

## 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. The 2RDI-IC is designed for installations when the housing will be in direct contact with insulation. Carefully balanced design elements combine to provide an efficient and exciting alternative to traditional general lighting. Ovation is an excellent choice for a wide variety of commercial applications.

## 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. KO's for continuous row wiring. Large access plate for supply connection.

### Ballast Access

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

### 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 for Type IC Recessed Luminaire (Rated for direct contact with insulation) Suitable for damp locations.

### Finish

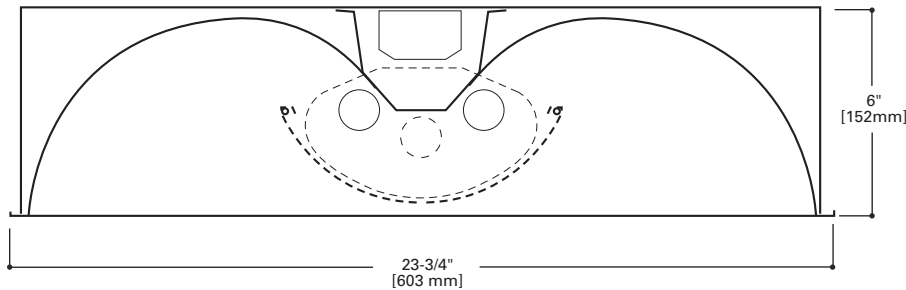
Durable cold rolled steel with multi-stage, iron phosphate pretreatment and white enamel finish to ensure maximum bonding and rust inhibition.

### Reflectors

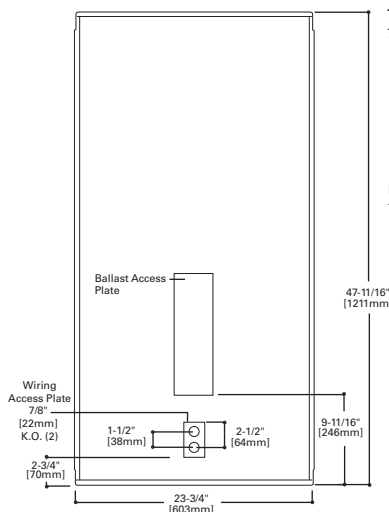
Indirect reflector has high reflectance baked matte white enamel finish for luminous uniformity. Positively retained direct lamp shield is constructed of heavy gauge perforated steel with high reflectance painted after fabrication finish and milky white overlay diffuser for visual comfort. All reflectors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

### Controls

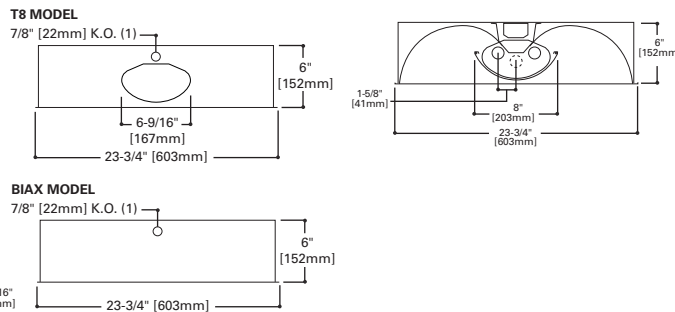
Fifth Light ballast options are offered for both 0-10V continuous dimming and DALI applications. Combine with energysaving products like occupancy sensors, daylighting controls, and lighting relay panels from Cooper Controls ([www.coopercontrol.com](http://www.coopercontrol.com)) to maximize energy savings.



## MOUNTING DATA



## LAMP CONFIGURATIONS



## CEILING COMPATIBILITY

G Grid/Lay-in Standard	T Slot Grid	F Drywall Frame Kit	Ceiling Type**	Trim Type
			Exposed Grid	G
			Concealed T	G or T
			Slot Grid	G or T
			Flange	***



## 2RDI-IC

128T8

132

228T8

232

328T8

332

T1BX, T2BX

## T8 OR BIAxIAL LAMPS

2' X 4' Recessed  
Direct/Indirect  
Center-Mount  
For Use in  
Insulated Ceilings.

*Ovation™*



## ENERGY DATA

Input Watts:

**EB Ballast & STD Lamps**

128T8 (28), 228T8 (49), 328T8 (98)

132 (32), 232 (61), 332 (91),

T1BX40 (70), T2BX40 (140),

T1BX50 (106), T1 BX55 (110)

**LER = FL65**

**Catalog Number: 2RDI-IC-232RP**

**Yearly Cost of 1000 lumens,**

**3000 hrs at .08 KWH = \$3.69**

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

\*\*Consult Pre Sales Technical Support.

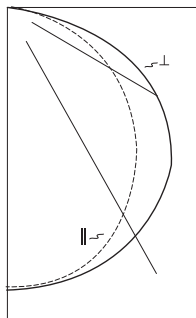
**LAMPS CONTAIN MERCURY. DISPOSE ACCORDING TO  
LOCAL, STATE OR FEDERAL LAWS**

**LINEAR DISCONNECT**

Safe and convenient means of  
disconnecting power.



## PHOTOMETRICS

**2RDI-IC-232RP**

Electronic Ballast

F032/830/XP3 Lamps

3100 Lumens

Spacing criterion:  
(Il) 1.2 x mounting  
height, (⊥) 1.4 x  
mounting height

Efficiency 70.7 %

Test Report:

2RDI-IC-232RP/IES

LER = FL61

Yearly Cost of 1000  
lumens, 3000 hrs at  
.08 KWH = \$3.93

**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	84	84	84	84	82	82	82	82	79	79	79	75	75	75	72	72	72	71			
1	77	73	70	67	75	71	68	66	68	66	64	66	64	62	63	61	60	58			
2	69	63	58	54	67	62	57	53	59	55	52	57	54	51	55	52	50	48			
3	63	55	49	44	61	54	48	44	52	47	43	50	46	42	48	45	42	40			
4	57	49	42	37	56	48	42	37	46	41	36	44	40	36	43	39	35	34			
5	53	43	37	32	51	42	36	32	41	35	31	39	35	31	38	34	31	29			
6	48	39	32	28	47	38	32	27	37	31	27	36	31	27	34	30	27	25			
7	45	35	29	24	44	34	28	24	33	28	24	32	27	24	31	27	24	22			
8	42	32	26	21	41	31	25	21	30	25	21	30	25	21	29	24	21	20			
9	39	29	23	19	38	29	23	19	28	23	19	27	22	19	26	22	19	18			
10	36	27	21	17	36	27	21	17	26	21	17	25	20	17	24	20	17	16			

**Zonal Lumen Summary**

Zone	Lumens	%Lamp	%Fixture
0-30	1088.56	17.6	24.8
0-40	1810.67	29.2	41.3
0-60	3339.06	53.9	76.2
0-90	4383.85	70.7	100.0
0-180	4383.85	70.7	100.0

**Luminance Data**

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
0-30	1801	2068	2279
0-40	1693	2130	2393
0-60	1519	2142	2380
0-90	1284	1893	2125
0-180	953	1397	1545

**Candela**

Angle	Along Il	45°	Across
0	1372	1372	1372
5	1367	1370	1374
10	1348	1357	1365
15	1316	1334	1351
20	1273	1302	1332
25	1216	1261	1304
30	1148	1212	1271
35	1071	1156	1231
40	984	1092	1182
45	889	1021	1125
50	785	941	1053
55	678	853	958
60	564	753	846
65	448	632	702
70	335	498	539
75	232	342	384
80	139	205	228
85	58	85	94
90	0	0	0

## ORDERING INFORMATION

SAMPLE NUMBER: 2RDI-IC-232RP-120V-EB51-U

**Rating**  
**Blank**=  
 Standard  
**NY**=New York  
 City Rated  
**ATW-SW4**=  
 Chicago  
 Rated

**Width**  
**2**=2' Width

**Series**  
**RDI**=Ovation Series  
 (Recessed  
 Direct/Indirect)

**Trim Type**  
**Leave Blank**=Grid/Lay-in  
 (Standard)

**Type**  
**IC**=IC Rated

**Lamp Position**  
**Leave Blank**=Center Mounted  
 Lamps (Standard)

**Number of Lamps**  
**1**=1 Lamp  
**2**=2 Lamp  
**3**=3 Lamp  
**T1**=2' x 4'  
 Fixture  
 with One  
 Biax Lamp  
 at Each  
 End<sup>(1)</sup>  
**T2**=2' x 4'  
 Fixture  
 with Two  
 Biax  
 Lamps at  
 Each End

**Wattage**  
**28T8**=28W T8 (48")  
**32**=32W T8 (48")  
**BX40**=40W Biax (24")  
**BX50**=50W Biax (24")<sup>(1)</sup>  
**BX55**=55W Biax (24")<sup>(1)</sup>

**Lamp Shield**  
**RP**=Round  
 Perforated  
 White Steel

**Voltage**<sup>(2)</sup>  
**120V**=120 Volt  
**277V**=277 Volt  
**347V**=347 Volt  
**UNV**=Universal  
 Voltage 120-277

**Options**  
**GL**=Single Element Fuse  
**GM**=Double Element Fuse  
**Lamps**=Lamps Installed  
**Flex**=Flex Installed  
**EL**=Emergency Installed

**Ballast Type**

**Blank**=Standard Magnetic Biax Ballast  
**EB8**=T8 Electronic Start.  
 Total Harmonic Distortion < 10%  
**EB8**\_/PLUS= T8 Electronic Start.  
 Total Harmonic Distortion < 10%.  
 High Ballast Factor > 1.15.  
**ER8**=T8 Electronic Program Rapid Start.  
 Total Harmonic Distortion < 10%  
**EB5**=T5 Biax Electronic Instant Start.  
 Total Harmonic Distortion < 20%<sup>(4)</sup>  
**TEB5**=T5 Biax Electronic Instant Start.  
 Total Harmonic Distortion < 10%<sup>(4)</sup>  
**ER5**=T5 Biax Electronic Program Rapid Start.  
 Total Harmonic Distortion < 10%

**High Performance T8 Ballasts**

**HB8**=T8 Electronic Instant Start.  
 Total Harmonic Distortion < 10%.  
 Standard Ballast Factor .86 – .88  
**HB8**\_L=T8 Electronic Instant Start.  
 Total Harmonic Distortion < 10%.  
 Low Ballast Factor .77 – .82  
**HB8**\_N=T8 Electronic Instant Start.  
 Total Harmonic Distortion < 10%.  
 Normal Ballast Factor 1.0  
**HB8**\_H=T8 Electronic Instant Start.  
 Total Harmonic Distortion < 10%.  
 High Ballast Factor 1.15 – 1.20  
**HR8**\_T8 Electronic Program Rapid Start.  
 Total Harmonic Distortion < 10%.  
 Standard Ballast Factor .86 – .88  
**HR8**\_DIM=T8 Electronic Program Rapid Start.  
 Total Harmonic Distortion < 10%.  
 Step Dimming. Ballast Factor .88  
**HR8**\_L=T8 Electronic Program Rapid Start.  
 Total Harmonic Distortion < 10%.  
 Low Ballast Factor .71 – .79  
**HR8**\_H=T8 Electronic Program Rapid Start.  
 Total Harmonic Distortion < 10%.  
 High Ballast Factor 1.15 – 1.20

**0-10V Dimming Ballasts**<sup>(6)</sup>

**5LTV8**=T8 0-10V Program Rapid Start.  
 Total Harmonic Distortion < 10%.  
 Ballast Factor 0.87<sup>(10), (11), (12)</sup>  
**5LTVS8**=T8 0-10V Spec Grade Program Rapid Start.  
 Total Harmonic Distortion < 10%.  
 Ballast Factor 0.87<sup>(7), (8), (9)</sup>

**Fifth Light DALI Ballasts**<sup>(5)</sup>

**5LT8**=T8 DALI Program Rapid Start.  
 Total Harmonic Distortion < 10%.  
 Ballast Factor 1.0  
**5LT5B**=T5 Biax DALI Program Rapid Start.  
 Total Harmonic Distortion < 10%.  
 Ballast Factor 1.0

**Number of Ballasts**

**1**=1 Ballast  
**2**=2 Ballasts  
**3**=3 Ballasts

**Options**

**RLS**=Rotor-Lock Socket  
 (T8 Lamps Only)  
**RIF1**=Radio Interference  
 Suppressor  
**REP**=Riveted Endplates  
**LSC**=Lamp Shield Cable  
**ST**=Semi-Specular  
 Tannenbaum

**Packaging**

**U**=Unit Pack  
**PALC**=  
 Palletized Fixtures in  
 Carton

**ACCESSORIES**

**EQ**=T-BAR Safety  
 Earthquake Clips<sup>(3)</sup>  
**DF-24-W**=Drywall Frame Kit

**NOTES:** <sup>(1)</sup> Biax 50 or 55W only available in tandem 1 lamp option. <sup>(2)</sup> Products also available in non-US voltages and frequencies for international markets. <sup>(3)</sup> An EQ Grid Clip is recommended for all 9/16" ceiling systems. Four required per fixture. <sup>(4)</sup> Not available in UNV voltages. Must specify voltage. <sup>(5)</sup> For a complete listing of Fifthlight Technology products and other solutions from Cooper Controls, visit [www.coopercontrol.com](http://www.coopercontrol.com). <sup>(6)</sup> 0-10V ballast do not include DALI feature. Please select DALI ballast for use with Fifth Light system. <sup>(7)</sup> Specification grade 0-10V dimming ballast are NEMA premium and CEE listed. They are compatible with low mercury and energy saving lamps. <sup>(8)</sup> Specification Grade 0-10V ballast not available for Biax lamps. <sup>(9)</sup> Specification Grade 0-10V ballast not offered in 3 or 4-lamp versions. <sup>(10)</sup> Standard 0-10V ballast not available for Biax lamps. <sup>(11)</sup> Standard 0-10V ballast not available for 28W T8 lamps. <sup>(12)</sup> Voltage must be specified for Standard 0-10V 32W 3 and 4-lamp ballast. 4-lamp ballast versions must be 277V.

For complete product data, reference the Fluorescent Specification binder. Specifications & dimensions subject to change without notice. Consult your Cooper Lighting Representative for availability and ordering information.

**SHIPPING INFORMATION**

Catalog No.	Wt.
2RDI-IC-132RP	30 lbs.
2RDI-IC-128T8RP	30 lbs.
2RDI-IC-232RP	30 lbs.
2RDI-IC-228T8RP	30 lbs.
2RDI-IC-332RP	30 lbs.
2RDI-IC-328T8RP	30 lbs.
2RDI-IC-T1BX40	31 lbs.
2RDI-IC-T2BX40	31 lbs.