

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 frosted white acrylic lamp shield. 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.

Catalog #		Type
Project		
Comments		Date
Prepared by		

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.

Electrical*

Ballasts are CBM/ETL Class "P" and are positively secured. 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.

Ballast Access

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

Finish

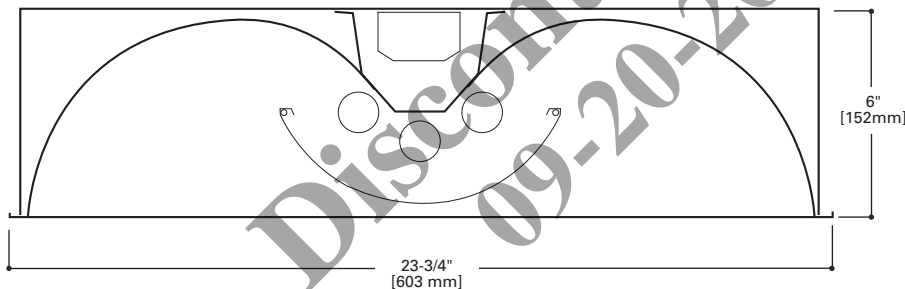
Durable cold rolled steel with multistage, iron phosphate pretreatment and white enamel finish to ensure maximum bonding and rust inhibition.

Reflectors

Indirect reflector has high reflectance baked matte white enamel finish for luminous uniformity. Positively retained direct lamp shields are constructed of frosted white acrylic with linear refractors.

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 Lighting Solutions (www.cooperlighting.com) to maximize energy savings.



2RDI-IC

117

217

317

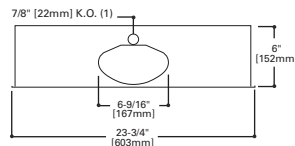
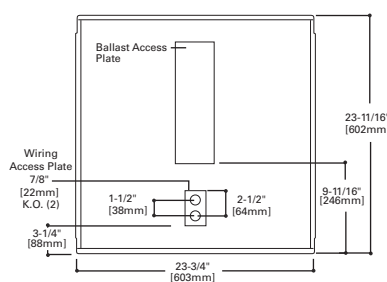
1, 2 OR 3 T8 LAMPS

2' X 2' Recessed
Direct/Indirect
Center-Mount
Frosted Acrylic Basket
For Use in
Insulated Ceilings

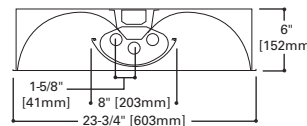
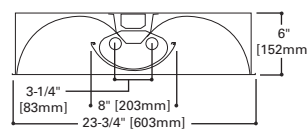
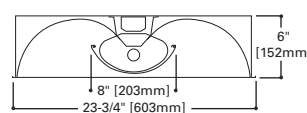
Ovation™



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	***

ENERGY DATA

Input Watts:

EB Ballast & STD Lamps
117 (19), 217 (34), 317 (54)

HB Ballast & STD Lamps
117 (18), 217 (31), 317 (45)

Luminaire Efficacy Rating
LER = FL59

Catalog Number: 2RDI-IC-217FLS

Yearly Cost of 1000 lumens,
3000 hrs at .08 KWH = \$4.06

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

**Consult Pre Sales Technical Support.

***See Drywall Frame Kit Accessory

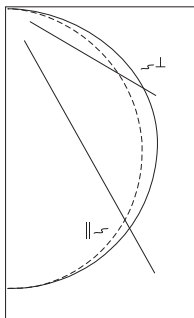
LAMPS CONTAIN MERCURY. DISPOSE ACCORDING TO
LOCAL, STATE OR FEDERAL LAWS

LINEAR DISCONNECT

Safe and convenient means of
disconnecting power.



PHOTOMETRICS



2RDI-IC-217FLS
Electronic Ballast
(2) FO17/35K 17W
F40BX/SPX35/RS
Lamps
1300 Lumens

Spacing criterion:
(||) 1.3 x mounting
height, (⊥) 1.3 x
mounting height
Efficiency 80.4%

Test Report:
2RDI-IC-217FLS.IES
LER = FL59

Yearly Cost of 1000
lumens, 3000 hrs at
.08 KWH = \$4.06

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	96	96	96	96	93	93	93	93	89	89	89	86	86	86	82	82	82	80			
1	87	83	79	76	85	81	77	74	77	75	72	74	72	70	71	69	68	66			
2	79	72	66	61	76	70	65	60	67	63	59	64	61	57	62	59	56	54			
3	71	62	56	50	69	61	55	50	59	53	49	56	52	48	54	50	47	45			
4	65	55	48	42	63	54	47	42	52	46	41	50	45	41	48	44	40	38			
5	60	49	42	36	58	48	41	36	46	40	35	45	39	35	43	38	35	33			
6	55	44	37	31	54	43	36	31	42	36	31	40	35	31	39	34	30	29			
7	51	40	33	27	50	39	32	27	38	32	27	37	31	27	36	31	27	25			
8	47	36	29	24	46	36	29	24	35	29	24	34	28	24	33	28	24	22			
9	44	33	26	22	43	33	26	22	32	26	22	31	26	22	30	25	21	20			
10	41	31	24	20	40	30	24	20	29	24	20	29	23	20	28	23	19	18			

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	523	20.1	25.0
0-40	866	33.3	41.4
0-60	1579	60.7	75.5
0-90	2090	80.4	100.0
0-180	2090	80.4	100.0

Typical VCP Percentages

Room Size (Ft.)	Height Along		Height Across	
	8.5'	10.0'	8.5'	10.0'
20 x 20	63	70	58	66
30 x 30	57	61	52	57
30 x 60	53	55	46	49
60 x 30	59	62	56	60
60 x 60	53	55	48	50

Candela

Angle	Along	45°	Across ⊥
0	662	662	662
5	661	661	661
10	653	654	655
15	639	642	645
20	620	625	631
25	595	603	612
30	566	578	590
35	531	547	563
40	492	512	533
45	450	474	499
50	403	433	462
55	353	388	419
60	300	340	370
65	244	287	314
70	188	231	251
75	132	171	187
80	81	112	121
85	36	54	58
90	3	3	3

ORDERING INFORMATION

SAMPLE NUMBER: 2RDI-IC-217FLS-UNV-HB81-U

Width
 2=2' Width

Series
 RDI=Ovation
 Series
 (Recessed
 Direct/Indirect)

Type
 IC=IC Rated

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

Lamp Position
 Blank=Center
 Mounted Lamps
 (standard)

**Number
 of Lamps**
 1=1 Lamp
 2=2 Lamp
 3=3 Lamp

Wattage
 17=17WT8 (24")

Lamp Shield
 FLS=Frosted Lamp
 Shield⁽¹⁾
Voltage⁽²⁾
 120V=120 Volt
 277V=277 Volt
 347V=347 Volt
 UNV=Universal
 Voltage 120-277

Options
 Lamps=Lamps Installed
 GL=Single Element Fuse
 GM=Double Element Fuse
 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%

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⁽⁶⁾

5LTV8_=T8 0-10V Program Rapid Start.

Total Harmonic Distortion < 10%.

 Ballast Factor 0.87⁽⁹⁾

5LTVS8_=T8 0-10V Spec Grade Program Rapid

Start. Total Harmonic Distortion < 10%.

 Ballast Factor 0.87^{(7), (8)}
Fifth Light DALI Ballasts⁽⁵⁾

5LT8_=T8 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
 RIF1=Radio Interference
 Suppressor

 REP=Riveted Endplates, for
 use in New York City.

ST=Semi-Specular

Tannenbaum Main Reflector

RLS=Rotor-Lock Socket

(T8 Lamps Only)

Packaging

U=Unit Pack

PALC=Job Pack, in carton

ACCESSORIES

EQ-CLIP-U=T-BAR Safety

 Earthquake Clips⁽⁴⁾

DF-22-W=Drywall Frame Kit

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

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 INFORMATION

Catalog No.	Wt.
2RDI-IC-117FLS	19.5 lbs.
2RDI-IC-217FLS	19.5 lbs.
2RDI-IC-317FLS	19.5 lbs.