

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: P#

Luminaire Tested: **6RSRK-150-HE-L835**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1811-041-2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 6RSRK-150-HE-L835
Description: 6ft RSRK, 1500 LUMEN PER FOOT 80CRI 3500K CCT WITH NO LENS
Light Source: -
Ballast/Driver: -

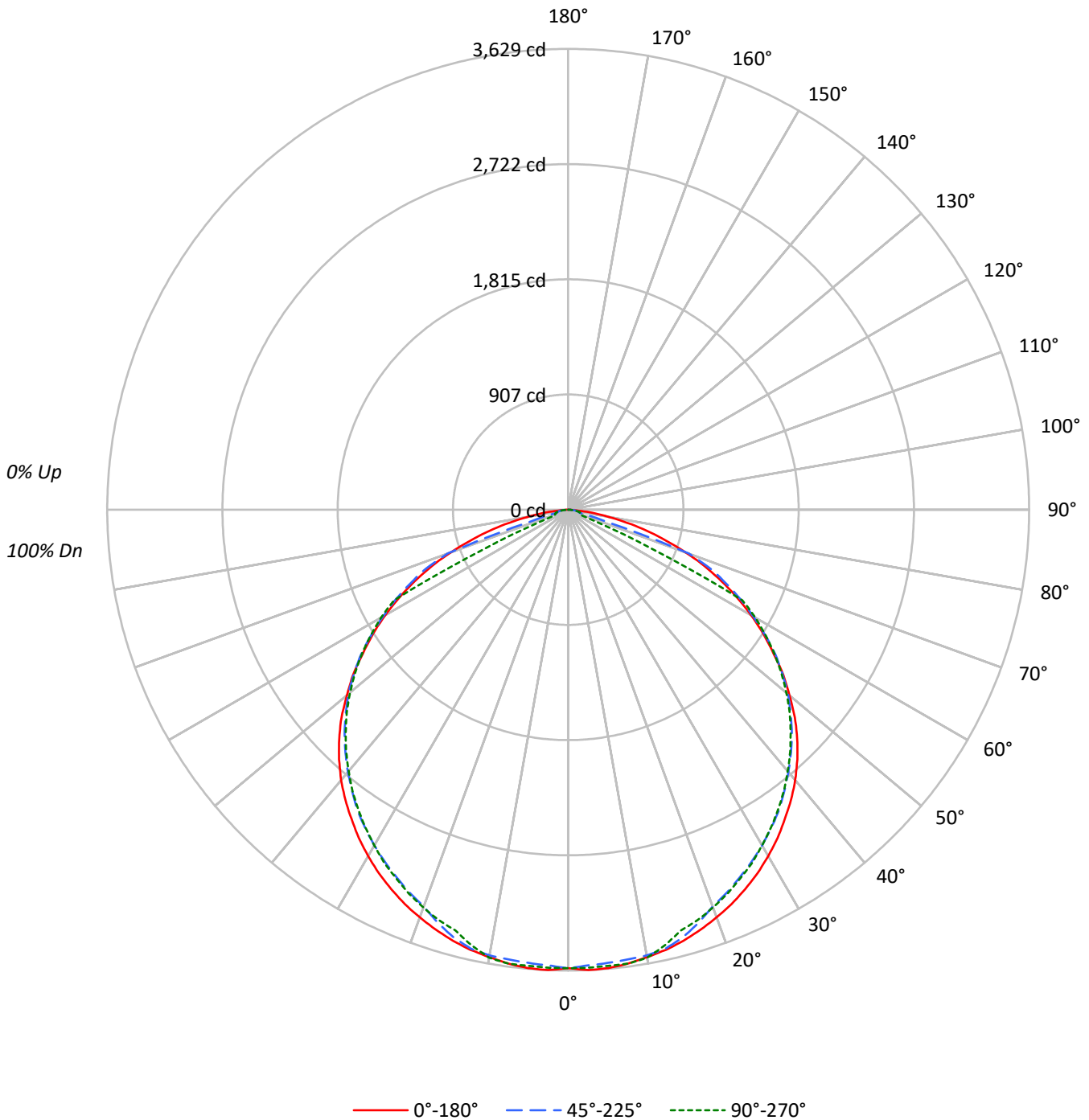
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9938.7 lumens
Efficiency: N/A
Efficacy: 224.9 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.26 / 1.4
Luminous Opening: Rectangular (W 1' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 44.2
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





TEST NUMBER: P#

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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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 110 | 105 | 102 | 98 | 107 | 103 | 100 | 96 | 99 | 96 | 93 | 95 | 93 | 91 | 92 | 90 | 88 | 86 |
| 2 | 100 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 82 | 78 | 84 | 80 | 76 | 81 | 78 | 74 | 72 |
| 3 | 92 | 81 | 74 | 67 | 89 | 80 | 73 | 67 | 77 | 71 | 66 | 74 | 69 | 65 | 72 | 67 | 63 | 61 |
| 4 | 84 | 72 | 64 | 57 | 82 | 71 | 63 | 57 | 68 | 62 | 56 | 66 | 60 | 55 | 64 | 59 | 55 | 52 |
| 5 | 77 | 65 | 56 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 48 | 59 | 53 | 48 | 58 | 52 | 47 | 45 |
| 6 | 71 | 58 | 49 | 43 | 69 | 57 | 49 | 43 | 55 | 48 | 42 | 54 | 47 | 42 | 52 | 46 | 42 | 40 |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 50 | 43 | 37 | 49 | 42 | 37 | 47 | 41 | 37 | 35 |
| 8 | 61 | 48 | 39 | 34 | 60 | 47 | 39 | 34 | 46 | 39 | 33 | 45 | 38 | 33 | 43 | 37 | 33 | 31 |
| 9 | 57 | 44 | 36 | 30 | 56 | 43 | 36 | 30 | 42 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | 28 |
| 10 | 54 | 41 | 33 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 32 | 27 | 37 | 31 | 27 | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 6477 | 6477 | 6477 |
| 5° | 6526 | 6452 | 6493 |
| 10° | 6518 | 6492 | 6526 |
| 15° | 6525 | 6474 | 6371 |
| 20° | 6523 | 6346 | 6364 |
| 25° | 6526 | 6325 | 6343 |
| 30° | 6524 | 6323 | 6323 |
| 35° | 6513 | 6331 | 6311 |
| 40° | 6511 | 6317 | 6295 |
| 45° | 6469 | 6317 | 6282 |
| 50° | 6344 | 6305 | 6254 |
| 55° | 6172 | 6230 | 6201 |
| 60° | 5972 | 6038 | 6104 |
| 65° | 5656 | 5813 | 3072 |
| 70° | 5176 | 5297 | 581 |
| 75° | 4442 | 639 | 703 |
| 80° | 3334 | 809 | 809 |
| 85° | 1708 | 852 | 760 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 343.0 | 3.5 |
| 10°-20° | 982.5 | 9.9 |
| 20°-30° | 1493.7 | 15.0 |
| 30°-40° | 1819.5 | 18.3 |
| 40°-50° | 1925.3 | 19.4 |
| 50°-60° | 1766.0 | 17.8 |
| 60°-70° | 1191.2 | 12.0 |
| 70°-80° | 360.0 | 3.6 |
| 80°-90° | 57.6 | 0.6 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 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° | 2819.2 | 28.4 |
| 0°-40° | 4638.7 | 46.7 |
| 0°-60° | 8329.9 | 83.8 |
| 0°-90° | 9938.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 9938.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 3610 | 3610 | 3610 | 3610 | 3610 | |
| 5° | 3624 | 3596 | 3582 | 3615 | 3606 | 344 |
| 15° | 3513 | 3495 | 3486 | 3458 | 3430 | 992 |
| 25° | 3297 | 3292 | 3195 | 3228 | 3204 | 1520 |
| 35° | 2974 | 2909 | 2891 | 2900 | 2882 | 1862 |
| 45° | 2550 | 2490 | 2490 | 2494 | 2476 | 1963 |
| 55° | 1973 | 1946 | 1992 | 1992 | 1983 | 1766 |
| 65° | 1332 | 1314 | 1369 | 1388 | 724 | 1315 |
| 75° | 641 | 646 | 92 | 101 | 101 | 679 |
| 85° | 83 | 41 | 41 | 37 | 37 | 127 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P#

CATALOG NUMBER: 6RSRK-150-HE-L835

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 3610.2 | 3610.2 | 3610.2 | 3610.2 | 3610.2 |
| 2.5° | 3628.7 | 3600.9 | 3591.8 | 3614.8 | 3610.2 |
| 5° | 3624.0 | 3596.4 | 3582.5 | 3614.8 | 3605.6 |
| 7.5° | 3605.6 | 3577.9 | 3573.4 | 3610.2 | 3605.6 |
| 10° | 3577.9 | 3559.5 | 3564.0 | 3596.4 | 3582.5 |
| 12.5° | 3550.2 | 3531.8 | 3541.0 | 3531.8 | 3513.4 |
| 15° | 3513.4 | 3494.9 | 3485.7 | 3458.0 | 3430.4 |
| 17.5° | 3467.3 | 3458.0 | 3411.9 | 3402.7 | 3388.9 |
| 20° | 3416.5 | 3416.5 | 3324.3 | 3352.0 | 3333.6 |
| 22.5° | 3361.2 | 3361.2 | 3264.4 | 3292.0 | 3273.6 |
| 25° | 3296.7 | 3292.0 | 3195.2 | 3227.5 | 3204.5 |
| 27.5° | 3227.5 | 3204.5 | 3126.1 | 3153.7 | 3135.3 |
| 30° | 3149.2 | 3107.6 | 3052.3 | 3070.7 | 3052.3 |
| 32.5° | 3066.1 | 3006.2 | 2973.9 | 2987.7 | 2969.3 |
| 35° | 2973.9 | 2909.4 | 2891.0 | 2900.1 | 2881.6 |
| 37.5° | 2881.6 | 2812.5 | 2794.1 | 2807.9 | 2789.4 |
| 40° | 2780.3 | 2715.7 | 2697.2 | 2706.5 | 2688.1 |
| 42.5° | 2669.7 | 2614.3 | 2595.9 | 2600.4 | 2586.6 |
| 45° | 2549.7 | 2489.8 | 2489.8 | 2494.3 | 2475.9 |
| 47.5° | 2420.6 | 2369.9 | 2374.6 | 2379.1 | 2365.2 |
| 50° | 2273.0 | 2236.1 | 2259.2 | 2263.9 | 2240.8 |
| 52.5° | 2134.8 | 2097.9 | 2125.5 | 2134.8 | 2116.4 |
| 55° | 1973.4 | 1945.7 | 1991.8 | 1991.8 | 1982.6 |
| 57.5° | 1821.3 | 1793.5 | 1839.7 | 1858.2 | 1844.3 |
| 60° | 1664.4 | 1636.9 | 1682.9 | 1715.2 | 1701.3 |
| 62.5° | 1498.4 | 1475.4 | 1530.8 | 1572.2 | 1544.6 |
| 65° | 1332.4 | 1314.0 | 1369.3 | 1387.8 | 723.8 |
| 67.5° | 1161.9 | 1148.0 | 1212.7 | 438.1 | 115.2 |
| 70° | 986.7 | 972.9 | 1009.8 | 110.7 | 110.7 |
| 72.5° | 806.9 | 811.5 | 322.7 | 106.1 | 106.1 |
| 75° | 640.9 | 645.5 | 92.2 | 101.4 | 101.4 |
| 77.5° | 475.0 | 484.1 | 87.7 | 92.2 | 92.2 |
| 80° | 322.7 | 235.2 | 78.3 | 78.3 | 78.3 |
| 82.5° | 193.6 | 55.3 | 59.9 | 59.9 | 55.3 |
| 85° | 83.0 | 41.4 | 41.4 | 36.9 | 36.9 |
| 87.5° | 27.7 | 18.4 | 18.4 | 13.9 | 13.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)