



Catalog Number 71601
UPC Number 60198671601
Description LED Ultra Thin Canopy Fixture
45W
Voltage: 120/208/240/277

QPL ID #
PZMSURDQ



Features

Integral Cooling Fin Releases the Heat Efficiently to Maintain the Life of LEDs and LED Driver
Corrosion Die Cast Aluminum Housing
Prismatic Polycarbonate Lens
Superior Architectural White Powder Coat Finish
Cree CXA LED COB
Stainless Steel Hardware
4 Threaded Apertures - (1) Back, (3) Sides
50,000+ Hour Life Expectancy
cULus Listed for Wet Locations

General

Material: Diecast Aluminum Housing
Lens: Prismatic Polycarbonate Lens
Finish: White Powdercoat
Lamp Type: LED COB
Photocell: Optional
Color Temperature: 4000K

Dimension Information

Length: 9-1/2"
Width: 9-1/2"
Height: 3"
See Dimensional Drawing below:

Specifications

Color Temperature: 4000K
Lumens: 4005
Temperature Rating: -40°F to 131°F
Voltage Rating: 120/208/240/277
Wattage Rating: 45W
Light Pattern: 158° Beam Angle
CRI: ≥83

Packaging

Box Qty 1

Certifications

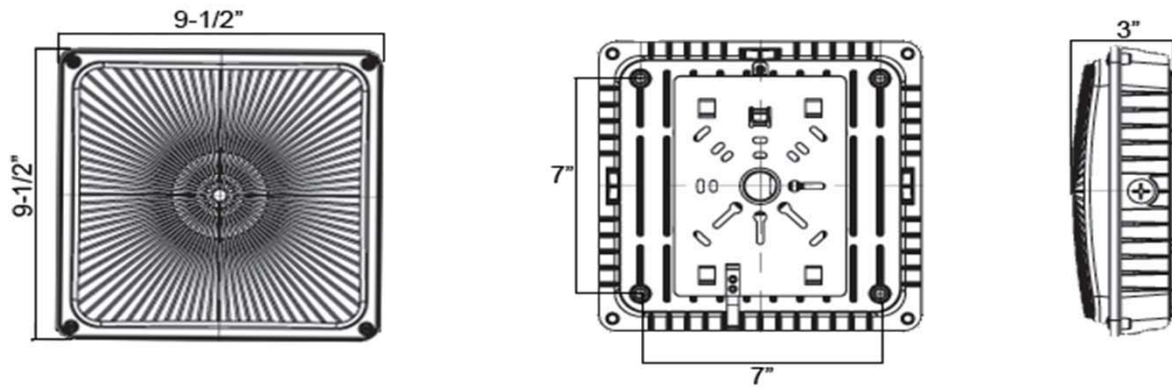
cULus Yes
DLC Product ID: PZMSURDQ
IP65(Nema 4X) Yes
Warranty 5 Year

www.morrisproducts.com

Morris Products 53 Carey Road, Queensbury, NY 12804

Dimensions:

71601



www.morrisproducts.com

Morris Products 53 Carey Road, Queensbury, NY 12804

IES LM-79-08

MEASUREMENT AND TEST REPORT

For

Morris Products Inc.

53 Carey Rd Queensbury, NY 12804

Test Model: 71601

| | |
|-----------------------|--|
| Report Type: | Electrical and Photometric tests including: Luminous Flux, Color, Luminous Intensity Distribution, THD, Power Factor, Off-state Power |
| Test Engineer: | Daniel Duan <i>Daniel Duan</i> |
| Report Number: | RSZ150420520-10 |
| Test Date: | 2015-04-21 to 2015-04-22 |
| Report Date: | 2015-05-06 |
| Reviewed By: | Jeanne Han/Safety Manager <i>Jeanne Han</i> |
| Prepared By: | Bay Area Compliance Laboratories Corp. (Shenzhen) 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China Tel: +86-755-33320018 Fax: +86-755-33320008 |
| Test Facility: | Test facility was located at Pu Long Cun 69, Puxinghu Industrial Area, Tangxia Town, Dongguan, Guangdong, P.R.China. |
| Accreditation: | The NVLAP Lab Code is 200707-0. |



STATEMENT: This test may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Shenzhen). The test data was only valid for the test sample(s). This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Federal Government. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

1. Product Description

General Information:

One sample was received on 2015-04-20 and used for testing. Sample No.: RSZ150420520-S01
Model: 71601

Model Tested: 71601
Manufacturer: Morris Products Inc.
Brand Name: Morris
Product Designation: Parking Garage Luminaires
Burning Time Before Test: 0 hour(For New Products)

Rated Values:

Rated Voltage/Frequency: 100-277VAC 60Hz
Rated Power: 45W
Nominal CCT: 4000K

2. Standards Used

- IESNA LM-79-08: Approved Method: Electrical & Photometric Measurement of Solid-state Lighting Products
- ANSI C82.77-2002: Harmonic Emission Limits Related Power Quality Requirements for Lighting

3. Description of Test Equipment

| Device | Manufacture | Model No | Serial No | Test Range | Calibration date | Calibration due date |
|-----------------------|-------------|-------------|------------------------|------------------------|------------------|----------------------|
| Integrating Sphere | SENSING | SPR-600 | S09008 | 1.5 meter | 2015-03-16 | 2016-03-16 |
| Spectral photometer | SENSING | SPR3000 | 90902027 | 380nm~800nm | 2015-03-16 | 2016-03-16 |
| Power Meter | YOKOGAWA | WT-210 | 91J926132 | 15/30/60/150/300/600 V | 2015-03-05 | 2016-03-05 |
| AC Power Supply | ALL Power | APW-105N | 970613 | 0V-300V 50-400Hz | 2015-03-05 | 2016-03-05 |
| Standard Light Source | EVERFINE | D204 | LSD090808 | N/A | 2014-08-05 | 2015-08-05 |
| Thermal Meter | SENSING | N/A | N/A | 25°C,45°C,55°C | 2015-03-05 | 2016-03-05 |
| DC Power Supply | ITECH | IT6154 | 0061 0417 6471 0010 19 | 0~60V | 2015-03-05 | 2016-03-05 |
| AC Power Supply | EVERFINE | VPS1060 PWM | 1101006 | 0-150V, 0-300V | 2015-03-12 | 2016-03-12 |
| DC Power Supply | EVERFINE | WY12010 | 1009009 | 30V/5A | 2015-03-05 | 2016-03-05 |
| Power Meter | YOKOGAWA | WT-210 | 91KB35700 | 15/30/60/150/300/600 V | 2015-03-05 | 2016-03-05 |
| Goniophotometer | EVERFINE | GO-R5000 | YG108492N10120001 | 1600mm,3000W/10A | 2015-03-04 | 2016-03-04 |
| Thermal Meter | Victor | VC230 | EE091 | 0~40°C0~90% | 2013-04-01 | 2016-03-31 |
| Standard Light Source | EVERFINE | D908 | 1012004 | N/A | 2014-07-31 | 2015-07-31 |

Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attested that all calibration has been performed using suitable standards traceable to National Primary Standards and International System of Units (SI).

4. Test Method

Product was tested with no seasoning. All stabilization and measurements were made in compliance with IES LM-79-08. The product was operated at rated voltage or at voltage required by manufacturer. The ambient temperature of the sample was maintained at $25^{\circ}\text{C}\pm 1^{\circ}\text{C}$ during measurement. And relative humidity is less than 65%.

Integrating Sphere System

The system includes AC power source, digital power meter, DC power supply, spectrophotometer, and integrating sphere. The integrating sphere system is calibrated by standard light source before measurement. The system and standard light source has been calibrated regularly and traceable to the National Primary Standards.

4 π geometry was used during measurement. The product was operated in its intended orientation in application and was recorded in this report.

The uncertainty of the light output (luminous flux) measurements is $U=1.64\%$ ($K=2$), at the 95% confidence level. The uncertainty of the correlated color temperature measurements is $U=21\text{K}$ ($K=2$), at the 95% confidence level. The uncertainty of the CRI is $U=1.6$ ($K=2$), at the 95% confidence level.

Goniophotometer System

The goniophotometer system is calibrated by standard light source before measurement. The standard light source has been calibrated regularly and traceable to the National Primary Standards.

Type C goniophotometer was used for measuring total luminous flux, luminous intensity distribution, and color spatial uniformity. The product was operated in its intended orientation in application and was recorded in this report.

The uncertainty of the luminous intensity is $U=2.82\%$ ($K=2$), at the 95% confidence level.

Additional Test

The Additional Test item may not be covered by IESNA LM-79-2008. Additional test including power factor, off-state power and THD, was measured by Digital Power Meter after stabilized at $25^{\circ}\text{C}\pm 1^{\circ}\text{C}$. Test voltage for THD and power factor test would be equal to rated voltage or, in case of a voltage range, maximum value of that range.

The uncertainty of power meter AC current $U=0.19\%$ of rdg, AC Voltage $U=0.15\%$ of rdg, Power $U=0.20\%$ ($K=2$), at the 95% confidence level.

5. Test Result

[Integrating Sphere System]

Total operating time for integrating sphere test: 1.0 hours

Test orientation: Downward

Electrical Measurement

| Voltage (V) | Frequency (Hz) | Current (A) | Power (W) | Power Factor |
|-------------|----------------|-------------|-----------|--------------|
| 119.97 | 60.0 | 0.3687 | 43.666 | 0.987 |

Photometric Measurement

| Luminous Flux (lm) | Radiant Flux (W) | Efficacy (lm/W) | CCT (K) | Duv |
|--------------------|------------------|-----------------|---------|----------|
| 4005.121 | 10.141 | 91.722 | 3991 | 1.84E-03 |

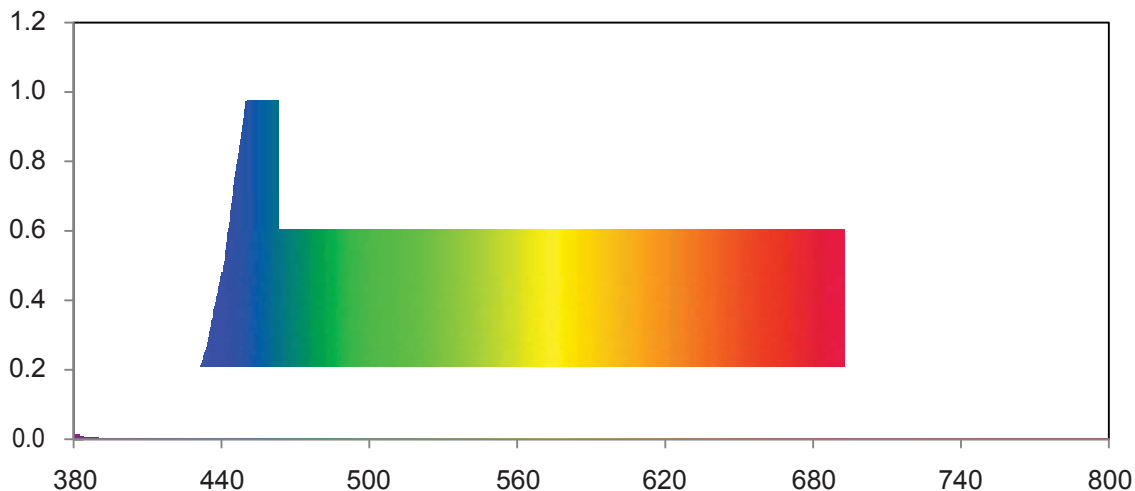
Chromaticity Coordinate

| x | y | u | v | u' | v' |
|--------|--------|--------|--------|--------|--------|
| 0.3822 | 0.3818 | 0.2242 | 0.3360 | 0.2242 | 0.5040 |

Color Rendering Index

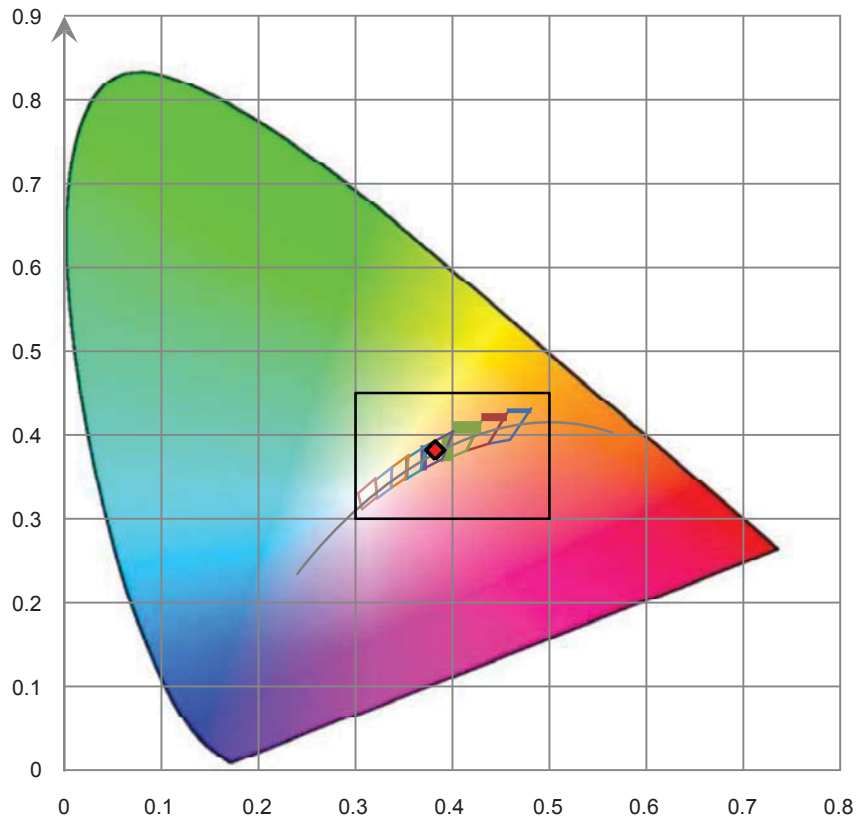
| | | | |
|------|-----|-----|-----|
| Ra | | | |
| 83.5 | | | |
| R1 | R2 | R3 | R4 |
| 82 | 89 | 94 | 83 |
| R5 | R6 | R7 | R8 |
| 81 | 84 | 88 | 68 |
| R9 | R10 | R11 | R12 |
| 16 | 73 | 81 | 61 |
| R13 | R14 | R15 | |
| 84 | 96 | 77 | |

Relative Spectral Power Distribution

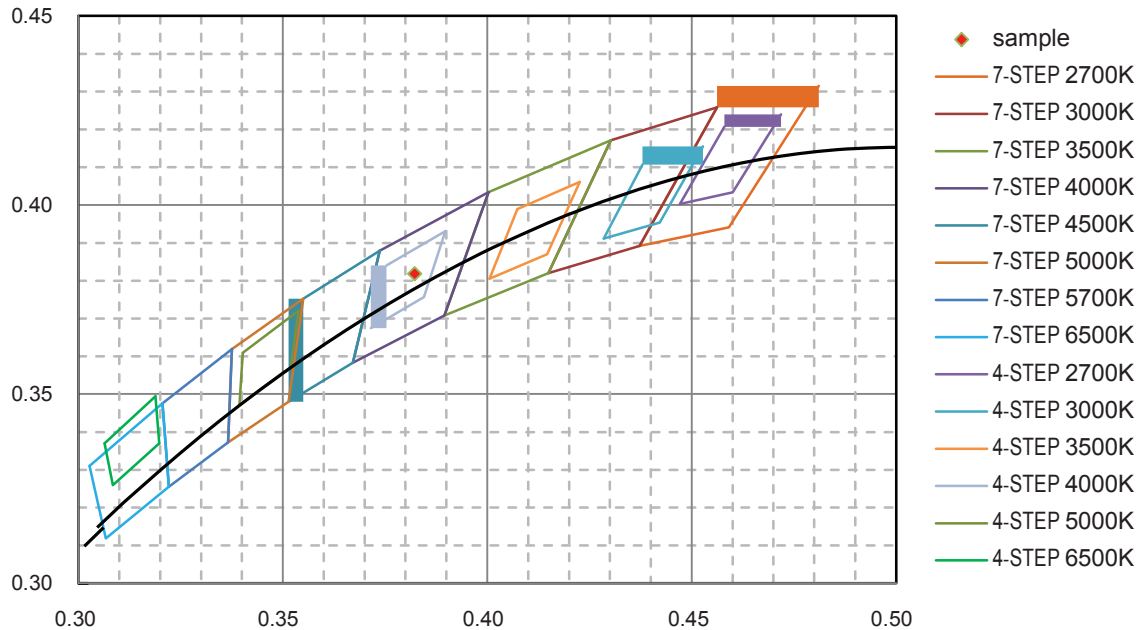


| nm | mW | nm | mW | nm | mW | nm | mW | nm | mW |
|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|
| 380 | 5.587E-03 | 465 | 1.525E-01 | 550 | 2.339E-01 | 635 | 2.061E-01 | 720 | 2.529E-02 |
| 385 | 2.288E-03 | 470 | 1.196E-01 | 555 | 2.397E-01 | 640 | 1.895E-01 | 725 | 2.177E-02 |
| 390 | 1.737E-03 | 475 | 9.453E-02 | 560 | 2.485E-01 | 645 | 1.741E-01 | 730 | 1.849E-02 |
| 395 | 9.434E-04 | 480 | 8.569E-02 | 565 | 2.521E-01 | 650 | 1.581E-01 | 735 | 1.584E-02 |
| 400 | 1.112E-03 | 485 | 8.737E-02 | 570 | 2.582E-01 | 655 | 1.418E-01 | 740 | 1.371E-02 |
| 405 | 1.670E-03 | 490 | 9.598E-02 | 575 | 2.637E-01 | 660 | 1.272E-01 | 745 | 1.178E-02 |
| 410 | 3.799E-03 | 495 | 1.115E-01 | 580 | 2.700E-01 | 665 | 1.124E-01 | 750 | 1.014E-02 |
| 415 | 7.641E-03 | 500 | 1.295E-01 | 585 | 2.739E-01 | 670 | 1.001E-01 | 755 | 8.860E-03 |
| 420 | 1.538E-02 | 505 | 1.478E-01 | 590 | 2.758E-01 | 675 | 8.843E-02 | 760 | 7.898E-03 |
| 425 | 2.939E-02 | 510 | 1.657E-01 | 595 | 2.775E-01 | 680 | 7.681E-02 | 765 | 6.686E-03 |
| 430 | 5.116E-02 | 515 | 1.782E-01 | 600 | 2.761E-01 | 685 | 6.751E-02 | 770 | 5.894E-03 |
| 435 | 8.433E-02 | 520 | 1.909E-01 | 605 | 2.711E-01 | 690 | 6.066E-02 | 775 | 5.162E-03 |
| 440 | 1.332E-01 | 525 | 1.996E-01 | 610 | 2.661E-01 | 695 | 5.620E-02 | 780 | 4.358E-03 |
| 445 | 2.061E-01 | 530 | 2.079E-01 | 615 | 2.568E-01 | 700 | 4.435E-02 | 785 | 4.035E-03 |
| 450 | 2.716E-01 | 535 | 2.143E-01 | 620 | 2.470E-01 | 705 | 3.841E-02 | 790 | 3.633E-03 |
| 455 | 2.617E-01 | 540 | 2.201E-01 | 625 | 2.328E-01 | 710 | 3.340E-02 | 795 | 3.245E-03 |
| 460 | 1.959E-01 | 545 | 2.291E-01 | 630 | 2.206E-01 | 715 | 2.861E-02 | 800 | 2.958E-03 |

CIE 1931 x y Chromaticity Diagram



7-Step & 4-Step Chromaticity Quadrangles



[Goniophotometer System]

Total operating time for luminous intensity distribution: 1.0 hours

Test orientation: Downward

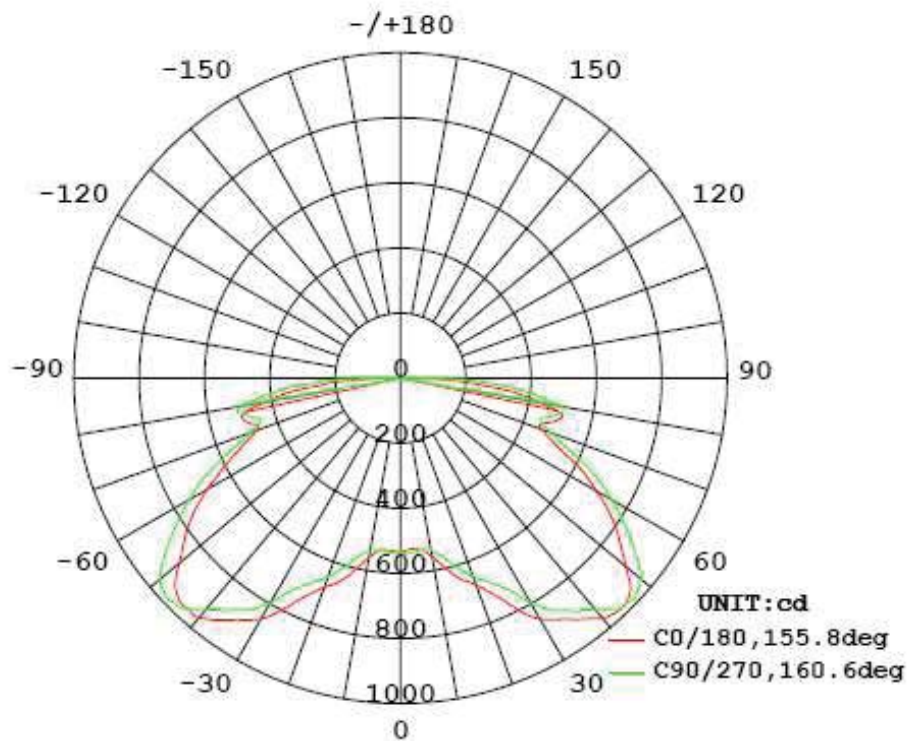
Electrical Measurement

| Input Voltage (V) | Frequency (Hz) | Input Current (A) | Power (W) | Power Factor |
|-------------------|----------------|-------------------|-----------|--------------|
| 120.1 | 60.0 | 0.3651 | 43.52 | 0.9929 |

Photometric Measurement

| Luminous Flux (lm) | Efficacy (lm/W) | CBCP (cd) | S/MH (C0/180) | S/MH (C90/270) |
|--------------------|-----------------|-----------|---------------|----------------|
| 4023.69 | 92.45 | 533 | 2.11 | 2.17 |

Luminous Intensity Distribution



| | C0/180 | C45/225 | C90/270 | C135/315 | AVG. |
|--------------------------------------|--------|---------|---------|----------|-------|
| Beam Angle (50% I _{max}): | 155.8 | 158.3 | 160.6 | 158.5 | 158.3 |
| Field Angle (10% I _{max}): | 176.7 | 179.8 | 180.1 | 179.8 | 179.1 |

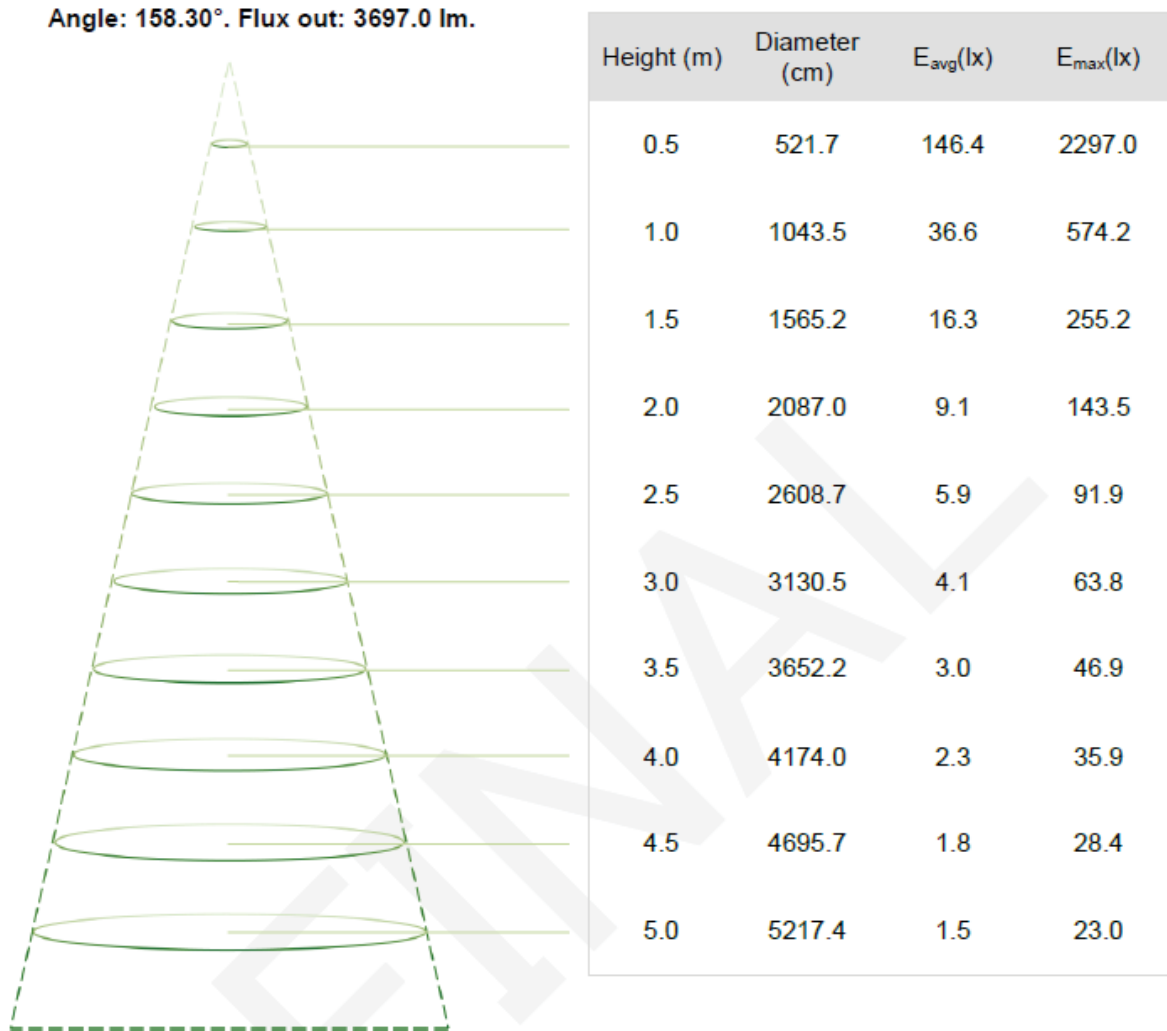
Luminous Intensity (cd) Distribution Data

| C \ y | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° |
|--------|-----|-------|-----|-------|-----|--------|------|--------|
| 0.0° | 533 | 533 | 533 | 533 | 533 | 533 | 533 | 533 |
| 5.0° | 529 | 531 | 533 | 535 | 535 | 530 | 528 | 527 |
| 10.0° | 560 | 557 | 549 | 540 | 536 | 540 | 545 | 549 |
| 15.0° | 631 | 619 | 603 | 590 | 585 | 594 | 605 | 615 |
| 20.0° | 684 | 671 | 658 | 650 | 649 | 654 | 662 | 671 |
| 25.0° | 758 | 737 | 714 | 703 | 703 | 708 | 723 | 743 |
| 30.0° | 853 | 838 | 809 | 797 | 799 | 798 | 822 | 842 |
| 35.0° | 907 | 895 | 872 | 876 | 871 | 867 | 889 | 900 |
| 40.0° | 961 | 952 | 924 | 929 | 932 | 922 | 952 | 959 |
| 45.0° | 960 | 978 | 965 | 968 | 976 | 963 | 971 | 980 |
| 50.0° | 884 | 925 | 933 | 948 | 964 | 936 | 924 | 918 |
| 55.0° | 795 | 816 | 830 | 850 | 861 | 838 | 822 | 812 |
| 60.0° | 685 | 706 | 723 | 745 | 747 | 730 | 719 | 706 |
| 65.0° | 563 | 580 | 591 | 620 | 618 | 606 | 588 | 582 |
| 70.0° | 468 | 473 | 482 | 488 | 487 | 486 | 480 | 470 |
| 75.0° | 498 | 476 | 469 | 462 | 466 | 470 | 478 | 488 |
| 80.0° | 419 | 434 | 467 | 483 | 501 | 490 | 472 | 442 |
| 85.0° | 241 | 278 | 312 | 334 | 346 | 334 | 303 | 273 |
| 90.0° | 51 | 68 | 93 | 120 | 113 | 113 | 84 | 63 |
| 95.0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100.0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 105.0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 110.0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 115.0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 120.0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 125.0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 130.0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 135.0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 140.0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 145.0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 150.0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 155.0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 160.0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 165.0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 170.0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 175.0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 180.0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Luminous Intensity (cd) Distribution Data (cont.)

| C \ y | 180° | 202.5° | 225° | 247.5° | 270° | 292.5° | 315° | 337.5° |
|--------|------|--------|------|--------|------|--------|------|--------|
| 0.0° | 533 | 533 | 533 | 533 | 533 | 533 | 533 | 533 |
| 5.0° | 525 | 527 | 528 | 530 | 535 | 535 | 533 | 531 |
| 10.0° | 557 | 549 | 545 | 540 | 536 | 540 | 549 | 557 |
| 15.0° | 625 | 615 | 605 | 594 | 585 | 590 | 603 | 619 |
| 20.0° | 676 | 671 | 662 | 654 | 649 | 650 | 658 | 671 |
| 25.0° | 757 | 743 | 723 | 708 | 703 | 703 | 714 | 737 |
| 30.0° | 855 | 842 | 822 | 798 | 799 | 797 | 809 | 838 |
| 35.0° | 904 | 900 | 889 | 867 | 871 | 876 | 872 | 895 |
| 40.0° | 963 | 959 | 952 | 922 | 932 | 929 | 924 | 952 |
| 45.0° | 977 | 980 | 971 | 963 | 976 | 968 | 965 | 978 |
| 50.0° | 900 | 918 | 924 | 936 | 964 | 948 | 933 | 925 |
| 55.0° | 807 | 812 | 822 | 838 | 861 | 850 | 830 | 816 |
| 60.0° | 693 | 706 | 719 | 730 | 747 | 745 | 723 | 706 |
| 65.0° | 562 | 582 | 588 | 606 | 618 | 620 | 591 | 580 |
| 70.0° | 461 | 470 | 480 | 486 | 487 | 488 | 482 | 473 |
| 75.0° | 498 | 488 | 478 | 470 | 466 | 462 | 469 | 476 |
| 80.0° | 436 | 442 | 472 | 490 | 501 | 483 | 467 | 434 |
| 85.0° | 252 | 273 | 303 | 334 | 346 | 334 | 312 | 278 |
| 90.0° | 62 | 63 | 84 | 113 | 113 | 120 | 93 | 68 |
| 95.0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100.0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 105.0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 110.0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 115.0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 120.0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 125.0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 130.0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 135.0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 140.0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 145.0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 150.0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 155.0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 160.0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 165.0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 170.0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 175.0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 180.0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Average Area Illumination Figure



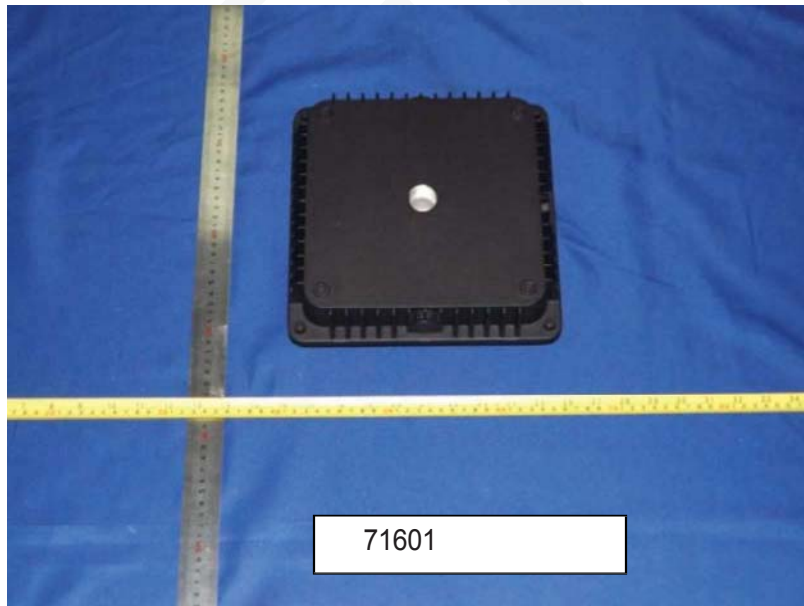
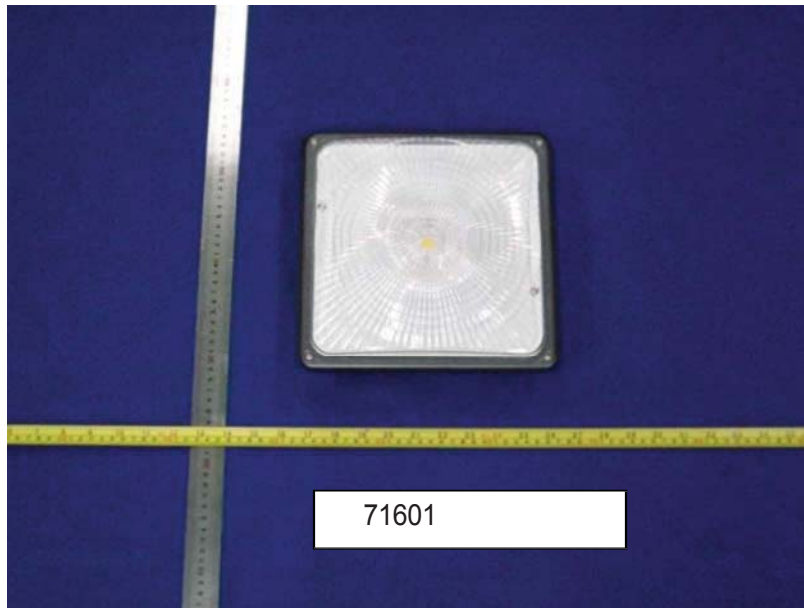
Zonal Lumen Density Measurement

| Deg | Flux (lm) | % | Deg | Flux (lm) | % |
|---------|-----------|------|-------|-----------|--------|
| 0-5 | 12.8 | 0.32 | 0-5 | 12.8 | 0.32 |
| 5-10 | 38.3 | 0.95 | 0-10 | 51.1 | 1.27 |
| 10-15 | 68.3 | 1.70 | 0-15 | 119.3 | 2.97 |
| 15-20 | 104.9 | 2.60 | 0-20 | 224.2 | 5.57 |
| 20-25 | 144.9 | 3.60 | 0-25 | 369.1 | 9.17 |
| 25-30 | 195.4 | 4.86 | 0-30 | 564.5 | 14.03 |
| 30-35 | 251.8 | 6.26 | 0-35 | 816.4 | 20.29 |
| 35-40 | 304.8 | 7.57 | 0-40 | 1121.2 | 27.86 |
| 40-45 | 355.9 | 8.85 | 0-45 | 1477.1 | 36.71 |
| 45-50 | 387.6 | 9.63 | 0-50 | 1864.7 | 46.34 |
| 50-55 | 382.3 | 9.50 | 0-55 | 2247.0 | 55.84 |
| 55-60 | 358.3 | 8.91 | 0-60 | 2605.3 | 64.75 |
| 60-65 | 319.9 | 7.95 | 0-65 | 2925.1 | 72.70 |
| 65-70 | 269.4 | 6.69 | 0-70 | 3194.6 | 79.39 |
| 70-75 | 241.9 | 6.02 | 0-75 | 3436.4 | 85.41 |
| 75-80 | 260.5 | 6.47 | 0-80 | 3696.9 | 91.88 |
| 80-85 | 211.4 | 5.25 | 0-85 | 3908.3 | 97.13 |
| 85-90 | 110.5 | 2.75 | 0-90 | 4018.8 | 99.88 |
| 90-95 | 4.9 | 0.12 | 0-95 | 4023.7 | 100.00 |
| 95-100 | 0.0 | 0.00 | 0-100 | 4023.7 | 100.00 |
| 100-105 | 0.0 | 0.00 | 0-105 | 4023.7 | 100.00 |
| 105-110 | 0.0 | 0.00 | 0-110 | 4023.7 | 100.00 |
| 110-115 | 0.0 | 0.00 | 0-115 | 4023.7 | 100.00 |
| 115-120 | 0.0 | 0.00 | 0-120 | 4023.7 | 100.00 |
| 120-125 | 0.0 | 0.00 | 0-125 | 4023.7 | 100.00 |
| 125-130 | 0.0 | 0.00 | 0-130 | 4023.7 | 100.00 |
| 130-135 | 0.0 | 0.00 | 0-135 | 4023.7 | 100.00 |
| 135-140 | 0.0 | 0.00 | 0-140 | 4023.7 | 100.00 |
| 140-145 | 0.0 | 0.00 | 0-145 | 4023.7 | 100.00 |
| 145-150 | 0.0 | 0.00 | 0-150 | 4023.7 | 100.00 |
| 150-155 | 0.0 | 0.00 | 0-155 | 4023.7 | 100.00 |
| 155-160 | 0.0 | 0.00 | 0-160 | 4023.7 | 100.00 |
| 160-165 | 0.0 | 0.00 | 0-165 | 4023.7 | 100.00 |
| 165-170 | 0.0 | 0.00 | 0-170 | 4023.7 | 100.00 |
| 170-175 | 0.0 | 0.00 | 0-175 | 4023.7 | 100.00 |
| 175-180 | 0.0 | 0.00 | 0-180 | 4023.7 | 100.00 |

[Additional Test]

| Test Item | Test Voltage (V) | Frequency (Hz) | Test Result |
|----------------------------|------------------|----------------|-------------|
| Power Factor: | 277 | 60 | 0.9507 |
| Total Harmonic Distortion: | 277 | 60 | 13.77% |
| Total Harmonic Distortion: | 120 | 60 | 10.10% |
| Off State Power (W): | 120 | 60 | 0.00 |

6. Product Photo



*****END OF REPORT*****