

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: METALUX

Report Number: P588643

Luminaire Tested: **FM15WRCCR-5000K**

Issue Date: 12/1/2021

Test Information

Test Method: LM-79-08
Report Number: P588643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (MXL1053-15A)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 12/1/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: FM15WRCCR-5000K
Description: FM WR CCT SELECT
Light Source: (1) 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

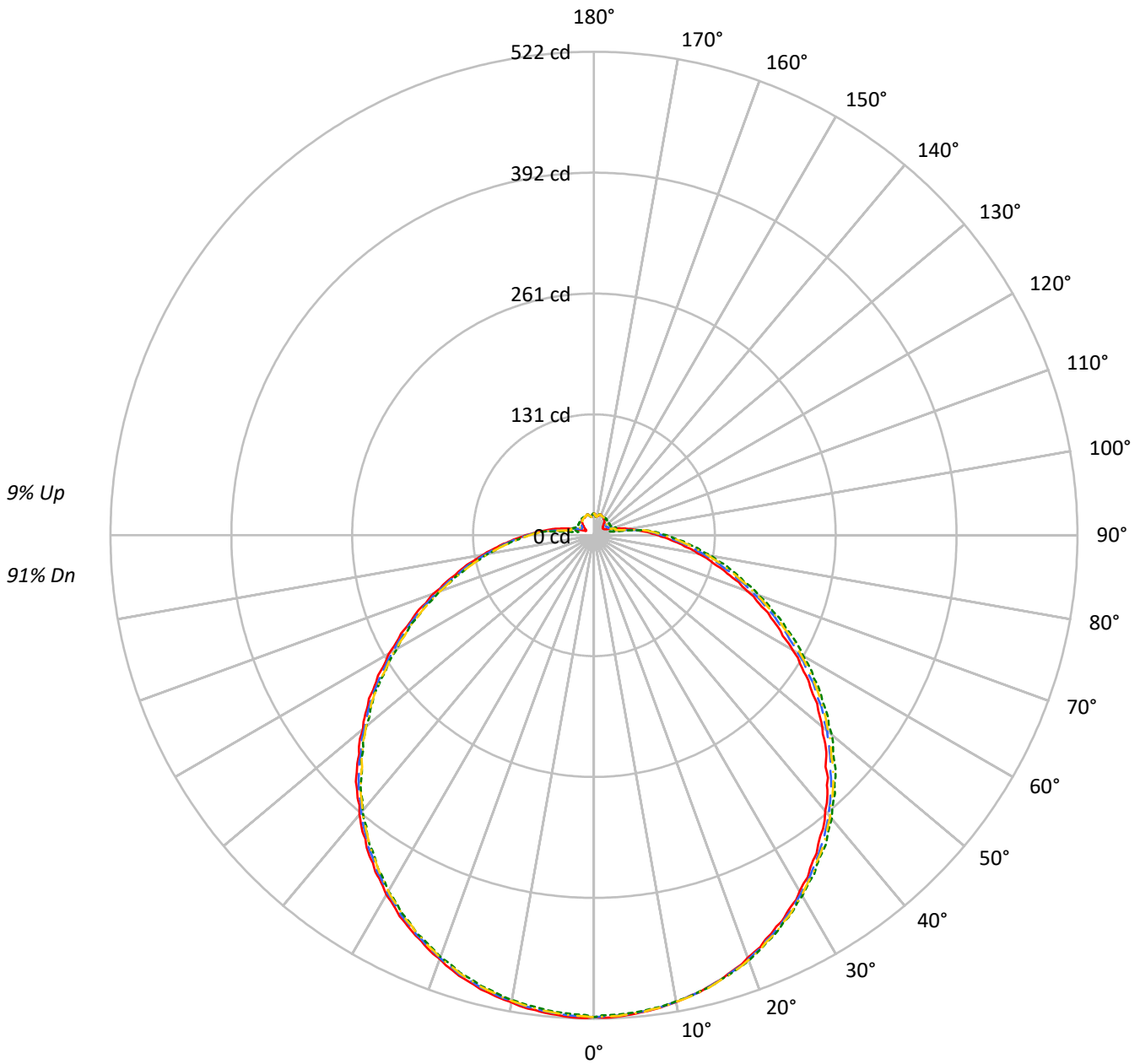
Lumens per Lamp: N/A
Luminaire Lumens: 1846.0 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Vertical Cylinder (Dia: 1.25m x H: 0.34m)
CIE Type: Direct

Input Watts (W): 22.2
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: 24 FT



TEST NUMBER: P588643
CATALOG NUMBER: FM15WRCCR-5000K

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - · - 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|
| RF | 20 | | | | 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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | | |
| 0 | 117 | 117 | 117 | 117 | 113 | 113 | 113 | 113 | 106 | 106 | 106 | 100 | 100 | 100 | 94 | 94 | 94 | 94 | 94 | 94 | 91 |
| 1 | 105 | 99 | 94 | 90 | 101 | 96 | 92 | 87 | 90 | 86 | 83 | 85 | 82 | 79 | 80 | 77 | 75 | 75 | 75 | 75 | 72 |
| 2 | 95 | 86 | 78 | 72 | 91 | 83 | 76 | 70 | 78 | 72 | 67 | 73 | 68 | 64 | 69 | 65 | 62 | 62 | 62 | 62 | 59 |
| 3 | 86 | 75 | 66 | 59 | 83 | 72 | 64 | 58 | 68 | 61 | 56 | 64 | 58 | 54 | 60 | 56 | 52 | 52 | 52 | 52 | 49 |
| 4 | 78 | 66 | 57 | 50 | 75 | 64 | 55 | 49 | 60 | 53 | 47 | 57 | 51 | 45 | 54 | 48 | 44 | 44 | 44 | 44 | 41 |
| 5 | 72 | 59 | 49 | 42 | 69 | 57 | 48 | 42 | 54 | 46 | 40 | 51 | 44 | 39 | 48 | 42 | 38 | 38 | 38 | 38 | 36 |
| 6 | 66 | 53 | 43 | 37 | 64 | 51 | 43 | 36 | 48 | 41 | 35 | 46 | 39 | 34 | 44 | 38 | 33 | 33 | 33 | 33 | 31 |
| 7 | 61 | 48 | 39 | 32 | 59 | 46 | 38 | 32 | 44 | 37 | 31 | 42 | 35 | 30 | 40 | 34 | 29 | 29 | 29 | 29 | 27 |
| 8 | 57 | 43 | 35 | 29 | 55 | 42 | 34 | 28 | 40 | 33 | 28 | 38 | 32 | 27 | 36 | 31 | 26 | 26 | 26 | 26 | 24 |
| 9 | 53 | 40 | 31 | 26 | 51 | 39 | 31 | 25 | 37 | 30 | 25 | 35 | 29 | 24 | 34 | 28 | 24 | 24 | 24 | 24 | 22 |
| 10 | 50 | 37 | 29 | 23 | 48 | 36 | 28 | 23 | 34 | 27 | 22 | 33 | 26 | 22 | 31 | 26 | 21 | 21 | 21 | 21 | 20 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|-----|-----|------|------|
| 0° | 424 | 424 | 424 | 424 |
| 5° | 412 | 410 | 412 | 410 |
| 10° | 399 | 398 | 399 | 397 |
| 15° | 387 | 387 | 388 | 385 |
| 20° | 374 | 376 | 375 | 373 |
| 25° | 361 | 364 | 363 | 360 |
| 30° | 348 | 352 | 351 | 348 |
| 35° | 335 | 340 | 338 | 333 |
| 40° | 320 | 329 | 324 | 320 |
| 45° | 302 | 316 | 310 | 303 |
| 50° | 289 | 301 | 292 | 288 |
| 55° | 271 | 284 | 276 | 270 |
| 60° | 252 | 265 | 260 | 250 |
| 65° | 233 | 250 | 240 | 233 |
| 70° | 215 | 231 | 224 | 217 |
| 75° | 199 | 216 | 207 | 197 |
| 80° | 181 | 204 | 192 | 184 |
| 85° | 170 | 189 | 179 | 171 |



TEST NUMBER: P588643
 CATALOG NUMBER: FM15WRCCR-5000K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 49.2 | 2.7 |
| 10°-20° | 141.4 | 7.7 |
| 20°-30° | 215.8 | 11.7 |
| 30°-40° | 263.4 | 14.3 |
| 40°-50° | 277.9 | 15.1 |
| 50°-60° | 259.3 | 14.0 |
| 60°-70° | 214.7 | 11.6 |
| 70°-80° | 158.3 | 8.6 |
| 80°-90° | 103.6 | 5.6 |
| 90°-100° | 57.2 | 3.1 |
| 100°-110° | 26.6 | 1.4 |
| 110°-120° | 17.8 | 1.0 |
| 120°-130° | 14.5 | 0.8 |
| 130°-140° | 14.3 | 0.8 |
| 140°-150° | 13.3 | 0.7 |
| 150°-160° | 10.3 | 0.6 |
| 160°-170° | 6.4 | 0.3 |
| 170°-180° | 2.0 | 0.1 |
| 0°-30° | 406.4 | 22.0 |
| 0°-40° | 669.8 | 36.3 |
| 0°-60° | 1207.0 | 65.4 |
| 0°-90° | 1683.6 | 91.2 |
| 90°-120° | 101.6 | 5.5 |
| 90°-150° | 143.7 | 7.8 |
| 90°-180° | 162.0 | 8.8 |
| 0°-180° | 1846.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|-----|-----|------|------|------|------|
| 0° | 520 | 520 | 520 | 520 | 520 | |
| 5° | 518 | 517 | 519 | 516 | 518 | 49 |
| 15° | 501 | 502 | 502 | 498 | 501 | 141 |
| 25° | 466 | 471 | 469 | 465 | 466 | 215 |
| 35° | 419 | 425 | 423 | 416 | 419 | 262 |
| 45° | 354 | 369 | 362 | 354 | 354 | 275 |
| 55° | 285 | 299 | 291 | 285 | 285 | 255 |
| 65° | 211 | 226 | 217 | 211 | 211 | 209 |
| 75° | 145 | 158 | 151 | 144 | 145 | 153 |
| 85° | 90 | 101 | 95 | 91 | 90 | 79 |
| 90° | 69 | 78 | 74 | 70 | 69 | 38 |
| 95° | 52 | 59 | 55 | 48 | 52 | 40 |
| 105° | 28 | 20 | 28 | 22 | 28 | 31 |
| 115° | 16 | 22 | 12 | 21 | 16 | 16 |
| 125° | 12 | 21 | 11 | 20 | 12 | 11 |
| 135° | 14 | 21 | 18 | 21 | 14 | 11 |
| 145° | 20 | 22 | 22 | 22 | 20 | 12 |
| 155° | 22 | 22 | 22 | 22 | 22 | 10 |
| 165° | 23 | 24 | 23 | 22 | 23 | 6 |
| 175° | 22 | 20 | 21 | 22 | 22 | 2 |
| 180° | 23 | 23 | 23 | 23 | 23 | |



TEST NUMBER: P588643

CATALOG NUMBER: FM15WRCCR-5000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 90° | 180° | 270° | 360° |
|-----|-------|-------|-------|-------|-------|
| 0° | 520.3 | 520.3 | 520.3 | 520.3 | 520.3 |
| 1° | 521.1 | 518.4 | 521.5 | 518.1 | 521.1 |
| 2° | 520.9 | 518.4 | 521.2 | 517.7 | 520.9 |
| 3° | 520.2 | 518.0 | 520.9 | 517.4 | 520.2 |
| 4° | 519.4 | 517.4 | 519.8 | 516.7 | 519.4 |
| 5° | 518.4 | 517.0 | 519.0 | 516.0 | 518.4 |
| 6° | 517.3 | 516.1 | 518.3 | 514.8 | 517.3 |
| 7° | 516.4 | 514.8 | 516.7 | 513.4 | 516.4 |
| 8° | 515.0 | 514.3 | 516.0 | 512.4 | 515.0 |
| 9° | 513.1 | 512.6 | 514.4 | 510.9 | 513.1 |
| 10° | 511.9 | 511.0 | 512.1 | 509.3 | 511.9 |
| 11° | 510.0 | 509.7 | 510.9 | 507.9 | 510.0 |
| 12° | 507.4 | 508.0 | 509.0 | 505.3 | 507.4 |
| 13° | 506.5 | 505.7 | 506.9 | 503.2 | 506.5 |
| 14° | 503.4 | 504.1 | 505.2 | 501.7 | 503.4 |
| 15° | 500.9 | 501.8 | 502.2 | 498.5 | 500.9 |
| 16° | 498.7 | 498.7 | 499.7 | 496.0 | 498.7 |
| 17° | 495.3 | 496.8 | 497.5 | 494.1 | 495.3 |
| 18° | 492.5 | 494.1 | 494.0 | 490.0 | 492.5 |
| 19° | 490.0 | 491.6 | 491.0 | 487.0 | 490.0 |
| 20° | 485.6 | 488.9 | 486.8 | 484.6 | 485.6 |
| 21° | 482.3 | 485.1 | 484.3 | 480.2 | 482.3 |
| 22° | 479.6 | 481.8 | 480.8 | 476.7 | 479.6 |
| 23° | 473.9 | 477.4 | 476.2 | 472.9 | 473.9 |
| 24° | 471.0 | 474.6 | 473.1 | 470.2 | 471.0 |
| 25° | 465.9 | 470.7 | 469.2 | 465.0 | 465.9 |
| 26° | 463.6 | 465.7 | 465.3 | 460.9 | 463.6 |
| 27° | 458.1 | 462.8 | 461.8 | 457.4 | 458.1 |
| 28° | 453.7 | 458.7 | 456.4 | 452.0 | 453.7 |
| 29° | 450.1 | 453.1 | 452.0 | 447.4 | 450.1 |
| 30° | 444.1 | 449.7 | 448.3 | 443.8 | 444.1 |
| 31° | 439.1 | 444.8 | 442.1 | 437.8 | 439.1 |
| 32° | 435.5 | 440.1 | 437.2 | 432.5 | 435.5 |
| 33° | 428.5 | 436.5 | 433.5 | 428.6 | 428.5 |
| 34° | 423.3 | 430.0 | 426.7 | 422.0 | 423.3 |
| 35° | 419.2 | 424.9 | 422.6 | 416.5 | 419.2 |
| 36° | 412.1 | 420.9 | 417.4 | 412.4 | 412.1 |
| 37° | 406.3 | 416.8 | 410.1 | 406.4 | 406.3 |
| 38° | 401.9 | 409.7 | 406.0 | 399.1 | 401.9 |
| 39° | 395.8 | 404.3 | 399.9 | 394.7 | 395.8 |
| 40° | 388.3 | 399.5 | 393.8 | 388.4 | 388.3 |
| 41° | 383.3 | 392.4 | 385.9 | 380.6 | 383.3 |
| 42° | 376.9 | 386.2 | 381.5 | 375.9 | 376.9 |
| 43° | 368.9 | 381.5 | 375.2 | 369.4 | 368.9 |
| 44° | 363.7 | 373.7 | 370.1 | 361.0 | 363.7 |



TEST NUMBER: P588643

CATALOG NUMBER: FM15WRCCR-5000K

CANDELA DISTRIBUTION (continued):

| | 0° | 90° | 180° | 270° | 360° |
|-----|-------|-------|-------|-------|-------|
| 45° | 353.5 | 368.9 | 362.0 | 354.3 | 353.5 |
| 46° | 348.4 | 362.5 | 355.1 | 349.4 | 348.4 |
| 47° | 343.2 | 354.1 | 346.6 | 340.5 | 343.2 |
| 48° | 336.1 | 347.4 | 341.5 | 335.5 | 336.1 |
| 49° | 327.3 | 342.1 | 334.5 | 328.2 | 327.3 |
| 50° | 321.9 | 335.4 | 325.5 | 320.9 | 321.9 |
| 51° | 314.5 | 326.3 | 320.2 | 311.8 | 314.5 |
| 52° | 307.3 | 321.2 | 313.0 | 306.4 | 307.3 |
| 53° | 301.6 | 313.5 | 305.7 | 299.2 | 301.6 |
| 54° | 292.2 | 304.9 | 300.2 | 293.7 | 292.2 |
| 55° | 284.9 | 299.2 | 291.0 | 284.6 | 284.9 |
| 56° | 279.2 | 292.0 | 283.6 | 276.9 | 279.2 |
| 57° | 270.0 | 282.9 | 277.9 | 267.7 | 270.0 |
| 58° | 262.5 | 277.3 | 268.7 | 262.0 | 262.5 |
| 59° | 257.0 | 269.7 | 261.2 | 254.5 | 257.0 |
| 60° | 247.7 | 260.6 | 255.8 | 245.3 | 247.7 |
| 61° | 240.2 | 255.0 | 246.4 | 239.8 | 240.2 |
| 62° | 230.8 | 247.8 | 239.2 | 232.7 | 230.8 |
| 63° | 225.6 | 240.5 | 233.7 | 225.2 | 225.6 |
| 64° | 218.3 | 231.5 | 224.3 | 219.9 | 218.3 |
| 65° | 211.0 | 225.9 | 217.2 | 210.8 | 211.0 |
| 66° | 205.7 | 218.8 | 211.7 | 203.9 | 205.7 |
| 67° | 196.6 | 209.7 | 204.9 | 198.5 | 196.6 |
| 68° | 189.8 | 204.4 | 195.8 | 189.7 | 189.8 |
| 69° | 184.7 | 197.5 | 190.7 | 183.0 | 184.7 |
| 70° | 176.2 | 189.1 | 184.1 | 177.6 | 176.2 |
| 71° | 169.2 | 184.0 | 175.3 | 169.5 | 169.2 |
| 72° | 164.4 | 177.2 | 170.4 | 162.6 | 164.4 |
| 73° | 156.2 | 168.9 | 163.9 | 157.9 | 156.2 |
| 74° | 149.8 | 164.1 | 155.9 | 150.0 | 149.8 |
| 75° | 144.8 | 157.6 | 151.0 | 144.0 | 144.8 |
| 76° | 137.2 | 151.5 | 144.8 | 139.6 | 137.2 |
| 77° | 131.4 | 147.0 | 140.4 | 133.2 | 131.4 |
| 78° | 127.0 | 139.3 | 132.8 | 126.0 | 127.0 |
| 79° | 121.3 | 133.2 | 126.8 | 121.9 | 121.3 |
| 80° | 114.3 | 129.1 | 121.2 | 116.2 | 114.3 |
| 81° | 110.4 | 121.9 | 117.0 | 109.5 | 110.4 |
| 82° | 105.1 | 116.3 | 110.4 | 105.6 | 105.1 |
| 83° | 99.0 | 112.5 | 105.1 | 100.9 | 99.0 |
| 84° | 95.2 | 105.7 | 101.3 | 94.6 | 95.2 |
| 85° | 90.4 | 100.6 | 94.9 | 90.9 | 90.4 |
| 86° | 84.7 | 97.0 | 90.5 | 86.5 | 84.7 |
| 87° | 81.4 | 90.8 | 86.8 | 81.1 | 81.4 |
| 88° | 77.0 | 86.1 | 81.3 | 78.9 | 77.0 |
| 89° | 72.1 | 82.8 | 76.9 | 73.9 | 72.1 |



TEST NUMBER: P588643

CATALOG NUMBER: FM15WRCCR-5000K

CANDELA DISTRIBUTION (continued):

| | 0° | 90° | 180° | 270° | 360° |
|------|------|------|------|------|------|
| 90° | 69.1 | 78.3 | 73.9 | 69.6 | 69.1 |
| 91° | 65.3 | 73.2 | 68.9 | 66.9 | 65.3 |
| 92° | 61.7 | 70.4 | 65.0 | 62.1 | 61.7 |
| 93° | 59.3 | 66.7 | 62.4 | 58.6 | 59.3 |
| 94° | 55.3 | 61.7 | 59.0 | 55.6 | 55.3 |
| 95° | 52.3 | 58.7 | 55.0 | 47.5 | 52.3 |
| 96° | 48.7 | 52.6 | 52.0 | 40.3 | 48.7 |
| 97° | 46.7 | 43.4 | 49.5 | 34.9 | 46.7 |
| 98° | 44.1 | 37.9 | 46.0 | 26.9 | 44.1 |
| 99° | 42.0 | 31.1 | 44.0 | 22.5 | 42.0 |
| 100° | 38.9 | 24.4 | 41.0 | 20.4 | 38.9 |
| 101° | 36.3 | 21.4 | 37.6 | 18.5 | 36.3 |
| 102° | 34.8 | 19.5 | 35.5 | 17.2 | 34.8 |
| 103° | 32.2 | 18.0 | 32.9 | 17.7 | 32.2 |
| 104° | 29.8 | 17.7 | 29.9 | 20.2 | 29.8 |
| 105° | 28.4 | 20.0 | 27.9 | 22.5 | 28.4 |
| 106° | 26.7 | 22.3 | 26.0 | 24.0 | 26.7 |
| 107° | 24.5 | 23.5 | 23.8 | 25.1 | 24.5 |
| 108° | 23.5 | 25.2 | 21.3 | 24.2 | 23.5 |
| 109° | 22.1 | 25.2 | 19.7 | 23.7 | 22.1 |
| 110° | 20.3 | 24.5 | 18.0 | 23.0 | 20.3 |
| 111° | 19.6 | 23.5 | 15.9 | 22.4 | 19.6 |
| 112° | 18.6 | 23.1 | 15.0 | 21.9 | 18.6 |
| 113° | 17.3 | 22.8 | 13.9 | 21.6 | 17.3 |
| 114° | 16.7 | 22.1 | 12.6 | 21.0 | 16.7 |
| 115° | 15.7 | 21.6 | 12.1 | 20.7 | 15.7 |
| 116° | 14.8 | 21.4 | 11.3 | 20.7 | 14.8 |
| 117° | 14.3 | 21.0 | 10.5 | 20.4 | 14.3 |
| 118° | 13.9 | 21.0 | 10.5 | 20.3 | 13.9 |
| 119° | 13.5 | 20.7 | 9.9 | 20.3 | 13.5 |
| 120° | 13.2 | 20.7 | 9.8 | 19.9 | 13.2 |
| 121° | 12.9 | 20.6 | 9.8 | 20.0 | 12.9 |
| 122° | 12.6 | 20.4 | 9.9 | 20.2 | 12.6 |
| 123° | 12.3 | 20.3 | 9.9 | 20.3 | 12.3 |
| 124° | 12.3 | 20.6 | 10.1 | 20.0 | 12.3 |
| 125° | 12.2 | 20.6 | 10.8 | 20.3 | 12.2 |
| 126° | 12.2 | 20.6 | 11.6 | 20.4 | 12.2 |
| 127° | 12.2 | 20.7 | 12.1 | 20.3 | 12.2 |
| 128° | 12.3 | 20.7 | 12.9 | 20.4 | 12.3 |
| 129° | 12.2 | 20.9 | 13.6 | 20.6 | 12.2 |
| 130° | 12.3 | 20.7 | 14.2 | 20.7 | 12.3 |
| 131° | 12.8 | 21.0 | 15.0 | 20.9 | 12.8 |
| 132° | 12.9 | 20.7 | 15.5 | 20.7 | 12.9 |
| 133° | 13.2 | 21.2 | 16.3 | 20.9 | 13.2 |
| 134° | 13.6 | 21.2 | 16.6 | 21.0 | 13.6 |



TEST NUMBER: P588643

CATALOG NUMBER: FM15WRCCR-5000K

CANDELA DISTRIBUTION (continued):

| | 0° | 90° | 180° | 270° | 360° |
|------|------|------|------|------|------|
| 135° | 14.2 | 21.2 | 17.6 | 21.3 | 14.2 |
| 136° | 14.5 | 21.2 | 17.9 | 21.2 | 14.5 |
| 137° | 15.0 | 21.2 | 18.7 | 21.3 | 15.0 |
| 138° | 15.9 | 21.3 | 19.3 | 21.3 | 15.9 |
| 139° | 16.3 | 21.4 | 19.7 | 21.6 | 16.3 |
| 140° | 17.3 | 21.6 | 20.0 | 21.6 | 17.3 |
| 141° | 17.5 | 21.7 | 20.6 | 21.7 | 17.5 |
| 142° | 18.5 | 21.7 | 20.7 | 21.9 | 18.5 |
| 143° | 18.9 | 21.7 | 21.2 | 21.7 | 18.9 |
| 144° | 19.2 | 22.1 | 21.3 | 22.3 | 19.2 |
| 145° | 19.6 | 21.7 | 21.6 | 22.3 | 19.6 |
| 146° | 20.0 | 22.1 | 21.7 | 21.9 | 20.0 |
| 147° | 20.3 | 21.9 | 21.6 | 22.3 | 20.3 |
| 148° | 20.6 | 22.1 | 21.7 | 22.1 | 20.6 |
| 149° | 20.7 | 22.1 | 21.6 | 22.1 | 20.7 |
| 150° | 20.9 | 21.9 | 21.7 | 22.3 | 20.9 |
| 151° | 21.3 | 22.1 | 21.6 | 22.4 | 21.3 |
| 152° | 21.4 | 22.1 | 21.6 | 22.3 | 21.4 |
| 153° | 21.7 | 22.4 | 21.7 | 22.4 | 21.7 |
| 154° | 21.7 | 22.4 | 21.9 | 22.4 | 21.7 |
| 155° | 22.1 | 22.4 | 22.1 | 22.4 | 22.1 |
| 156° | 22.4 | 22.4 | 22.1 | 22.7 | 22.4 |
| 157° | 22.3 | 22.5 | 22.1 | 22.5 | 22.3 |
| 158° | 22.7 | 22.7 | 22.4 | 22.5 | 22.7 |
| 159° | 22.4 | 22.8 | 22.8 | 22.7 | 22.4 |
| 160° | 23.0 | 22.7 | 23.1 | 23.1 | 23.0 |
| 161° | 23.2 | 22.8 | 23.1 | 23.4 | 23.2 |
| 162° | 23.7 | 23.0 | 23.8 | 23.5 | 23.7 |
| 163° | 23.7 | 23.2 | 23.7 | 23.4 | 23.7 |
| 164° | 23.4 | 23.2 | 23.5 | 23.2 | 23.4 |
| 165° | 22.7 | 23.5 | 22.8 | 22.5 | 22.7 |
| 166° | 22.1 | 23.1 | 22.3 | 22.1 | 22.1 |
| 167° | 21.7 | 22.8 | 21.7 | 21.7 | 21.7 |
| 168° | 21.3 | 22.5 | 21.2 | 21.3 | 21.3 |
| 169° | 20.9 | 21.9 | 20.9 | 20.7 | 20.9 |
| 170° | 21.2 | 21.6 | 20.6 | 20.4 | 21.2 |
| 171° | 20.9 | 21.2 | 20.2 | 19.9 | 20.9 |
| 172° | 20.6 | 20.9 | 20.3 | 19.5 | 20.6 |
| 173° | 20.2 | 20.4 | 19.9 | 19.3 | 20.2 |
| 174° | 20.6 | 20.0 | 20.4 | 20.2 | 20.6 |
| 175° | 21.9 | 19.9 | 21.4 | 22.1 | 21.9 |
| 176° | 22.5 | 21.3 | 22.4 | 22.7 | 22.5 |
| 177° | 23.2 | 21.9 | 22.8 | 23.0 | 23.2 |
| 178° | 23.2 | 22.8 | 23.4 | 23.5 | 23.2 |
| 179° | 23.4 | 23.1 | 23.2 | 23.5 | 23.4 |



TEST NUMBER: P588643

CATALOG NUMBER: FM15WRCCR-5000K

CANDELA DISTRIBUTION (continued):

| | 0° | 90° | 180° | 270° | 360° |
|------|------|------|------|------|------|
| 180° | 23.2 | 23.2 | 23.2 | 23.2 | 23.2 |

(END OF REPORT)