

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P242815

Luminaire Tested: S125DRP-S375D840-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P242815  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DRP-S375D840-X4F0-XX-UDD-A-W  
Description: DEFINE 5 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER  
STANDARD LIGHT ENGINE  
Light Source: (92) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

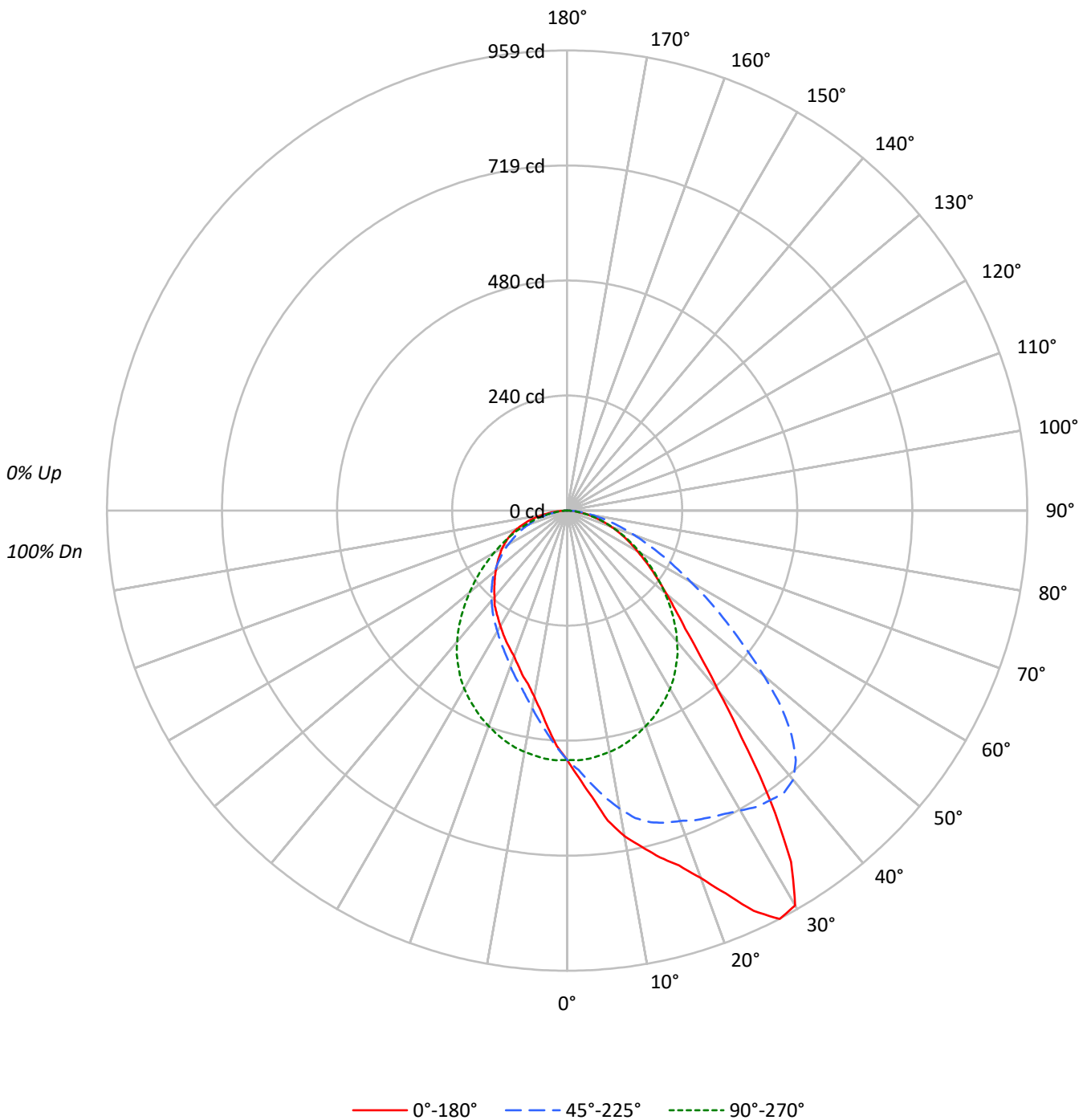
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1465.7 lumens  
Efficiency: N/A  
Efficacy: 126.4 lumens/watt  
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.53  
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 11.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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: 24 FT

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CATALOG NUMBER: S125DRP-S375D840-X4F0-XX-UDD-A-W

### Luminous Intensity Polar Plot



TEST NUMBER: P242815

CATALOG NUMBER: S125DRP-S375D840-X4F0-XX-UDD-A-W

**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   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 96  | 99  | 96  | 93  | 95  | 92  | 90  | 91  | 89  | 87  | 85  |    |    |    |    | 85  |   |  |   |
| 2   | 100 | 92  | 86  | 80  | 98  | 90  | 84  | 79  | 87  | 82  | 78  | 84  | 80  | 76  | 81  | 77  | 74  | 72  |    |    |    |    | 72  |   |  |   |
| 3   | 92  | 82  | 74  | 68  | 89  | 80  | 73  | 67  | 77  | 71  | 66  | 74  | 69  | 65  | 72  | 67  | 64  | 61  |    |    |    |    | 61  |   |  |   |
| 4   | 84  | 73  | 64  | 58  | 82  | 71  | 63  | 57  | 69  | 62  | 57  | 67  | 61  | 56  | 64  | 59  | 55  | 53  |    |    |    |    | 53  |   |  |   |
| 5   | 78  | 65  | 56  | 50  | 76  | 64  | 56  | 50  | 62  | 55  | 49  | 60  | 54  | 49  | 58  | 53  | 48  | 46  |    |    |    |    | 46  |   |  |   |
| 6   | 72  | 59  | 50  | 44  | 70  | 58  | 50  | 44  | 56  | 49  | 43  | 54  | 48  | 43  | 53  | 47  | 43  | 41  |    |    |    |    | 41  |   |  |   |
| 7   | 67  | 53  | 45  | 39  | 65  | 53  | 45  | 39  | 51  | 44  | 39  | 50  | 43  | 38  | 48  | 42  | 38  | 36  |    |    |    |    | 36  |   |  |   |
| 8   | 62  | 49  | 41  | 35  | 61  | 48  | 40  | 35  | 47  | 40  | 34  | 46  | 39  | 34  | 44  | 39  | 34  | 32  |    |    |    |    | 32  |   |  |   |
| 9   | 58  | 45  | 37  | 31  | 57  | 44  | 37  | 31  | 43  | 36  | 31  | 42  | 36  | 31  | 41  | 35  | 31  | 29  |    |    |    |    | 29  |   |  |   |
| 10  | 54  | 41  | 34  | 28  | 53  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 26  |    |    |    |    | 26  |   |  |   |

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

|     | 0°   | 45°  | 90°  | 135° | 180° |
|-----|------|------|------|------|------|
| 0°  | 3692 | 3692 | 3692 | 3692 | 3692 |
| 5°  | 4275 | 4072 | 3704 | 3331 | 3243 |
| 10° | 4973 | 4553 | 3685 | 3018 | 2841 |
| 15° | 5505 | 4949 | 3658 | 2774 | 2622 |
| 20° | 6163 | 5206 | 3615 | 2613 | 2445 |
| 25° | 7219 | 5530 | 3567 | 2477 | 2358 |
| 30° | 7798 | 5924 | 3519 | 2387 | 2283 |
| 35° | 6412 | 6398 | 3430 | 2324 | 2234 |
| 40° | 4557 | 6795 | 3306 | 2272 | 2180 |
| 45° | 3501 | 6650 | 3138 | 2227 | 2149 |
| 50° | 2989 | 5916 | 2930 | 2172 | 2145 |
| 55° | 2660 | 5023 | 2726 | 2093 | 2164 |
| 60° | 2401 | 4243 | 2503 | 2018 | 2219 |
| 65° | 2217 | 3614 | 2280 | 1917 | 2277 |
| 70° | 2016 | 3073 | 2047 | 1787 | 2309 |
| 75° | 1779 | 2628 | 1804 | 1648 | 2287 |
| 80° | 1498 | 2157 | 1469 | 1400 | 2092 |
| 85° | 1191 | 1566 | 1060 | 1150 | 1688 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 6650 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 50.0   | 3.4       |
| 10°-20°   | 148.9  | 10.2      |
| 20°-30°   | 241.9  | 16.5      |
| 30°-40°   | 295.6  | 20.2      |
| 40°-50°   | 268.2  | 18.3      |
| 50°-60°   | 213.6  | 14.6      |
| 60°-70°   | 148.8  | 10.1      |
| 70°-80°   | 79.2   | 5.4       |
| 80°-90°   | 19.7   | 1.3       |
| 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°    | 440.8  | 30.1      |
| 0°-40°    | 736.3  | 50.2      |
| 0°-60°    | 1218.1 | 83.1      |
| 0°-90°    | 1465.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1465.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 519 | 519 | 519 | 519  | 519  |      |
| 5°  | 599 | 571 | 519 | 467  | 455  | 60   |
| 15° | 748 | 673 | 497 | 377  | 356  | 214  |
| 25° | 921 | 705 | 455 | 316  | 301  | 422  |
| 35° | 739 | 737 | 395 | 268  | 258  | 453  |
| 45° | 348 | 662 | 312 | 222  | 214  | 277  |
| 55° | 215 | 405 | 220 | 169  | 175  | 193  |
| 65° | 132 | 215 | 136 | 114  | 135  | 131  |
| 75° | 65  | 96  | 66  | 60   | 83   | 70   |
| 85° | 15  | 19  | 13  | 14   | 21   | 17   |
| 90° | 0   | 0   | 0   | 0    | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 519.4 | 519.4 | 519.4 | 519.4 | 519.4 | 519.4 | 519.4 | 519.4 | 519.4 | 519.4 | 519.4 |
| 2.5°  | 556.9 | 556.0 | 555.1 | 553.3 | 554.7 | 550.9 | 549.2 | 546.1 | 542.3 | 541.0 | 539.5 |
| 5°    | 599.2 | 600.3 | 601.4 | 596.8 | 597.2 | 594.1 | 587.1 | 581.3 | 576.7 | 570.8 | 566.6 |
| 7.5°  | 651.7 | 648.4 | 648.6 | 645.7 | 640.6 | 636.5 | 629.6 | 620.1 | 611.5 | 601.8 | 593.5 |
| 10°   | 689.1 | 689.4 | 687.4 | 683.9 | 678.3 | 674.4 | 664.7 | 655.4 | 644.2 | 630.9 | 621.5 |
| 12.5° | 717.4 | 718.5 | 715.8 | 710.7 | 708.8 | 698.6 | 691.6 | 680.1 | 666.2 | 656.3 | 640.6 |
| 15°   | 748.2 | 745.8 | 744.0 | 738.1 | 733.5 | 724.2 | 712.1 | 700.6 | 686.1 | 672.6 | 659.2 |
| 17.5° | 775.6 | 777.5 | 774.7 | 770.3 | 756.6 | 745.8 | 730.8 | 716.3 | 698.8 | 682.1 | 666.4 |
| 20°   | 814.8 | 816.6 | 811.5 | 802.0 | 784.8 | 774.0 | 752.6 | 732.4 | 711.4 | 688.3 | 670.6 |
| 22.5° | 863.7 | 861.5 | 854.3 | 838.6 | 824.3 | 802.0 | 778.4 | 752.6 | 725.1 | 698.2 | 673.3 |
| 25°   | 920.6 | 911.4 | 907.2 | 889.3 | 869.7 | 840.4 | 808.6 | 772.5 | 739.8 | 705.2 | 675.3 |
| 27.5° | 959.4 | 955.7 | 949.7 | 935.2 | 912.7 | 879.4 | 841.9 | 798.7 | 754.8 | 712.5 | 674.8 |
| 30°   | 950.2 | 950.6 | 951.0 | 947.1 | 933.8 | 910.3 | 873.0 | 825.6 | 770.9 | 721.8 | 676.4 |
| 32.5° | 868.2 | 878.1 | 887.6 | 899.9 | 907.8 | 908.1 | 888.2 | 846.5 | 789.9 | 732.4 | 675.5 |
| 35°   | 739.0 | 741.4 | 766.3 | 791.0 | 824.5 | 850.5 | 867.9 | 849.0 | 801.6 | 737.4 | 674.8 |
| 37.5° | 597.4 | 609.6 | 628.3 | 656.1 | 706.3 | 747.3 | 801.1 | 819.7 | 797.4 | 741.6 | 674.6 |
| 40°   | 491.2 | 502.2 | 513.4 | 541.9 | 582.7 | 635.1 | 698.4 | 752.4 | 765.0 | 732.4 | 668.0 |
| 42.5° | 409.2 | 417.3 | 430.1 | 449.7 | 482.1 | 527.1 | 586.9 | 661.6 | 712.7 | 705.5 | 654.1 |
| 45°   | 348.3 | 353.8 | 363.5 | 380.5 | 405.2 | 441.6 | 494.9 | 572.1 | 639.3 | 661.6 | 630.5 |
| 47.5° | 305.1 | 305.3 | 313.3 | 325.4 | 344.1 | 377.6 | 417.5 | 481.0 | 553.6 | 604.9 | 597.7 |
| 50°   | 270.3 | 269.2 | 275.1 | 285.3 | 299.4 | 319.9 | 357.6 | 405.9 | 474.9 | 535.0 | 551.8 |
| 52.5° | 240.3 | 240.7 | 243.8 | 250.7 | 261.9 | 278.7 | 304.4 | 346.8 | 403.2 | 465.4 | 500.7 |
| 55°   | 214.7 | 213.8 | 218.0 | 223.1 | 231.7 | 243.2 | 263.4 | 296.7 | 344.6 | 405.4 | 446.4 |
| 57.5° | 190.0 | 192.5 | 194.2 | 197.7 | 205.2 | 213.2 | 231.3 | 256.8 | 296.3 | 350.3 | 393.7 |
| 60°   | 168.9 | 171.3 | 172.6 | 176.1 | 181.9 | 188.5 | 201.7 | 221.6 | 253.5 | 298.5 | 341.5 |
| 62.5° | 149.9 | 151.7 | 151.9 | 155.0 | 159.4 | 165.8 | 175.5 | 191.4 | 214.9 | 252.9 | 294.7 |
| 65°   | 131.8 | 131.8 | 132.7 | 136.0 | 138.2 | 144.0 | 151.9 | 164.0 | 184.3 | 214.9 | 250.9 |
| 67.5° | 114.2 | 115.3 | 115.1 | 116.6 | 118.6 | 123.5 | 129.4 | 139.5 | 155.6 | 178.8 | 208.6 |
| 70°   | 97.0  | 97.9  | 97.7  | 98.8  | 101.0 | 103.8 | 108.5 | 117.9 | 128.7 | 147.9 | 172.6 |
| 72.5° | 81.6  | 81.8  | 81.1  | 82.7  | 83.8  | 86.2  | 91.5  | 95.5  | 105.4 | 120.8 | 140.0 |
| 75°   | 64.8  | 65.3  | 65.7  | 66.6  | 67.9  | 69.2  | 71.9  | 76.9  | 83.6  | 95.7  | 108.7 |
| 77.5° | 51.6  | 50.5  | 51.8  | 51.6  | 52.2  | 53.4  | 55.8  | 58.6  | 64.4  | 72.5  | 83.3  |
| 80°   | 36.6  | 36.8  | 36.8  | 37.0  | 38.1  | 38.8  | 40.8  | 42.8  | 47.0  | 52.7  | 59.7  |
| 82.5° | 24.3  | 24.9  | 24.5  | 24.9  | 25.8  | 26.2  | 27.1  | 28.7  | 30.6  | 34.8  | 39.5  |
| 85°   | 14.6  | 13.4  | 13.9  | 14.3  | 14.3  | 14.6  | 15.4  | 16.1  | 17.4  | 19.2  | 21.2  |
| 87.5° | 5.3   | 5.7   | 6.0   | 6.0   | 6.2   | 6.2   | 7.1   | 7.1   | 7.7   | 8.4   | 9.3   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |



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**CANDELA DISTRIBUTION (continued):**

|       | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   | 100°  | 105°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 519.4 | 519.4 | 519.4 | 519.4 | 519.4 | 519.4 | 519.4 | 519.4 | 519.4 | 519.4 | 519.4 |
| 2.5°  | 538.1 | 536.6 | 534.8 | 531.7 | 528.0 | 526.0 | 522.9 | 520.9 | 517.0 | 513.7 | 510.1 |
| 5°    | 561.5 | 555.8 | 550.5 | 543.6 | 536.1 | 531.3 | 525.6 | 519.2 | 512.6 | 505.7 | 498.2 |
| 7.5°  | 584.9 | 575.4 | 565.0 | 554.2 | 543.6 | 533.7 | 524.5 | 515.0 | 506.4 | 495.6 | 486.5 |
| 10°   | 608.5 | 595.7 | 582.0 | 565.9 | 550.3 | 536.6 | 522.7 | 510.6 | 498.2 | 485.0 | 473.3 |
| 12.5° | 632.0 | 614.0 | 593.2 | 575.2 | 555.5 | 538.4 | 521.4 | 505.1 | 488.7 | 473.8 | 459.6 |
| 15°   | 640.6 | 625.7 | 607.8 | 582.7 | 561.5 | 538.8 | 517.2 | 497.1 | 478.4 | 462.1 | 444.9 |
| 17.5° | 649.0 | 629.8 | 610.9 | 586.6 | 559.1 | 534.6 | 510.1 | 488.3 | 467.6 | 447.1 | 431.4 |
| 20°   | 651.0 | 631.2 | 611.1 | 587.5 | 559.1 | 530.0 | 505.5 | 477.9 | 455.2 | 433.9 | 413.6 |
| 22.5° | 650.3 | 627.2 | 604.9 | 580.5 | 552.9 | 526.7 | 495.8 | 467.6 | 442.5 | 421.5 | 400.1 |
| 25°   | 645.5 | 621.5 | 594.1 | 569.7 | 542.3 | 513.9 | 483.9 | 454.8 | 429.7 | 405.6 | 384.7 |
| 27.5° | 642.6 | 612.2 | 582.2 | 554.0 | 527.8 | 501.5 | 472.4 | 442.5 | 414.9 | 390.4 | 371.0 |
| 30°   | 636.2 | 602.1 | 567.2 | 537.5 | 510.4 | 485.0 | 457.9 | 428.8 | 399.7 | 375.9 | 354.7 |
| 32.5° | 630.5 | 589.3 | 552.0 | 519.0 | 489.9 | 465.4 | 440.9 | 413.6 | 385.1 | 360.9 | 339.7 |
| 35°   | 622.8 | 576.7 | 534.6 | 498.0 | 467.4 | 442.0 | 421.1 | 395.3 | 369.0 | 345.7 | 325.4 |
| 37.5° | 613.7 | 560.4 | 515.9 | 477.7 | 444.4 | 418.0 | 398.1 | 378.1 | 351.8 | 328.9 | 310.8 |
| 40°   | 602.7 | 542.8 | 494.9 | 455.7 | 420.8 | 393.1 | 375.0 | 356.3 | 335.3 | 314.4 | 295.0 |
| 42.5° | 588.8 | 526.9 | 473.8 | 430.8 | 396.4 | 369.5 | 350.3 | 335.1 | 317.2 | 298.1 | 280.4 |
| 45°   | 571.2 | 507.0 | 450.6 | 405.2 | 370.4 | 343.7 | 324.1 | 312.2 | 298.3 | 279.8 | 264.5 |
| 47.5° | 547.8 | 484.6 | 426.4 | 379.4 | 343.5 | 318.8 | 300.0 | 288.4 | 278.2 | 263.7 | 249.3 |
| 50°   | 514.5 | 458.8 | 399.7 | 353.2 | 317.2 | 292.3 | 275.3 | 265.0 | 256.6 | 246.0 | 234.3 |
| 52.5° | 477.3 | 426.4 | 373.5 | 327.6 | 292.1 | 267.6 | 251.1 | 242.3 | 235.7 | 228.8 | 217.4 |
| 55°   | 437.4 | 393.3 | 343.0 | 299.4 | 266.5 | 242.5 | 228.0 | 220.0 | 214.3 | 208.6 | 201.5 |
| 57.5° | 394.4 | 358.7 | 312.6 | 271.8 | 241.4 | 218.9 | 205.2 | 197.1 | 192.5 | 189.4 | 185.0 |
| 60°   | 348.5 | 319.0 | 280.6 | 244.3 | 214.7 | 195.3 | 182.1 | 176.1 | 172.4 | 170.0 | 166.9 |
| 62.5° | 306.0 | 283.1 | 248.2 | 215.8 | 190.9 | 172.8 | 161.4 | 155.6 | 152.1 | 151.2 | 148.8 |
| 65°   | 264.3 | 245.6 | 216.3 | 188.7 | 166.7 | 151.0 | 141.1 | 135.6 | 133.4 | 132.1 | 132.3 |
| 67.5° | 222.4 | 210.3 | 185.8 | 161.6 | 143.5 | 129.6 | 121.5 | 117.3 | 116.2 | 114.2 | 114.2 |
| 70°   | 184.7 | 176.1 | 156.3 | 135.8 | 120.1 | 110.0 | 103.0 | 98.5  | 97.4  | 96.6  | 96.3  |
| 72.5° | 151.5 | 144.2 | 127.6 | 112.2 | 98.5  | 89.9  | 84.4  | 82.2  | 80.2  | 79.8  | 79.8  |
| 75°   | 118.8 | 114.6 | 101.0 | 88.0  | 78.3  | 72.1  | 68.1  | 65.7  | 64.4  | 64.2  | 64.4  |
| 77.5° | 89.7  | 85.8  | 76.3  | 66.6  | 60.2  | 55.3  | 51.6  | 50.9  | 49.2  | 49.4  | 48.9  |
| 80°   | 63.5  | 61.1  | 55.6  | 48.3  | 43.2  | 39.2  | 37.5  | 35.9  | 35.5  | 34.8  | 35.5  |
| 82.5° | 41.7  | 39.0  | 35.7  | 31.7  | 27.8  | 25.8  | 24.0  | 23.8  | 23.6  | 23.4  | 23.4  |
| 85°   | 22.7  | 22.9  | 20.7  | 17.2  | 15.4  | 14.1  | 13.0  | 13.0  | 12.8  | 12.6  | 12.8  |
| 87.5° | 9.7   | 9.3   | 8.4   | 7.7   | 6.6   | 6.0   | 5.7   | 6.0   | 5.3   | 5.1   | 5.3   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |



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**CANDELA DISTRIBUTION (continued):**

|       | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  | 160°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 519.4 | 519.4 | 519.4 | 519.4 | 519.4 | 519.4 | 519.4 | 519.4 | 519.4 | 519.4 | 519.4 |
| 2.5°  | 508.1 | 505.7 | 503.7 | 499.3 | 496.9 | 493.6 | 491.0 | 493.8 | 490.7 | 492.1 | 490.1 |
| 5°    | 494.5 | 488.3 | 483.9 | 477.5 | 472.0 | 466.9 | 463.2 | 462.5 | 460.8 | 459.9 | 457.2 |
| 7.5°  | 478.2 | 471.1 | 463.8 | 455.9 | 449.3 | 442.2 | 438.0 | 434.1 | 431.7 | 428.6 | 426.1 |
| 10°   | 464.1 | 453.7 | 444.9 | 434.7 | 425.9 | 418.2 | 412.0 | 408.9 | 406.1 | 401.9 | 400.3 |
| 12.5° | 446.6 | 435.8 | 424.6 | 413.6 | 405.2 | 396.4 | 391.3 | 386.2 | 384.5 | 379.6 | 379.4 |
| 15°   | 433.4 | 417.3 | 406.7 | 395.7 | 384.0 | 377.0 | 372.6 | 367.5 | 365.3 | 362.0 | 359.6 |
| 17.5° | 417.1 | 402.6 | 389.3 | 378.1 | 367.5 | 361.8 | 356.0 | 352.5 | 348.8 | 346.3 | 342.4 |
| 20°   | 399.0 | 385.4 | 372.1 | 360.0 | 352.3 | 345.5 | 341.0 | 337.7 | 333.8 | 332.7 | 328.7 |
| 22.5° | 383.8 | 368.4 | 355.8 | 346.1 | 337.5 | 329.6 | 324.7 | 322.7 | 320.3 | 316.4 | 316.4 |
| 25°   | 367.1 | 351.4 | 340.6 | 330.5 | 323.0 | 315.9 | 312.6 | 309.7 | 307.1 | 304.7 | 303.8 |
| 27.5° | 352.9 | 339.1 | 325.8 | 316.6 | 310.2 | 303.6 | 300.7 | 297.0 | 295.0 | 293.0 | 290.3 |
| 30°   | 338.0 | 323.6 | 312.4 | 303.6 | 296.5 | 290.8 | 287.7 | 285.3 | 283.5 | 281.7 | 280.4 |
| 32.5° | 322.5 | 309.5 | 298.7 | 290.1 | 283.1 | 279.1 | 276.5 | 274.9 | 272.9 | 270.7 | 269.0 |
| 35°   | 309.3 | 294.7 | 284.2 | 276.7 | 271.2 | 267.9 | 264.8 | 263.2 | 261.0 | 261.0 | 259.3 |
| 37.5° | 293.6 | 280.9 | 271.4 | 264.5 | 259.7 | 256.6 | 253.1 | 252.2 | 250.7 | 249.8 | 249.1 |
| 40°   | 280.0 | 268.3 | 259.5 | 252.6 | 247.4 | 244.9 | 242.3 | 240.5 | 239.6 | 238.5 | 238.1 |
| 42.5° | 265.9 | 254.8 | 246.5 | 240.3 | 235.9 | 233.9 | 231.5 | 230.4 | 228.4 | 226.8 | 226.6 |
| 45°   | 251.5 | 240.7 | 233.0 | 228.0 | 224.0 | 221.6 | 220.0 | 217.4 | 216.5 | 214.7 | 214.5 |
| 47.5° | 238.3 | 227.7 | 220.0 | 215.8 | 212.3 | 210.5 | 208.1 | 205.2 | 204.1 | 203.0 | 202.8 |
| 50°   | 223.1 | 213.6 | 206.6 | 202.6 | 199.3 | 196.4 | 194.0 | 192.2 | 191.6 | 191.6 | 192.0 |
| 52.5° | 207.7 | 200.0 | 194.2 | 189.2 | 186.1 | 183.0 | 180.8 | 179.9 | 178.8 | 180.1 | 181.0 |
| 55°   | 192.7 | 184.5 | 180.1 | 175.5 | 172.4 | 168.9 | 167.8 | 167.3 | 166.7 | 168.4 | 169.3 |
| 57.5° | 176.6 | 171.1 | 165.8 | 160.9 | 158.3 | 156.1 | 154.3 | 154.1 | 155.4 | 155.9 | 158.5 |
| 60°   | 161.4 | 154.8 | 150.1 | 146.6 | 143.3 | 142.0 | 141.5 | 141.1 | 142.0 | 144.4 | 148.1 |
| 62.5° | 144.6 | 139.5 | 134.5 | 132.1 | 129.8 | 127.4 | 127.4 | 127.9 | 129.8 | 132.7 | 136.5 |
| 65°   | 128.3 | 123.7 | 120.4 | 117.3 | 115.3 | 114.0 | 114.4 | 115.3 | 117.3 | 121.0 | 125.2 |
| 67.5° | 111.6 | 108.5 | 105.4 | 102.5 | 100.5 | 100.7 | 101.0 | 102.1 | 104.5 | 108.9 | 112.9 |
| 70°   | 95.5  | 91.9  | 89.5  | 88.4  | 86.9  | 86.0  | 87.3  | 89.5  | 91.5  | 95.5  | 98.8  |
| 72.5° | 79.4  | 76.5  | 74.7  | 74.1  | 73.6  | 73.0  | 73.2  | 75.6  | 78.5  | 82.5  | 86.4  |
| 75°   | 63.5  | 62.4  | 61.1  | 60.2  | 59.5  | 60.0  | 60.4  | 62.6  | 64.8  | 69.0  | 73.4  |
| 77.5° | 49.2  | 47.8  | 47.0  | 46.7  | 46.3  | 46.5  | 47.6  | 49.4  | 51.6  | 54.7  | 58.2  |
| 80°   | 35.1  | 34.6  | 34.2  | 34.0  | 34.0  | 34.2  | 35.9  | 37.0  | 39.0  | 41.9  | 44.5  |
| 82.5° | 23.1  | 22.9  | 22.9  | 22.9  | 23.1  | 23.1  | 24.0  | 25.6  | 27.1  | 29.1  | 31.3  |
| 85°   | 13.4  | 13.0  | 13.7  | 13.9  | 13.4  | 14.1  | 14.6  | 15.4  | 16.1  | 17.2  | 18.3  |
| 87.5° | 5.5   | 6.0   | 5.7   | 6.0   | 6.0   | 6.4   | 6.2   | 7.1   | 7.5   | 7.9   | 7.7   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |



TEST NUMBER: P242815

CATALOG NUMBER: S125DRP-S375D840-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

|       | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|
| 0°    | 519.4 | 519.4 | 519.4 | 519.4 |
| 2.5°  | 488.7 | 490.3 | 489.0 | 490.7 |
| 5°    | 456.1 | 454.1 | 455.5 | 454.6 |
| 7.5°  | 425.9 | 424.2 | 421.5 | 420.6 |
| 10°   | 397.9 | 395.5 | 395.3 | 393.7 |
| 12.5° | 377.4 | 375.2 | 372.1 | 371.7 |
| 15°   | 358.2 | 356.5 | 354.9 | 356.3 |
| 17.5° | 341.9 | 340.4 | 339.9 | 338.6 |
| 20°   | 326.7 | 325.6 | 326.1 | 323.2 |
| 22.5° | 314.6 | 312.2 | 311.7 | 311.7 |
| 25°   | 301.8 | 300.7 | 299.6 | 300.7 |
| 27.5° | 290.6 | 289.5 | 289.0 | 289.2 |
| 30°   | 280.4 | 278.2 | 278.4 | 278.2 |
| 32.5° | 269.4 | 268.1 | 267.6 | 267.2 |
| 35°   | 258.6 | 258.6 | 257.5 | 257.5 |
| 37.5° | 248.7 | 248.5 | 247.8 | 248.2 |
| 40°   | 237.2 | 237.0 | 236.3 | 235.0 |
| 42.5° | 226.2 | 225.3 | 225.1 | 224.9 |
| 45°   | 214.5 | 214.5 | 214.1 | 213.8 |
| 47.5° | 203.0 | 203.5 | 204.4 | 204.1 |
| 50°   | 192.9 | 193.1 | 193.8 | 194.0 |
| 52.5° | 181.7 | 183.2 | 184.1 | 183.9 |
| 55°   | 171.3 | 172.8 | 174.4 | 174.6 |
| 57.5° | 160.9 | 162.9 | 164.5 | 164.9 |
| 60°   | 150.4 | 153.2 | 155.2 | 156.1 |
| 62.5° | 140.2 | 143.5 | 145.5 | 145.5 |
| 65°   | 129.0 | 132.3 | 134.0 | 135.4 |
| 67.5° | 117.3 | 120.6 | 122.4 | 123.5 |
| 70°   | 104.3 | 107.6 | 110.2 | 111.1 |
| 72.5° | 91.5  | 94.4  | 96.3  | 97.4  |
| 75°   | 76.3  | 80.2  | 82.2  | 83.3  |
| 77.5° | 61.7  | 65.7  | 66.8  | 67.5  |
| 80°   | 47.2  | 49.4  | 50.9  | 51.1  |
| 82.5° | 33.5  | 35.3  | 35.5  | 36.2  |
| 85°   | 19.8  | 20.7  | 20.9  | 20.7  |
| 87.5° | 8.2   | 7.9   | 7.9   | 8.4   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   |



TEST NUMBER: P242815  
 CATALOG NUMBER: S125DRP-S375D840-X4F0-XX-UDD-A-W

**CIE UGR TABLE:**

| Reflectances:   |      |                  |       |       |       |       |                |       |       |       |       |
|-----------------|------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Ceiling         |      | 0.7              | 0.7   | 0.5   | 0.5   | 0.3   | 0.7            | 0.7   | 0.5   | 0.5   | 0.3   |
| Wall            |      | 0.5              | 0.3   | 0.5   | 0.3   | 0.3   | 0.5            | 0.3   | 0.5   | 0.3   | 0.3   |
| Reference plane |      | 0.2              | 0.2   | 0.2   | 0.2   | 0.2   | 0.2            | 0.2   | 0.2   | 0.2   | 0.2   |
| Room dimensions |      | Viewed crosswise |       |       |       |       | Viewed endwise |       |       |       |       |
| X=2H            | Y=2H | 15.19            | 16.76 | 15.56 | 17.07 | 17.39 | 15.17          | 16.74 | 15.53 | 17.05 | 17.36 |
|                 | 3H   | 16.56            | 17.97 | 16.94 | 18.30 | 18.66 | 16.60          | 18.01 | 16.97 | 18.33 | 18.69 |
|                 | 4H   | 17.06            | 18.38 | 17.46 | 18.73 | 19.11 | 17.08          | 18.41 | 17.48 | 18.76 | 19.13 |
|                 | 6H   | 17.39            | 18.62 | 17.81 | 18.99 | 19.38 | 17.40          | 18.62 | 17.81 | 18.99 | 19.38 |
|                 | 8H   | 17.49            | 18.65 | 17.91 | 19.04 | 19.44 | 17.48          | 18.65 | 17.90 | 19.04 | 19.44 |
|                 | 12H  | 17.53            | 18.65 | 17.96 | 19.03 | 19.46 | 17.52          | 18.64 | 17.95 | 19.02 | 19.45 |
| 4H              | 2H   | 16.70            | 18.02 | 17.10 | 18.37 | 18.75 | 16.25          | 17.57 | 16.64 | 17.92 | 18.30 |
|                 | 3H   | 18.05            | 19.15 | 18.46 | 19.55 | 19.95 | 17.91          | 19.01 | 18.32 | 19.41 | 19.81 |
|                 | 4H   | 18.55            | 19.55 | 18.98 | 19.96 | 20.40 | 18.46          | 19.46 | 18.89 | 19.87 | 20.31 |
|                 | 6H   | 18.93            | 19.79 | 19.38 | 20.23 | 20.69 | 18.84          | 19.70 | 19.29 | 20.14 | 20.60 |
|                 | 8H   | 19.03            | 19.84 | 19.49 | 20.28 | 20.75 | 18.93          | 19.74 | 19.39 | 20.19 | 20.65 |
|                 | 12H  | 19.09            | 19.82 | 19.57 | 20.29 | 20.76 | 18.99          | 19.71 | 19.47 | 20.19 | 20.66 |
| 8H              | 4H   | 19.04            | 19.85 | 19.50 | 20.29 | 20.76 | 18.80          | 19.61 | 19.27 | 20.06 | 20.52 |
|                 | 6H   | 19.49            | 20.16 | 19.98 | 20.65 | 21.13 | 19.31          | 19.98 | 19.80 | 20.47 | 20.94 |
|                 | 8H   | 19.63            | 20.23 | 20.14 | 20.74 | 21.23 | 19.45          | 20.05 | 19.96 | 20.56 | 21.05 |
|                 | 12H  | 19.73            | 20.27 | 20.24 | 20.76 | 21.32 | 19.55          | 20.08 | 20.06 | 20.57 | 21.14 |
| 12H             | 4H   | 19.08            | 19.81 | 19.57 | 20.29 | 20.76 | 18.82          | 19.55 | 19.30 | 20.02 | 20.49 |
|                 | 6H   | 19.57            | 20.17 | 20.08 | 20.68 | 21.17 | 19.35          | 19.96 | 19.86 | 20.46 | 20.95 |
|                 | 8H   | 19.76            | 20.29 | 20.27 | 20.79 | 21.35 | 19.56          | 20.09 | 20.07 | 20.58 | 21.15 |