

itl boulder

THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

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REPORT NUMBER: ITL64828 Page 1 of 3
DATE: 05/12/10
PREPARED FOR: BETALED, A DIVISION OF RUUD LIGHTING

CATALOG NUMBER: PWY-EDG-3M-**-18-C-UL or BXBP*318C-U (350mA)

LUMINAIRE: FABRICATED GRAY PAINTED CYLINDRICAL METAL LOWER HOUSING, FABRICATED GRAY PAINTED METAL TOP TRIM/HEAT SINK, THREE CIRCUIT BOARDS EACH WITH SIX LEDS MOUNTED AROUND PERIMETER OF A CAST GRAY PAINTED METAL PLATE, CAST BLACK PAINTED METAL CIRCUIT BOARD RETAINING RING, ONE CLEAR PLASTIC NON-INTEGRAL LENS BELOW EACH LED. CAST GRAY PAINTED METAL LOWER HOUSING CAP WITH THREE VERTICAL SUPPORTS.

LAMPS: EIGHTEEN WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP POSITION.

LED DRIVER: THOMAS RESEARCH PRODUCTS TRC-025S070PS

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (240VAC, 60Hz) TO THE LED DRIVER. CLIENT STATES LEDS HAVE BEEN SEASONED FOR A MINIMUM OF 100 HOURS.

INSTRUMENTATION: Kikusui PCR2000L AC Power Source
Yokogawa WT210 Digital Power Meter
Ocean Optics QE65000 Spectroradiometer
ITL 2.0 Meter Diameter Integrating Sphere, 4 π Geometry

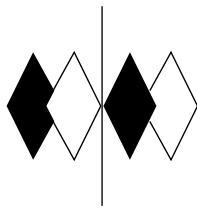
OBJECT OF TEST: Report the Absolute Flux in Lumens*, measure the Spectral Power Distribution, Correlated Color Temperature (CCT), Color Rendering Index (CRI), Chromaticity Coordinates (x,y), ANSI C78.377 Duv, and input electrical parameters including Total Harmonic Distortion (THD) to the luminaire.

PROCEDURE: The luminaire was provided by customer and the LEDs had a minimum of 100 burn hours. The luminaire was mounted inside the integrating sphere with the luminaire horizontal (LEDS facing down). The luminaire was allowed to stabilize at 240 VAC input. After stabilization occurred, spectral power distribution, CCT, CRI, x/y chromaticity coordinates, ANSI C78.377 Duv, and input electrical data were measured with the luminaire operating in the integrating sphere. In order to measure the mean performance, multiple data sets were recorded and averaged. Readings were taken with the luminaire operating at 240 VAC input in a 25 +/-1 degree Celsius free air ambient and in accordance with IESNA LM-79-08. All data are traceable to the National Institute of Standards and Technology.

*NOTE: The total lumen output shown on this report was obtained from photometric test ITL64824.

RESULTS: (continued subsequent pages)

| |
|-----------|
| Checked: |
| Approved: |



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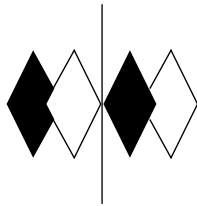
CATALOG NUMBER: PWY-EDG-3M-**-02-C-UL or BXPB*318C-U (350mA)

RESULTS:

| | |
|---|-------------------|
| PHOTOMETRIC | |
| Total Integrated Flux (lumens) | 1354* |
| SPECTRORADIOMETRIC | |
| Observer | CIE 1931 2 degree |
| Chromaticity Ordinate x | 0.3170 |
| Chromaticity Ordinate y | 0.3323 |
| Correlated Color Temp CCT (K) | 6258 |
| Color Rendering Index (CRI) | 72 |
| ANSI C78.377-2008 Duv | 0.003 |
| ELECTRICAL | |
| Input Voltage (Volts AC) | 240.0 |
| Input Current (mA AC) | 110 |
| Input Power (Watts) | 23.8 |
| Total Harmonic Distortion – Current (%) | 12.9 |
| Total Harmonic Distortion – Voltage (%) | 0.0 |
| EFFICACY (Lumens/Watt) | 56.9 |

*NOTE:

The total lumen output shown on this report was obtained from photometric test ITL64824.



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RESULTS:

| Wavelength | mW per nm | Wavelength | mW per nm | Wavelength | mW per nm |
|------------|-----------|------------|-----------|------------|-----------|
| 380 | 0.221 | 515 | 16.470 | 650 | 7.619 |
| 385 | 0.285 | 520 | 18.454 | 655 | 6.869 |
| 390 | 0.365 | 525 | 20.126 | 660 | 6.160 |
| 395 | 0.492 | 530 | 21.367 | 665 | 5.508 |
| 400 | 0.707 | 535 | 22.070 | 670 | 4.908 |
| 405 | 1.201 | 540 | 22.477 | 675 | 4.364 |
| 410 | 1.905 | 545 | 22.735 | 680 | 3.870 |
| 415 | 3.514 | 550 | 22.848 | 685 | 3.430 |
| 420 | 6.660 | 555 | 22.795 | 690 | 3.048 |
| 425 | 11.534 | 560 | 22.619 | 695 | 2.704 |
| 430 | 18.416 | 565 | 22.354 | 700 | 2.374 |
| 435 | 27.045 | 570 | 21.966 | 705 | 2.099 |
| 440 | 36.480 | 575 | 21.472 | 710 | 1.867 |
| 445 | 40.541 | 580 | 20.880 | 715 | 1.639 |
| 450 | 34.676 | 585 | 20.225 | 720 | 1.441 |
| 455 | 24.353 | 590 | 19.364 | 725 | 1.267 |
| 460 | 16.273 | 595 | 18.460 | 730 | 1.109 |
| 465 | 11.544 | 600 | 17.528 | 735 | 0.981 |
| 470 | 8.625 | 605 | 16.516 | 740 | 0.860 |
| 475 | 6.764 | 610 | 15.459 | 745 | 0.761 |
| 480 | 5.802 | 615 | 14.448 | 750 | 0.668 |
| 485 | 5.571 | 620 | 13.401 | 755 | 0.590 |
| 490 | 6.023 | 625 | 12.295 | 760 | 0.518 |
| 495 | 7.275 | 630 | 11.208 | 765 | 0.455 |
| 500 | 9.255 | 635 | 10.300 | 770 | 0.401 |
| 505 | 11.689 | 640 | 9.360 | 775 | 0.353 |
| 510 | 14.164 | 645 | 8.463 | 780 | 0.312 |

