

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: P567723

Luminaire Tested: **8SNX-200HL-UNV-L835-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567723
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2202-547-17)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNX-200HL-UNV-L835-CD
Description: 8FT 20000 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

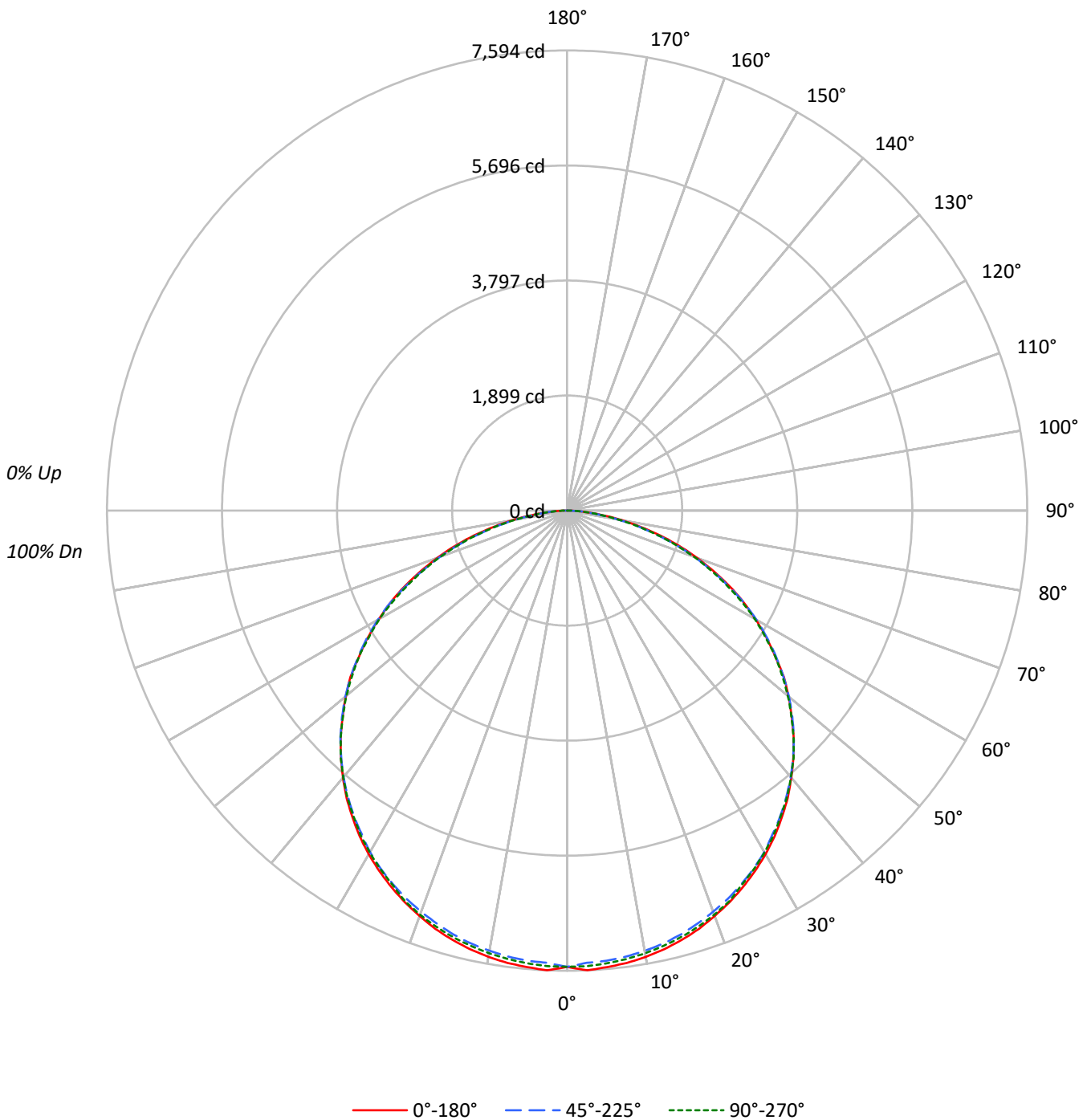
Lumens per Lamp: N/A
Luminaire Lumens: 22540.0 lumens
Efficiency: N/A
Efficacy: 155.4 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 145
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: P567723

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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 | 109 | 104 | 99 | 95 | 106 | 101 | 98 | 94 | 97 | 94 | 91 | 93 | 91 | 88 | 90 | 88 | 86 | 83 |
| 2 | 99 | 90 | 83 | 77 | 96 | 88 | 82 | 76 | 85 | 79 | 75 | 81 | 77 | 73 | 78 | 75 | 71 | 69 |
| 3 | 90 | 79 | 71 | 64 | 87 | 77 | 70 | 63 | 74 | 68 | 62 | 72 | 66 | 61 | 69 | 64 | 60 | 58 |
| 4 | 82 | 70 | 61 | 54 | 80 | 68 | 60 | 54 | 66 | 59 | 53 | 64 | 57 | 52 | 61 | 56 | 51 | 49 |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 52 | 46 | 59 | 51 | 46 | 57 | 50 | 45 | 55 | 49 | 45 | 42 |
| 6 | 69 | 56 | 47 | 40 | 67 | 55 | 46 | 40 | 53 | 45 | 40 | 51 | 45 | 39 | 50 | 44 | 39 | 37 |
| 7 | 64 | 51 | 42 | 35 | 63 | 50 | 41 | 35 | 48 | 41 | 35 | 47 | 40 | 35 | 45 | 39 | 35 | 33 |
| 8 | 60 | 46 | 37 | 32 | 58 | 45 | 37 | 31 | 44 | 37 | 31 | 43 | 36 | 31 | 42 | 35 | 31 | 29 |
| 9 | 56 | 42 | 34 | 28 | 54 | 42 | 34 | 28 | 41 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 |
| 10 | 52 | 39 | 31 | 26 | 51 | 38 | 31 | 26 | 37 | 30 | 25 | 36 | 30 | 25 | 36 | 30 | 25 | 23 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 40525 | 40525 | 40525 |
| 5° | 40852 | 40284 | 40525 |
| 10° | 40872 | 40315 | 40541 |
| 15° | 40854 | 40357 | 40588 |
| 20° | 40772 | 40352 | 40644 |
| 25° | 40722 | 40400 | 40476 |
| 30° | 40695 | 40438 | 40477 |
| 35° | 40595 | 40344 | 40407 |
| 40° | 40432 | 40343 | 40365 |
| 45° | 40212 | 40286 | 40212 |
| 50° | 39941 | 40020 | 39808 |
| 55° | 39318 | 39527 | 39318 |
| 60° | 38656 | 38828 | 38484 |
| 65° | 37699 | 37253 | 36847 |
| 70° | 35903 | 35100 | 35000 |
| 75° | 33132 | 31541 | 31674 |
| 80° | 28344 | 26568 | 27060 |
| 85° | 21057 | 20662 | 19285 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 714.6 | 3.2 |
| 10°-20° | 2059.0 | 9.1 |
| 20°-30° | 3152.1 | 14.0 |
| 30°-40° | 3855.9 | 17.1 |
| 40°-50° | 4078.3 | 18.1 |
| 50°-60° | 3757.8 | 16.7 |
| 60°-70° | 2892.2 | 12.8 |
| 70°-80° | 1624.9 | 7.2 |
| 80°-90° | 405.4 | 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° | 5925.7 | 26.3 |
| 0°-40° | 9781.5 | 43.4 |
| 0°-60° | 17617.6 | 78.2 |
| 0°-90° | 22540.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 22540.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 7530 | 7530 | 7530 | 7530 | 7530 | |
| 5° | 7562 | 7539 | 7457 | 7524 | 7501 | 719 |
| 15° | 7332 | 7313 | 7243 | 7307 | 7284 | 2070 |
| 25° | 6858 | 6851 | 6803 | 6851 | 6816 | 3163 |
| 35° | 6179 | 6169 | 6140 | 6169 | 6150 | 3867 |
| 45° | 5283 | 5299 | 5293 | 5280 | 5283 | 4074 |
| 55° | 4190 | 4229 | 4213 | 4200 | 4190 | 3753 |
| 65° | 2960 | 2967 | 2925 | 2884 | 2893 | 2920 |
| 75° | 1593 | 1568 | 1517 | 1494 | 1523 | 1678 |
| 85° | 341 | 335 | 335 | 325 | 312 | 421 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P567723

CATALOG NUMBER: 8SNX-200HL-UNV-L835-CD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 7529.8 | 7529.8 | 7529.8 | 7529.8 | 7529.8 |
| 2.5° | 7593.6 | 7552.2 | 7469.3 | 7542.6 | 7523.5 |
| 5° | 7561.7 | 7539.4 | 7456.6 | 7523.5 | 7501.2 |
| 7.5° | 7529.8 | 7504.4 | 7424.7 | 7498.0 | 7466.1 |
| 10° | 7478.9 | 7456.6 | 7376.9 | 7447.0 | 7418.3 |
| 12.5° | 7411.9 | 7392.8 | 7319.5 | 7386.5 | 7357.8 |
| 15° | 7332.3 | 7313.2 | 7243.1 | 7306.8 | 7284.5 |
| 17.5° | 7236.7 | 7214.4 | 7147.5 | 7214.4 | 7198.4 |
| 20° | 7118.8 | 7106.0 | 7045.5 | 7106.0 | 7096.5 |
| 22.5° | 6997.7 | 6981.8 | 6934.0 | 6978.6 | 6981.8 |
| 25° | 6857.5 | 6851.1 | 6803.3 | 6851.1 | 6816.1 |
| 27.5° | 6710.9 | 6710.9 | 6663.1 | 6695.0 | 6672.7 |
| 30° | 6548.4 | 6545.2 | 6507.0 | 6522.9 | 6513.3 |
| 32.5° | 6373.1 | 6369.9 | 6319.0 | 6360.4 | 6344.4 |
| 35° | 6178.7 | 6169.2 | 6140.5 | 6169.2 | 6150.1 |
| 37.5° | 5978.0 | 5968.4 | 5946.1 | 5962.1 | 5958.9 |
| 40° | 5754.9 | 5754.9 | 5742.2 | 5754.9 | 5745.4 |
| 42.5° | 5525.5 | 5535.1 | 5519.1 | 5531.9 | 5531.9 |
| 45° | 5283.3 | 5299.3 | 5292.9 | 5280.1 | 5283.3 |
| 47.5° | 5025.2 | 5053.9 | 5038.0 | 5034.8 | 5018.8 |
| 50° | 4770.3 | 4795.8 | 4779.8 | 4763.9 | 4754.4 |
| 52.5° | 4505.8 | 4518.5 | 4499.4 | 4493.1 | 4470.7 |
| 55° | 4190.3 | 4228.6 | 4212.6 | 4199.9 | 4190.3 |
| 57.5° | 3900.4 | 3929.0 | 3916.3 | 3890.8 | 3874.9 |
| 60° | 3591.3 | 3613.6 | 3607.2 | 3578.5 | 3575.3 |
| 62.5° | 3288.5 | 3294.9 | 3288.5 | 3237.5 | 3240.7 |
| 65° | 2960.3 | 2966.7 | 2925.3 | 2883.8 | 2893.4 |
| 67.5° | 2616.2 | 2635.3 | 2577.9 | 2517.4 | 2558.8 |
| 70° | 2281.6 | 2275.2 | 2230.6 | 2163.7 | 2224.2 |
| 72.5° | 1937.4 | 1931.1 | 1880.1 | 1832.3 | 1873.7 |
| 75° | 1593.3 | 1567.8 | 1516.8 | 1494.5 | 1523.2 |
| 77.5° | 1236.4 | 1207.7 | 1185.4 | 1169.5 | 1182.2 |
| 80° | 914.5 | 876.3 | 857.2 | 844.4 | 873.1 |
| 82.5° | 608.6 | 580.0 | 570.4 | 580.0 | 573.6 |
| 85° | 341.0 | 334.6 | 334.6 | 325.0 | 312.3 |
| 87.5° | 140.2 | 146.6 | 149.8 | 146.6 | 140.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)