

COOPER LIGHTING - 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 dropped below the ceiling plane providing optimum brightness control. 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

A... Construction

Nominal 3" 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.

B... Electrical*

Ballasts are Class "P" and are positively secured. Rotor-lock lampholders ensure positive lamp retention. UL/CUL listed. Suitable for damp locations.

C... Ballast Access

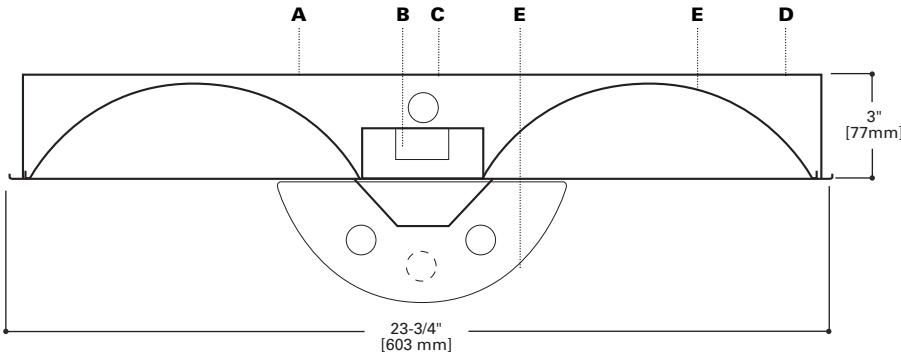
Ballast can be accessed from below.

D... Finish

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

E... 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. Shields are combined with a high reflectance painted after fabrication finish and milky white overlay diffuser for visual comfort. All reflectors are precision formed in a computer-controlled operation.



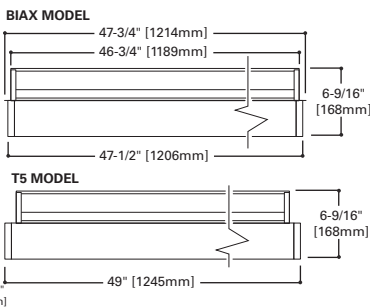
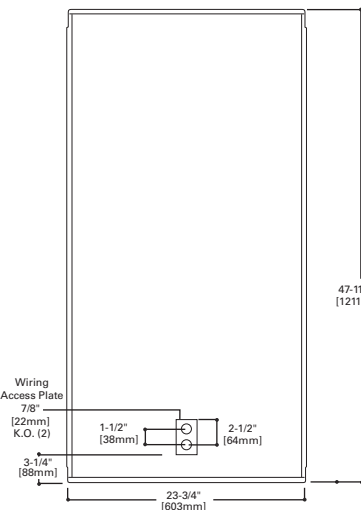
2RDI
128T5
228T5
328T5
154T5HO
254T5HO
354T5HO

T5 OR T5HO LAMPS

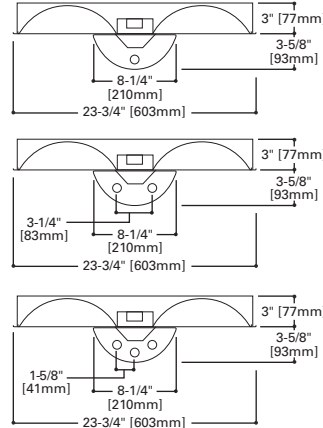
2' X 4' Recessed
Direct/Indirect
Center-Mount
Drop Basket

Ovation
T5

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	***

COOPER LIGHTING

ENERGY DATA

Input Watts:

EB Ballast & STD Lamps

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

Luminaire Efficacy Rating

LER = FL46

Catalog Number: 2RDI-254T5RPD

**Yearly Cost of 1000 lumens,
3000 hrs at .08 KWH = \$5.21**

*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**

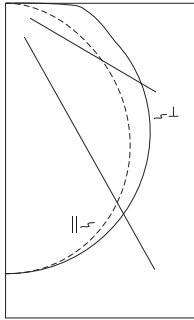
LINEAR DISCONNECT

Safe and convenient means of
disconnecting power.



ADF032749

PHOTOMETRICS



2RDI-254T5RPD
Electronic Ballast
F54T5/841HO Lamps
4400 Lumens

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

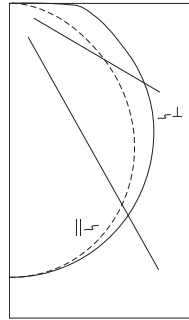
Efficiency 63.4%

Test Report:
2RDI254T5RPD.IES

LER = FL46

Yearly Cost of 1000
lumens, 3000 hrs
at .08 KWH = \$5.21

Candela				
Angle	Along H	45°	Across L	
0	1690	1690	1690	
5	1683	1685	1686	
10	1661	1667	1671	
15	1622	1634	1644	
20	1568	1588	1607	
25	1498	1529	1558	
30	1414	1460	1500	
35	1318	1381	1432	
40	1210	1292	1355	
45	1090	1196	1270	
50	961	1092	1179	
55	823	982	1079	
60	682	866	973	
65	543	747	861	
70	420	627	742	
75	303	504	654	
80	193	410	580	
85	97	339	505	
90	0	0	0	



2RDI-354T5RPD
Electronic Ballast
F54T5/841HO Lamps
4400 Lumens

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

Efficiency 56.0%

Test Report:
2RDI354T5RPD.IES

LER = FL40

Yearly Cost of 1000
lumens, 3000 hrs at
.08 KWH = \$6.01

Candela				
Angle	Along H	45°	Across L	
0	2284	2284	2284	
5	2274	2277	2278	
10	2244	2250	2256	
15	2190	2204	2217	
20	2114	2140	2163	
25	2017	2057	2094	
30	1902	1960	2011	
35	1769	1849	1915	
40	1619	1725	1807	
45	1455	1590	1691	
50	1276	1447	1567	
55	1087	1296	1433	
60	892	1140	1287	
65	704	982	1137	
70	538	819	986	
75	386	662	865	
80	243	538	751	
85	120	433	646	
90	0	0	0	

Coefficients of Utilization

		Effective floor cavity reflectance												20%											
rc	rw	80%				70%				50%				30%				10%				0%			
		70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																									
0		75	75	75	75	74	74	74	74	70	70	70	67	67	67	65	65	65	63						
1		67	64	61	58	66	62	59	57	60	57	55	57	55	53	55	53	52	50						
2		61	55	50	46	59	54	49	45	51	48	44	49	46	43	47	45	42	41						
3		55	48	42	38	54	47	42	37	45	40	37	43	39	36	41	38	35	34						
4		50	42	36	32	49	41	36	31	40	35	31	38	34	30	37	33	30	29						
5		46	38	32	27	45	37	31	27	35	30	27	34	30	26	33	29	26	25						
6		43	34	28	23	41	33	27	23	32	27	23	31	26	23	30	26	23	21						
7		40	31	25	21	38	30	24	21	29	24	20	28	24	20	27	23	20	19						
8		37	28	22	18	36	27	22	18	27	22	18	26	21	18	25	21	18	17						
9		34	26	20	16	33	25	20	16	24	20	16	24	19	16	23	19	16	15						
10		32	24	18	15	31	23	18	15	23	18	15	22	18	15	21	17	15	13						

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	50	30	10	0			
RCR																									
0		67	67	67	67	65	65	65	65	62	62	62	60	60	60	57	57	57	56						
1		60	57	54	51	58	55	53	50	53	51	49	51	49	47	48	47	46	44						
2		54	49	44	41	52	48	44	40	46	42	39	44	41	38	42	40	38	36						
3		49	42	37	33	47	42	37	33	40	36	33	38	35	32	37	34	31	30						
4		45	37	32	28	43	37	32	28	35	31	28	34	30	27	33	29	27	25						
5		41	33	28	24	40	33	28	24	31	27	24	30	26	23	29	26	23	22						
6		38	30	25	21	37	29	24	21	28	24	21	27	23	20	27	23	20	19						
7		35	27	22	18	34	27	22	18	26	21	18	25	21	18	24	21	18	17						
8		33	25	20	16	32	24	20	16	24	19	16	23	19	16	22	19	16	15						
9		30	23	18	15	30	22	18	15	22	18	15	21	17	15	20	17	15	13						
10		29	21	16	13	28	21	16	13	20	16	13	20	16	13	19	16	13	12						

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	1328	15.1	23.8
0-40	2191	24.9	39.3
0-60	3977	45.2	71.3
0-90	5575	63.4	100.0
0-180	5575	63.4	100.0

Typical VCP Percentages

		Height Along			Height Across		
		Room Size (Ft.)	8.5'	10.0'	8.5'	10.0'	
20 x 20			63	70	57	66	
30 x 30			56	61	49	55	
30 x 60			50	54	38	43	
60 x 30			57	61	53	59	
60 x 60			49	52	40	44	

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	1788	13.5	24.2
0-40	2944	22.3	39.9
0-60	5311	40.2	71.9
0-90	7387	56.0	100.0
0-180	7387	56.0	100.0

Typical VCP Percentages

		Height Along			Height Across		
		Room Size (Ft.)	8.5'	10.0'	8.5'	10.0'	
20 x 20			57	65	51	60	
30 x 30			50	55	43	49	
30 x 60			45	48	32	37	
60 x 30			51	55	47	52	
60 x 60			44	47	34	38	

ORDERING INFORMATION

SAMPLE NUMBER: 2RDI-228T5RPD-120V-EBT1-U

Width 2=2' Width	Number of Lamps 1=1 Lamp 2=2 Lamps 3=3 Lamps	Lamp Shield RPD=Round Perforated Steel Below Ceiling Lamp Shield RPD/TBW=Round Perforated Below Ceiling Lamp Shield with Thin Blade White Baffle	Ballast Type⁽¹⁾ EBT ₁ =T5 Linear Electronic Program Rapid Start. Total Harmonic Distortion < 10% No. of Ballast 1, 2 or 3	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
Series RDI=Ovation Series (Recessed Direct/Indirect)	Wattage 28T5=28WT5 (48") ⁽¹⁾ 54T5=54WT5HO (48") ⁽¹⁾	Voltage⁽¹⁾ 120V=120 Volt 277V=277 Volt 347V=347 Volt UNV=Universal Voltage 120-277			
Trim Type Leave Blank=Grid/Lay-in (Standard)					
Lamp Position Leave Blank=Center Mounted Lamps (Standard)					
Options GL=Single Element Fuse GM=Double Element Fuse Lamps=Lamps installed Flex=Flex installed					

ACCESSORIES

EQ-CLIP-U=TBAR Safety
Earthquake Clips⁽²⁾
DF-22-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⁾ 2' x 2' and 2' x 4' Center Lamp Shield models only.

For complete product data, reference the Fluorescent Specification binder. Specifications & dimensions subject to change without notice. Consult your Cooper Lighting Representative for availability and ordering information.

SHIPPING INFORMATION

Catalog No.	Wt.
2RDI-128T5RPD	28 lbs.
2RDI-228T5RPD	28 lbs.
2RDI-328T5RPD	28 lbs.
2RDI-154T5RPD	28 lbs.
2RDI-254T5RPD	28 lbs.
2RDI-354T5RPD	28 lbs.