

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: P289573

Luminaire Tested: **8RSRK-RM-100-HE-L835**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P289573
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1810-975-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8RSRK-RM-100-HE-L835
Description: 8ft RSRK, 1000 LUMEN PER FOOT 80CRI 3500K CCT WITH ROUND MEDIUM LENS
Light Source: -
Ballast/Driver: -

Summary

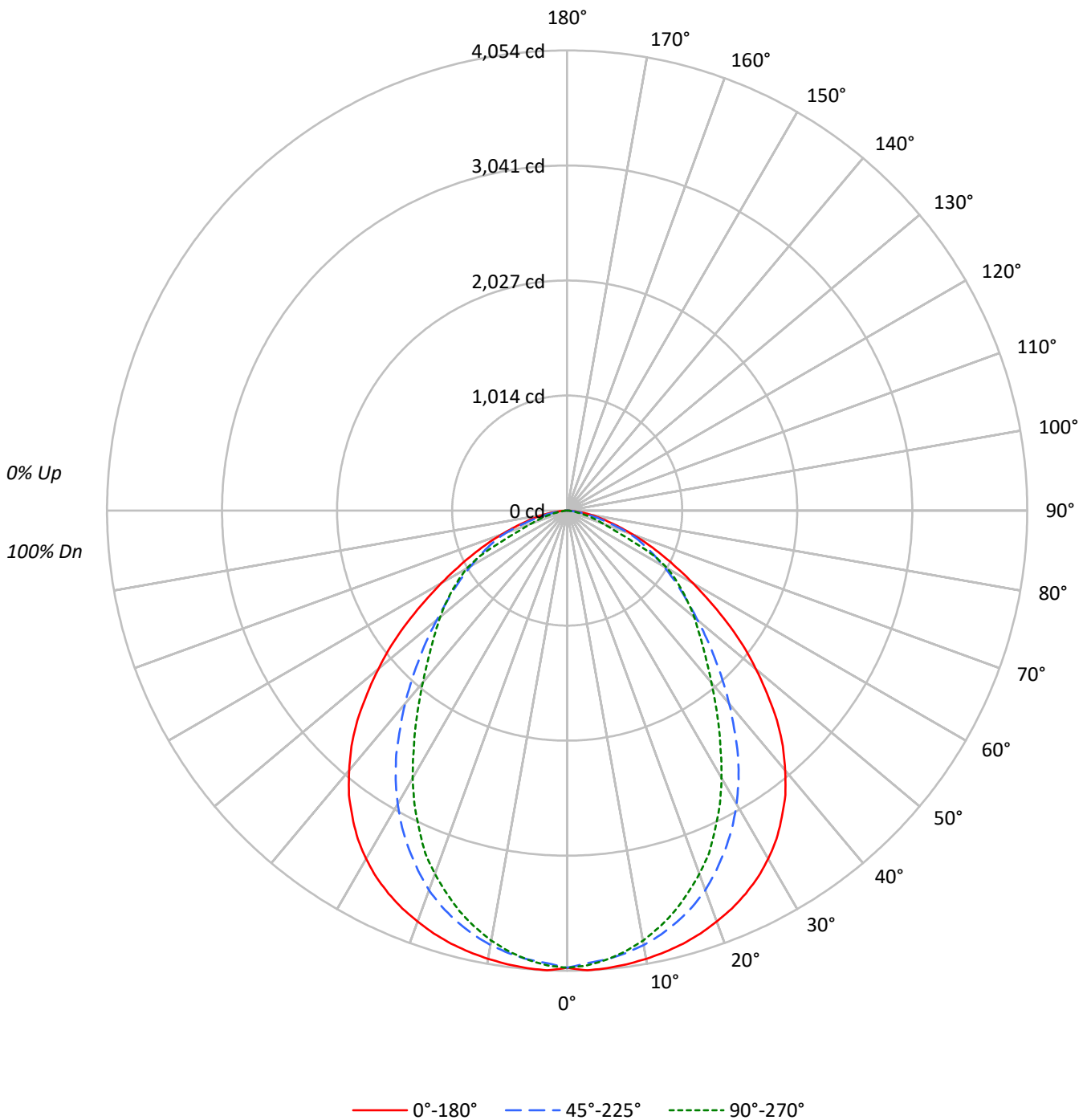
Lumens per Lamp: N/A
Luminaire Lumens: 8549.8 lumens
Efficiency: N/A
Efficacy: 296.9 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.05 / 1.18
Luminous Opening: Rectangular (W 1' x L: 8' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





TEST NUMBER: P289573

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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 | 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 | 110 | 106 | 102 | 99 | 108 | 104 | 101 | 97 | 100 | 97 | 94 | 96 | 94 | 92 | 92 | 91 | 89 | | | | | 87 | | | | |
| 2 | 101 | 94 | 88 | 83 | 99 | 92 | 87 | 82 | 89 | 84 | 80 | 86 | 82 | 78 | 83 | 79 | 77 | | | | | 75 | | | | |
| 3 | 93 | 84 | 76 | 71 | 91 | 82 | 75 | 70 | 79 | 74 | 69 | 77 | 72 | 68 | 74 | 70 | 66 | | | | | 64 | | | | |
| 4 | 86 | 75 | 67 | 61 | 84 | 74 | 66 | 61 | 71 | 65 | 60 | 69 | 64 | 59 | 67 | 62 | 58 | | | | | 56 | | | | |
| 5 | 80 | 68 | 59 | 53 | 78 | 67 | 59 | 53 | 65 | 58 | 53 | 63 | 57 | 52 | 61 | 56 | 51 | | | | | 49 | | | | |
| 6 | 74 | 61 | 53 | 47 | 72 | 61 | 53 | 47 | 59 | 52 | 47 | 57 | 51 | 46 | 56 | 50 | 46 | | | | | 44 | | | | |
| 7 | 69 | 56 | 48 | 42 | 67 | 55 | 48 | 42 | 54 | 47 | 42 | 52 | 46 | 41 | 51 | 45 | 41 | | | | | 39 | | | | |
| 8 | 64 | 52 | 44 | 38 | 63 | 51 | 43 | 38 | 50 | 43 | 38 | 48 | 42 | 37 | 47 | 42 | 37 | | | | | 35 | | | | |
| 9 | 60 | 48 | 40 | 34 | 59 | 47 | 39 | 34 | 46 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | | | | | 32 | | | | |
| 10 | 57 | 44 | 37 | 32 | 55 | 44 | 36 | 31 | 43 | 36 | 31 | 42 | 36 | 31 | 41 | 35 | 31 | | | | | 29 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 5419 | 5419 | 5419 |
| 5° | 5465 | 5362 | 5366 |
| 10° | 5479 | 5309 | 5256 |
| 15° | 5502 | 5223 | 5092 |
| 20° | 5516 | 5097 | 4877 |
| 25° | 5527 | 4892 | 4586 |
| 30° | 5503 | 4640 | 4227 |
| 35° | 5417 | 4311 | 3825 |
| 40° | 5248 | 3901 | 3471 |
| 45° | 4973 | 3499 | 3211 |
| 50° | 4545 | 3135 | 3060 |
| 55° | 4034 | 2865 | 2912 |
| 60° | 3441 | 2639 | 2747 |
| 65° | 2905 | 2472 | 1961 |
| 70° | 2402 | 2250 | 1330 |
| 75° | 1945 | 1653 | 1042 |
| 80° | 1616 | 1180 | 642 |
| 85° | 1115 | 496 | 434 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 378.9 | 4.4 |
| 10°-20° | 1064.9 | 12.5 |
| 20°-30° | 1542.3 | 18.0 |
| 30°-40° | 1692.8 | 19.8 |
| 40°-50° | 1529.5 | 17.9 |
| 50°-60° | 1192.6 | 13.9 |
| 60°-70° | 754.9 | 8.8 |
| 70°-80° | 330.5 | 3.9 |
| 80°-90° | 63.4 | 0.7 |
| 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° | 2986.1 | 34.9 |
| 0°-40° | 4678.9 | 54.7 |
| 0°-60° | 7401.0 | 86.6 |
| 0°-90° | 8549.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 8549.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 4027 | 4027 | 4027 | 4027 | 4027 | |
| 5° | 4046 | 4019 | 3970 | 3991 | 3973 | 385 |
| 15° | 3950 | 3876 | 3750 | 3704 | 3656 | 1115 |
| 25° | 3723 | 3560 | 3295 | 3171 | 3089 | 1715 |
| 35° | 3298 | 3002 | 2624 | 2415 | 2329 | 2059 |
| 45° | 2614 | 2199 | 1839 | 1729 | 1688 | 2004 |
| 55° | 1720 | 1379 | 1221 | 1239 | 1241 | 1537 |
| 65° | 913 | 759 | 776 | 743 | 616 | 914 |
| 75° | 374 | 385 | 318 | 228 | 200 | 409 |
| 85° | 72 | 68 | 32 | 29 | 28 | 94 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P289573

CATALOG NUMBER: 8RSRK-RM-100-HE-L835

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 4027.4 | 4027.4 | 4027.4 | 4027.4 | 4027.4 |
| 2.5° | 4054.1 | 4031.4 | 3991.3 | 4022.0 | 4011.4 |
| 5° | 4046.1 | 4019.4 | 3969.9 | 3991.3 | 3972.6 |
| 7.5° | 4031.4 | 3999.3 | 3933.9 | 3940.5 | 3917.8 |
| 10° | 4010.0 | 3967.3 | 3885.7 | 3877.7 | 3847.0 |
| 12.5° | 3983.3 | 3925.8 | 3825.6 | 3797.6 | 3757.5 |
| 15° | 3949.9 | 3876.4 | 3749.5 | 3704.0 | 3655.9 |
| 17.5° | 3907.1 | 3813.6 | 3662.6 | 3589.1 | 3534.3 |
| 20° | 3852.3 | 3740.1 | 3559.7 | 3463.5 | 3406.0 |
| 22.5° | 3794.9 | 3655.9 | 3431.4 | 3331.2 | 3267.1 |
| 25° | 3722.7 | 3559.7 | 3295.1 | 3170.9 | 3089.4 |
| 27.5° | 3641.2 | 3448.8 | 3148.2 | 2994.5 | 2913.0 |
| 30° | 3542.3 | 3319.2 | 2986.5 | 2802.1 | 2720.6 |
| 32.5° | 3432.8 | 3172.2 | 2810.1 | 2613.7 | 2518.8 |
| 35° | 3297.8 | 3002.5 | 2624.4 | 2414.6 | 2329.0 |
| 37.5° | 3158.8 | 2819.4 | 2415.9 | 2220.8 | 2147.3 |
| 40° | 2987.8 | 2625.7 | 2220.8 | 2041.8 | 1976.3 |
| 42.5° | 2812.8 | 2410.6 | 2025.7 | 1877.4 | 1824.0 |
| 45° | 2613.7 | 2199.4 | 1838.6 | 1729.1 | 1687.7 |
| 47.5° | 2390.5 | 1989.6 | 1666.3 | 1598.1 | 1568.7 |
| 50° | 2171.4 | 1779.9 | 1497.9 | 1471.2 | 1461.8 |
| 52.5° | 1953.6 | 1574.1 | 1352.3 | 1354.9 | 1349.6 |
| 55° | 1719.7 | 1379.0 | 1221.3 | 1238.7 | 1241.4 |
| 57.5° | 1487.2 | 1193.3 | 1098.4 | 1130.4 | 1133.1 |
| 60° | 1278.8 | 1034.2 | 980.8 | 1019.5 | 1020.9 |
| 62.5° | 1086.4 | 885.9 | 873.9 | 911.3 | 867.2 |
| 65° | 912.6 | 759.0 | 776.3 | 742.9 | 616.0 |
| 67.5° | 757.6 | 653.4 | 681.5 | 519.8 | 436.9 |
| 70° | 610.7 | 550.5 | 571.9 | 387.5 | 338.1 |
| 72.5° | 482.4 | 465.0 | 432.9 | 302.0 | 263.2 |
| 75° | 374.1 | 384.8 | 318.0 | 228.5 | 200.4 |
| 77.5° | 286.0 | 312.7 | 231.2 | 164.4 | 137.6 |
| 80° | 208.5 | 233.8 | 152.3 | 98.9 | 82.8 |
| 82.5° | 137.6 | 147.0 | 80.2 | 50.8 | 44.1 |
| 85° | 72.2 | 68.1 | 32.1 | 29.4 | 28.1 |
| 87.5° | 30.7 | 17.4 | 16.0 | 13.4 | 13.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)