

# COOPER LIGHTING - METALUX®

## DESCRIPTION

The Paralux III Series features recessed aesthetics and the latest in energy efficient technology. The luminaire incorporates a nominal 3" deep precision cell louver into a 4-3/4" deep para-contoured fixture housing. This combination creates a total high performance parabolic optical assembly for optimum performance. The series is compatible with all of today's popular ceiling systems and is available with a number of options and accessories for application versatility. The high performance luminaire is designed to offer maximum efficiency and performance for today's unique interior specifications. The Paralux III series is an excellent choice for commercial office spaces, schools, hospitals or retail merchandising areas.

<b>Catalog #</b>	2EP3GX-232281-UNV-OS-DIM	<b>Type</b>	
<b>Project</b>		<b>Date</b>	
<b>Comments</b>			
<b>Prepared by</b>			

## SPECIFICATION FEATURES

### Construction

4-3/4" deep, para-contoured housing, die formed of code gauge, prime cold rolled steel. Die embossed housing has full length die formed stiffeners for added strength. Contoured ballast/wireway cover is easily removed without tools. Die formed captive lampholder bracket fully encloses lampholder wiring permitting easy lampholder replacement. Heavy end plates are securely attached with interlocking tabs and screws. Four auxiliary fixture end suspension points provided. KOs for continuous row wiring. End plates have labor saving integral Grid-Lock feature for safety and convenience.

### Electrical \*\*

Ballasts are CBM/ETL Class "P" and are positively secured by mounting bolts. Pressure lock lampholders. UL/CUL listed. Suitable for damp locations.

### Finish

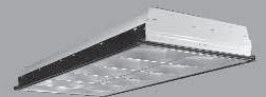
Lighting grade, baked white enamel finish. Multistage, iron phosphate pretreatment ensures maximum bonding and rust inhibition.

### Hinging/Latching

Positive spring loaded, self locking, steel latches. Safety lock T-hinges allow hinging and latching from either side.

### Louver

Die formed of low iridescent, vertical grain anodized aluminum. Finish is Anodic oxide coating. Accurate precision parabolic cells are held in place with interlocking feature. True-cut mitered corners. Black reveal with integral mechanical light seal around entire perimeter of louver. Louver protected from construction contaminants by polyethylene cover.

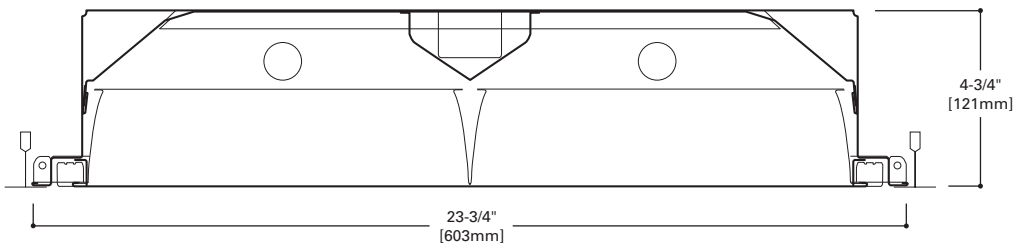


**2EP3GAX**  
228T8  
428T8  
232  
432

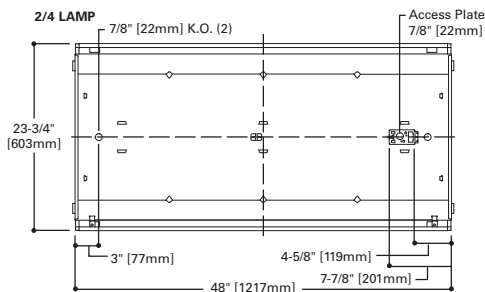
12, 16, 24, 32 Cell

2' X 4' PARABOLIC  
2 OR 4 T8 LAMPS  
SEMI-SPECULAR,  
SPECULAR OR WHITE  
PAINTED LOUVER

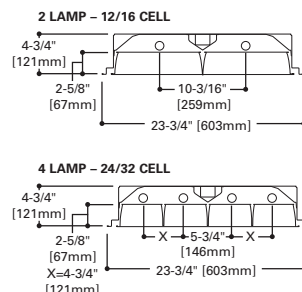
Paralux III  
Recessed Static or  
Air Supply Troffer



## MOUNTING DATA



## LAMP CONFIGURATIONS



## ENERGY DATA

Input Watts:

**EB Ballast & STD Lamps**  
228T8 (48), 428T8 (93)  
232 (55), 432 (113)

Luminaire Efficacy Rating

**LER = FP-61**

**Catalog Number: 2EP3GAX-232**

**Yearly Cost of 1000 lumens,**  
**3000 hrs at .08 KWH = \$3.93**

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

## CEILING COMPATIBILITY

G	G	G	F	MZ	Ceiling Type	Trim Type
Grid/Lay-in Standard	Concealed T	Slot Grid	Aluminum Flange Trim With Supporting Swing Gates	Modular Trim With Supporting Swing Gates	Exposed Grid	G
					Concealed T	G
					Slot Grid	G
					Flange	F
					Concealed "T" or "Z"	MZ
					Metal Pan	MZ
					(Verify compatibility/ consult factory.)	

COOPER LIGHTING

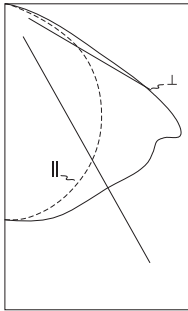
LAMPS CONTAIN MERCURY. DISPOSE ACCORDING TO LOCAL, STATE OR FEDERAL LAWS

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



ADF090183

PHOTOMETRICS



**2EP3GX-232S28I**  
Electronic Ballast  
F32T8/35K Lamps  
3100 Lumens  
Spacing criterion:  
(//) 1.2 x mounting  
height, (⊥) 1.5 x  
mounting height  
Efficiency 69.7%  
Test Report:  
220P209  
LER = FP  
Yearly Cost of 1000  
lumens, 3000 hrs at  
.08 KWH = \$

Candlepower

Angle	Along //	45°	Across ⊥
0	1467	1467	1467
5	1466	1471	1480
10	1439	1464	1492
15	1397	1442	1486
20	1342	1399	1464
25	1279	1342	1443
30	1206	1283	1433
35	1121	1226	1444
40	1024	1170	1455
45	922	1114	1425
50	815	1043	1415
55	697	951	1452
60	555	808	1050
65	362	503	549
70	165	190	312
75	68	80	156
80	32	36	53
85	11	13	16
90	0	0	0

Coefficients of Utilization

rc	Effective floor cavity reflectance 20%																	
	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	83	83	83	83	81	81	81	81	77	77	77	74	74	74	71	71	71	70
1	77	74	71	69	75	72	70	68	69	67	65	67	65	63	64	63	62	60
2	70	65	60	57	68	63	59	56	61	58	55	59	56	53	57	54	52	51
3	64	57	52	47	62	56	51	47	54	50	46	52	48	45	50	47	44	43
4	58	50	44	40	57	49	44	40	48	43	39	46	42	39	45	41	38	37
5	54	45	39	34	52	44	38	34	43	38	34	41	37	33	40	36	33	32
6	49	40	34	30	48	40	34	30	38	33	29	37	33	29	36	32	29	27
7	46	36	30	26	45	36	30	26	35	30	26	34	29	26	33	29	25	24
8	42	33	27	23	41	33	27	23	32	27	23	31	26	23	30	26	23	21
9	40	30	25	21	39	30	24	21	29	24	21	28	24	20	28	23	20	19
10	37	28	22	19	36	28	22	19	27	22	19	26	22	18	26	21	18	17

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	1172	18.9	27.1
0-40	1958	31.6	45.3
0-60	3722	60.0	86.2
0-90	4319	69.7	100.0
0-180	4319	69.7	100.0

Typical VCP Percentages

Room Size (Ft.)	Height Along		Height Across	
	8.5'	10.0'	8.5'	10.0'
20 x 20	74	72	67	65
30 x 30	78	75	73	68
30 x 60	81	78	75	71
60 x 30	82	80	78	74
60 x 60	83	81	79	76

ORDERING INFORMATION

SAMPLE NUMBER: 2EP3GAX-232S261-UNV-EB81-U

**Rating**  
Blank=Standard  
ATW-SW4=Chicago Rated

**HR**=Heat Removal<sup>(1)</sup>

**Width**  
2=2' Width

**EP**=Paralux Louver

3=3" Louver Depth

**Trim Type**  
G=Grid/Lay-in (Standard)  
G=Concealed T/Slot Grid<sup>(4)</sup>  
F=Aluminum Flange Trim<sup>(7)</sup>  
MZ=Modular Trim

**AX**=Air Supply Floating Louver  
**X**=Blank Side/Floating Louver - Non-Air Supply (Omit A)  
**AVX**=Air Supply Floating Louver with Directional Air Vane (Add V)

**Number of Lamps**  
2 or 4 lamps

**Wattage (Length)**  
28T8=28WT8 (48")  
32=32WT8 (48")

**Louver Color**  
S=Silver  
W=White

**Cell Configuration**  
26=2 Rows of 6, 12 Cell  
28=2 Rows of 8, 16 Cell  
46=4 Rows of 6, 24 Cell  
48=4 Rows of 8, 32 Cell

**Louver Finish**  
I=Semi-Specular/Haze (Low Iridescent) Standard (Silver Only)  
MI=Specular/Mirrored (Low Iridescent) (Silver Only)  
P=Painted (White only)

**Option - Aluminum Flange Trim<sup>(7)</sup>**  
Blank=SW (Single White)  
Type Color  
'S' Single 'N' Natural  
'R' In Row 'W' White  
'E' End of Row

**Voltage<sup>(3)</sup>**  
120V=120 Volt  
277V=277 Volt  
347V=347 Volt  
UNV=Universal Voltage 120-277<sup>(4)</sup>

**Options**  
GL=Single Element Fuse  
GM=Double Element Fuse  
WTR=White Reveal  
Flex=Flex Installed (Reference Flex ordering information)  
EL=Emergency Installed<sup>(6)</sup>

**Lamps Installed**  
Blank=No Lamps Installed  
L8835=T8 Lamp, 28W and 32W, 3500K  
L8841=T8 Lamp, 28W and 32W, 4100K  
L8835HL=T8 Lamp, 32W, 3500K, 3100 Lumens  
L8841HL=T8 Lamp, 32W, 4100K, 3100 Lumens

**Ballast Type**  
EB8 =T8 Electronic Start.  
Total Harmonic Distortion < 10%  
No. of Ballast 1, 2 or 3  
EB8 /PLUS=T8 Electronic Start.  
Total Harmonic Distortion < 10%  
High Ballast Factor >1.15  
No. of Ballast 1, 2 or 3  
ER8 =T8 Electronic Program Rapid Start.  
Total Harmonic Distortion < 10%  
No. of Ballast 1, 2 or 3  
**High Performance T8 Ballasts**  
HB8 =T8 Electronic Instant Start. Total Harmonic Distortion < 10%. Standard Ballast Factor .86 - .88  
HB8 L=T8 Electronic Instant Start. Total Harmonic Distortion < 10%. Low Ballast Factor .77 - .82  
HB8 N=T8 Electronic Instant Start. Total Harmonic Distortion < 10%. Normal Ballast Factor 1.0  
HB8 H=T8 Electronic Instant Start. Total Harmonic Distortion < 10%. High Ballast Factor 1.15 - 1.20

**Options**  
PAF=Painted After Fabrication  
RIF1=Radio Interference Suppressor  
REP=Riveted Endplates

**Packaging**  
U=Unit Pack  
PAL=Job Pack, out of carton  
PALC=Job Pack, in carton

**OS-DIM = QTY1 #50738 QHE4X32T8/UNV/DIM/TCL**

NOTES: <sup>(1)</sup>Integral end plate grid lock feature not available in heat removal. <sup>(2)</sup>An EQ Grid Clip is recommended for all 9/16" ceiling systems. Four required per fixture. <sup>(3)</sup>Products also available in non-US voltages and frequencies for international markets. <sup>(4)</sup>Not available when specifying emergencies, voltage must be specific. <sup>(5)</sup>Fixtures equipped with "EL" option may require a 5-1/2" housing depth. If installing in field, must use low profile battery pack. <sup>(6)</sup>Louver is recessed by 5/16" in Concealed T or Slot Grid T. <sup>(7)</sup>Specify row configuration, type in catalog number when ordering complete fixture.

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.

ACCESSORIES

EQ-CLIP-U=T-BAR Safety Earthquake Clips<sup>(2)</sup>

SHIPPING INFORMATION

Catalog No.	Wt.
2EP3GAX-228T8S26I	42 lbs.
2EP3GAX-232S26I	42 lbs.
2EP3GAX-428T8S46I	42 lbs.
2EP3GAX-432S46I	42 lbs.

