

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: P334419

Luminaire Tested: **S125RDP-S1270D840-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334419
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125RDP-S1270D840-4F0-1E-UDD-F
Description: DEFINE 5 REGRESSED DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 1270 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

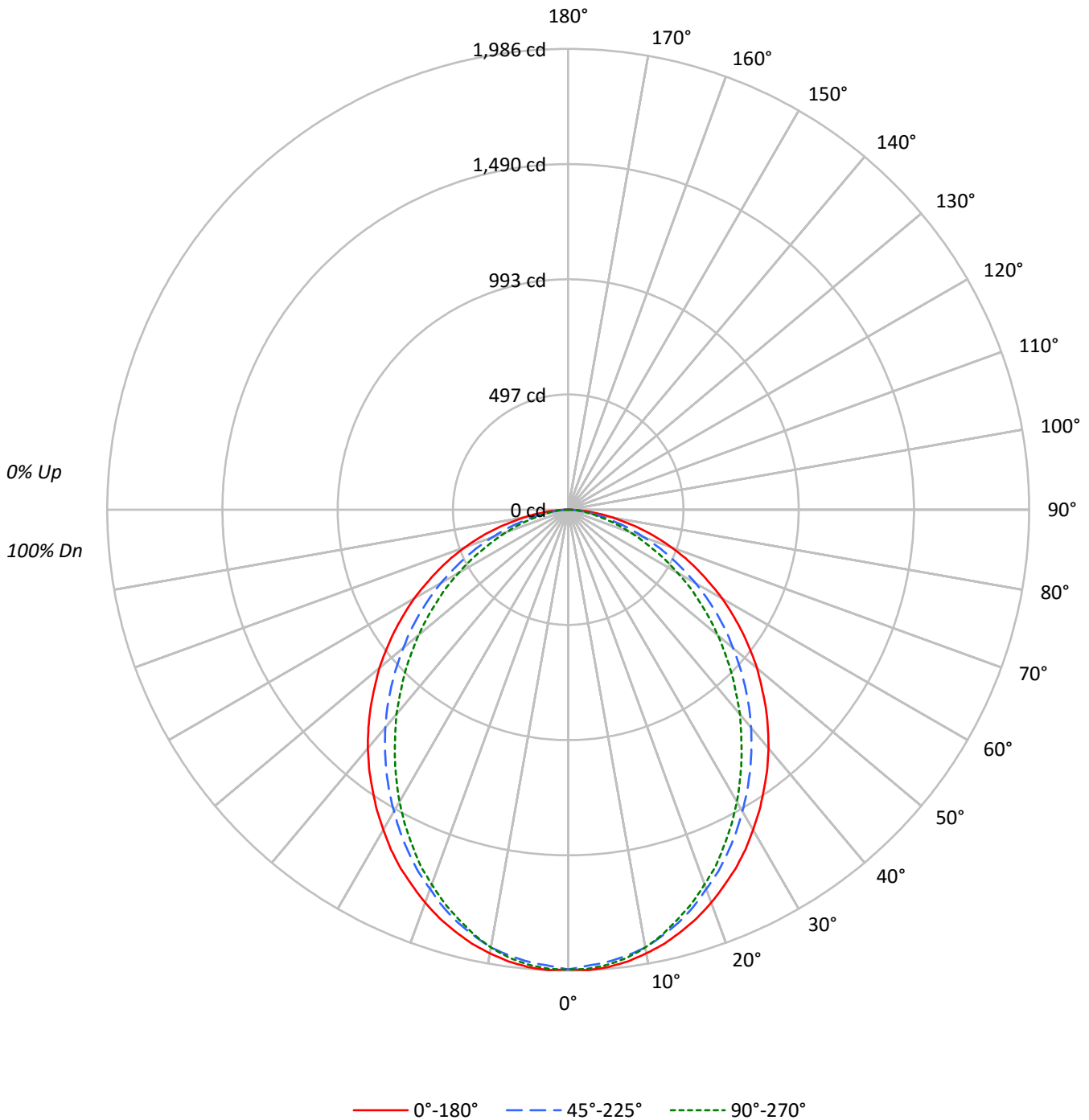
Lumens per Lamp: N/A
Luminaire Lumens: 4681.9 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.1
Input Voltage (V): 120
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





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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 | 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 | 79 | 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 | 64 | 57 | 69 | 62 | 57 | 67 | 61 | 56 | 64 | 59 | 55 | 53 | | | | | 53 | | | |
| 5 | 78 | 65 | 57 | 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 | 44 | 55 | 48 | 43 | 53 | 47 | 43 | 41 | | | | | 41 | | | |
| 7 | 67 | 54 | 45 | 39 | 65 | 53 | 45 | 39 | 51 | 44 | 39 | 50 | 43 | 39 | 49 | 43 | 38 | 36 | | | | | 36 | | | |
| 8 | 62 | 49 | 41 | 35 | 61 | 48 | 41 | 35 | 47 | 40 | 35 | 46 | 39 | 35 | 45 | 39 | 34 | 33 | | | | | 33 | | | |
| 9 | 58 | 45 | 37 | 32 | 57 | 45 | 37 | 32 | 44 | 37 | 32 | 42 | 36 | 31 | 41 | 36 | 31 | 29 | | | | | 29 | | | |
| 10 | 55 | 42 | 34 | 29 | 54 | 41 | 34 | 29 | 40 | 34 | 29 | 39 | 33 | 29 | 39 | 33 | 29 | 27 | | | | | 27 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 12798 | 12798 | 12798 |
| 5° | 12827 | 12682 | 12760 |
| 10° | 12730 | 12564 | 12564 |
| 15° | 12579 | 12309 | 12209 |
| 20° | 12385 | 11953 | 11809 |
| 25° | 12158 | 11604 | 11348 |
| 30° | 11876 | 11195 | 10838 |
| 35° | 11588 | 10774 | 10266 |
| 40° | 11318 | 10334 | 9704 |
| 45° | 10990 | 9842 | 9091 |
| 50° | 10662 | 9309 | 8451 |
| 55° | 10280 | 8797 | 7769 |
| 60° | 9898 | 8178 | 7037 |
| 65° | 9446 | 7456 | 6198 |
| 70° | 8932 | 6556 | 5342 |
| 75° | 8217 | 5527 | 4444 |
| 80° | 7238 | 4340 | 3730 |
| 85° | 6099 | 3549 | 3327 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 186.5 | 4.0 |
| 10°-20° | 521.2 | 11.1 |
| 20°-30° | 755.7 | 16.1 |
| 30°-40° | 861.0 | 18.4 |
| 40°-50° | 839.2 | 17.9 |
| 50°-60° | 706.3 | 15.1 |
| 60°-70° | 494.9 | 10.6 |
| 70°-80° | 253.7 | 5.4 |
| 80°-90° | 63.3 | 1.4 |
| 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° | 1463.5 | 31.3 |
| 0°-40° | 2324.5 | 49.6 |
| 0°-60° | 3869.9 | 82.7 |
| 0°-90° | 4681.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4681.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1982 | 1982 | 1982 | 1982 | 1982 | |
| 5° | 1979 | 1973 | 1956 | 1971 | 1968 | 188 |
| 15° | 1881 | 1872 | 1841 | 1839 | 1826 | 530 |
| 25° | 1706 | 1684 | 1628 | 1609 | 1592 | 785 |
| 35° | 1470 | 1434 | 1366 | 1323 | 1302 | 920 |
| 45° | 1203 | 1160 | 1078 | 1018 | 995 | 928 |
| 55° | 913 | 865 | 781 | 714 | 690 | 816 |
| 65° | 618 | 567 | 488 | 428 | 406 | 612 |
| 75° | 329 | 284 | 222 | 189 | 178 | 348 |
| 85° | 82 | 55 | 48 | 46 | 45 | 95 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P334419

CATALOG NUMBER: S125RDP-S1270D840-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1981.6 | 1981.6 | 1981.6 | 1981.6 | 1981.6 |
| 2.5° | 1986.1 | 1981.6 | 1966.7 | 1981.6 | 1980.1 |
| 5° | 1978.6 | 1972.6 | 1956.2 | 1971.2 | 1968.2 |
| 7.5° | 1963.7 | 1957.7 | 1938.2 | 1950.2 | 1947.2 |
| 10° | 1941.2 | 1936.7 | 1915.8 | 1920.3 | 1915.8 |
| 12.5° | 1915.8 | 1909.8 | 1879.9 | 1882.8 | 1875.4 |
| 15° | 1881.3 | 1872.4 | 1840.9 | 1839.4 | 1826.0 |
| 17.5° | 1845.4 | 1832.0 | 1794.5 | 1787.1 | 1776.6 |
| 20° | 1802.0 | 1787.1 | 1739.2 | 1731.7 | 1718.2 |
| 22.5° | 1754.1 | 1739.2 | 1688.3 | 1671.8 | 1661.3 |
| 25° | 1706.2 | 1683.8 | 1628.4 | 1609.0 | 1592.5 |
| 27.5° | 1652.4 | 1625.4 | 1567.0 | 1541.6 | 1525.1 |
| 30° | 1592.5 | 1564.0 | 1501.2 | 1466.8 | 1453.3 |
| 32.5° | 1534.1 | 1499.7 | 1435.3 | 1396.4 | 1378.5 |
| 35° | 1469.8 | 1433.8 | 1366.5 | 1323.1 | 1302.1 |
| 37.5° | 1408.4 | 1365.0 | 1296.1 | 1245.3 | 1224.3 |
| 40° | 1342.5 | 1297.6 | 1225.8 | 1168.9 | 1151.0 |
| 42.5° | 1273.7 | 1227.3 | 1152.5 | 1098.6 | 1070.1 |
| 45° | 1203.3 | 1159.9 | 1077.6 | 1017.8 | 995.3 |
| 47.5° | 1130.0 | 1085.1 | 1002.8 | 941.4 | 916.0 |
| 50° | 1061.2 | 1011.8 | 926.5 | 863.6 | 841.1 |
| 52.5° | 986.3 | 935.4 | 856.1 | 787.3 | 764.8 |
| 55° | 913.0 | 865.1 | 781.3 | 713.9 | 690.0 |
| 57.5° | 838.2 | 787.3 | 706.4 | 640.6 | 619.6 |
| 60° | 766.3 | 713.9 | 633.1 | 567.2 | 544.8 |
| 62.5° | 690.0 | 640.6 | 558.3 | 498.4 | 475.9 |
| 65° | 618.1 | 567.2 | 487.9 | 428.1 | 405.6 |
| 67.5° | 546.3 | 495.4 | 419.1 | 362.2 | 344.2 |
| 70° | 473.0 | 422.1 | 347.2 | 300.8 | 282.9 |
| 72.5° | 401.1 | 351.7 | 282.9 | 241.0 | 230.5 |
| 75° | 329.3 | 284.4 | 221.5 | 188.6 | 178.1 |
| 77.5° | 255.9 | 220.0 | 167.6 | 142.2 | 133.2 |
| 80° | 194.6 | 158.6 | 116.7 | 103.3 | 100.3 |
| 82.5° | 134.7 | 103.3 | 77.8 | 73.3 | 71.8 |
| 85° | 82.3 | 55.4 | 47.9 | 46.4 | 44.9 |
| 87.5° | 34.4 | 23.9 | 22.5 | 22.5 | 21.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)