

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: P335022

Luminaire Tested: **S125IP-S810U930-4F0-1E-UDD-1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P335022  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S125IP-S810U930-4F0-1E-UDD-1  
Description: DEFINE 5 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
PENDANT MOUNT, 810 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

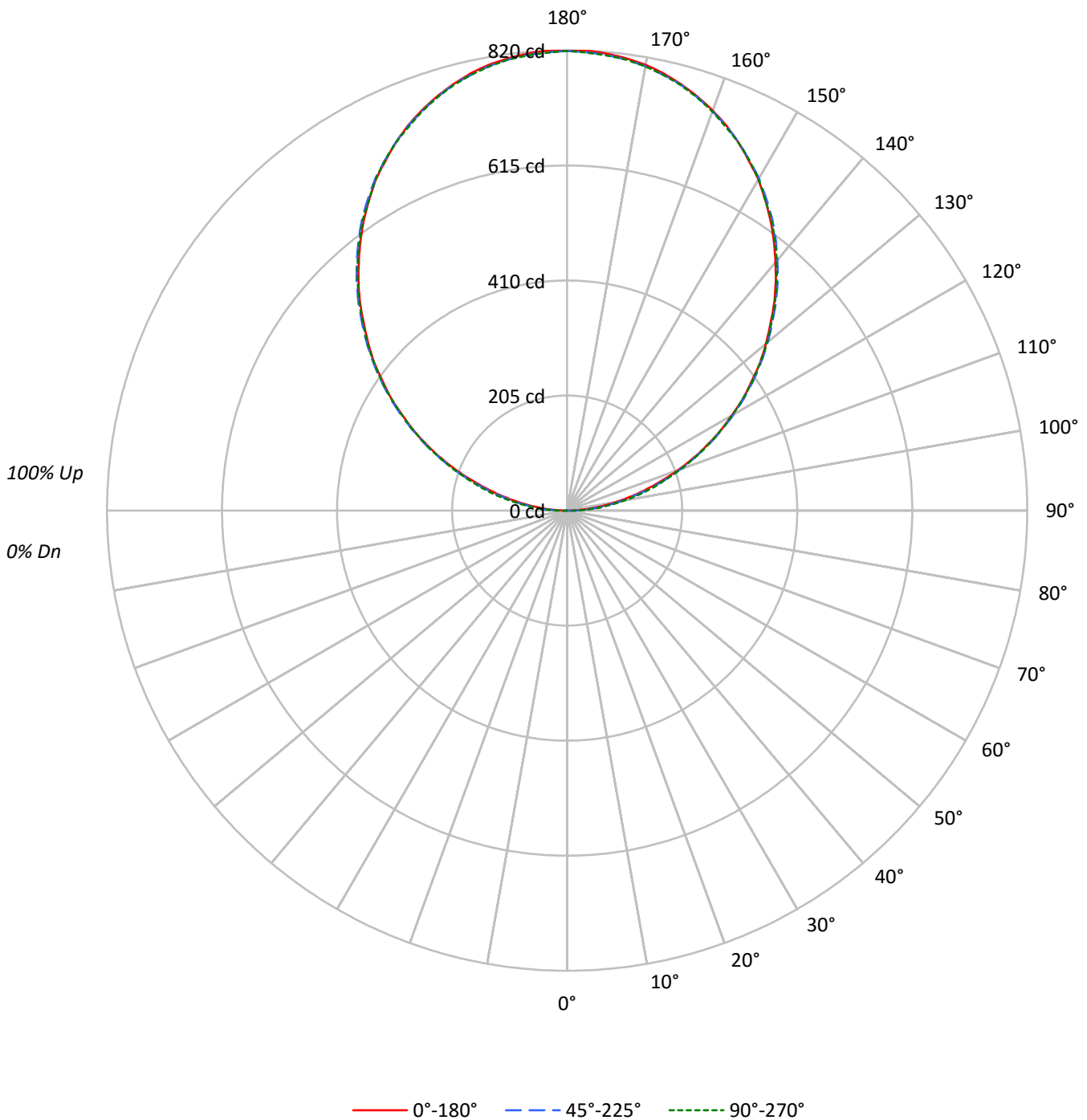
Lumens per Lamp: N/A  
Luminaire Lumens: 2287.7 lumens  
Efficiency: N/A  
Efficacy: 86.7 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Indirect

Input Watts (W): 26.4  
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   | 95 | 95 | 95 | 95 | 81 | 81 | 81 | 81 | 56 | 56 | 56 | 32 | 32 | 32 | 10 | 10 | 10 | 0 |
| 1   | 87 | 83 | 79 | 76 | 74 | 71 | 68 | 65 | 48 | 47 | 45 | 28 | 27 | 26 | 9  | 9  | 8  | 0 |
| 2   | 79 | 72 | 66 | 62 | 67 | 62 | 57 | 53 | 42 | 40 | 37 | 24 | 23 | 22 | 8  | 7  | 7  | 0 |
| 3   | 72 | 63 | 56 | 51 | 61 | 54 | 49 | 44 | 37 | 34 | 31 | 21 | 20 | 18 | 7  | 6  | 6  | 0 |
| 4   | 65 | 56 | 48 | 43 | 56 | 48 | 42 | 37 | 33 | 29 | 26 | 19 | 17 | 16 | 6  | 6  | 5  | 0 |
| 5   | 60 | 49 | 42 | 36 | 51 | 42 | 36 | 32 | 29 | 25 | 22 | 17 | 15 | 13 | 5  | 5  | 4  | 0 |
| 6   | 55 | 44 | 36 | 31 | 47 | 38 | 32 | 27 | 26 | 22 | 19 | 15 | 13 | 11 | 5  | 4  | 4  | 0 |
| 7   | 50 | 39 | 32 | 27 | 43 | 34 | 28 | 23 | 23 | 19 | 17 | 14 | 11 | 10 | 4  | 4  | 3  | 0 |
| 8   | 47 | 35 | 28 | 23 | 40 | 30 | 24 | 20 | 21 | 17 | 14 | 12 | 10 | 9  | 4  | 3  | 3  | 0 |
| 9   | 43 | 32 | 25 | 20 | 37 | 27 | 22 | 18 | 19 | 15 | 13 | 11 | 9  | 8  | 4  | 3  | 3  | 0 |
| 10  | 40 | 29 | 22 | 18 | 34 | 25 | 19 | 16 | 17 | 14 | 11 | 10 | 8  | 7  | 3  | 3  | 2  | 0 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0° | 45° | 90° |
|-----|----|-----|-----|
| 0°  | 0  | 0   | 0   |
| 5°  | 0  | 0   | 0   |
| 10° | 0  | 0   | 0   |
| 15° | 0  | 0   | 0   |
| 20° | 0  | 0   | 0   |
| 25° | 0  | 0   | 0   |
| 30° | 0  | 0   | 0   |
| 35° | 0  | 0   | 0   |
| 40° | 0  | 0   | 0   |
| 45° | 0  | 0   | 0   |
| 50° | 0  | 0   | 0   |
| 55° | 0  | 0   | 0   |
| 60° | 0  | 0   | 0   |
| 65° | 0  | 0   | 0   |
| 70° | 0  | 0   | 0   |
| 75° | 0  | 0   | 0   |
| 80° | 0  | 0   | 0   |
| 85° | 0  | 0   | 0   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.0    | 0.0       |
| 10°-20°   | 0.0    | 0.0       |
| 20°-30°   | 0.0    | 0.0       |
| 30°-40°   | 0.0    | 0.0       |
| 40°-50°   | 0.0    | 0.0       |
| 50°-60°   | 0.0    | 0.0       |
| 60°-70°   | 0.0    | 0.0       |
| 70°-80°   | 0.0    | 0.0       |
| 80°-90°   | 1.3    | 0.1       |
| 90°-100°  | 54.5   | 2.4       |
| 100°-110° | 161.8  | 7.1       |
| 110°-120° | 274.5  | 12.0      |
| 120°-130° | 361.3  | 15.8      |
| 130°-140° | 404.9  | 17.7      |
| 140°-150° | 396.9  | 17.3      |
| 150°-160° | 333.4  | 14.6      |
| 160°-170° | 221.6  | 9.7       |
| 170°-180° | 77.5   | 3.4       |
| 0°-30°    | 0.0    | 0.0       |
| 0°-40°    | 0.0    | 0.0       |
| 0°-60°    | 0.0    | 0.0       |
| 0°-90°    | 1.3    | 0.1       |
| 90°-120°  | 490.8  | 21.5      |
| 90°-150°  | 1653.9 | 72.3      |
| 90°-180°  | 2286.0 | 99.9      |
| 0°-180°   | 2287.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 0   | 0     | 0   | 0     | 0   |      |
| 5°   | 0   | 0     | 0   | 0     | 0   | 0    |
| 15°  | 0   | 0     | 0   | 0     | 0   | 0    |
| 25°  | 0   | 0     | 0   | 0     | 0   | 0    |
| 35°  | 0   | 0     | 0   | 0     | 0   | 0    |
| 45°  | 0   | 0     | 0   | 0     | 0   | 0    |
| 55°  | 0   | 0     | 0   | 0     | 0   | 0    |
| 65°  | 0   | 0     | 0   | 0     | 0   | 0    |
| 75°  | 0   | 0     | 0   | 0     | 0   | 0    |
| 85°  | 0   | 0     | 0   | 0     | 0   | 0    |
| 90°  | 1   | 6     | 10  | 13    | 15  | 3    |
| 95°  | 41  | 43    | 49  | 54    | 55  | 43   |
| 105° | 145 | 148   | 152 | 156   | 158 | 155  |
| 115° | 275 | 277   | 279 | 278   | 277 | 272  |
| 125° | 401 | 405   | 406 | 404   | 404 | 359  |
| 135° | 522 | 525   | 526 | 526   | 523 | 402  |
| 145° | 632 | 634   | 636 | 636   | 634 | 395  |
| 155° | 723 | 723   | 724 | 726   | 723 | 333  |
| 165° | 786 | 785   | 785 | 788   | 784 | 222  |
| 175° | 817 | 815   | 815 | 819   | 814 | 78   |
| 180° | 819 | 819   | 819 | 819   | 819 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 2.5°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 5°     | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 7.5°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 10°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 12.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 15°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 17.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 20°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 22.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 25°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 27.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 30°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 32.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 35°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 37.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 40°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 42.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 45°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 47.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 50°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 52.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 55°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 57.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 60°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 62.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 65°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 67.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 70°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 72.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 75°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 77.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 90°    | 0.6   | 5.7   | 10.2  | 13.4  | 15.3  |
| 92.5°  | 19.1  | 22.3  | 28.1  | 32.5  | 33.8  |
| 95°    | 41.4  | 42.7  | 49.1  | 53.6  | 54.8  |
| 97.5°  | 63.8  | 64.4  | 73.3  | 77.1  | 77.8  |
| 100°   | 89.3  | 89.3  | 97.5  | 103.3 | 104.6 |
| 102.5° | 116.7 | 119.9 | 123.0 | 129.4 | 131.3 |
| 105°   | 145.4 | 148.5 | 152.4 | 156.2 | 158.1 |
| 107.5° | 176.6 | 179.8 | 183.0 | 184.9 | 184.9 |
| 110°   | 209.1 | 212.3 | 214.2 | 216.1 | 215.5 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 242.3 | 243.5 | 246.1 | 246.7 | 245.4 |
| 115°   | 274.8 | 277.3 | 278.6 | 278.0 | 277.3 |
| 117.5° | 307.9 | 308.6 | 309.8 | 310.5 | 307.9 |
| 120°   | 338.5 | 341.7 | 342.4 | 342.4 | 339.8 |
| 122.5° | 371.7 | 372.3 | 374.2 | 373.6 | 371.7 |
| 125°   | 401.0 | 404.8 | 405.5 | 404.2 | 403.6 |
| 127.5° | 433.5 | 435.4 | 436.1 | 435.4 | 434.2 |
| 130°   | 462.2 | 465.4 | 466.7 | 466.0 | 464.8 |
| 132.5° | 490.9 | 496.6 | 496.0 | 495.4 | 493.4 |
| 135°   | 521.5 | 525.3 | 526.0 | 526.0 | 523.4 |
| 137.5° | 550.2 | 554.0 | 555.3 | 555.9 | 552.7 |
| 140°   | 577.6 | 580.8 | 582.7 | 584.0 | 580.8 |
| 142.5° | 605.0 | 607.6 | 610.1 | 610.8 | 607.6 |
| 145°   | 631.8 | 634.3 | 636.3 | 636.3 | 634.3 |
| 147.5° | 656.7 | 658.6 | 659.8 | 661.8 | 656.7 |
| 150°   | 681.5 | 680.9 | 683.4 | 683.4 | 682.2 |
| 152.5° | 701.9 | 703.2 | 703.8 | 705.7 | 703.2 |
| 155°   | 723.0 | 723.0 | 723.6 | 726.1 | 723.0 |
| 157.5° | 742.1 | 740.8 | 741.4 | 744.0 | 739.5 |
| 160°   | 758.7 | 756.7 | 757.4 | 759.9 | 756.7 |
| 162.5° | 773.3 | 772.0 | 772.0 | 775.2 | 771.4 |
| 165°   | 786.1 | 784.8 | 785.4 | 788.0 | 784.2 |
| 167.5° | 797.5 | 795.0 | 795.0 | 798.8 | 795.0 |
| 170°   | 806.5 | 803.9 | 803.9 | 807.7 | 803.3 |
| 172.5° | 812.8 | 810.3 | 810.3 | 814.1 | 810.3 |
| 175°   | 817.3 | 814.8 | 814.8 | 818.6 | 814.1 |
| 177.5° | 820.5 | 817.9 | 817.3 | 821.1 | 816.7 |
| 180°   | 819.2 | 819.2 | 819.2 | 819.2 | 819.2 |

(END OF REPORT)