

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.

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. 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.³

Finish

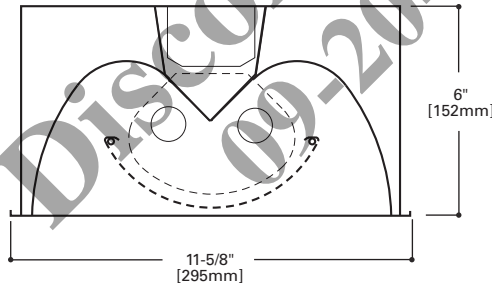
Durable cold rolled steel with multistage, iron phosphate pretreatment and white enamel finish to ensure maximum bonding and rust inhibition.

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) to maximize energy savings.



RDI
232
T2BX40

T8 OR BIAxIAL LAMPS

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

Ovation™

powered by
fifthlight
technology

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**

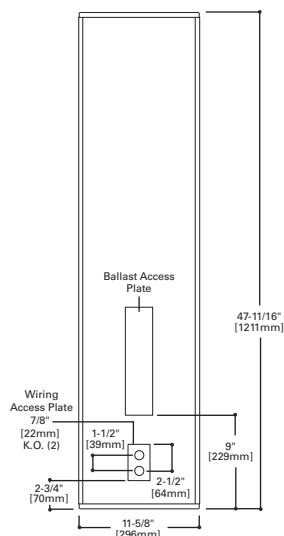
LINEAR DISCONNECT

Safe and convenient means of
disconnecting power.

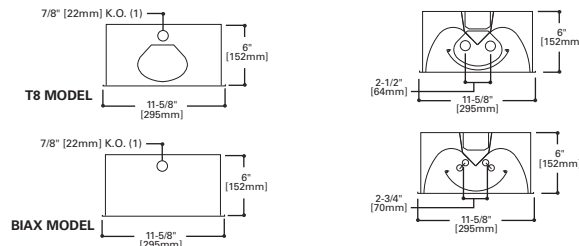


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MOUNTING DATA



LAMP CONFIGURATIONS

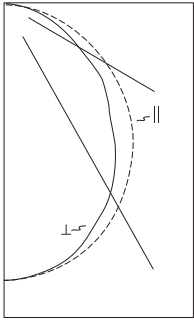


CEILING COMPATIBILITY

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	***

COOPER LIGHTING SOLUTIONS

PHOTOMETRICS

**RDI-232RP**

Electronic Ballast

F32T8/35K Lamps
2800 LumensSpacing criterion:
(\parallel) 1.2 x mounting
height, (\perp) 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**

Effective floor cavity reflectance												
20%												
rc	80%				70%				50%			30%
rw	70	50	30	10	70	50	30	10	50	30	10	50
RCR	70	50	30	10	70	50	30	10	50	30	10	50
0	68	68	68	68	66	66	66	66	63	63	63	61
1	63	60	58	56	61	59	57	55	57	55	54	55
2	58	54	50	47	56	53	49	47	51	48	46	49
3	53	48	44	40	52	47	43	40	45	42	39	44
4	49	43	38	35	48	42	38	34	41	37	34	39
5	45	38	33	30	44	37	33	29	36	32	29	35
6	41	34	29	26	40	34	29	26	33	29	25	32
7	38	31	26	23	37	30	26	22	29	25	22	28
8	35	28	23	20	34	27	23	20	27	22	19	26
9	32	25	20	17	32	25	20	17	24	20	17	23
10	30	23	18	15	29	22	18	15	22	18	15	21

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 \parallel	45°	Across \perp
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

ORDERING INFORMATION

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

Width
Leave Blank=
 1' Width

Series
RDI=Ovation Series
 (Recessed
 Direct/Indirect)

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

Lamp Position
Leave Blank=Center
 Mounted Lamps
 (Standard)

Number of Lamps
2=2 Lamps
 (T8 only)
T2=4 Biax Lamps-
 2 Lamps at each
 end of the fixture

Wattage
32=32W T8 (48")
BX40=40W Biax (24")
BX50=50W Biax (24")
BX55=55W Biax (24")

Lamp Shield
X=Solid Matte White
RP=Round Perforated
 White Steel

Voltage⁽¹⁾
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 Ballast (40W Biax only)
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 ⁽⁴⁾
 Total Harmonic Distortion < 20%.

TEB5_=T5 Biax Electronic Instant Start ⁽⁴⁾
 Total Harmonic Distortion < 10%.

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=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⁽⁵⁾

5LTV8_=T8 0-10V Program Rapid Start.
 Total Harmonic Distortion < 10%.
 Ballast Factor 0.87 ⁽⁶⁾

5LTVS8_=T8 0-10V Spec Grade Program Rapid
 Start. Total Harmonic Distortion < 10%.
 Ballast Factor 0.87 ^{(6), (7)}

Fifth Light DALI Ballasts⁽⁸⁾

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=Job Pack, in carton

ACCESSORIES

EQ-CLIP-U=T-BAR Safety
 Earthquake Clips⁽²⁾
DF-14-W=Drywall Frame Kit

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

SHIPPING INFORMATION

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