

DESCRIPTION

The Fail-Safe FCT combines maximum security construction features with energy saving technology. This low profile, surface-mounted luminaire with clamshell housing, security lensing and tamper resistant fasteners is designed to maximize impact resistance and prevent contraband concealment and unauthorized fixture penetration. Can be ceiling- or wall-mounted. UL/cUL listed for damp locations. The FCT is ideal for confinement/ security applications. Suitable for use in inmate cells, psychiatric wards, secure corridors and general population areas.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Fasteners

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

Housing

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

Finish

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

Hinge

Internal Security Hinge leaves no exposed parts for weapon fabrication and facilitates maintenance.

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 damp locations.



FCT

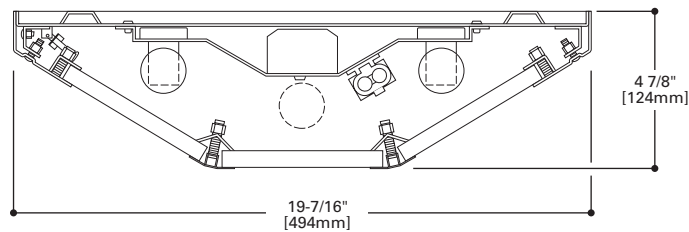
T5

T8

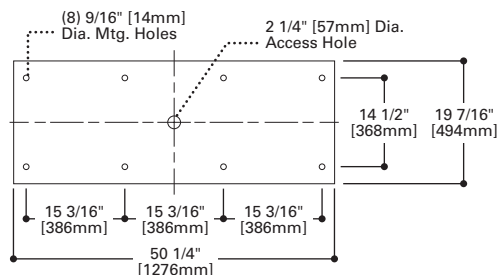
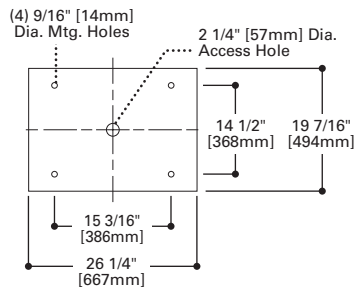
Fluorescent

Confinement/Correctional

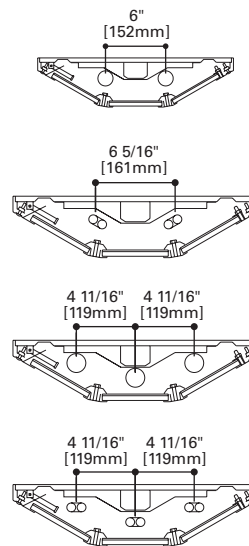
Ultimax
SURFACE



MOUNTING DIMENSIONS



LAMP CONFIGURATIONS



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

ENERGY DATA

Input Watts:

STD Ballasts & STD Lamps

(2) 40W Biaxial Fluorescents: 82W

(3) 40W Biaxial Fluorescents: 127W

ES Ballasts & STD Lamps

(2) 17W T8 Fluorescents: 45W

(3) 17W T8 Fluorescents: 68W

(2) 32W T8 Fluorescents: 71W

(3) 32W T8 Fluorescents: 108W

Electronic Ballast Data

Consult Cooper Lighting Representative

ORDERING INFORMATION

SAMPLE NUMBER: FCT-S-332-UNV-80/86-EB82

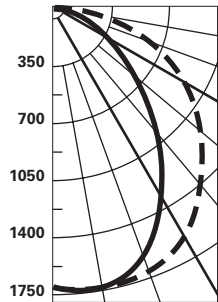
Product Family	Lamp Type	Voltage	Lens Type ⁵	Ballast	Options	Accessories (Order Separately)
			/			
Surface Luminaires FCT-S =12 ga. (Ultimax) FCT-X =14 ga. (Maximum) FCT-D =16 ga. (Medium)	120 = 120V 277 = 277V UNV = 120V-277V 347 = 347V	Inner Layer 4 (optional) 90 =.005 UV Absorbing Overlay Fixture Side 80 =0.125 Prismatic Acrylic 81 =0.156 Prismatic Polycarbonate 82 =0.187 Prismatic Polycarbonate 93 =0.156 Prismatic Tempered Glass	Environmental Side 4 84 =0.125 Clear Polycarbonate 85 =0.187 Clear Polycarbonate 86 =0.250 Clear Polycarbonate 87 =0.375 Clear Polycarbonate 88 =0.500 Clear Polycarbonate 94 =0.187 Clear Tempered Glass 96 =0.250 Clear Tempered Glass 97 =0.375 Clear Tempered Glass 98 =0.500 Clear Tempered Glass	Electronic Ballast ¹ EB51 =(1) Ballast for use with T5 lamp EB52 =(2) Ballasts for use with T5 lamps EB81 =(1) Ballast for use with T8 lamp EB82 =(2) Ballasts for use with T8 lamps EBX1 =(1) Ballast for use with Biaxial Lamp EBX2 =(2) Ballasts for use with Biaxial Lamps	CPH = Continuous Concealed Piano Hinge EL4 = EM Pack, T8, Biax EL5 = EM Pack, T5, T5HO GLR = Fuse and Holder FNL = Fluorescent Night Light ⁶ (5, 7, 9W) LNL = LED Night Light ⁶ On/Off Switches TCS = Touch Control System ^{2, 3} Stainless Steel Outer Housing SSN = Natural Brushed Finish SSP = Polyester Powder Coat Finish Fasteners SF3 = Allen-head (Center-pin reject)	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 (ADC030025).
³ TCS requires signed submittal drawings when module is specified in the fixture.
⁴ Inner Layer and Environmental Side lenses not to exceed 0.625" total thickness when specifying polycarbonate on environmental side
 Inner Layer and Environmental Side lenses not to exceed 0.500" total thickness when specifying tempered glass on environmental side
⁵ See Lens Ordering Guide sheet for additional lens choices.
⁶ Voltage required if ordering FNL or LNL options.

PHOTOMETRICS

Candlepower Distribution



Test No. 4956
FCT-X-340-80/87-120V
 Lamp=(3) F40T12RS/WW
 Lumens=3200
 Spacing Criteria
 $\perp=1.3$ $\parallel=1.2$
 Efficiency=49.4%

$\perp$
 $\parallel$

Candlepower

Deg.	$\perp$	$\parallel$
0	1740	1740
5	1746	1748
15	1695	1690
25	1623	1524
35	1505	1228
45	1210	866
55	977	523
65	794	302
75	468	109
85	236	19
90	162	0

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Luminaire
0-30	1375	14.3	29.0
0-40	2247	23.4	47.4
0-60	3751	39.1	79.1
0-90	4658	48.5	98.2
90-180	84	0.9	1.8
0-180	4742	49.4	100.0

Coefficient of Utilization

rc rw RCR	80%				70%			50%		30%		10%		0%
	70	50	30	10	50	30	10	50	10	50	10	50	10	0
0	59	59	59	59	57	57	57	54	54	52	52	50	50	49
1	54	52	50	48	51	49	47	48	45	46	44	44	43	41
2	50	46	43	40	45	42	39	43	38	41	37	40	36	35
3	46	41	37	34	40	36	34	38	33	37	32	36	32	31
4	42	36	32	29	36	32	29	34	28	33	28	32	28	26
5	38	32	28	25	32	28	25	31	24	29	24	29	24	23
6	35	29	25	22	28	24	22	28	21	27	21	26	21	20
7	33	26	22	19	26	22	19	25	19	24	18	23	18	17
8	30	23	19	17	23	19	16	22	16	22	16	21	16	15
9	28	21	17	14	21	17	14	20	14	20	14	19	14	13
10	26	19	15	13	19	15	13	18	13	18	12	17	12	11

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