

## DESCRIPTION

The Fail-Safe FCC combines maximum security construction features with energy saving technology. This corner-mounted luminaire utilizes a one-piece clamshell housing, security lensing and tamper-resistant fasteners to maximize impact resistance and prevent contraband concealment and unauthorized fixture penetration. UL/cUL listed for wet locations under covered ceiling. The FCC Series is ideal for confinement/security applications. Suitable for use in inmate cells, psychiatric wards, secure corridors and general population areas.

<b>Catalog #</b>		<b>Type</b>
<b>Project</b>		
<b>Comments</b>		<b>Date</b>
<b>Prepared by</b>		

## SPECIFICATION FEATURES

### Housing / Door

Clamshell design combines die-formed 12, 14, 16, or 18 ga. CRS body with continuous welded and ground ends to form a one-piece, seamless, doorless housing which maximizes impact resistance and prevents contraband concealment and unauthorized fixture penetration.

### Finish

High gloss, electrostatically applied, white powder coat finish, average minimum reflectance 92%.

### Fasteners

Stainless steel tamper-resistant T20 TORX® screws are standard. Allen-head screws with center reject pin are optional.

### Hinge

Continuous, concealed piano hinge (1/4" dia. knuckle) with welded pin end to prevent removal.

### Backplate

Die-formed CRS backplate forms an irretrievable blade trap to prevent contraband concealment.

### Lens

Choice of prismatic acrylic, prismatic polycarbonate or prismatic tempered glass on fixture side, clear polycarbonate or clear tempered glass on environmental side.

### Lamps

By others.

### Lens Retention

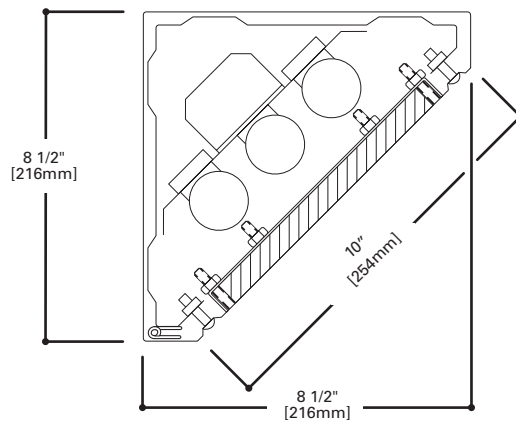
Lens secured by thru-studs and vertically adjustable internal CRS hold-downs.

### Ballast

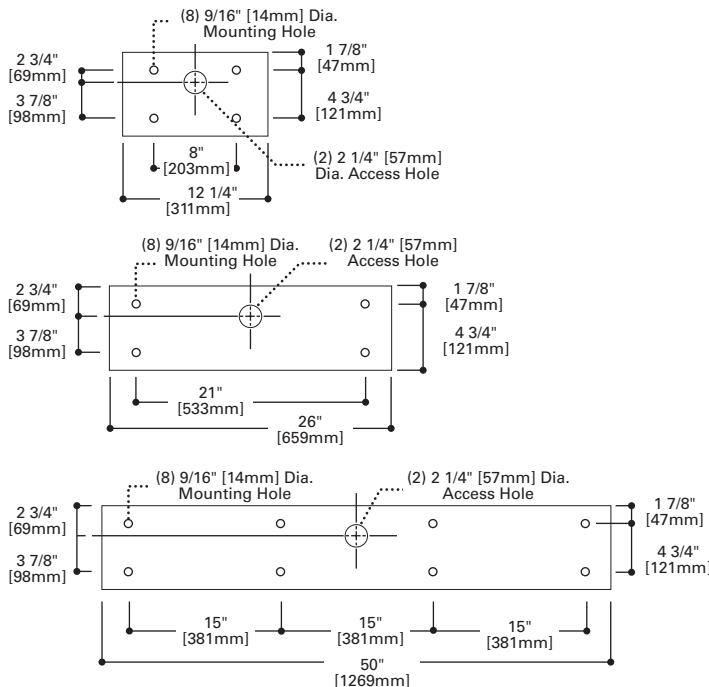
Electronic Class P, CBM/ETL ballast.

### Labels

UL/cUL listed for wet locations under covered ceiling.



## MOUNTING DIMENSIONS



## FCC

T5  
T8  
Compact Fluorescent  
Fluorescent  
Confinement/Correctional

CORNER MOUNT

## ENERGY DATA

Input Watts:

### STD Ballasts & STD Lamps

- (1) 13W Twin Tube: 17W
- (2) 13W Twin Tube: 34W
- (3) 13W Twin Tube: 51W
- (1) 40W Biaxial Fluorescent: 45W
- (2) 40W Biaxial Fluorescents: 82W

### ES Ballasts & STD Lamps

- (1) 17W T8 Fluorescent: 23W
- (2) 17W T8 Fluorescents: 45W
- (3) 17W T8 Fluorescents: 68W
- (1) 32W T8 Fluorescent: 37W
- (2) 32W T8 Fluorescents: 71W
- (3) 32W T8 Fluorescents: 108W

### Electronic Ballast Data

Consult Cooper Lighting Solutions Representative

TORX® is a registered trademark of Camcar Division of Textron Inc.

**ORDERING INFORMATION**

SAMPLE NUMBER: FCC-X-232-UNV-82/86-EB81-FNL

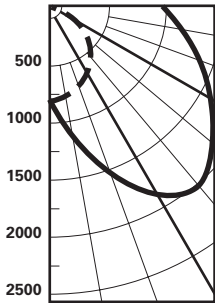
Product Family	Lamp Type	Voltage	Lens Type <sup>5</sup>	Ballast	Options	Accessories (Order Separately)
Corner Luminaires <b>FCC-S</b> =12 ga. (Ultimax) <b>FCC-X</b> =14 ga. (Maximum) <b>FCC-D</b> =16 ga. (Medium) <b>FCC-N</b> =18 ga. (Minimum)	<b>120=120V</b> <b>277=277V</b> <b>UNV=120V-277V</b>	<b>Inner Layer (optional)</b> / <b>90=</b> .005 UV Absorbing Overlay  <b>Fixture Side</b> <b>80=</b> 0.125 Prismatic Acrylic <b>81=</b> 0.156 Prismatic Polycarbonate <b>82=</b> 0.187 Prismatic Polycarbonate <b>93=</b> 0.156 Prismatic Tempered Glass	<b>Environmental Side</b> <b>84=</b> 0.125 Clear Polycarbonate <b>85=</b> 0.187 Clear Polycarbonate <b>86=</b> 0.250 Clear Polycarbonate <b>87=</b> 0.375 Clear Polycarbonate <b>88=</b> 0.500 Clear Polycarbonate <b>94=</b> 0.187 Clear Tempered Glass <b>96=</b> 0.250 Clear Tempered Glass <b>98=</b> 0.500 Clear Tempered Glass	<b>Electronic Ballast</b> <sup>1</sup> <b>EB51=(1)</b> Ballast for use with T5 lamp <b>EB52=(2)</b> Ballasts for use with T5 lamps <b>EB81=(1)</b> Ballast for use with T8 lamp <b>EB82=(2)</b> Ballasts for use with T8 lamps <b>EBX1=(1)</b> Ballast for use with Biaxial Lamp <b>EBX2=(2)</b> Ballasts for use with Biaxial Lamps <b>EBT1=(1)</b> Ballast for use with Compact Fluorescent Lamp <b>EBT2=(2)</b> Ballasts for use with Compact Fluorescent Lamps	<b>EL4</b> =EM Pack, T8, Biax <b>EL5</b> =EM Pack, T5, T5HO <b>FNL</b> =Fluorescent Night Light (5, 7, 9W) <b>GFR</b> =Fuse and Holder <b>SPK</b> =Speaker Housing Compartment (extends housing)  <b>On/Off Switches</b> <b>SPS</b> =Security Push Button <sup>3</sup> <b>TCS</b> =Touch Control <sup>2</sup>  <b>Stainless Steel Housing/Door</b> <b>SSN</b> =Natural Brushed Finish <b>SSP</b> =Polyester Powder Coat Finish  <b>Fasteners</b> <b>SF3</b> =Allen-Head (center pin reject)	<b>9306</b> =Allen-Head Wrench <b>VRSD</b> =T20 Center Pin Tamperproof TORX® - head screwdriver
<b>1' Nom. Length</b> <b>Compact Fluorescent</b> 113=(1) 13W Lamp 213=(2) 13W Lamps 126=(1) 26W Lamp 226=(2) 26W Lamps 313=(3) 13W Lamps  <b>2' Nom. Length</b> <b>Biaxial Fluorescent</b> 140BX=(1) 40W Lamp 240BX=(2) 40W Lamps  <b>T5 Fluorescent</b> <sup>4</sup> 114=(1) 14W Lamp 214=(2) 14W Lamps 314=(3) 14W Lamps 124=(1) 24W Lamp 224=(2) 24W Lamps	<b>T8 Fluorescent</b> 117=(1) 17W Lamp 217=(2) 17W Lamps 317=(3) 17W Lamps  <b>4' Nom. Length</b> <b>T5 Fluorescent</b> 128=(1) 28W Lamp 228=(2) 28W Lamps 328=(3) 28W Lamps 154=(1) 54W Lamp 254=(2) 54W Lamps 354=(3) 54W Lamps  <b>T8 Fluorescent</b> 132=(1) 32W Lamp 232=(2) 32W Lamps 332=(3) 32W Lamps					

**Notes:**

- <sup>1</sup> For specific electronic ballast, specify brand and catalog number.
- <sup>2</sup> For additional information about the TCS option, see Fail-Safe specification sheet for TCS Touch Control System.
- <sup>3</sup> 120 V only.
- <sup>4</sup> Not available with (2) T5 or (2) T5HO ballasts and EM Pack.
- <sup>5</sup> See Lens Ordering Guide (on website) for additional lens changes.

**PHOTOMETRICS**

**Candlepower Distribution**



Test No. 6054.0  
**FCC-X-240BX**  
 Lamp=F40BX/  
 SPX30/RS  
 No. Lamps=2  
 Lumens=3150  
 Efficiency=59.0%

**Candlepower**

Deg.	I	II
0	784	784
5	760	972
15	731	1437
25	609	1708
35	493	1934
45	310	2006
55	246	1810
65	150	1762
75	110	1552
85	38	1191
90	4	952

**Zonal Lumen Summary**

Zone	Lumens	%Lamp	%Luminaire
0-20	305	4.8	8.2
0-40	1157	18.4	31.2
0-60	2196	34.9	59.1
0-90	3426	54.4	92.2
0-120	3697	58.7	99.5
0-180	3715	59.0	100.0

**Coefficient of Utilization**

rc	80%		70%		50%		30%		10%		0%	
	70	50	30	10	50	30	10	50	10	50	10	0
RCR												
0	69	69	69	69	67	67	67	63	63	59	59	54
1	62	58	55	52	56	53	51	53	48	50	46	42
2	55	50	45	41	48	44	40	45	38	42	37	34
3	50	43	38	33	42	37	33	39	32	37	31	28
4	46	38	32	28	37	32	27	35	27	33	26	23
5	41	33	27	23	32	27	23	30	22	29	21	19
6	38	29	24	20	29	23	19	27	19	26	18	16
7	35	26	21	17	26	20	17	24	16	23	16	14
8	32	24	18	15	23	18	14	22	14	21	14	12
9	30	21	16	12	21	16	12	19	12	18	12	10
10	27	19	14	11	19	14	11	18	11	17	10	09

rc=Ceiling reflectance, rw=W all reflectance, RCR=Room cavity ratio  
 CU Data Based on 20% Effective Floor Cavity Reflectance.