

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: P218035

Luminaire Tested: **8TSNLED-LD5-170HL-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218035
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35691)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8TSNLED-LD5-170HL-UNV-L830-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 8FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15792.0 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.28 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 8' x H: 0.17')
CIE Type: Direct

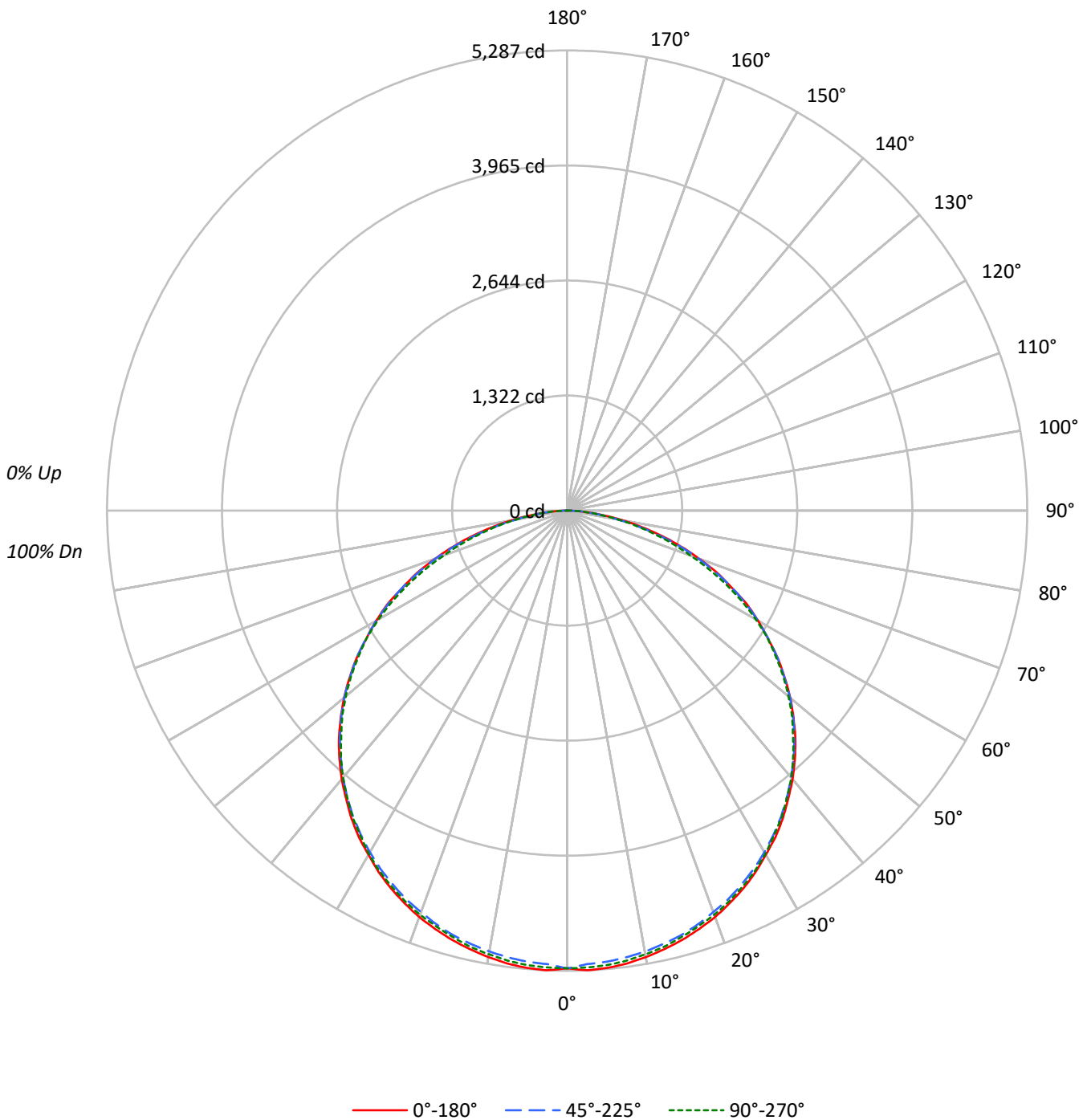
Input Watts (W): 123.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P218035

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 42374 | 42374 | 42374 |
| 5° | 42591 | 39594 | 38992 |
| 10° | 42469 | 37337 | 36008 |
| 15° | 42357 | 35309 | 33377 |
| 20° | 42290 | 33338 | 31069 |
| 25° | 42169 | 31529 | 28906 |
| 30° | 41971 | 29766 | 26865 |
| 35° | 41878 | 28010 | 24865 |
| 40° | 41662 | 26222 | 22925 |
| 45° | 41389 | 24431 | 20909 |
| 50° | 40945 | 22520 | 18990 |
| 55° | 40302 | 20436 | 16934 |
| 60° | 39409 | 18146 | 14785 |
| 65° | 37969 | 15609 | 12251 |
| 70° | 35893 | 12635 | 9475 |
| 75° | 32648 | 9113 | 6790 |
| 80° | 26962 | 5422 | 4216 |
| 85° | 17935 | 2346 | 1706 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 498.4 | 3.2 |
| 10°-20° | 1434.9 | 9.1 |
| 20°-30° | 2198.4 | 13.9 |
| 30°-40° | 2690.8 | 17.0 |
| 40°-50° | 2847.5 | 18.0 |
| 50°-60° | 2633.6 | 16.7 |
| 60°-70° | 2045.0 | 12.9 |
| 70°-80° | 1151.9 | 7.3 |
| 80°-90° | 291.3 | 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° | 4131.7 | 26.2 |
| 0°-40° | 6822.6 | 43.2 |
| 0°-60° | 12303.7 | 77.9 |
| 0°-90° | 15792.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 15792.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 5259 | 5259 | 5259 | 5259 | 5259 | |
| 5° | 5276 | 5254 | 5205 | 5254 | 5243 | 501 |
| 15° | 5106 | 5090 | 5052 | 5096 | 5074 | 1442 |
| 25° | 4790 | 4773 | 4741 | 4779 | 4768 | 2208 |
| 35° | 4320 | 4304 | 4287 | 4298 | 4298 | 2701 |
| 45° | 3708 | 3703 | 3692 | 3686 | 3670 | 2858 |
| 55° | 2955 | 2966 | 2955 | 2944 | 2927 | 2636 |
| 65° | 2081 | 2097 | 2086 | 2059 | 2021 | 2064 |
| 75° | 1130 | 1130 | 1081 | 1054 | 1032 | 1191 |
| 85° | 240 | 240 | 235 | 235 | 229 | 299 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P218035

CATALOG NUMBER: 8TSNLED-LD5-170HL-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 5259.4 | 5259.4 | 5259.4 | 5259.4 | 5259.4 |
| 2.5° | 5286.7 | 5264.9 | 5215.7 | 5264.9 | 5253.9 |
| 5° | 5275.8 | 5253.9 | 5204.8 | 5253.9 | 5243.0 |
| 7.5° | 5248.5 | 5232.1 | 5177.5 | 5226.6 | 5215.7 |
| 10° | 5210.2 | 5193.9 | 5144.7 | 5193.9 | 5177.5 |
| 12.5° | 5161.1 | 5144.7 | 5101.0 | 5144.7 | 5133.8 |
| 15° | 5106.5 | 5090.1 | 5051.9 | 5095.6 | 5073.7 |
| 17.5° | 5040.9 | 5030.0 | 4986.3 | 5030.0 | 5008.2 |
| 20° | 4969.9 | 4948.1 | 4909.9 | 4953.6 | 4942.6 |
| 22.5° | 4882.6 | 4871.6 | 4833.4 | 4871.6 | 4860.7 |
| 25° | 4789.7 | 4773.3 | 4740.6 | 4778.8 | 4767.9 |
| 27.5° | 4685.9 | 4675.0 | 4642.3 | 4669.6 | 4669.6 |
| 30° | 4565.8 | 4560.3 | 4533.0 | 4560.3 | 4554.9 |
| 32.5° | 4451.1 | 4440.2 | 4412.9 | 4434.7 | 4423.8 |
| 35° | 4320.0 | 4303.6 | 4287.3 | 4298.2 | 4298.2 |
| 37.5° | 4172.6 | 4167.1 | 4150.7 | 4167.1 | 4150.7 |
| 40° | 4030.6 | 4019.6 | 4003.3 | 4008.7 | 4008.7 |
| 42.5° | 3872.2 | 3866.7 | 3850.3 | 3850.3 | 3844.9 |
| 45° | 3708.3 | 3702.9 | 3692.0 | 3686.5 | 3670.1 |
| 47.5° | 3528.1 | 3522.6 | 3522.6 | 3517.2 | 3506.3 |
| 50° | 3347.9 | 3347.9 | 3342.4 | 3326.0 | 3320.6 |
| 52.5° | 3151.3 | 3162.2 | 3145.8 | 3134.9 | 3129.4 |
| 55° | 2954.7 | 2965.6 | 2954.7 | 2943.7 | 2927.3 |
| 57.5° | 2736.2 | 2758.0 | 2741.7 | 2736.2 | 2730.7 |
| 60° | 2534.1 | 2545.0 | 2534.1 | 2517.7 | 2506.8 |
| 62.5° | 2326.6 | 2326.6 | 2310.2 | 2299.3 | 2266.5 |
| 65° | 2080.8 | 2097.2 | 2086.3 | 2059.0 | 2020.7 |
| 67.5° | 1862.4 | 1851.4 | 1840.5 | 1807.7 | 1764.1 |
| 70° | 1611.1 | 1616.6 | 1600.2 | 1551.1 | 1507.4 |
| 72.5° | 1370.8 | 1381.8 | 1349.0 | 1283.4 | 1272.5 |
| 75° | 1130.5 | 1130.5 | 1081.4 | 1054.1 | 1032.2 |
| 77.5° | 884.8 | 890.2 | 824.7 | 819.2 | 813.8 |
| 80° | 649.9 | 660.8 | 595.3 | 611.7 | 606.2 |
| 82.5° | 442.4 | 431.5 | 404.1 | 404.1 | 398.7 |
| 85° | 240.3 | 240.3 | 234.8 | 234.8 | 229.4 |
| 87.5° | 92.8 | 98.3 | 109.2 | 120.2 | 114.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)