

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 Class "P" and are positively secured. Rotor-lock lampholders ensure 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.

Finish

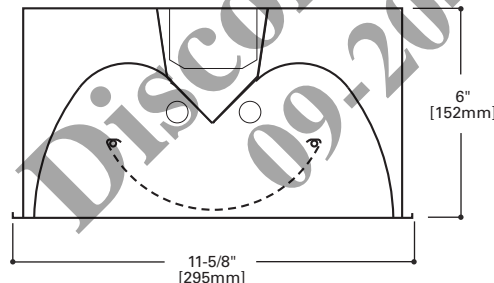
Durable cold rolled steel with multistage, iron phosphate pretreatment and white enamel finish to ensure maximum bonding and rust inhibition.

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
228T5
254T5

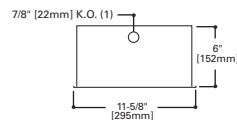
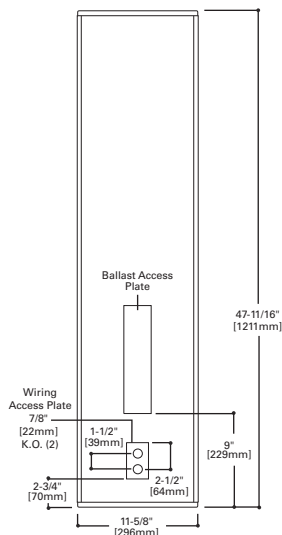
T5 OR T5HO LAMPS

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

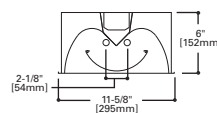
Ovation
T5

powered by
fifthlight
technology

MOUNTING DATA



LAMP CONFIGURATIONS



CEILING COMPATIBILITY

G
Grid/Lay-in
Standard



T
Slot Grid



F
Dry Wall
Frame Kit



**Ceiling
Type**

Exposed Grid
Concealed T
Slot Grid
Flange

(Verify compatibility/ consult factory.)

**Trim
Type**

G
G or T
G or T
F

ENERGY DATA

Input Watts:

EB Ballast & STD Lamps

228T5 (68)

254T5 (106)

Luminaire Efficacy Rating

LER =FD

Catalog Number: RDI-228T5

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

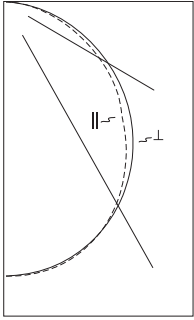
**LAMPS CONTAIN MERCURY. DISPOSE ACCORDING TO
LOCAL, STATE OR FEDERAL LAWS**

LINEAR DISCONNECT

Safe and convenient means of
disconnecting power.



PHOTOMETRICS

**RDI-232RP**

Electronic Ballast

(2) FO32/35K Lamps
2800 LumensSpacing criterion:
(H) 1.2 x mounting
height, 1.2 x mounting
height

Efficiency 61.5%

Test Report:
RDI232RPIES

LER = FD

Coefficients of Utilization

		Effective floor cavity reflectance								20%							
		80%				70%				50%				30%			
rc																	
rw		70	50	30	10	70	50	30	10	50	30	10		50	30	10	0
RCR																	
0		73	73	73	73	71	71	71	71	68	68	68		65	65	65	61
1		67	64	62	59	65	63	60	58	60	58	56		58	56	55	52
2		61	56	52	49	59	55	51	48	53	50	47		51	48	46	43
3		56	49	44	41	54	48	44	40	47	43	39		45	42	39	37
4		51	44	39	34	50	43	38	34	42	37	34		40	36	33	32
5		47	39	34	30	46	39	33	30	37	33	29		36	32	29	27
6		44	35	30	26	42	35	30	26	34	29	26		33	29	25	24
7		40	32	27	23	39	32	27	23	31	26	23		30	26	23	21
8		38	29	24	21	37	29	24	21	28	24	20		27	23	20	19
9		35	27	22	19	34	27	22	19	26	22	18		25	21	18	17
10		33	25	20	17	32	25	20	17	24	20	17		23	19	17	16

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	994	17.8	28.9
0-40	1613	28.8	46.9
0-60	2776	49.6	80.6
0-90	3443	61.5	100.0
0-180	3443	61.5	100.0

Typical VCP Percentages

Room Size (Ft.)	Height Along		Height Across	
	8.5'	10.0'	8.5'	10.0'
20 x 20	54	60	55	61
30 x 30	50	52	51	54
30 x 60	45	46	46	48
60 x 30	54	56	54	57
60 x 60	48	48	48	49

Candela

Angle	Along H	45°	Across ⊥
0	1285	1285	1285
5	1277	1281	1282
10	1260	1265	1267
15	1230	1236	1237
20	1189	1193	1191
25	1137	1138	1132
30	1075	1071	1058
35	1003	992	970
40	924	901	876
45	837	801	772
50	743	695	689
55	644	583	593
60	539	488	488
65	433	389	384
70	328	290	287
75	231	199	197
80	138	119	119
85	49	52	52
90	0	0	0

ORDERING INFORMATION

SAMPLE NUMBER: RDI-228T5RP-120V-EBT1-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

Wattage
28T5=28WT5 (48")⁽¹⁾
54T5=54WT5HO (48")⁽¹⁾

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

Voltage⁽²⁾
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

EBT_ =T5 or T5HO Electronic Program Rapid Start.
 Total Harmonic Distortion < 10%.
 Standard Ballast Factor=1.0

Ballast/FactorType

EBT_N=T5 Electronic Program Rapid Start.
 Total Harmonic Distortion < 10%.
 Normal Ballast Factor=.90⁽⁴⁾

EBT_H=T5 Electronic Program Rapid Start.
 Total Harmonic Distortion < 10%.
 High Ballast Factor=1.15⁽⁶⁾

EBT_NDIM=T5 Electronic Program Rapid Start.
 Total Harmonic Distortion < 10%.
 Step Dimming, Normal Ballast
 Factor=.95-1.0⁽⁵⁾

EBT_HDIM=T5 Electronic Program Rapid Start.
 Total Harmonic Distortion < 10%.
 Step Dimming, High Ballast Factor=1.15

0-10V Dimming Ballasts⁽⁶⁾

5LTV5_=T5 0-10V Program Rapid Start.
 Total Harmonic Distortion < 10%.
 Ballast Factor 1.0

5LTVS5_=T5 0-10V Spec Grade Program Rapid Start.
 Total Harmonic Distortion < 10%.
 Ballast Factor 1.0⁽⁸⁾

5LTV5H_=T5HO 0-10V Program Rapid Start.
 Total Harmonic Distortion < 10%.
 Ballast Factor 1.0

5LTVS5H_=T5HO 0-10V Spec Grade Program Rapid
 Start. Total Harmonic Distortion < 10%.
 Ballast Factor 1.0⁽⁹⁾

Fifth Light DALI Ballasts⁽⁷⁾

5LT5_=T5 DALI Program Rapid Start.
 Total Harmonic Distortion < 10%.
 Ballast Factor 1.0

5LT5H_=T5HO 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
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⁽³⁾
DF-14-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⁾ An EQ Grid Clip is recommended for all 9/16" ceiling systems. Four required per fixture. ⁽⁴⁾ .90 ballast factor available for 2 or 3 14WT5 or 28WT5 lamps only. ⁽⁵⁾ 1-Lamp step dimming ballast in a Normal Ballast factor not available. 2-Lamp ballast will not operate 1-Lamp. ⁽⁶⁾ 1-Lamp ballast in a High Ballast factor not available. ⁽⁷⁾ For a complete listing of FifthlightTechnology products and other solutions from Cooper Lighting Solutions, visit www.cooperlighting.com. ⁽⁸⁾ 0-10V ballast do not include DALI feature. Please select DALI ballast for use with Fifth Light system. ⁽⁹⁾ Specification grade 0-10V dimming ballast are NEMA premium and CEE listed. They are compatible with low mercury and energy saving 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-228T5RP	18 lbs.
RDI-254T5RP	18 lbs.