

LUMINAIRE: CRW4-LSCS (3500K, 34W)
CRW Round Wrap, Wraps
CRW Round Wrap 4ft 3500K 34W
Data Scaled from Test# 23877

BALLAST: EDU
BALLAST FACTOR: 1.00
LAMP:
FIXTURE LUMENS: 4567
WATTS: 33.35
MOUNTING: Surface
SHIELDING ANGLE: 0° = 90 90° = 90
SPACING CRITERION: 0° = 1.20 90° = 1.25
LUMINOUS OPENING IN FEET
LENGTH: 3.80
WIDTH: 0.77
HEIGHT: 0.00

TEST #23882

DATE: 1/22/2020

TOTAL LUMINAIRE EFFICIENCY = 100.0

TOTAL LUMENS PER WATT = 137

ANSI/IESNA RP-1-2004 COMPLIANCE: NONCOMPLIANT

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$1.74

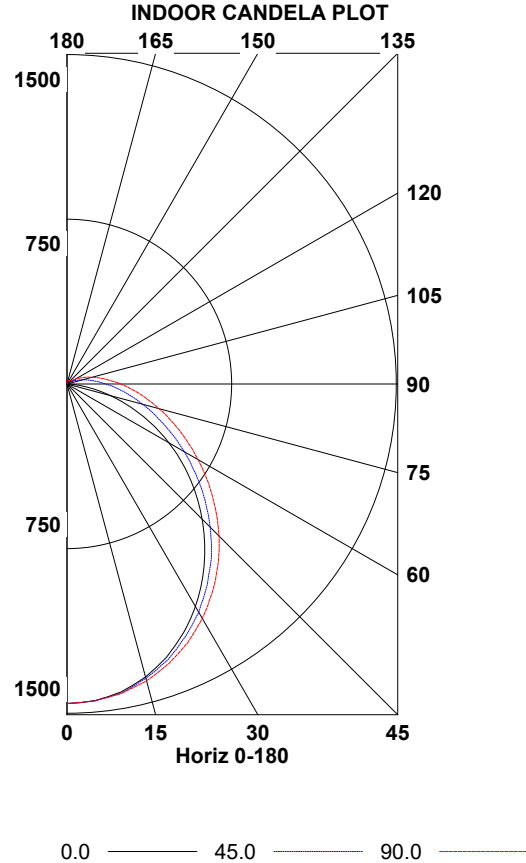
BASED ON 3000 HRS. AND \$.08 PER KWH

ZONAL LUMENS

| ZONE | LUMENS | % LAMP | % FIXTURE |
|--------|--------|--------|-----------|
| 0-30 | 1117 | 24.5 | 24.5 |
| 0-40 | 1815 | 39.7 | 39.7 |
| 0-60 | 3173 | 69.5 | 69.5 |
| 0-90 | 4277 | 93.7 | 93.7 |
| 90-120 | 239 | 5.2 | 5.2 |
| 90-130 | 256 | 5.6 | 5.6 |
| 90-150 | 275 | 6.0 | 6.0 |
| 90-180 | 290 | 6.3 | 6.3 |
| 0-180 | 4567 | 100.0 | 100.0 |

AVERAGE LUMINANCE

| ANGLE | CANDELA/SQ M | | | | |
|-------|--------------|------|------|-------|-------|
| | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 |
| 0 | 5353 | 5353 | 5353 | 5353 | 5353 |
| 30 | 4970 | 5012 | 5097 | 5199 | 5233 |
| 40 | 4692 | 4759 | 4913 | 5086 | 5138 |
| 45 | 4526 | 4615 | 4797 | 5020 | 5098 |
| 50 | 4355 | 4464 | 4693 | 4973 | 5053 |
| 55 | 4162 | 4284 | 4599 | 4951 | 5041 |
| 60 | 3944 | 4105 | 4540 | 4966 | 5077 |
| 65 | 3682 | 3934 | 4535 | 5084 | 5205 |
| 70 | 3334 | 3808 | 4668 | 5335 | 5518 |
| 75 | 2914 | 3795 | 5060 | 5956 | 6169 |
| 80 | 2352 | 4110 | 6101 | 7415 | 7711 |
| 85 | 1731 | 5741 | 9666 | 12157 | 12663 |



COEFFICIENTS OF UTILIZATION (%)

| RC | EFFECTIVE FLOOR CAVITY REFLECTANCE = 20% | | | | | | | | | | | | | | | | | | | | |
|----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|--|
| | 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% | | |
| 0 | 118 | 118 | 118 | 118 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 102 | 102 | 102 | 96 | 96 | 96 | 96 | 94 | | |
| 1 | 106 | 101 | 96 | 91 | 102 | 98 | 93 | 89 | 92 | 89 | 85 | 87 | 84 | 82 | 82 | 80 | 80 | 78 | 75 | | |
| 2 | 96 | 87 | 80 | 74 | 93 | 85 | 78 | 72 | 80 | 74 | 70 | 76 | 71 | 67 | 72 | 68 | 65 | 62 | | | |
| 3 | 87 | 76 | 68 | 61 | 84 | 74 | 66 | 60 | 70 | 64 | 58 | 67 | 61 | 56 | 63 | 59 | 54 | 52 | | | |
| R | 4 | 80 | 67 | 58 | 51 | 77 | 66 | 57 | 51 | 62 | 55 | 49 | 59 | 53 | 48 | 56 | 51 | 47 | 44 | | |
| C | 5 | 73 | 60 | 51 | 44 | 71 | 59 | 50 | 44 | 56 | 48 | 43 | 53 | 47 | 42 | 51 | 45 | 41 | 38 | | |
| R | 6 | 68 | 54 | 45 | 39 | 65 | 53 | 44 | 38 | 50 | 43 | 37 | 48 | 42 | 36 | 46 | 40 | 36 | 33 | | |
| | 7 | 63 | 49 | 40 | 34 | 61 | 48 | 40 | 34 | 46 | 38 | 33 | 44 | 37 | 32 | 42 | 36 | 32 | 30 | | |
| | 8 | 58 | 45 | 36 | 30 | 57 | 44 | 36 | 30 | 42 | 35 | 29 | 40 | 34 | 29 | 39 | 33 | 28 | 26 | | |
| | 9 | 55 | 41 | 33 | 27 | 53 | 40 | 32 | 27 | 39 | 32 | 27 | 37 | 31 | 26 | 36 | 30 | 26 | 24 | | |
| | 10 | 51 | 38 | 30 | 25 | 50 | 37 | 30 | 24 | 36 | 29 | 24 | 34 | 28 | 24 | 33 | 27 | 23 | 21 | | |

RCR = ROOM CAVITY RATIO RC = EFFECTIVE CEILING CAVITY REFLECTANCE RW = WALL REFLECTANCE

THE DATA IN THIS REPORT ARE BASED ON ABSOLUTE MEASUREMENTS.

ANSI/IESNA RP-1 COMPLIANCE IS BASED ON ABSOLUTE MEASUREMENTS.

THIS TEST RUN IN ACCORDANCE WITH CURRENT I.E.S.N.A. PUBLISHED PROCEDURES.

APPROVED BY: _____

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CRW Round Wrap, Wraps
CRW Round Wrap 4ft 3500K 34W
Data Scaled from Test# 23877

TEST #23882
DATE: 1/22/2020

CANDELA VALUES

| ANGLE | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 |
|-------|-------|------|------|------|------|
| 0.0 | 1455* | 1455 | 1455 | 1455 | 1455 |
| 2.5 | 1452 | 1451 | 1452 | 1451 | 1452 |
| 5.0 | 1448 | 1447 | 1448 | 1447 | 1449 |
| 7.5 | 1436 | 1435 | 1438 | 1437 | 1439 |
| 10.0 | 1423 | 1423 | 1429 | 1426 | 1429 |
| 12.5 | 1402 | 1403 | 1408 | 1410 | 1414 |
| 15.0 | 1381 | 1383 | 1388 | 1394 | 1399 |
| 17.5 | 1353 | 1355 | 1363 | 1373 | 1377 |
| 20.0 | 1324 | 1328 | 1338 | 1352 | 1355 |
| 22.5 | 1288 | 1293 | 1305 | 1322 | 1327 |
| 25.0 | 1252 | 1259 | 1272 | 1293 | 1300 |
| 27.5 | 1211 | 1220 | 1236 | 1259 | 1266 |
| 30.0 | 1170 | 1180 | 1200 | 1224 | 1232 |
| 32.5 | 1123 | 1134 | 1157 | 1185 | 1194 |
| 35.0 | 1077 | 1088 | 1114 | 1146 | 1155 |
| 37.5 | 1027 | 1040 | 1068 | 1102 | 1113 |
| 40.0 | 977 | 991 | 1023 | 1059 | 1070 |
| 42.5 | 923 | 939 | 973 | 1012 | 1025 |
| 45.0 | 870 | 887 | 922 | 965 | 980 |
| 47.5 | 815 | 834 | 871 | 917 | 931 |
| 50.0 | 761 | 780 | 820 | 869 | 883 |
| 52.5 | 705 | 724 | 769 | 821 | 834 |
| 55.0 | 649 | 668 | 717 | 772 | 786 |
| 57.5 | 593 | 613 | 667 | 724 | 738 |
| 60.0 | 536 | 558 | 617 | 675 | 690 |
| 62.5 | 479 | 505 | 569 | 630 | 644 |
| 65.0 | 423 | 452 | 521 | 584 | 598 |
| 67.5 | 367 | 403 | 477 | 540 | 556 |
| 70.0 | 310 | 354 | 434 | 496 | 513 |
| 72.5 | 257 | 310 | 395 | 458 | 474 |
| 75.0 | 205 | 267 | 356 | 419 | 434 |
| 77.5 | 158 | 231 | 322 | 385 | 399 |
| 80.0 | 111 | 194 | 288 | 350 | 364 |
| 82.5 | 76 | 165 | 258 | 319 | 332 |
| 85.0 | 41 | 136 | 229 | 288 | 300 |
| 87.5 | 25 | 113 | 203 | 261 | 272 |
| 90.0 | 8 | 90 | 178 | 234 | 245 |
| 92.5 | 5 | 74 | 157 | 210 | 221 |
| 95.0 | 1 | 57 | 136 | 187 | 196 |
| 97.5 | 1 | 46 | 119 | 167 | 175 |
| 100.0 | 1 | 34 | 102 | 147 | 154 |
| 102.5 | 1 | 27 | 87 | 129 | 137 |
| 105.0 | 2 | 19 | 72 | 112 | 119 |
| 107.5 | 3 | 15 | 61 | 98 | 104 |
| 110.0 | 4 | 11 | 50 | 83 | 89 |
| 112.5 | 4 | 9 | 41 | 72 | 77 |
| 115.0 | 5 | 7 | 33 | 60 | 64 |
| 117.5 | 6 | 7 | 27 | 51 | 55 |
| 120.0 | 6 | 7 | 22 | 42 | 45 |
| 122.5 | 7 | 8 | 19 | 35 | 38 |
| 125.0 | 8 | 8 | 15 | 28 | 31 |
| 127.5 | 9 | 9 | 14 | 24 | 27 |
| 130.0 | 10 | 9 | 12 | 20 | 22 |
| 132.5 | 10 | 11 | 12 | 18 | 20 |
| 135.0 | 11 | 11 | 12 | 16 | 17 |
| 137.5 | 12 | 12 | 12 | 15 | 16 |
| 140.0 | 12 | 13 | 13 | 14 | 15 |
| 142.5 | 13 | 14 | 14 | 15 | 15 |
| 145.0 | 13 | 15 | 14 | 15 | 15 |
| 147.5 | 14 | 16 | 15 | 15 | 16 |
| 150.0 | 14 | 16 | 16 | 16 | 16 |
| 152.5 | 15 | 17 | 17 | 17 | 17 |
| 155.0 | 16 | 17 | 18 | 18 | 17 |
| 157.5 | 17 | 18 | 18 | 18 | 17 |
| 160.0 | 17 | 18 | 19 | 19 | 17 |
| 162.5 | 17 | 18 | 19 | 19 | 17 |
| 165.0 | 18 | 18 | 19 | 19 | 16 |
| 167.5 | 18 | 18 | 19 | 18 | 17 |
| 170.0 | 19 | 18 | 20 | 16 | 17 |
| 172.5 | 20 | 19 | 19 | 17 | 18 |
| 175.0 | 20 | 20 | 19 | 19 | 19 |
| 177.5 | 10 | 10 | 9 | 9 | 10 |
| 180.0 | 0 | 0 | 0 | 0 | 0 |

*MAXIMUM CANDELA VALUE