2.0 | 125.8 | 244.6 | 275.6 | 273.6 |
| 92.5° | 3.0 | 106.8 | 222.7 | 254.6 | 254.6 |
| 95° | 5.0 | 88.9 | 202.7 | 234.6 | 233.6 |
| 97.5° | 4.0 | 74.9 | 180.7 | 215.7 | 215.7 |
| 100° | 4.0 | 61.9 | 160.8 | 195.7 | 197.7 |
| 102.5° | 4.0 | 48.9 | 143.8 | 177.7 | 181.7 |
| 105° | 3.0 | 34.9 | 126.8 | 161.8 | 165.8 |
| 107.5° | 3.0 | 20.0 | 109.8 | 146.8 | 151.8 |
| 110° | 3.0 | 5.0 | 94.9 | 130.8 | 136.8 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|-------|
| 112.5° | 3.0 | 3.0 | 79.9 | 115.8 | 121.8 |
| 115° | 3.0 | 3.0 | 64.9 | 100.8 | 109.8 |
| 117.5° | 2.0 | 2.0 | 47.9 | 87.9 | 95.9 |
| 120° | 2.0 | 2.0 | 30.0 | 73.9 | 81.9 |
| 122.5° | 2.0 | 2.0 | 13.0 | 58.9 | 69.9 |
| 125° | 2.0 | 2.0 | 2.0 | 43.9 | 54.9 |
| 127.5° | 2.0 | 2.0 | 1.0 | 26.0 | 38.9 |
| 130° | 2.0 | 2.0 | 1.0 | 10.0 | 24.0 |
| 132.5° | 2.0 | 2.0 | 1.0 | 1.0 | 7.0 |
| 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° | 0.0 | 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)