

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-TB-100-HE-L950**

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 (G3-1810-975-9)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 6RSRK-TB-100-HE-L950
Description: 6ft RSRK, 1000 LUMEN PER FOOT 90CRI 5000K CCT WITH TRILOBE RIBBED LENS
Light Source: -
Ballast/Driver: -

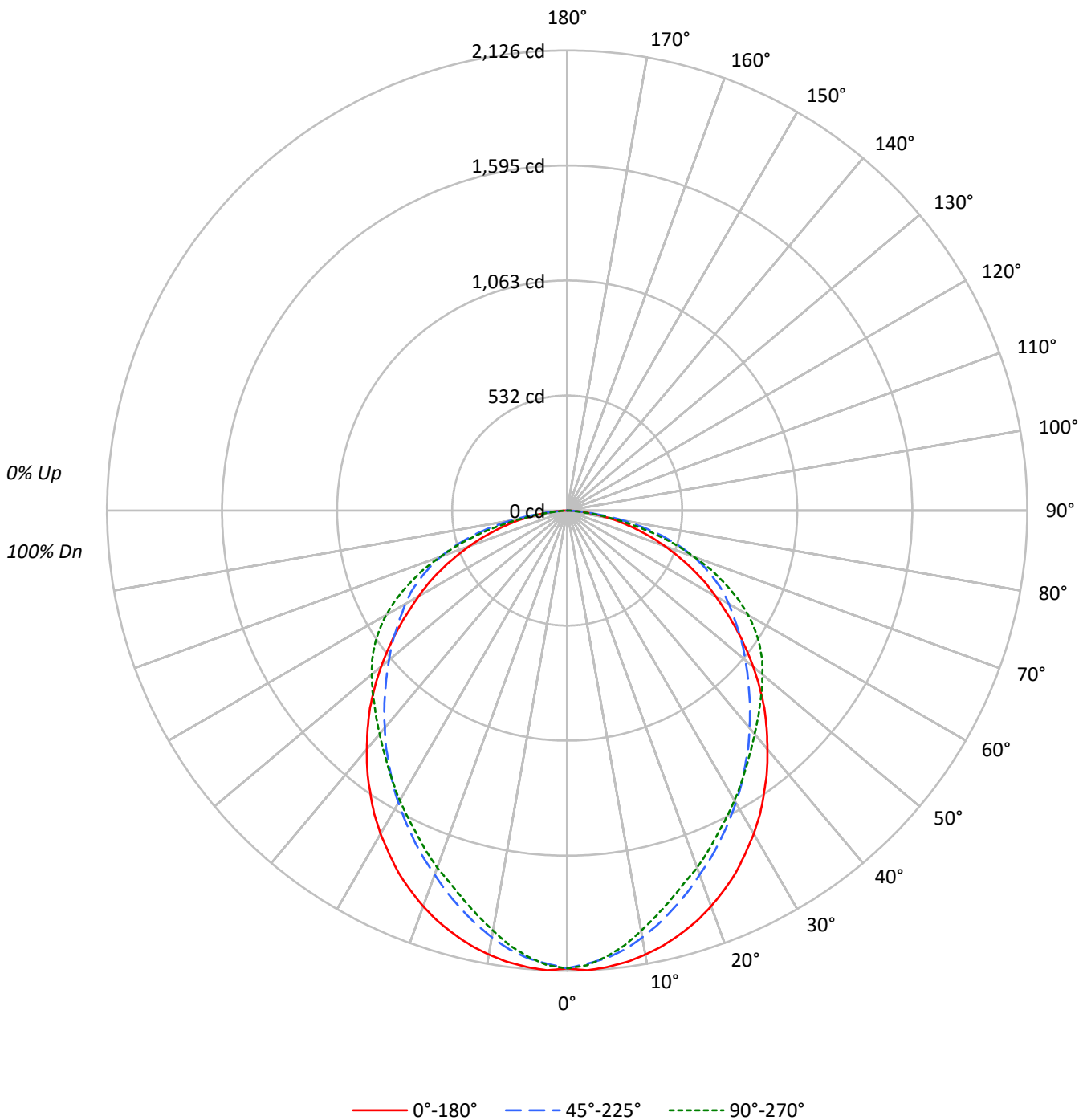
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5533.0 lumens
Efficiency: N/A
Efficacy: 192.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.1 / 1.26
Luminous Opening: Rectangular (W 1' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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

TEST NUMBER: P#
CATALOG NUMBER: 6RSRK-TB-100-HE-L950

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 6RSRK-TB-100-HE-L950

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 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | 100 | | | |
| 1 | 109 | 104 | 99 | 95 | 106 | 101 | 97 | 94 | 97 | 94 | 91 | 93 | 91 | 88 | 90 | 87 | 85 | 83 | | | | | 83 | | | |
| 2 | 99 | 90 | 83 | 77 | 96 | 88 | 82 | 76 | 85 | 79 | 75 | 81 | 77 | 73 | 78 | 75 | 71 | 69 | | | | | 69 | | | |
| 3 | 90 | 79 | 71 | 64 | 87 | 77 | 70 | 64 | 74 | 68 | 62 | 72 | 66 | 61 | 69 | 64 | 60 | 58 | | | | | 58 | | | |
| 4 | 82 | 70 | 61 | 54 | 80 | 69 | 60 | 54 | 66 | 59 | 53 | 64 | 57 | 52 | 62 | 56 | 52 | 49 | | | | | 49 | | | |
| 5 | 75 | 62 | 53 | 47 | 73 | 61 | 53 | 46 | 59 | 52 | 46 | 57 | 51 | 45 | 55 | 50 | 45 | 43 | | | | | 43 | | | |
| 6 | 70 | 56 | 47 | 41 | 68 | 55 | 47 | 41 | 53 | 46 | 40 | 52 | 45 | 40 | 50 | 44 | 39 | 37 | | | | | 37 | | | |
| 7 | 65 | 51 | 42 | 36 | 63 | 50 | 42 | 36 | 49 | 41 | 36 | 47 | 40 | 35 | 46 | 40 | 35 | 33 | | | | | 33 | | | |
| 8 | 60 | 47 | 38 | 32 | 59 | 46 | 38 | 32 | 45 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 31 | 30 | | | | | 30 | | | |
| 9 | 56 | 43 | 35 | 29 | 55 | 42 | 34 | 29 | 41 | 34 | 29 | 40 | 33 | 29 | 39 | 33 | 28 | 27 | | | | | 27 | | | |
| 10 | 53 | 40 | 32 | 26 | 52 | 39 | 31 | 26 | 38 | 31 | 26 | 37 | 31 | 26 | 36 | 30 | 26 | 24 | | | | | 24 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3794 | 3794 | 3794 |
| 5° | 3813 | 3739 | 3726 |
| 10° | 3795 | 3648 | 3590 |
| 15° | 3760 | 3534 | 3451 |
| 20° | 3714 | 3417 | 3352 |
| 25° | 3652 | 3320 | 3259 |
| 30° | 3571 | 3230 | 3204 |
| 35° | 3476 | 3142 | 3160 |
| 40° | 3371 | 3070 | 3156 |
| 45° | 3267 | 3018 | 3198 |
| 50° | 3133 | 2997 | 3287 |
| 55° | 2984 | 3017 | 3398 |
| 60° | 2844 | 3094 | 3466 |
| 65° | 2705 | 3190 | 3435 |
| 70° | 2528 | 3258 | 3266 |
| 75° | 2269 | 3162 | 2926 |
| 80° | 1986 | 2684 | 2173 |
| 85° | 1490 | 1418 | 918 |



TEST NUMBER: P#

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 197.1 | 3.6 |
| 10°-20° | 542.4 | 9.8 |
| 20°-30° | 789.1 | 14.3 |
| 30°-40° | 923.0 | 16.7 |
| 40°-50° | 948.7 | 17.1 |
| 50°-60° | 882.6 | 16.0 |
| 60°-70° | 717.9 | 13.0 |
| 70°-80° | 434.8 | 7.9 |
| 80°-90° | 97.4 | 1.8 |
| 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° | 1528.7 | 27.6 |
| 0°-40° | 2451.6 | 44.3 |
| 0°-60° | 4282.9 | 77.4 |
| 0°-90° | 5533.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5533.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2115 | 2115 | 2115 | 2115 | 2115 | |
| 5° | 2117 | 2105 | 2076 | 2080 | 2069 | 201 |
| 15° | 2025 | 1981 | 1903 | 1874 | 1858 | 571 |
| 25° | 1845 | 1767 | 1677 | 1660 | 1646 | 849 |
| 35° | 1587 | 1503 | 1435 | 1444 | 1443 | 993 |
| 45° | 1288 | 1205 | 1190 | 1242 | 1261 | 991 |
| 55° | 954 | 902 | 965 | 1063 | 1086 | 854 |
| 65° | 637 | 625 | 752 | 811 | 809 | 631 |
| 75° | 327 | 389 | 456 | 436 | 422 | 350 |
| 85° | 72 | 100 | 69 | 50 | 45 | 88 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P#

CATALOG NUMBER: 6RSRK-TB-100-HE-L950

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2115.1 | 2115.1 | 2115.1 | 2115.1 | 2115.1 |
| 2.5° | 2126.3 | 2116.5 | 2095.6 | 2107.5 | 2102.6 |
| 5° | 2117.2 | 2104.7 | 2076.1 | 2080.3 | 2069.2 |
| 7.5° | 2104.0 | 2085.9 | 2044.8 | 2036.4 | 2026.7 |
| 10° | 2083.1 | 2056.6 | 2002.3 | 1989.1 | 1971.0 |
| 12.5° | 2057.3 | 2023.2 | 1955.0 | 1931.3 | 1914.6 |
| 15° | 2024.6 | 1981.4 | 1902.7 | 1874.2 | 1858.1 |
| 17.5° | 1989.1 | 1935.5 | 1848.4 | 1819.1 | 1802.4 |
| 20° | 1945.2 | 1883.9 | 1789.9 | 1765.5 | 1755.8 |
| 22.5° | 1896.5 | 1826.1 | 1735.6 | 1714.0 | 1702.8 |
| 25° | 1844.9 | 1766.9 | 1677.1 | 1660.4 | 1646.4 |
| 27.5° | 1784.3 | 1704.9 | 1617.9 | 1606.0 | 1596.3 |
| 30° | 1723.7 | 1642.2 | 1559.4 | 1551.0 | 1546.8 |
| 32.5° | 1659.7 | 1571.2 | 1498.1 | 1496.7 | 1494.6 |
| 35° | 1587.2 | 1503.0 | 1434.7 | 1443.8 | 1443.1 |
| 37.5° | 1516.9 | 1430.5 | 1374.8 | 1390.8 | 1394.3 |
| 40° | 1439.6 | 1355.3 | 1310.7 | 1337.9 | 1347.6 |
| 42.5° | 1363.7 | 1282.9 | 1250.8 | 1287.7 | 1303.8 |
| 45° | 1287.7 | 1204.9 | 1189.5 | 1241.8 | 1260.6 |
| 47.5° | 1204.9 | 1130.3 | 1131.7 | 1198.6 | 1220.9 |
| 50° | 1122.7 | 1053.0 | 1073.9 | 1151.9 | 1177.7 |
| 52.5° | 1037.7 | 977.8 | 1021.7 | 1106.7 | 1135.9 |
| 55° | 954.1 | 901.9 | 964.6 | 1062.8 | 1086.5 |
| 57.5° | 870.6 | 828.8 | 912.4 | 1006.4 | 1030.1 |
| 60° | 792.6 | 756.4 | 862.2 | 947.9 | 966.0 |
| 62.5° | 718.0 | 688.8 | 812.8 | 883.8 | 892.9 |
| 65° | 637.3 | 625.4 | 751.5 | 811.4 | 809.3 |
| 67.5° | 557.9 | 560.6 | 688.8 | 727.8 | 724.3 |
| 70° | 481.9 | 504.2 | 621.2 | 637.3 | 622.6 |
| 72.5° | 403.9 | 445.7 | 542.5 | 541.1 | 526.5 |
| 75° | 327.3 | 389.3 | 456.2 | 436.0 | 422.1 |
| 77.5° | 261.2 | 328.7 | 362.2 | 334.3 | 312.0 |
| 80° | 192.2 | 263.3 | 259.8 | 228.4 | 210.3 |
| 82.5° | 126.1 | 183.2 | 160.9 | 129.5 | 121.2 |
| 85° | 72.4 | 99.6 | 68.9 | 50.1 | 44.6 |
| 87.5° | 30.6 | 26.5 | 17.4 | 16.0 | 14.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)