

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: **8RSRK-TS-200-HE-L850**

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 (G3-1810-975-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8RSRK-TS-200-HE-L850
Description: 8ft RSRK, 2000 LUMEN PER FOOT 80CRI 5000K CCT WITH TRILOBE SMOOTH LENS
Light Source: -
Ballast/Driver: -

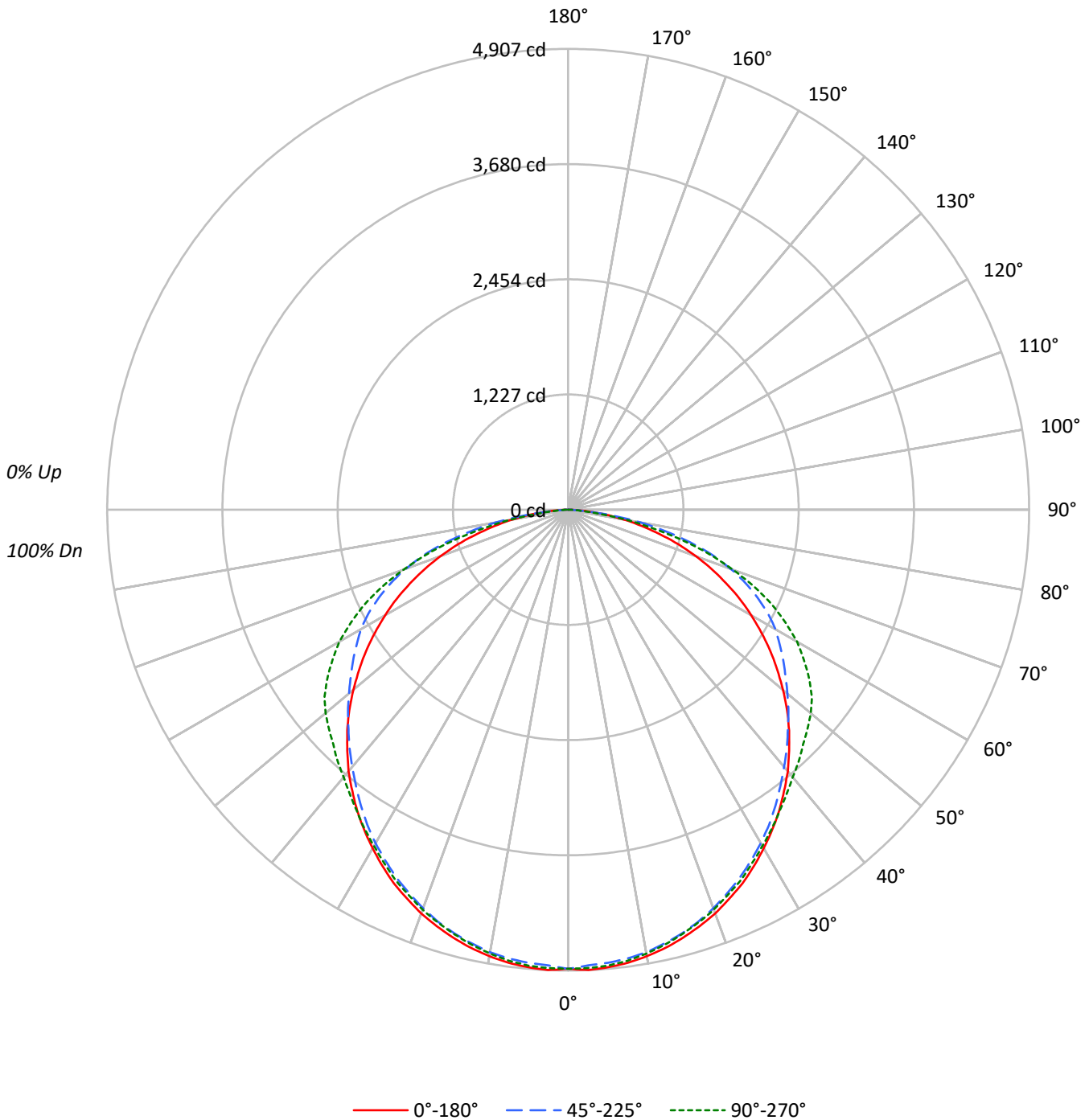
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15049.6 lumens
Efficiency: N/A
Efficacy: 245.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.39
Luminous Opening: Rectangular (W 1' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 61.2
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

TEST NUMBER: P#
CATALOG NUMBER: 8RSRK-TS-200-HE-L850

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 | 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 | 108 | 103 | 99 | 95 | 105 | 101 | 97 | 93 | 97 | 93 | 90 | 93 | 90 | 87 | 89 | 87 | 85 | 83 | | | | 83 |
| 2 | 98 | 89 | 82 | 76 | 95 | 87 | 81 | 75 | 84 | 78 | 73 | 80 | 76 | 72 | 77 | 73 | 70 | 68 | | | | 68 |
| 3 | 89 | 78 | 69 | 62 | 86 | 76 | 68 | 62 | 73 | 66 | 61 | 70 | 65 | 60 | 68 | 63 | 59 | 56 | | | | 56 |
| 4 | 81 | 69 | 59 | 52 | 79 | 67 | 59 | 52 | 65 | 57 | 51 | 62 | 56 | 51 | 60 | 54 | 50 | 48 | | | | 48 |
| 5 | 74 | 61 | 52 | 45 | 72 | 60 | 51 | 45 | 58 | 50 | 44 | 56 | 49 | 44 | 54 | 48 | 43 | 41 | | | | 41 |
| 6 | 69 | 55 | 46 | 39 | 67 | 54 | 45 | 39 | 52 | 44 | 38 | 50 | 43 | 38 | 49 | 42 | 38 | 36 | | | | 36 |
| 7 | 63 | 50 | 41 | 34 | 62 | 49 | 40 | 34 | 47 | 39 | 34 | 46 | 39 | 34 | 44 | 38 | 33 | 31 | | | | 31 |
| 8 | 59 | 45 | 36 | 30 | 57 | 44 | 36 | 30 | 43 | 36 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 28 | | | | 28 |
| 9 | 55 | 41 | 33 | 27 | 54 | 41 | 33 | 27 | 40 | 32 | 27 | 39 | 32 | 27 | 37 | 31 | 27 | 25 | | | | 25 |
| 10 | 52 | 38 | 30 | 25 | 50 | 38 | 30 | 25 | 37 | 29 | 25 | 36 | 29 | 24 | 35 | 29 | 24 | 22 | | | | 22 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 6577 | 6577 | 6577 |
| 5° | 6606 | 6542 | 6581 |
| 10° | 6596 | 6538 | 6556 |
| 15° | 6574 | 6508 | 6519 |
| 20° | 6550 | 6467 | 6490 |
| 25° | 6517 | 6419 | 6459 |
| 30° | 6468 | 6370 | 6423 |
| 35° | 6431 | 6319 | 6440 |
| 40° | 6386 | 6280 | 6530 |
| 45° | 6326 | 6291 | 6728 |
| 50° | 6247 | 6374 | 7059 |
| 55° | 6166 | 6556 | 7341 |
| 60° | 6059 | 6854 | 7570 |
| 65° | 5910 | 7085 | 7630 |
| 70° | 5684 | 7240 | 7333 |
| 75° | 5236 | 7004 | 6552 |
| 80° | 4637 | 6027 | 5026 |
| 85° | 3338 | 3052 | 1995 |



TEST NUMBER: P#

CATALOG NUMBER: 8RSRK-TS-200-HE-L850

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 462.9 | 3.1 |
| 10°-20° | 1324.7 | 8.8 |
| 20°-30° | 2006.0 | 13.3 |
| 30°-40° | 2433.0 | 16.2 |
| 40°-50° | 2602.7 | 17.3 |
| 50°-60° | 2522.6 | 16.8 |
| 60°-70° | 2112.7 | 14.0 |
| 70°-80° | 1298.2 | 8.6 |
| 80°-90° | 286.7 | 1.9 |
| 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° | 3793.6 | 25.2 |
| 0°-40° | 6226.6 | 41.4 |
| 0°-60° | 11351.9 | 75.4 |
| 0°-90° | 15049.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 15049.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 4888 | 4888 | 4888 | 4888 | 4888 | |
| 5° | 4891 | 4880 | 4843 | 4875 | 4872 | 465 |
| 15° | 4720 | 4709 | 4672 | 4693 | 4680 | 1332 |
| 25° | 4390 | 4364 | 4324 | 4353 | 4350 | 2022 |
| 35° | 3915 | 3865 | 3847 | 3913 | 3921 | 2449 |
| 45° | 3325 | 3254 | 3306 | 3475 | 3536 | 2564 |
| 55° | 2629 | 2558 | 2795 | 3072 | 3130 | 2347 |
| 65° | 1856 | 1846 | 2225 | 2376 | 2397 | 1835 |
| 75° | 1007 | 1176 | 1347 | 1289 | 1260 | 1072 |
| 85° | 216 | 290 | 198 | 137 | 129 | 272 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P#

CATALOG NUMBER: 8RSRK-TS-200-HE-L850

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 4888.2 | 4888.2 | 4888.2 | 4888.2 | 4888.2 |
| 2.5° | 4906.7 | 4893.5 | 4856.6 | 4888.2 | 4885.6 |
| 5° | 4890.9 | 4880.3 | 4843.4 | 4875.1 | 4872.4 |
| 7.5° | 4867.1 | 4856.6 | 4819.7 | 4851.3 | 4843.4 |
| 10° | 4827.6 | 4819.7 | 4785.4 | 4809.1 | 4798.6 |
| 12.5° | 4780.1 | 4772.2 | 4732.7 | 4759.0 | 4745.9 |
| 15° | 4719.5 | 4709.0 | 4672.0 | 4693.1 | 4679.9 |
| 17.5° | 4650.9 | 4637.8 | 4600.9 | 4621.9 | 4608.8 |
| 20° | 4574.5 | 4556.0 | 4516.5 | 4545.5 | 4532.3 |
| 22.5° | 4482.2 | 4469.0 | 4421.6 | 4453.2 | 4440.0 |
| 25° | 4389.9 | 4363.6 | 4324.0 | 4353.0 | 4350.4 |
| 27.5° | 4279.2 | 4252.8 | 4213.3 | 4247.5 | 4242.3 |
| 30° | 4163.2 | 4134.2 | 4099.9 | 4134.2 | 4134.2 |
| 32.5° | 4041.9 | 4005.0 | 3978.6 | 4018.2 | 4031.3 |
| 35° | 3915.3 | 3865.2 | 3846.8 | 3912.7 | 3920.6 |
| 37.5° | 3775.6 | 3725.5 | 3709.7 | 3796.7 | 3817.8 |
| 40° | 3635.9 | 3572.6 | 3575.2 | 3686.0 | 3717.6 |
| 42.5° | 3480.3 | 3417.0 | 3446.0 | 3575.2 | 3633.2 |
| 45° | 3324.7 | 3253.6 | 3306.3 | 3475.0 | 3535.7 |
| 47.5° | 3161.3 | 3092.7 | 3179.7 | 3377.5 | 3453.9 |
| 50° | 2984.6 | 2916.1 | 3045.3 | 3285.2 | 3372.2 |
| 52.5° | 2805.3 | 2734.1 | 2916.1 | 3190.3 | 3269.4 |
| 55° | 2628.7 | 2557.5 | 2794.8 | 3071.6 | 3129.6 |
| 57.5° | 2438.8 | 2378.2 | 2668.2 | 2916.1 | 2974.1 |
| 60° | 2251.6 | 2198.9 | 2546.9 | 2757.9 | 2813.2 |
| 62.5° | 2059.2 | 2019.6 | 2399.3 | 2575.9 | 2607.6 |
| 65° | 1856.2 | 1845.6 | 2225.3 | 2375.6 | 2396.7 |
| 67.5° | 1653.1 | 1679.5 | 2046.0 | 2143.5 | 2146.2 |
| 70° | 1444.9 | 1516.0 | 1840.3 | 1882.5 | 1864.1 |
| 72.5° | 1233.9 | 1357.8 | 1613.6 | 1592.5 | 1576.7 |
| 75° | 1007.2 | 1175.9 | 1347.3 | 1289.3 | 1260.3 |
| 77.5° | 801.5 | 991.4 | 1062.5 | 980.8 | 936.0 |
| 80° | 598.5 | 783.1 | 777.8 | 672.3 | 648.6 |
| 82.5° | 403.4 | 545.8 | 466.7 | 379.7 | 332.2 |
| 85° | 216.2 | 290.0 | 197.7 | 137.1 | 129.2 |
| 87.5° | 81.7 | 68.6 | 52.7 | 47.5 | 47.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)