

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 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. 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.

Finish

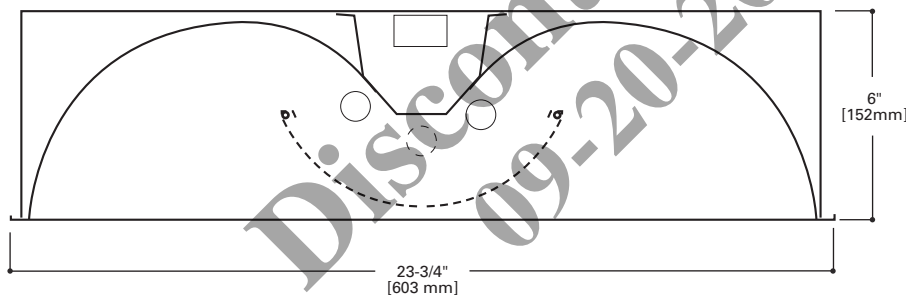
Durable cold rolled steel with multistage, iron phosphate pretreatment and white enamel finish to ensure maximum bonding and rust inhibition.

Reflectors

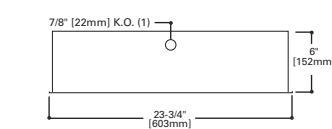
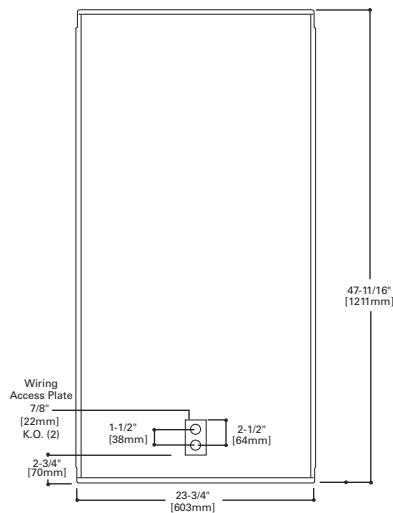
Indirect reflector has high reflectance baked matte white enamel finish for luminous uniformity. A positively retained direct lamp shield is constructed of heavy gauge perforated steel with high reflectance painted after fabrication finish and milky white overlay diffuser for visual comfort. All reflectors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

Controls

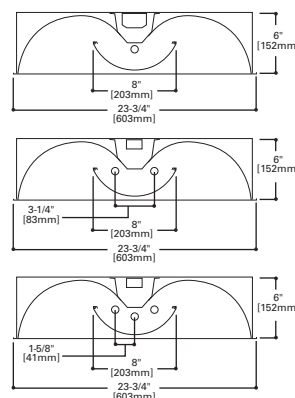
Fifth Light ballast options are offered for both 0-10V continuous dimming and DALI applications. Combine with energy saving products like occupancy sensors, daylighting controls, and lighting relay panels from Cooper Lighting Solutions (www.cooperlighting.com) to maximize energy savings.



MOUNTING DATA



LAMP CONFIGURATIONS



CEILING COMPATIBILITY

G
Grid/Lay-in
Standard

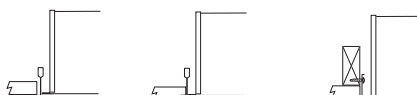
T
Slot Grid

F
Drywall Frame
Kit

Ceiling
Type
Exposed Grid
Concealed T
Slot Grid
Flange

Trim
Type
G
G or T
G or T
F

(Verify compatibility/ consult factory.)



COOPER LIGHTING SOLUTIONS

Catalog #		Type
Project		
Comments		Date
Prepared by		



2RDI

128T5

228T5

328T5

154T5HO

254T5HO

354T5HO

T5 OR T5HO LAMPS

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

Ovation
T5

powered by
fifthlight
technology

ENERGY DATA

Input Watts:

EB Ballast & STD Lamps

128T5 (34), 228T5 (68), 328T5 (102)
154T5 (54), 254T5 (106), 354T5 (160)

Luminaire Efficacy Rating

LER = FL71

Catalog Number: 2RDI-228T5RP

**Yearly Cost of 1000 lumens,
3000 hrs at .08 KWH = \$3.38**

*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

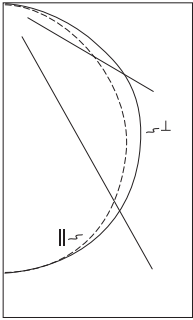
LINEAR DISCONNECT

Safe and convenient means of
disconnecting power.



ADF020609

PHOTOMETRICS

**2RDI-228T5RP**

Electronic Ballast

F28T5/835 Lamps

2600 Lumens

Spacing criterion:
(II) 1.2 x mounting
height, (L) 1.3 x
mounting height

Efficiency 76.9%

Test Report:

2RDI228T5RP.IES

LER = FL71

Yearly Cost of 1000
lumens, 3000 hrs at
.08 KWH = \$3.38

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	92	92	92	92	89	89	89	89	85	85	85	82	82	82	78	78	78	77
1	83	79	76	73	81	77	74	71	74	72	69	71	69	67	68	67	65	63
2	75	69	63	58	73	67	62	58	64	60	56	62	58	55	59	56	54	52
3	68	60	53	48	66	59	52	48	56	51	47	54	50	46	52	48	45	43
4	62	53	46	40	60	52	45	40	50	44	39	48	43	39	46	42	38	37
5	57	47	40	34	55	46	39	34	44	38	34	43	38	33	41	37	33	31
6	53	42	35	30	51	41	35	30	40	34	29	39	33	29	37	33	29	27
7	49	38	31	26	47	37	31	26	36	30	26	35	30	26	34	29	26	24
8	45	35	28	23	44	34	28	23	33	27	23	32	27	23	31	26	23	21
9	42	32	25	21	41	31	25	21	30	25	21	30	24	21	29	24	20	19
10	40	29	23	19	39	29	23	19	28	23	19	27	22	19	27	22	19	17

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	994	19.1	24.9
0-40	1648	31.7	41.2
0-60	3026	58.2	75.7
0-90	3997	76.9	100.0
0-180	3997	76.9	100.0

Luminance Data

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg fcd/sm
45	1686	1895	2071
55	1585	1933	2236
65	1424	2017	2335
75	1205	1827	2065
85	857	1327	1428

Candela

Angle	Along II	45°	Across ⊥
0	1258	1258	1258
5	1251	1255	1258
10	1234	1243	1250
15	1205	1221	1236
20	1164	1190	1213
25	1113	1151	1186
30	1052	1103	1149
35	981	1048	1104
40	901	986	1054
45	814	915	1000
50	720	837	942
55	621	757	876
60	517	673	791
65	411	582	674
70	308	472	518
75	213	323	365
80	128	196	211
85	51	79	85
90	0	0	0

ORDERING INFORMATION

SAMPLE NUMBER: 2RDI-228T5RP-120V-EBT1-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
Blank=Grid/Lay-in
 (Standard)

Lamp Position
Blank=Center Mounted
 Lamps (Standard)

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

Wattage
28T5=28W T5 (48")⁽¹⁾
54T5=54W T5HO (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/Factor Type
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⁽⁶⁾

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

0-10V Dimming Ballasts⁽⁸⁾

5LTV5__=T5 0-10V Program Rapid Start.
 Total Harmonic Distortion < 10%.
 Ballast Factor 1.0⁽¹¹⁾

5LTVS5__=T5 0-10V Spec Grade Program Rapid Start.
 Total Harmonic Distortion < 10%.
 Ballast Factor 1.0^{(9),(10)}

5LTV5H__=T5HO 0-10V Program Rapid Start.
 Total Harmonic Distortion < 10%.
 Ballast Factor 1.0⁽¹¹⁾

5LTVS5H__=T5HO 0-10V Spec Grade Program Rapid
 Start. Total Harmonic Distortion < 10%.
 Ballast Factor 1.0^{(9),(10)}

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
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-24-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 14W T5 or 28W T5 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. ⁽¹⁰⁾ Specification Grade 0-10V ballast not offered in 3 or 4-lamp versions. ⁽¹¹⁾ 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-128T5RP	28 lbs.
2RDI-228T5RP	28 lbs.
2RDI-328T5RP	28 lbs.
2RDI-154T5RP	28 lbs.
2RDI-254T5RP	28 lbs.
2RDI-354T5RP	28 lbs.