

DESCRIPTION

COOPER LIGHTING SOLUTIONS - METALUX®



The Ovation Series is a complete family of recessed direct/indirect luminaires featuring pleasant modern architectural styling, computerdesigned 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 a series of high performance luminaires designed for a variety of architectural and 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.

Finish

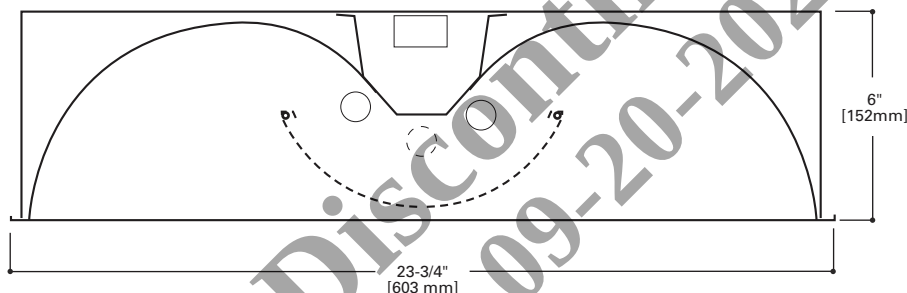
Durable cold rolled steel with multistage, iron phosphate pretreatment and white enamel finish to ensure maximum bonding and rust inhibition.

Reflectors

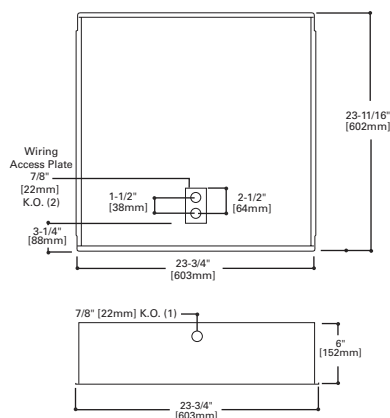
Indirect reflector has high reflectance baked matte white enamel finish for luminous uniformity. Positively retained direct lamp shield is constructed of heavy gauge perforated steel with high reflectance painted after fabrication finish and milky white overlay dif-fuser for visual comfort. All reflectors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

Controls

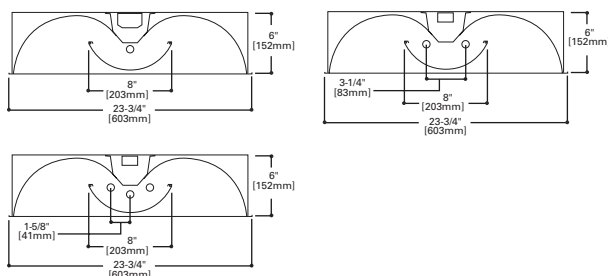
Fifth Light ballast options are offered for both 0-10V continuous dimming and DALI applications. Combine with energy-saving products like occupancy sensors, daylighting controls, and lighting relay panels from Cooper Lighting Solutions (www.cooperlighting.com) to maximize energy savings.



MOUNTING DATA



LAMP CONFIGURATIONS



CEILING COMPATIBILITY

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



2RDI
114T5, 214T5,
314T5
124T5HO
224T5HO
324T5HO

2' X 2' RECESSED

T5 OR T5HO LAMPS
DIRECT/INDIRECT
CENTER-MOUNT

Ovation™



ENERGY DATA

Input Watts:

EB Ballast & STD Lamps

114T5 (19), 214T5 (38)

314T5 (57), 124T5 (25)

224T5 (52), 324T5 (78)

Luminaire Efficacy Rating

LER = FL53

Catalog Number: 2RDI-214T5RP

**Yearly Cost of 1000 lumens,
3000 hrs at .08 KWH = \$4.53**

*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**

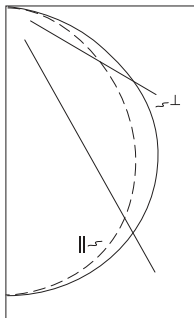
LINEAR DISCONNECT

Safe and convenient means of
disconnecting power.



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PHOTOMETRICS

**2RDI-214T5RP**

Electronic Ballast

F14T5/835 Lamps

1350 Lumens

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

Efficiency 73.3%

Test Report:

2RDI214T5RP.IES

LER = FL53

Yearly Cost of 1000
lumens, 3000 hrs at
.08 KWH = \$4.53

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	87	87	87	87	85	85	85	85	81	81	81	78	78	78	75	75	75	73			
1	79	76	73	70	77	74	71	69	71	69	66	68	66	64	66	64	62	61			
2	72	66	61	56	70	64	60	56	62	58	54	59	56	53	57	54	52	50			
3	66	58	51	47	64	56	51	46	54	49	45	52	48	45	50	47	44	42			
4	60	51	44	39	58	50	44	39	48	43	38	46	42	38	45	41	37	36			
5	55	45	39	34	53	44	38	33	43	37	33	41	37	33	40	36	32	31			
6	51	41	34	29	49	40	34	29	39	33	29	37	32	29	36	32	28	27			
7	47	37	30	26	46	36	30	26	35	29	25	34	29	25	33	28	25	24			
8	44	34	27	23	42	33	27	23	32	27	23	31	26	23	30	26	22	21			
9	41	31	25	21	40	30	24	20	29	24	20	29	24	20	28	23	20	19			
10	38	28	22	19	37	28	22	19	27	22	18	27	22	18	26	21	18	17			

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	513	19.0	25.9
0-40	848	31.4	42.9
0-60	1533	56.8	77.5
0-90	1977	73.2	100.0
0-180	1977	73.2	100.0

Luminance Data

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	1704	1896	2044
55	1575	1893	2080
65	1391	1836	2083
75	1186	1622	1768
85	864	1130	1296

Candela

Angle	Along II	45°	Across ⊥
0	637	637	637
5	641	641	643
10	637	639	642
15	625	630	636
20	605	614	624
25	578	594	609
30	545	568	589
35	506	537	564
40	463	502	534
45	416	463	499
50	365	421	459
55	312	375	412
60	258	325	359
65	203	268	304
70	152	211	226
75	106	145	158
80	63	84	94
85	26	34	39
90	0	0	0

ORDERING INFORMATION

SAMPLE NUMBER: 2RDI-214T5RP-120V-EBT1-U

Rating Blank =Standard NY =New York City Rated ATW-SW4 =Chicago Rated	Number of Lamps 1 =1 Lamp 2 =2 Lamps 3 =3 Lamps	Lamp Shield X =Solid Matte White RP =Round Perforated White Steel	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 ⁽³⁾ EBT_H =T5 Electronic Program Rapid Start. Total Harmonic Distortion < 10%. High Ballast Factor=1.15 ⁽⁵⁾ EBT_NDIM =T5 Electronic Program Rapid Start. Total Harmonic Distortion < 10%. Step Dimming, Normal Ballast Factor=.95-1.0 ⁽⁴⁾ EBT_HDIM =T5 Electronic Program Rapid Start. Total Harmonic Distortion < 10%. Step Dimming, High Ballast Factor=1.15 0-10V Dimming Ballasts ⁽⁷⁾ 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 ^{(8), (10)} Fifth Light DALI Ballasts ⁽⁶⁾ 5LT5 __=T5 DALI Program Rapid Start. Total Harmonic Distortion < 10%. Ballast Factor 1.0	Options RIF1 =Radio Interference Suppressor REP =Riveted Endplates LSC =Lamp Shield Cable ST =Semi-Specular Tannenbaum	Packaging U =Unit Pack PALC =Palletized Fixtures in Carton
Width 2 = 2' Width	Wattage 14T5 =14W T5 (24") ⁽¹⁾ 24T5 =24W T5HO (24") ⁽¹⁾	Voltage ⁽²⁾ 120V =120 Volt 277V =277 Volt UNV =Universal Voltage 120-277	Options GL =Single Element Fuse GM =Double Element Fuse Lamps =Lamps installed Flex =Flex Installed EL =Emergency Installed	ACCESSORIES EO-CLIP-U =T-BAR Safety Earthquake Clips ⁽⁹⁾ DF-22-W =Drywall Frame Kit	
Series RDI =Ovation Series (Recessed Direct/Indirect)	Trim Type Blank =Grid/Lay-in (Standard)	Lamp Position Blank =Center Mounted Lamps (Standard)	Number of Ballasts 1 =1 Ballast 2 =2 Ballasts ⁽⁹⁾ 3 =3 Ballasts		

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⁾ .90 ballast factor available for 2 or 3 14W T5 or 28W T5 lamps only. ⁽⁴⁾ 1-Lamp step dimming ballast in a Normal Ballast factor not available. 2-Lamp ballast will not operate 1-Lamp. ⁽⁵⁾ 1-Lamp ballast in a High Ballast factor not available. ⁽⁶⁾ For a complete listing of Fifthlight Technology products and other solutions from Cooper Lighting Solutions, visit www.cooperlighting.com. ⁽⁷⁾ 0-10V ballast do not include DALI feature. Please select DALI ballast for use with Fifth Light system. ⁽⁸⁾ Specification grade 0-10V dimming ballast are NEMA pre-mium and CEE listed. They are compatible with low mercury and energy saving lamps. ⁽⁹⁾ LAO is necessary for 2 bal-last 0-10V option. ⁽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 DATA

Catalog No.	Wt.
2RDI-114T5	17 lbs.
2RDI-214T5	17 lbs.
2RDI-314T5	17 lbs.