

# COOPER LIGHTING SOLUTIONS - METALUX®

## DESCRIPTION

The Ovation Series is a complete family of recessed direct/indirect luminaires featuring pleasant, modern architectural styling, computer-designed optics and the latest energy efficient lamp and ballast technology. The luminaire combines a matte white indirect reflector and a perforated direct lamp shield to provide optimum brightness control. All components are located above the ceiling plane for a clean architectural appearance in the finished space. Carefully balanced design elements combine to provide an efficient and exciting high performance alternative to traditional general lighting. Ovation is an excellent choice for a wide variety of commercial applications.

|                    |  |             |
|--------------------|--|-------------|
| <b>Catalog #</b>   |  | <b>Type</b> |
| <b>Project</b>     |  |             |
| <b>Comments</b>    |  | <b>Date</b> |
| <b>Prepared by</b> |  |             |

## SPECIFICATION FEATURES

### Construction

Nominal 6" deep housing is die formed of code gauge, prime cold rolled steel. Heavy gauge end plates are securely attached with screws for strength and rigidity and the elimination of gaps. Four auxiliary fixture end suspension points are provided. KOs for continuous row wiring. Large access plate for supply connection.

### Electrical \*

Ballasts are CBM/ETL Class "P" and are positively secured. Biax models use 2G11 base lampholders with double edge wiping action pressure lock contacts and vertically oriented lamp support clips. T8 models use rotor-lock lampholders for positive lamp retention. UL/CUL listed. Suitable for damp locations.

### Ballast Access

Ballast can be removed from below without tools or from above using the unique ballast mounting/access plate.<sup>3</sup>

### Finish

Durable cold rolled steel with multistage, iron phosphate pretreatment and white enamel finish to ensure maximum bonding and rust inhibition.

### Reflectors

Indirect reflector has high reflectance baked matte white enamel finish for luminous uniformity. A positively retained direct lamp shield is constructed of heavy gauge perforated steel with high reflectance matte white painted after fabrication finish and milky white overlay diffuser for visual comfort. All reflectors are precision formed in a computer-controlled operation.

### Controls

Fifth Light ballast options are offered for both 0-10V continuous dimming and DALI applications. Combine with energy-saving products like occupancy sensors, daylighting controls, and lighting relay panels from Cooper Lighting Solutions ([www.cooperlighting.com](http://www.cooperlighting.com)) to maximize energy savings.

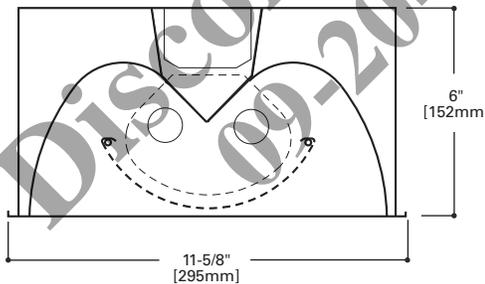


**RDI**  
**232**  
**T2BX40**

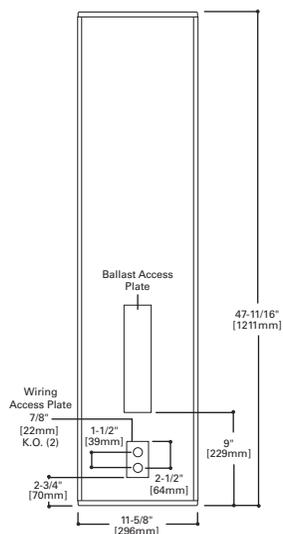
**T8 OR BIAXIAL LAMPS**

1' X 4' Recessed  
Direct/Indirect  
Center-Mount

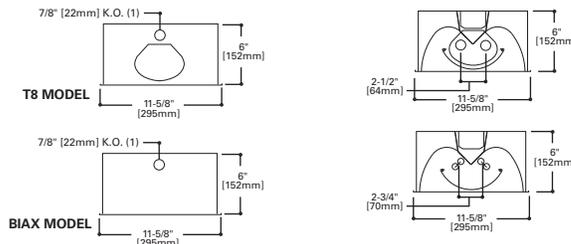
*Ovation™*



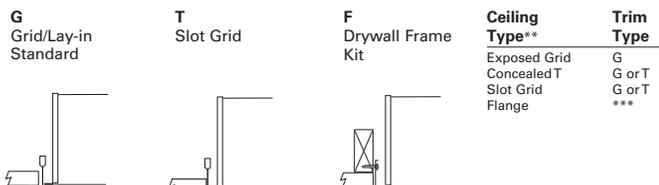
## MOUNTING DATA



## LAMP CONFIGURATIONS



## CEILING COMPATIBILITY



## ENERGY DATA

Input Watts:

**EB Ballast & STD Lamps**

232 (61)  
T2BX40 (140)  
T2BX50 (212)  
T2BX55 (220)

**ES Ballast & STD Lamps**

232 (71)

**STD Ballast & STD Lamps**

T2BX40 (164)

Luminaire Efficacy Rating

LER = FD49

Catalog Number: **RDI-232RP**

Yearly Cost of 1000 lumens,  
3000 hrs at .08 KWH = \$4.90

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

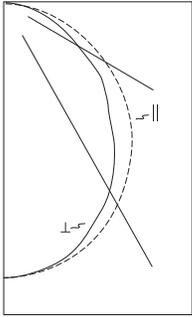
LAMPS CONTAIN MERCURY. DISPOSE ACCORDING TO LOCAL, STATE OR FEDERAL LAWS

**LINEAR DISCONNECT**

Safe and convenient means of disconnecting power.



PHOTOMETRICS



**RDI-232RP**  
 Electronic Ballast  
 F32T8/35K Lamps  
 2800 Lumens

Spacing criterion:  
 (H) 1.2 x mounting  
 height, (S) 1.2 x  
 mounting height

Efficiency 57.0 %

Test Report:  
 RDISYM232RPIES

LER = FD49

Yearly Cost of 1000  
 lumens, 3000 hrs at  
 .08 KWH = \$4.90

**Coefficients of Utilization**

| rc         | Effective floor cavity reflectance |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |    |   |  |  |
|------------|------------------------------------|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|----|---|--|--|
|            | 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 |  |  |
| <b>RCR</b> | <b>0</b>                           | 68 | 68 | 68 | 68  | 66 | 66 | 66 | 66  | 63 | 63 | 63 | 61  | 61 | 61 | 58 | 58  | 58 | 57 |    |    |   |  |  |
|            | <b>1</b>                           | 63 | 60 | 58 | 56  | 61 | 59 | 57 | 55  | 57 | 55 | 54 | 55  | 53 | 52 | 53 | 51  | 51 | 49 |    |    |   |  |  |
|            | <b>2</b>                           | 58 | 54 | 50 | 47  | 56 | 53 | 49 | 47  | 51 | 48 | 46 | 49  | 47 | 45 | 47 | 45  | 44 | 42 |    |    |   |  |  |
|            | <b>3</b>                           | 53 | 48 | 44 | 40  | 52 | 47 | 43 | 40  | 45 | 42 | 39 | 44  | 41 | 39 | 42 | 40  | 38 | 37 |    |    |   |  |  |
|            | <b>4</b>                           | 49 | 43 | 38 | 35  | 48 | 42 | 38 | 34  | 41 | 37 | 34 | 39  | 36 | 33 | 38 | 35  | 33 | 32 |    |    |   |  |  |
|            | <b>5</b>                           | 45 | 38 | 33 | 30  | 44 | 37 | 33 | 29  | 36 | 32 | 29 | 35  | 32 | 29 | 34 | 31  | 28 | 27 |    |    |   |  |  |
|            | <b>6</b>                           | 41 | 34 | 29 | 26  | 40 | 34 | 29 | 26  | 33 | 29 | 25 | 32  | 28 | 25 | 31 | 28  | 25 | 24 |    |    |   |  |  |
|            | <b>7</b>                           | 38 | 31 | 26 | 23  | 37 | 30 | 26 | 22  | 29 | 25 | 22 | 29  | 25 | 22 | 28 | 25  | 22 | 21 |    |    |   |  |  |
|            | <b>8</b>                           | 35 | 28 | 23 | 20  | 34 | 27 | 23 | 20  | 27 | 22 | 19 | 26  | 22 | 19 | 25 | 22  | 19 | 18 |    |    |   |  |  |
|            | <b>9</b>                           | 32 | 25 | 20 | 17  | 32 | 25 | 20 | 17  | 24 | 20 | 17 | 23  | 20 | 17 | 23 | 19  | 17 | 16 |    |    |   |  |  |
|            | <b>10</b>                          | 30 | 23 | 18 | 15  | 29 | 22 | 18 | 15  | 22 | 18 | 15 | 21  | 18 | 15 | 21 | 17  | 15 | 14 |    |    |   |  |  |

**Zonal Lumen Summary**

| Zone  | Lumens | %Lamp | %Fixture |
|-------|--------|-------|----------|
| 0-30  | 977    | 17.4  | 30.6     |
| 0-40  | 1569   | 28.0  | 49.1     |
| 0-60  | 2638   | 47.1  | 82.6     |
| 0-90  | 3193   | 57.0  | 100.0    |
| 0-180 | 3193   | 57.0  | 100.0    |

**Typical VCP Percentages**

| Room Size (Ft.) | Height Along |       | Height Across |       |
|-----------------|--------------|-------|---------------|-------|
|                 | 8.5'         | 10.0' | 8.5'          | 10.0' |
| 20 x 20         | 58           | 63    | 61            | 67    |
| 30 x 30         | 55           | 57    | 58            | 60    |
| 30 x 60         | 51           | 51    | 55            | 55    |
| 60 x 30         | 59           | 61    | 62            | 63    |
| 60 x 60         | 55           | 54    | 57            | 57    |

**Candela**

| Angle | Along H | 45°  | Across ⊥ |
|-------|---------|------|----------|
| 0     | 1284    | 1284 | 1284     |
| 5     | 1275    | 1279 | 1278     |
| 10    | 1258    | 1259 | 1255     |
| 15    | 1230    | 1225 | 1212     |
| 20    | 1190    | 1175 | 1148     |
| 25    | 1138    | 1109 | 1073     |
| 30    | 1075    | 1030 | 990      |
| 35    | 1003    | 941  | 895      |
| 40    | 922     | 846  | 789      |
| 45    | 834     | 743  | 691      |
| 50    | 738     | 628  | 598      |
| 55    | 637     | 521  | 503      |
| 60    | 532     | 420  | 407      |
| 65    | 426     | 324  | 314      |
| 70    | 323     | 235  | 229      |
| 75    | 224     | 154  | 151      |
| 80    | 124     | 87   | 85       |
| 85    | 40      | 37   | 38       |
| 90    | 0       | 0    | 0        |

Discontinued  
09-20-2021

**ORDERING INFORMATION**

SAMPLE NUMBER: RDI-232RP-120V-EB51-U

|   |   |  |  |  |
|---|---|--|--|--|
| <p><b>Width</b><br/>Leave Blank=<br/>1' Width</p>                                   | <p><b>Number of Lamps</b><br/>2=2 Lamps<br/>(T8 only)<br/>T2=4 Biax Lamps-<br/>2 Lamps at each<br/>end of the fixture</p> | <p><b>Lamp Shield</b><br/>X=Solid Matte White<br/>RP=Round Perforated<br/>White Steel</p>  | <p><b>Ballast Type</b><br/>Blank=Standard Magnetic Ballast (40W Biax only)<br/>EB8_=T8 Electronic Start.<br/>Total Harmonic Distortion &lt; 10%<br/>EB8_/PLUS=T8 Electronic Start.<br/>Total Harmonic Distortion &lt; 10%.<br/>High Ballast Factor &gt; 1.15.<br/>ER8_=T8 Electronic Program Rapid Start.<br/>Total Harmonic Distortion &lt; 10%<br/>EB5_=T5 Biax Electronic Instant Start <sup>(4)</sup><br/>Total Harmonic Distortion &lt; 20%<br/>TEB5_=T5 Biax Electronic Instant Start <sup>(4)</sup><br/>Total Harmonic Distortion &lt; 10%<br/>ER5_=T5 Biax Electronic Program Rapid Start.<br/>Total Harmonic Distortion &lt; 10%<br/><b>High Performance T8 Ballasts</b><br/>HB8_=T8 Electronic Instant Start.<br/>Total Harmonic Distortion &lt; 10%.<br/>Standard Ballast Factor .86 - .88<br/>HB8_L=T8 Electronic Instant Start.<br/>Total Harmonic Distortion &lt; 10%.<br/>Low Ballast Factor .77 - .82<br/>HB8_N=T8 Electronic Instant Start.<br/>Total Harmonic Distortion &lt; 10%.<br/>Normal Ballast Factor 1.0<br/>HB8_H=T8 Electronic Instant Start.<br/>Total Harmonic Distortion &lt; 10%.<br/>High Ballast Factor 1.15 - 1.20<br/>HR8_T8=T8 Electronic Program Rapid Start.<br/>Total Harmonic Distortion &lt; 10%.<br/>Standard Ballast Factor .86 - .88<br/>HR8_DIM=T8 Electronic Program Rapid Start.<br/>Total Harmonic Distortion &lt; 10%.<br/>Step Dimming. Ballast Factor .88<br/>HR8_L=T8 Electronic Program Rapid Start.<br/>Total Harmonic Distortion &lt; 10%.<br/>Low Ballast Factor .71 - .79<br/>HR8_H=T8 Electronic Program Rapid Start.<br/>Total Harmonic Distortion &lt; 10%.<br/>High Ballast Factor 1.15 - 1.20<br/><b>0-10V Dimming Ballasts <sup>(5)</sup></b><br/>5LTV8_=T8 0-10V Program Rapid Start.<br/>Total Harmonic Distortion &lt; 10%.<br/>Ballast Factor 0.87 <sup>(6)</sup><br/>5LTVS8_=T8 0-10V Spec Grade Program Rapid<br/>Start. Total Harmonic Distortion &lt; 10%.<br/>Ballast Factor 0.87 <sup>(6), (7)</sup><br/><b>Fifth Light DALI Ballasts <sup>(8)</sup></b><br/>5LT8_=T8 DALI Program Rapid Start.<br/>Total Harmonic Distortion &lt; 10%.<br/>Ballast Factor 1.0<br/>5LT5B_=T5 Biax DALI Program Rapid Start.<br/>Total Harmonic Distortion &lt; 10%.<br/>Ballast Factor 1.0</p> | <p><b>Options</b><br/>RLS=Rotor-Lock Socket<br/>(T8 Lamps Only)<br/>RIF1=Radio Interference<br/>Suppressor<br/>REP=Riveted Endplates<br/>LSC=Lamp Shield Cable<br/>ST=Semi-Specular<br/>Tannenbaum</p> |
| <p><b>Series</b><br/>RDI=Ovation Series<br/>(Recessed<br/>Direct/Indirect)</p>      | <p><b>Wattage</b><br/>32=32W T8 (48")<br/>BX40=40W Biax (24")<br/>BX50=50W Biax (24")<br/>BX55=55W Biax (24")</p>         | <p><b>Voltage <sup>(1)</sup></b><br/>120V=120 Volt<br/>277V=277 Volt<br/>347V=347 Volt<br/>UNV=Universal<br/>Voltage 120-277</p>                         | <p><b>Packaging</b><br/>U=Unit Pack<br/>PALC=Job Pack, in carton</p>   |  |
| <p><b>Trim Type</b><br/>Leave Blank=Grid/Lay-in<br/>(Standard)</p>                  |   | <p><b>Options</b><br/>GL=Single Element Fuse<br/>GM=Double Element Fuse<br/>Lamps=Lamps installed<br/>Flex=Flex installed<br/>EL=Emergency Installed</p> | <p><b>ACCESSORIES</b><br/>EQ-CLIP-U=T-BAR Safety<br/>Earthquake Clips<sup>(2)</sup><br/>DF-14-W=Drywall Frame Kit</p>  |  |
| <p><b>Lamp Position</b><br/>Leave Blank=Center<br/>Mounted Lamps<br/>(Standard)</p> |   |  |  |  |

**NOTES:** <sup>(1)</sup> Products also available in non-US voltages and frequencies for international markets. <sup>(2)</sup> An EQ Grid Clip is recommended for all 9/16" ceiling systems. Four required per fixture. <sup>(3)</sup> For a complete listing of Fifthlight Technology products and other solutions from Cooper Lighting Solutions, visit [www.cooperlighting.com](http://www.cooperlighting.com) <sup>(4)</sup> Not available in UNV voltages. Must specify voltage. <sup>(5)</sup> 0-10V ballast do not include DALI feature. Please select DALI ballast for use with Fifth Light system. <sup>(6)</sup> Specification grade 0-10V dimming ballast are NEMA premium and CEE listed. They are compatible with low mercury and energy saving lamps. <sup>(7)</sup> Specification Grade 0-10V ballast not available for Biax lamps. <sup>(8)</sup> Standard 0-10V ballast not available for Biax lamps.

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.

**Number of Ballasts**  
1=1 Ballast  
2=2 Ballasts  
3=3 Ballasts

**SHIPPING INFORMATION**

| Catalog No. | Wt.     |
|-------------|---------|
| RDI-232RP   | 18 lbs. |
| RDI-T2BX40  | 18 lbs. |