

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: NEO-RAY

Report Number: P334360

Luminaire Tested: **S125DS-S375D935-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334360
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DS-S375D935-4F0-1E-UDD-F
Description: DEFINE 5 DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 375 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1236.8 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Direct

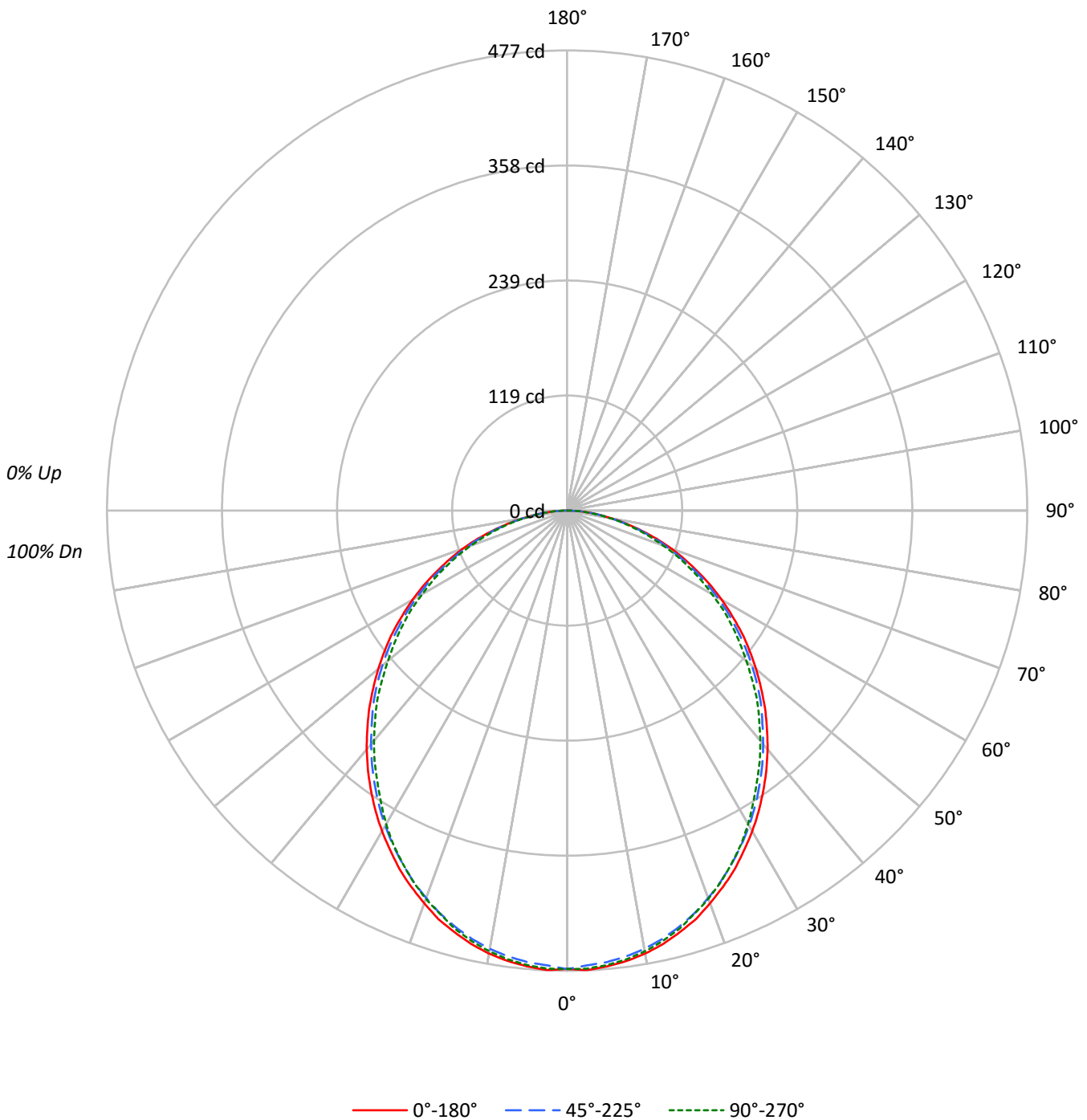
Input Watts (W): 11.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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 | 100 | 96 | 106 | 102 | 98 | 95 | 98 | 94 | 92 | 94 | 91 | 89 | 90 | 88 | 86 | 84 |
| 2 | 99 | 91 | 84 | 79 | 97 | 89 | 83 | 78 | 86 | 80 | 76 | 82 | 78 | 74 | 79 | 76 | 72 | 70 |
| 3 | 91 | 80 | 72 | 66 | 88 | 79 | 71 | 65 | 76 | 69 | 64 | 73 | 67 | 63 | 70 | 66 | 62 | 59 |
| 4 | 83 | 71 | 62 | 56 | 81 | 70 | 62 | 55 | 67 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 53 | 51 |
| 5 | 76 | 64 | 55 | 48 | 74 | 63 | 54 | 48 | 60 | 53 | 47 | 58 | 52 | 47 | 57 | 51 | 46 | 44 |
| 6 | 71 | 57 | 49 | 42 | 69 | 56 | 48 | 42 | 55 | 47 | 42 | 53 | 46 | 41 | 51 | 46 | 41 | 39 |
| 7 | 66 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 50 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 36 | 34 |
| 8 | 61 | 48 | 39 | 33 | 60 | 47 | 39 | 33 | 46 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 31 |
| 9 | 57 | 44 | 36 | 30 | 56 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 30 | 28 |
| 10 | 54 | 40 | 33 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 32 | 27 | 37 | 31 | 27 | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3069 | 3069 | 3069 |
| 5° | 3076 | 3046 | 3066 |
| 10° | 3057 | 3025 | 3042 |
| 15° | 3023 | 2989 | 3001 |
| 20° | 2977 | 2937 | 2943 |
| 25° | 2925 | 2877 | 2875 |
| 30° | 2862 | 2812 | 2798 |
| 35° | 2795 | 2741 | 2703 |
| 40° | 2726 | 2666 | 2627 |
| 45° | 2651 | 2596 | 2545 |
| 50° | 2568 | 2512 | 2436 |
| 55° | 2488 | 2417 | 2349 |
| 60° | 2393 | 2321 | 2238 |
| 65° | 2280 | 2207 | 2132 |
| 70° | 2172 | 2073 | 2002 |
| 75° | 1979 | 1914 | 1849 |
| 80° | 1763 | 1733 | 1692 |
| 85° | 1534 | 1564 | 1475 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 44.8 | 3.6 |
| 10°-20° | 126.7 | 10.2 |
| 20°-30° | 187.0 | 15.1 |
| 30°-40° | 218.2 | 17.6 |
| 40°-50° | 219.1 | 17.7 |
| 50°-60° | 192.3 | 15.6 |
| 60°-70° | 143.3 | 11.6 |
| 70°-80° | 81.8 | 6.6 |
| 80°-90° | 23.6 | 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° | 358.5 | 29.0 |
| 0°-40° | 576.6 | 46.6 |
| 0°-60° | 988.1 | 79.9 |
| 0°-90° | 1236.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1236.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 475 | 475 | 475 | 475 | 475 | |
| 5° | 474 | 474 | 470 | 473 | 473 | 45 |
| 15° | 452 | 451 | 447 | 449 | 449 | 128 |
| 25° | 410 | 409 | 404 | 404 | 403 | 189 |
| 35° | 354 | 353 | 348 | 346 | 343 | 222 |
| 45° | 290 | 289 | 284 | 280 | 279 | 224 |
| 55° | 221 | 220 | 215 | 211 | 209 | 197 |
| 65° | 149 | 148 | 144 | 141 | 140 | 148 |
| 75° | 79 | 79 | 77 | 76 | 74 | 84 |
| 85° | 21 | 21 | 21 | 21 | 20 | 24 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P334360

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 475.2 | 475.2 | 475.2 | 475.2 | 475.2 |
| 2.5° | 476.7 | 475.6 | 471.8 | 475.6 | 475.2 |
| 5° | 474.4 | 473.7 | 469.9 | 473.3 | 472.9 |
| 7.5° | 471.0 | 470.3 | 466.2 | 469.5 | 469.2 |
| 10° | 466.2 | 465.4 | 461.3 | 464.3 | 463.9 |
| 12.5° | 460.1 | 458.6 | 454.9 | 457.1 | 457.1 |
| 15° | 452.2 | 451.1 | 447.0 | 448.9 | 448.9 |
| 17.5° | 444.0 | 442.1 | 438.0 | 440.2 | 438.3 |
| 20° | 433.1 | 432.3 | 427.4 | 430.1 | 428.2 |
| 22.5° | 422.2 | 420.7 | 416.2 | 417.7 | 416.5 |
| 25° | 410.5 | 408.6 | 403.8 | 404.5 | 403.4 |
| 27.5° | 397.0 | 395.9 | 391.0 | 391.3 | 390.2 |
| 30° | 383.8 | 382.7 | 377.1 | 376.3 | 375.2 |
| 32.5° | 369.5 | 367.7 | 362.8 | 361.3 | 359.0 |
| 35° | 354.5 | 353.0 | 347.7 | 345.9 | 342.9 |
| 37.5° | 339.1 | 337.2 | 332.3 | 329.7 | 327.8 |
| 40° | 323.3 | 321.4 | 316.2 | 312.8 | 311.6 |
| 42.5° | 306.4 | 304.9 | 299.6 | 296.6 | 294.7 |
| 45° | 290.2 | 288.7 | 284.2 | 279.7 | 278.6 |
| 47.5° | 272.6 | 272.9 | 267.3 | 262.8 | 260.1 |
| 50° | 255.6 | 254.5 | 250.0 | 245.1 | 242.5 |
| 52.5° | 238.3 | 237.6 | 232.7 | 228.6 | 225.6 |
| 55° | 221.0 | 219.9 | 214.7 | 211.3 | 208.6 |
| 57.5° | 202.6 | 202.3 | 197.7 | 193.2 | 192.1 |
| 60° | 185.3 | 183.8 | 179.7 | 175.9 | 173.3 |
| 62.5° | 167.3 | 166.2 | 162.8 | 158.6 | 156.8 |
| 65° | 149.2 | 148.5 | 144.4 | 141.0 | 139.5 |
| 67.5° | 131.6 | 130.1 | 127.1 | 124.1 | 123.3 |
| 70° | 115.0 | 113.2 | 109.8 | 107.5 | 106.0 |
| 72.5° | 97.0 | 95.9 | 94.0 | 91.4 | 89.8 |
| 75° | 79.3 | 78.6 | 76.7 | 75.6 | 74.1 |
| 77.5° | 62.8 | 62.4 | 61.3 | 60.5 | 59.4 |
| 80° | 47.4 | 47.4 | 46.6 | 46.2 | 45.5 |
| 82.5° | 33.8 | 33.1 | 33.1 | 32.3 | 32.3 |
| 85° | 20.7 | 21.1 | 21.1 | 20.7 | 19.9 |
| 87.5° | 10.2 | 10.2 | 9.8 | 9.8 | 9.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)