

## DESCRIPTION

The WN Series is a surface wraparound luminaire featuring energy efficient performance. The luminaire's clean, low profile design is both appealing and functional. The WN Series utilizes a clear, low brightness, extruded acrylic refractor for high performance and aesthetics.

The efficient and stylish WN Series is the perfect wraparound for residential applications.

| Catalog #   |  | Type |  |
|-------------|--|------|--|
| Project     |  |      |  |
| Comments    |  | Date |  |
| Prepared by |  |      |  |

## SPECIFICATION FEATURES

### Construction

Housing consists of die formed cold rolled steel. Ends formed with the housing for strength and provisions for continuous row aligners. Steel end plates with 7/8" KO and light-seal embossment. Ballast cover easily removed without tools.

### Electrical\*

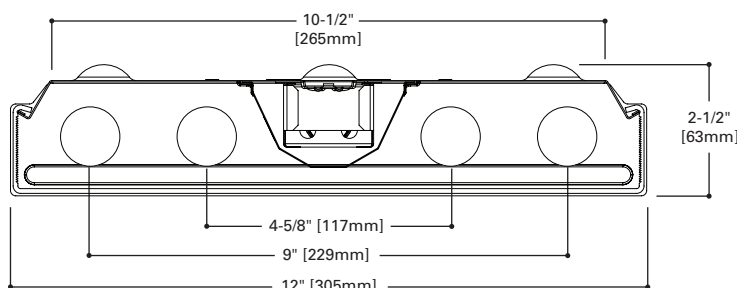
Residential electronic instant start ballast. 120V. Rotor lock lampholders. UL/CUL, Energy Star listed. Suitable for damp locations.

### Finish

Multistage, prepaint ensures maximum bonding and rust prevention.

### Lens

100% clear acrylic prismatic lens. Sides have inside linear prisms and bottom has pyramidal prisms for low brightness control.

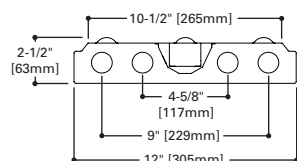


**WN  
432R**

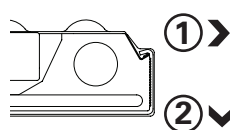
**4' SURFACE  
4 T8 LAMPS**

Residential Wrap

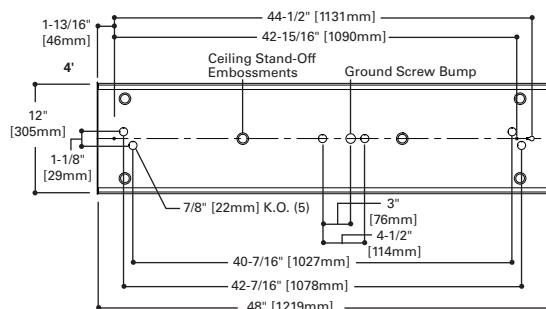
## LAMP CONFIGURATIONS



## LENS REMOVAL



## MOUNTING DATA



## ENERGY DATA

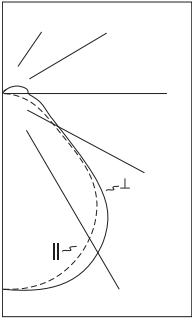
Input Watts:  
**REB1 Ballast & STD Lamps**  
432 (102)

Luminaire Efficacy Rating  
**LER = FW-84**  
**Catalog Number: WN-432R**  
**Yearly Cost of 1000 lumens,**  
**3000 hrs at .08 KWH = \$2.86**

\*Reference the lamp/ballast data in the Technical Section for specific lamp/ballast requirements.

LAMPS CONTAIN MERCURY. DISPOSE ACCORDING TO LOCAL, STATE OR FEDERAL LAWS

## PHOTOMETRICS

**WN-432R**Energy Saving  
BallastF32T8/35K Lamps  
3100 LumensSpacing criterion:  
(H) 1.3 x mounting  
height, (⊥) 1.4 x  
mounting height

Efficiency 79.1%

Test Report:  
134P131

LER = FW-84

Yearly Cost of 1000  
lumens, 3000 hrs at  
.08 KWH = \$2.86**Coefficients of Utilization**

| Effective floor cavity reflectance |     |    |    |    |     |    |    |    |     | 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 | 0  |  |
| RCR                                |     |    |    |    |     |    |    |    |     |     |    |     |    |    |     |    |    |    |  |
| 0                                  | 93  | 93 | 93 | 93 | 90  | 90 | 90 | 90 | 84  | 84  | 84 | 79  | 79 | 79 | 74  | 74 | 74 | 72 |  |
| 1                                  | 85  | 81 | 77 | 74 | 82  | 78 | 75 | 73 | 74  | 71  | 69 | 69  | 67 | 66 | 66  | 64 | 63 | 60 |  |
| 2                                  | 77  | 71 | 66 | 61 | 75  | 69 | 64 | 60 | 65  | 61  | 58 | 61  | 58 | 55 | 58  | 55 | 53 | 51 |  |
| 3                                  | 71  | 63 | 57 | 52 | 68  | 61 | 55 | 51 | 58  | 53  | 49 | 55  | 51 | 47 | 52  | 48 | 46 | 44 |  |
| 4                                  | 65  | 56 | 49 | 44 | 63  | 54 | 48 | 43 | 52  | 46  | 42 | 49  | 44 | 41 | 46  | 43 | 40 | 38 |  |
| 5                                  | 60  | 50 | 43 | 38 | 58  | 49 | 43 | 38 | 46  | 41  | 37 | 44  | 39 | 36 | 42  | 38 | 35 | 33 |  |
| 6                                  | 55  | 45 | 38 | 34 | 53  | 44 | 38 | 33 | 42  | 36  | 32 | 40  | 35 | 32 | 38  | 34 | 31 | 29 |  |
| 7                                  | 51  | 41 | 34 | 30 | 50  | 40 | 34 | 29 | 38  | 33  | 29 | 37  | 32 | 28 | 35  | 31 | 27 | 26 |  |
| 8                                  | 48  | 38 | 31 | 27 | 46  | 37 | 31 | 26 | 35  | 30  | 26 | 34  | 29 | 25 | 32  | 28 | 25 | 23 |  |
| 9                                  | 45  | 34 | 28 | 24 | 43  | 34 | 28 | 24 | 32  | 27  | 23 | 31  | 26 | 23 | 30  | 25 | 22 | 21 |  |
| 10                                 | 42  | 32 | 26 | 22 | 41  | 31 | 25 | 21 | 30  | 25  | 21 | 29  | 24 | 21 | 28  | 23 | 20 | 19 |  |

**Zonal Lumen Summary**

| Zone   | Lumens | %Lamp | %Fixture |
|--------|--------|-------|----------|
| 0-30   | 2652   | 21.4  | 27.0     |
| 0-40   | 4407   | 35.5  | 44.9     |
| 0-60   | 7345   | 59.2  | 74.8     |
| 0-90   | 8954   | 72.2  | 91.2     |
| 90-180 | 860    | 6.9   | 8.8      |
| 0-180  | 9814   | 79.1  | 100.0    |

**Typical VCP Percentages**

| Room Size (Ft.) | Height Along |       | Height Across |       |
|-----------------|--------------|-------|---------------|-------|
|                 | 8.5'         | 10.0' | 8.5'          | 10.0' |
| 20 x 20         | 45           | 51    | 40            | 47    |
| 30 x 30         | 38           | 42    | 30            | 36    |
| 30 x 60         | 32           | 35    | 16            | 21    |
| 60 x 30         | 37           | 42    | 33            | 39    |
| 60 x 60         | 30           | 33    | 18            | 22    |

**Candela**

| Angle | Along H | 45°  | Across ⊥ |
|-------|---------|------|----------|
| 0     | 3220    | 3220 | 3220     |
| 5     | 3225    | 3244 | 3247     |
| 10    | 3206    | 3249 | 3276     |
| 15    | 3158    | 3236 | 3288     |
| 20    | 3071    | 3194 | 3264     |
| 25    | 2952    | 3117 | 3192     |
| 30    | 2802    | 3002 | 3071     |
| 35    | 2623    | 2843 | 2905     |
| 40    | 2402    | 2629 | 2683     |
| 45    | 2100    | 2316 | 2319     |
| 50    | 1650    | 1842 | 1773     |
| 55    | 1174    | 1394 | 1305     |
| 60    | 902     | 1067 | 1019     |
| 65    | 714     | 806  | 844      |
| 70    | 561     | 608  | 739      |
| 75    | 408     | 463  | 661      |
| 80    | 258     | 366  | 567      |
| 85    | 123     | 286  | 476      |
| 90    | 6       | 196  | 407      |

**ORDERING INFORMATION**

SAMPLE NUMBER: WN432R

| Length          | Series <sup>(1)</sup> | Number of Lamps <sup>(2)</sup> | Wattage         | Application   |
|-----------------|-----------------------|--------------------------------|-----------------|---------------|
| Blank=4' Length | WN=Surface Wrap       | 4=4 Lamps<br>(Not Included)    | 32=32W T8 (48") | R=Residential |

**ACCESSORIES**WN-4LT-DEC-ENDS=Decorative End  
Caps - 3 or 4 Lamps (2 pieces)

**NOTES:** <sup>(1)</sup> Steel endplates with 7/8" KO standard for continuous row mount. <sup>(2)</sup> 2 point suspension recommended (up to 4').  
For complete product data, reference the Fluorescent Specification binder. Specifications & dimensions subject to change without notice. Consult your Cooper Lighting Solutions Representative for availability and ordering information.

**SHIPPING DATA**

| Catalog No. | Wt.     |
|-------------|---------|
| WN-432R     | 25 lbs. |