COOPER LIGHTING - METALUX®

DESCRIPTION

Cooper Lighting introduces accord II(TM), a new recessed T5 or T8 fixture. The accord II(TM) redefines fluorescent lighting by providing aesthetics, comfort and energy savings. The accord II(TM) provides increased comfort levels while providing significant energy savings.

The accord II(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 3-3/4" deep housing is die formed of code gauge, prime cold rolled steel. Integral end plates are securely attached 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.

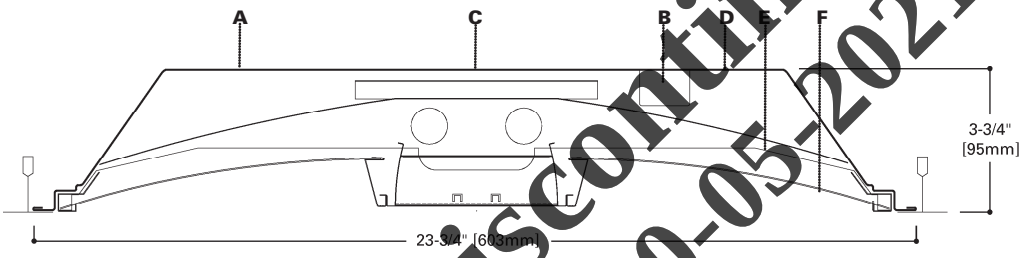
B ... Electrical*
Ballasts are Class "P" and are positively secured. Rotor-lock lampholders ensure positive lamp retention. UL/CUL listed. Suitable for damp locations.

C ... Ballast Access
Ballast can be 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.

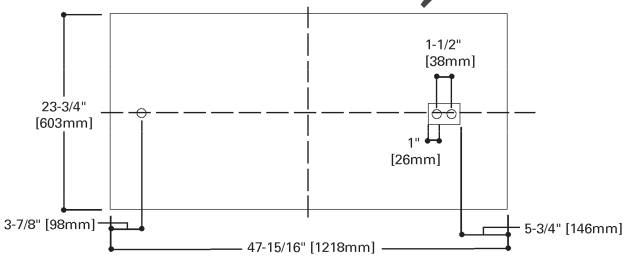
E ... Reflectors
Reflector has high reflectance baked white enamel finish for luminous uniformity.

F ... Shielding
Positively retained frosted acrylic lenses and baffle provide a soft but effective distribution of light. Spring loaded latch and T-hinge doorframe for ease of installation and maintenance.

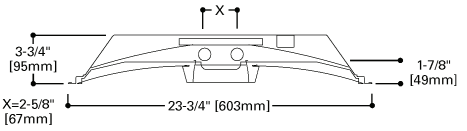


Discontinued
30-05-2021

MOUNTING DATA

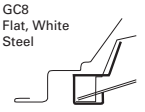


LAMP CONFIGURATIONS



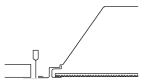
DOOR FRAMES

GC8
Flat, White
Steel

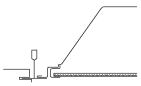


CEILING COMPATIBILITY

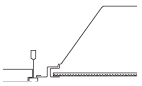
G
Grid/Lay-in
Standard



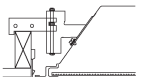
G
Concealed T



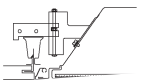
G
Slot Grid



F
Flange Trim
With Supporting
Swing Gates



C
Modular Trim
With Supporting
Swing Gates



Ceiling Type	Trim Type
Exposed Grid	G
Concealed T	G
Slot Grid	G
Flange	F
Metal Pan	C

(Verify compatibility/ consult factory.)



2AC2
228T5
254T5
232T8

T5 OR T8 LAMPS
2' X 4' Recessed
Troffer Series

accord II™
T5/T8 Enhanced Lighting Series

ENERGY DATA

Input Watts:

EB Ballast & STD Lamps @ 277V
228T5 (58)
232 (58)
254T5 (106)

Luminaire Efficacy Rating
LER =FL67
Catalog Number: 2AC2-228T5-PBW

Yearly Cost of 1000 lumens,
3000 hrs at .08 KWH = $3.59

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

**Consult Pre Sales Technical Support.

***See Drywall Frame Kit Accessory

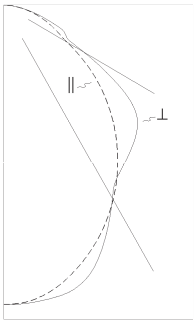
LAMPS CONTAIN MERCURY. DISPOSE ACCORDING TO LOCAL, STATE OR FEDERAL LAWS

LINEAR DISCONNECT
Safe and convenient means of disconnecting power

ISO SYSTEMS CERTIFIED

Specifications and Dimensions subject to change without notice.
Consult your representative for additional options and finishes.

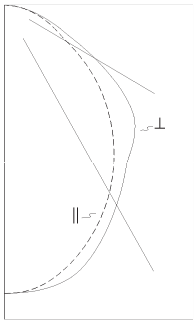
PHOTOMETRICS



2AC2-228T5-BP
Electronic Ballast
(2) F28T5 Lamps
2900 Lumens each
Spacing criterion: (II) 1.1 x mounting height, (⊥) 1.1 x mounting height
Efficiency 66.8%
Test Report: 2AC2-228T5PBW.IES
LER = FL67
Yearly Cost of 1000 lumens, 3000 hrs at .08 KWH = $3.59

Candlepower

Angle	Along II	45°	Across ⊥
0	1712	1712	1712
5	1699	1705	1710
10	1651	1675	1697
15	1573	1623	1662
20	1481	1542	1562
25	1377	1425	1409
30	1262	1274	1250
35	1137	1112	1162
40	1005	955	1112
45	867	845	1065
50	724	746	996
55	572	639	818
60	419	511	523
65	327	358	391
70	252	252	304
75	182	178	201
80	115	110	117
85	52	49	52
90	0	0	0



2AC2-232-BI
Electronic Ballast
(2) F32T8 Lamps
3000 Lumens each
Spacing criterion: (II) 1.1 x mounting height, (⊥) 1.2 x mounting height
Efficiency 63.6%
Test Report: 2AC2-232PBW.IES
LER = FL58
Yearly Cost of 1000 lumens, 3000 hrs at .08 KWH = $4.15

Candlepower

Angle	Along II	45°	Across ⊥
0	1650	1650	1650
5	1637	1643	1646
10	1590	1613	1631
15	1516	1558	1590
20	1426	1475	1506
25	1325	1366	1404
30	1215	1242	1300
35	1095	1113	1200
40	970	986	1116
45	838	861	1055
50	703	745	966
55	558	634	799
60	412	503	592
65	322	357	404
70	249	249	292
75	179	176	199
80	113	110	118
85	50	48	51
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	79	79	79	79	78	78	78	78	74	74	74	71	71	71	68	68	68	67
1	73	70	68	65	71	69	66	64	66	64	62	63	62	60	61	60	59	57
2	67	62	58	54	65	61	57	54	58	55	52	56	54	51	54	52	50	49
3	62	55	50	46	60	54	49	45	52	48	45	50	47	44	49	46	43	42
4	57	49	44	39	55	48	43	39	47	42	39	45	41	38	44	40	38	36
5	52	44	38	34	51	43	38	34	42	37	34	41	37	33	40	36	33	32
6	49	40	34	30	47	39	34	30	38	33	30	37	33	30	36	32	29	28
7	45	36	31	27	44	36	31	27	35	30	27	34	30	26	33	29	26	25
8	42	33	28	24	41	33	28	24	32	27	24	31	27	24	31	27	24	22
9	39	31	25	22	38	30	25	22	30	25	22	29	25	22	28	24	22	20
10	37	28	23	20	36	28	23	20	28	23	20	27	23	20	26	22	20	19

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	76	76	76	76	74	74	74	74	71	71	71	68	68	68	65	65	65	64
1	70	67	64	62	68	65	63	61	63	61	59	60	59	57	58	57	56	54
2	64	59	55	52	62	58	54	51	56	52	50	54	51	49	52	49	48	46
3	59	52	47	43	57	51	47	43	49	46	42	48	44	42	46	43	41	40
4	54	47	41	37	52	46	41	37	44	40	37	43	39	36	41	38	36	34
5	50	42	36	32	48	41	36	32	40	35	32	39	35	32	38	34	31	30
6	46	38	32	29	45	37	32	28	36	32	28	35	31	28	34	31	28	26
7	43	35	29	26	42	34	29	25	33	28	25	32	28	25	31	28	25	24
8	40	32	26	23	39	31	26	23	30	26	23	30	25	22	29	25	22	21
9	37	29	24	21	37	29	24	21	28	24	21	27	23	20	27	23	20	19
10	35	27	22	19	34	27	22	19	26	22	19	25	21	19	25	21	19	17

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	1267	21.8	32.7
0-40	1978	34.1	51.1
0-60	3270	56.4	84.4
0-90	3873	66.8	100.0
0-180	3873	66.8	100.0

Luminance Data

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	1666	1624	2047
55	1355	1514	1938
65	1052	1151	1257
75	956	935	1050
85	811	764	811

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	1224	20.4	32.1
0-40	1933	32.2	50.6
0-60	3212	53.5	84.1
0-90	3818	63.6	100.0
0-180	3818	63.6	100.0

Luminance Data

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	1611	1655	2028
55	1322	1502	1893
65	1036	1148	1299
75	940	924	1045
85	780	749	795

Discontinued 30-05-2021

ORDERING INFORMATION

SAMPLE NUMBER: 2AC2-228T5-UNV-EBT1-90-U

Width
2 =2' Width

Series
AC2=Accord II Series

Number of Lamps
(Not included)
2=2 Lamp

Wattage (Length)
28T5=28WT5 (48")
54T5=54WT5HO (48")
32=32WT8 (48")

Shielding
BP=Frosted Lens & White Baffle
BI=Frosted Lens & Semi-Specular Baffle

Voltage[1]
UNV=Universal Voltage 120-277

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

Ballast Type
EB8__=T8 Electronic Instant Start. Total Harmonic Distortion < 20%
No. of Ballast 1 or 2
EB8__**/PLUS**=T8 Electronic Instant Start. High Ballast Factor >1.13.Total Harmonic Distortion < 20%
No. of Ballast 1 or 2
ER8__=T8 Electronic Program Rapid Start. Total Harmonic Distortion < 10%
No. of Ballast 1 or 2
EBT__=T5 Linear Electronic Program Rapid Start Total Harmonic Distortion < 10%
No. of Ballast 1 or 2

Ballast Factor/Type
(For 28WT5 Lamp Only)
N=Normal Light Output .90 BF[2]
H=High Light Output 1.15 BF[2]
NDIM=Normal .9 BF Step Dimming[3]
HDIM=High 1.15 BF Step Dimming[3]

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

NOTES: [1] Products also available in non-US voltages and frequencies for international markets. [2] Step Dimming ballast available for 28WT5 lamps only. [3] .90 and 1.15 ballast factor available for 28WT5 lamps 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.
2AC2-228T5	31 lbs.
2AC2-254T5	31 lbs.
2AC2-232	31 lbs.