

# COOPER LIGHTING - METALUX®

## DESCRIPTION

The accord(TM) redefines fluorescent lighting by improving on aesthetics, comfort and energy savings. The accord(TM) provides the right amount of light while eliminating surface shadows commonly found in parabolics. Therefore, accord(TM) increases the comfort level while providing significant energy savings.

The accord(TM) is the ideal solution for offices, schools, hospitals, retail and other applications.

Catalog #		Type
Project		
Comments		Date
Prepared by		

## SPECIFICATION FEATURES

### A ... Construction

Shallow 3-1/4" 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. KO's for continuous row wiring. Large access plate for supply connection.

### B ... Electrical\*

Ballasts are Class "P" and are positively secured. UL/CUL listed. Suitable for damp locations.

### C ... Ballast Access

Ballast can be removed from below without tools.

### D ... Finish

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

### E ... Reflectors

Reflector has high reflectance baked matte white enamel finish for luminous uniformity.

### F ... Shielding

Positively retained frosted acrylic profile lenses provide a soft but effective distribution of light.

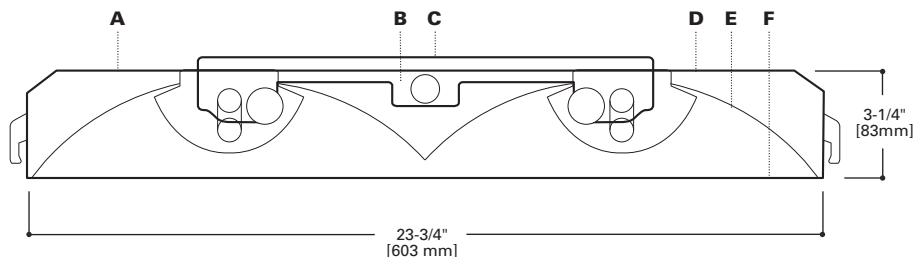
### G ... Air Return

Optional Air Return model provides air flow through air slots in the housing.



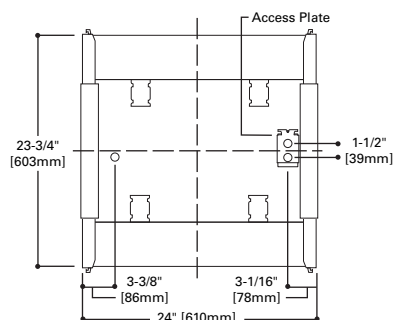
**2AC**  
**2BX40**

**COMPACT**  
**FLUORESCENT LAMPS**  
2' x 2' Recessed  
Troffer Series

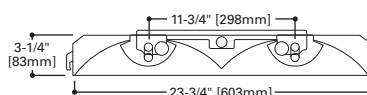


*accord*<sup>TM</sup>  
T5/T8 Enhanced Lighting Series

## MOUNTING DATA

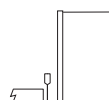


## LAMP CONFIGURATIONS

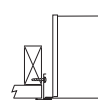


## CEILING COMPATIBILITY

**G**  
Grid/Lay-in  
Standard



**F**  
Drywall Frame  
Kit



**Ceiling**  
**Type\*\***

Exposed Grid  
Concealed T  
Slot Grid  
Flange

**Trim**  
**Type**

G  
G or T  
G or T  
\*\*\*

## ENERGY DATA

Input Watts:

**EB Ballast & STD Lamps @ 120V**  
2BX40T5 (78)

Luminaire Efficacy Rating

**LER = FL56**

**Catalog Number: 2AC-2BX40**

**Yearly Cost of 1000 lumens,**  
**3000 hrs at .08 KWH = \$4.28**

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

\*\*Consult Pre Sales Technical Support.

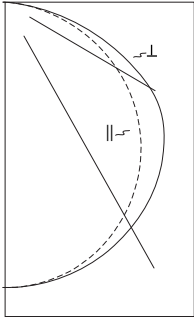
\*\*\*See Drywall Frame Kit Accessory

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

**LINEAR DISCONNECT**  
Safe and convenient means of  
disconnecting power



## PHOTOMETRICS

**2AC-2BX40**

Electronic Ballast

(2) F40BX lamps  
3000 lumensSpacing criterion:  
(II) 1.3 x mounting  
height, (⊥) 1.4 x  
mounting height

Efficiency 79.6%

Test Report:  
241P137

LER = FL-58

Yearly Cost of 1000  
lumens, 3000 hrs  
at .08 KWH = \$4.28**Candela**

Angle	Along II	45°	Across ⊥
0	1558	1558	1558
5	1555	1554	1558
10	1537	1541	1545
15	1508	1516	1526
20	1463	1481	1497
25	1405	1435	1459
30	1336	1380	1415
35	1256	1316	1362
40	1167	1244	1302
45	1068	1162	1232
50	960	1072	1152
55	843	973	1059
60	717	864	926
65	586	743	751
70	449	580	571
75	312	406	391
80	186	237	218
85	81	84	68
90	0	0	0

**Coefficients of Utilization**

		Effective floor cavity reflectance 20%																							
		80%				70%				50%				30%				10%				0%			
rc		70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	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		70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0			
0		95	95	95	95	93	93	93	93	88	88	88	85	85	85	81	81	81	80						
1		86	82	79	75	84	80	77	74	77	74	72	74	72	70	71	69	68	66						
2		78	71	65	61	76	70	64	60	67	62	58	64	60	57	62	59	56	54						
3		71	62	55	50	69	61	54	49	58	53	48	56	51	48	54	50	47	45						
4		65	55	47	42	63	54	47	41	51	46	41	50	44	40	48	43	40	38						
5		59	49	41	36	57	48	41	35	46	40	35	44	39	35	43	38	34	33						
6		55	44	36	31	53	43	36	31	41	35	30	40	34	30	39	34	30	28						
7		50	39	32	27	49	39	32	27	37	31	27	36	31	27	35	30	26	25						
8		47	36	29	24	46	35	29	24	34	28	24	33	28	24	32	27	24	22						
9		44	33	26	22	43	32	26	22	31	26	21	31	25	21	30	25	21	20						
10		41	30	24	19	40	30	24	19	29	23	19	28	23	19	28	23	19	18						

**Zonal Lumen Summary**

Zone	Lumens	%Lamp	%Fixture
0-30	1238	19.7	24.7
0-40	2061	32.7	41.1
0-60	3814	60.5	76.0
0-90	5016	79.6	100.0
0-180	5016	79.6	100.0

**Luminance Data**

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	4238	4611	4888
55	4124	4759	5180
65	3890	4933	4986
75	3382	4401	4239
85	2608	2704	2189

## ORDERING INFORMATION

SAMPLE NUMBER: 2AC-2BX40-120-EB51-U

**Rating**  
Blank= Standard  
NY=New York  
Rated  
ATW-SW4= Chicago  
Rated

**Width**  
2=2' Width

**Series**  
AC=Accord Series

**Type**  
A=Air (optional)

**Number of Lamps**  
(Not included)  
2=2 Lamp

**Wattage (Length)**  
BX40=40W Compact  
Fluorescent (24")

**Shielding**  
Blank=Frosted Acrylic  
SQP=Lens with Square  
Pattern Insert  
RDP=Lens with Round  
Pattern Insert

**Voltage**<sup>1</sup>  
UNV=Universal  
120= 120V  
277= 277V

**Options**  
GL=Single Element Fuse  
GM=Double Element Fuse  
Flex=Flex installed  
EL=Emergency Installed

LB35=Biax lamp, 40W,  
3500K  
LB41=Biax lamp, 40W,  
4100K

**Ballast Type**  
EB5 = T5 Biax Electronic Instant Start.  
Total Harmonic Distortion < 20%  
(Dedicated voltage required)<sup>2</sup>

No. of Ballast  
1

**Packaging**  
U=Unit Pack  
PALC=Job Pack,  
in carton

**NOTES:**

- <sup>1</sup> Products also available in non-US voltages and frequencies for international markets.  
<sup>2</sup> For universal voltage, program Rapid Start ballast must be specified.

Specifications & dimensions subject to change without notice. Consult your Cooper Lighting Representative for availability and ordering information.

**SHIPPING DATA**

Catalog No.	Wt.
2AC-2BX40	28 lbs.