

DESCRIPTION

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

Catalog #	Type
Project	
Comments	
Prepared by	

SPECIFICATION FEATURES

Housing

Die-formed CRS body with continuous welded and ground ends to form a one-piece, seamless housing which maximizes impact resistance and prevents 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.

Door

One-piece CRS door frame with die-formed edges and tightly closed corners increases rigidity.

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

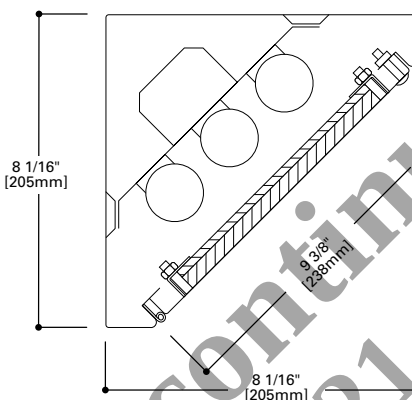
Lens secured by thru-studs and vertically adjustable internal CRS hold-downs.

Ballast

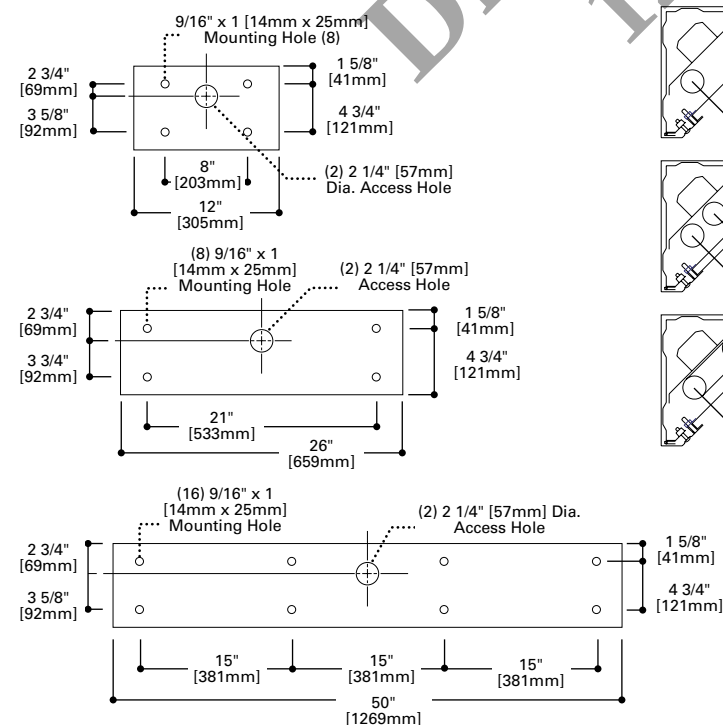
Electronic Class P, CBM/ETL ballast.

Labels

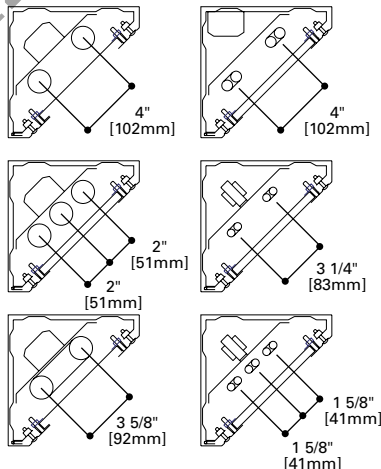
UL/cUL listed for wet locations under covered ceiling.



MOUNTING DIMENSIONS



LAMP CONFIGURATIONS



FMC

T5
T8
Biaxial
Compact Fluorescent
Fluorescent
Confinement/Correctional

Maximum Security
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 Bi axial Fluorescent: 45W
- (2) 40W Bi axial 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: FMC-D-332-277-80/86-EB81-GLR

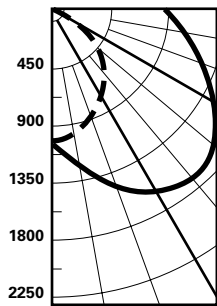
Product Family	Lamp Type	Voltage	Lens Type ⁵	Ballast	Options	
FMC			/			
Corner Luminaires FMC-S =12 ga. (Ultimax) FMC-X =14 ga. (Maximum) FMC-D =16 ga. (Medium) FMC-N =18 ga. (Minimum)		120=120V 277=277V UNV=120V-277V	Inner Layer (optional) 90 =.005 UV Absorbing Overlay Fixture Side 80 =.125 Prismatic Acrylic 81 =.156 Prismatic Polycarbonate 82 =.187 Prismatic Polycarbonate 93 =.156 Prismatic Tempered Glass	Environmental Side 84 =.125 Clear Polycarbonate 85 =.187 Clear Polycarbonate 86 =.250 Clear Polycarbonate 87 =.375 Clear Polycarbonate 88 =.500 Clear Polycarbonate 94 =.187 Clear Tempered Glass 96 =.250 Clear Tempered Glass 97 =.375 Clear Tempered Glass	Electronic Ballasts¹ EB81 =One Ballast for use with T8 Lamp EB82 =Two Ballasts for use with T8 Lamp EBT1 =One Ballast for use with Compact Lamp EBT2 =Two Ballasts for use with Compact Lamp EBX1 =One Ballast for use with Biaxial Lamp EBX2 =Two Ballasts for use with Biaxial Lamp EB51 =One Ballast for use with T5 Lamp EB52 =Two Ballasts for use with T5 Lamp	EL4 =EM Pack, T8, Biax, (specify 120 or 277) EL5 =EM Pack, T5, T5HO, (specify 120 or 277) FNL =Fluorescent Night Light (5, 7, 9W) GLR =Fuse and Holder SPK =Speaker Housing Compartment (extends housing) On/Off Switches SPS =Security Push Button ³ TCS =Touch Control System ² Stainless Steel Fixture SSN =Natural Brushed Finish SSP =Polyester Powder Coat Finish Fasteners SF3 =Allen-Head (center pin reject)
1' Nom. Length Compact Fluorescent 113 =(1) 13W Lamp 213 =(2) 13W Lamps 313 =(3) 13W Lamps 126 =(1) 26W Lamp 226 =(2) 26W Lamps 2' Nom. Length⁴ T5 Fluorescent 114 =(1) 14W Lamp 214 =(2) 14W Lamps 314 =(3) 14W Lamps 124 =(1) 24W Lamp 224 =(2) 24W Lamps T8 Fluorescent 117 =(1) 17W Lamp 217 =(2) 17W Lamps 317 =(3) 17W Lamps	Biaxial Fluorescent 140BX =(1) 40W Lamp 240BX =(2) 40W Lamps 4' Nom. Length T5 Fluorescent 128 =(1) 28W Lamp 228 =(2) 28W Lamps 328 =(3) 28W Lamps 154 =(1) 54W Lamp 254 =(2) 54W Lamps T8 Fluorescent 132 =(1) 32W Lamp 232 =(2) 32W Lamps 332 =(3) 32W Lamps				Accessories (Order separately) 9306 =Allen-Head Wrench VRSD =T20 Center Pin Tamper-proof TORX®-Head screwdriver	

Notes:

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

PHOTOMETRICS

Candlepower Distribution



Test No. 6026.0

FMC-240-80

Lamp=F40T12RS/WW

No. Lamps=2

Lumens=3200

Efficiency=60.0%

Candlepower

Deg.	I	II
0	970	970
5	954	1126
15	942	1368
25	796	1533
35	674	1733
45	442	1721
55	265	1555
65	200	1478
75	149	1330
85	65	1115
90	13	954

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Luminaire
0-20	351	5.5	9.1
0-40	1231	19.2	32.1
0-60	2266	35.4	59.0
0-90	3477	54.3	90.6
0-120	3821	59.7	99.6
0-180	3838	60.0	100.0

Coefficient of Utilization

rc	80%				70%			50%		30%		10%		0%
rw	70	50	30	10	50	30	10	50	10	50	10	50	10	0
RCR														
0	70	70	70	70	68	68	68	63	63	60	60	56	56	54
1	62	59	56	53	57	54	52	53	49	50	46	47	44	42
2	56	51	46	42	49	45	41	46	39	43	37	40	36	34
3	51	44	39	34	43	38	34	40	32	38	31	35	30	28
4	47	39	33	29	38	32	28	35	27	33	26	31	25	24
5	42	34	28	24	33	28	24	31	23	29	22	28	21	20
6	39	30	25	21	30	24	20	28	20	26	19	25	18	17
7	36	27	22	18	26	21	18	25	17	24	17	22	16	15
8	33	24	19	15	24	19	15	22	15	21	14	20	14	13
9	30	22	17	13	21	16	13	20	13	19	12	18	12	11
10	28	20	15	12	19	15	12	18	11	17	11	17	11	09

rc=Ceiling reflectance, rw=W all reflectance, RCR=Room cavity ratio

CU Data Based on 20% Effective Floor Cavity Reflectance.