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.

Catalog #		**Type**
Project		
Comments		**Date**
Prepared by		



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

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. *

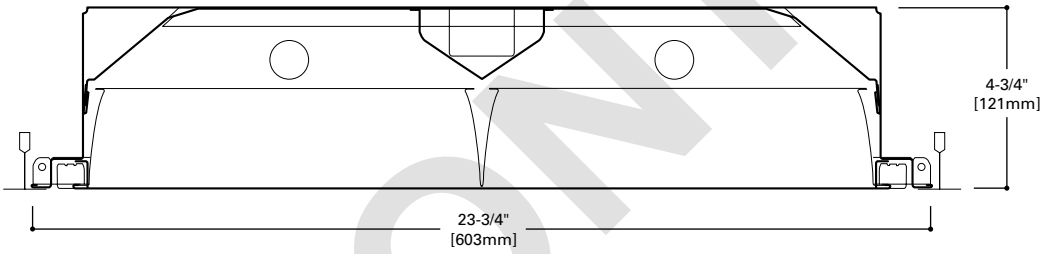
Electrical**
Ballast are CBM/ETL Class "P" and are positively secured by mounting bolts. Pressure lock lampholders. UL/CUL listed. Suitable for damp locations.

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

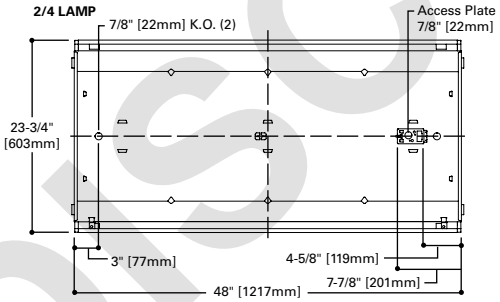
Hinging/Latching
Positive cam action spring loaded, self locking, black steel latches. Safety lock T-hinges allow hinging and latching either side.

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.

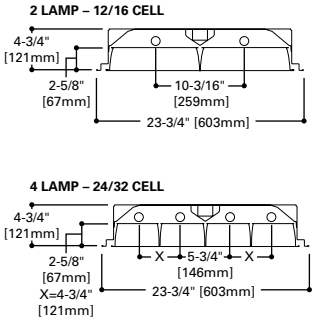
Compliance
Options to meet Buy American Act requirements.



MOUNTING DATA

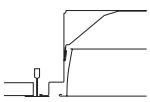


LAMP CONFIGURATIONS

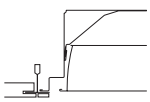


CEILING COMPATIBILITY

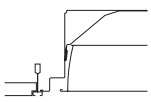
G Grid/Lay-in Standard



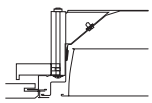
G ConcealedT



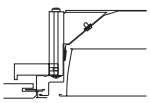
G Slot Grid



F Aluminum FlangeTrim With Supporting Swing Gates



MZ ModularTrim With Supporting Swing Gates



Ceiling Type	Trim Type
Exposed Grid	G
ConcealedT	G
Slot Grid	G
Flange	F
Concealed "T" or "Z"	MZ
Metal Pan	MZ

(Verify compatibility/ consult factory.)

ENERGY DATA

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

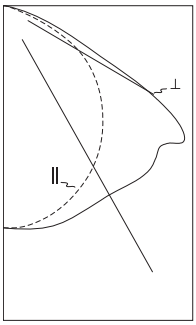
Luminaire Efficacy Rating
LER = FP-61
Catalog Number: 2EP3GAX-232
Yearly Cost of 1000 lumens, 3000 hrs at .08 KWH = $3.93

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

LINEAR DISCONNECT
Designed to provide safe and convenient means of disconnecting power

COOPER Lighting Solutions

DISCONTINUED



2EP3GX-232S28I
Electronic Ballast

F32T8/35K Lamps
3100 Lumens

Spacing criterion: (II) 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 II	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

Effective floor cavity reflectance 20%

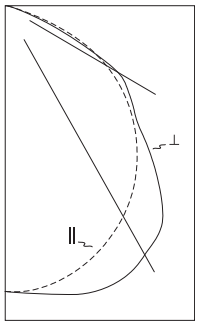
rc	80%				70%				50%			30%			10%			0%
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	83	83	83	83	81	81	81	81	77	77	77	74	74	74	71	71	71	70
1	77	74	71	69	75	72	70	68	69	67	65	67	65	63	64	63	62	60
2	70	65	60	57	68	63	59	56	61	58	55	59	56	53	57	54	52	51
3	64	57	52	47	62	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

	Height Along		Height Across	
Room Size (Ft.)	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



2EP3GX-432S46I
Electronic Ballast

F32T8/35K Lamps
3100 Lumens

Spacing criterion: (II) 1.2 x mounting height, (⊥) 1.4 x mounting height

Efficiency 65.6%

Test Report: 220P204

LER = FP-

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

Candlepower

Angle	Along II	45°	Across ⊥
0	3068	3068	3068
5	3070	3085	3101
10	3025	3080	3148
15	2948	3066	3204
20	2845	3031	3216
25	2718	2954	3169
30	2574	2838	3050
35	2404	2682	2920
40	2207	2464	2596
45	1993	2172	2188
50	1765	1767	1829
55	1515	1360	1624
60	1232	1050	1360
65	896	745	753
70	486	371	336
75	163	140	134
80	69	60	53
85	24	20	15
90	0	0	0

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	78	78	78	78	76	76	76	76	73	73	73	70	70	70	67	67	67	66
1	72	70	67	65	71	68	66	64	66	64	62	63	62	60	61	60	59	57
2	67	62	58	55	65	61	57	54	58	55	53	56	54	51	54	52	50	49
3	61	55	50	46	60	54	49	46	52	48	45	50	47	44	49	46	43	42
4	56	49	44	39	55	48	43	39	46	42	39	45	41	38	44	40	38	36
5	52	44	38	34	50	43	38	34	42	37	34	41	36	33	39	36	33	32
6	48	40	34	30	47	39	34	30	38	33	30	37	33	29	36	32	29	28
7	44	36	30	27	43	35	30	26	34	30	26	33	29	26	33	29	26	25
8	41	33	27	24	40	32	27	24	31	27	24	31	26	23	30	26	23	22
9	39	30	25	21	38	30	25	21	29	24	21	28	24	21	28	24	21	20
10	36	28	23	19	35	27	23	19	27	22	19	26	22	19	26	22	19	18

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	2523	20.3	31.0
0-40	4191	33.8	51.5
0-60	7169	57.8	88.1
0-90	8136	65.6	100.0
0-180	8136	65.6	100.0

Typical VCP Percentages

	Height Along		Height Across	
Room Size (Ft.)	8.5′	10.0′	8.5′	10.0′
20 x 20	60	59	62	61
30 x 30	66	62	68	64
30 x 60	69	65	71	67
60 x 30	72	69	74	70
60 x 60	73	70	76	72

ORDERING INFORMATION

SAMPLE NUMBER: 2EP3GAX-232S26I-UNV-EB81-U

Domestic Preferences [10]
[Blank]=Standard
BAA=Buy American Act

Rating
Blank=Standard
ATW-SW4=Chicago Rated

HR=Heat Removal [1]

Width
2=2' Width

EP=Paralux Louver

3=3" Louver Depth

Trim Type
G=Grid/Lay-in (Standard)
G=Concealed T/Slot Grid [6]
F=Aluminum Flange Trim [7]
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=28W T8 (48")
32=32W T8 (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)
P=Painted (White only)

Option – Aluminum Flange Trim [7]
Blank=SW (Single White)

Type	Color
'S' Single	'N' Natural
'R' In Row	'W' White
'E' End of Row	

Voltage [3]
120V=120 Volt
277V=277 Volt
347V=347 Volt
UNV=Universal Voltage 120-277 [4]

Options
GL=Single Element Fuse
GM=Double Element Fuse
WTR=White Reveal
Flex=Flex Installed (Reference Flex ordering information)
EL=Emergency Installed [5], [9]

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
HR8__T8 Electronic Program Rapid Start. Total Harmonic Distortion < 10%. Standard Ballast Factor .86 – .88
HR8__DIM=T8 Electronic Program Rapid Start. Total Harmonic Distortion < 10%. Step Dimming. Ballast Factor .88
HR8__L=T8 Electronic Program Rapid Start. Total Harmonic Distortion < 10%. Low Ballast Factor .71 – .79
HR8__H=T8 Electronic Program Rapid Start. Total Harmonic Distortion < 10%. High Ballast Factor 1.15 – 1.20

Options
PAF=Painted After Fabrication
REP=Riveted Endplates

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

NOTES: [1] Integral end plate grid lock feature not available in heat removal. [2] An EQ Grid Clip is recommended for all 9/16" ceiling systems. Four required per fixture. [3] Products also available in non-US voltages and frequencies for international markets. [4] Not available when specifying emergencies, voltage must be specific. [5] Fixtures equipped with "EL" option may require a 5-1/2" housing depth. If installing in field, must use low profile battery pack. [6] Louver is recessed by 5/16" in Concealed T or Slot Grid T. [7] Specify row configuration, type in catalog number when ordering complete fixture. [9] Please specify required voltage, 120V or 277V. [10] Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. [11] Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.

ACCESSORIES [11]

EQ-CLIP-U=T-BAR Safety Earthquake Clips [2]

SHIPPING DATA

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

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

NOT TO BE USED

COOPER Lighting Solutions

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P: 770-486-4800
www.cooperlighting.com

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Specifications and dimensions subject to change without notice.