



TUST-LED

Maximum Security Surface Mount **LED** Ceiling

PRODUCT SPECIFICATION

The TUST series is designed for ceiling surface mount cell lighting in medium, maximum and super max security detention facilities.

Mounting

Surface mounts to ceiling.

Clamshell Housing

One piece, die-formed cold rolled steel with tapered sides, seams welded and ground smooth, 14 gauge lens retainers and a full length, welded pin piano hinge. Stainless steel available.

Back Plate

16 gauge die-formed cold rolled steel with embossed mounting holes to create a contraband drop slot / irremovable blade trap.

Internal Lens

Optic Plus lens (standard) completely hides diode image while providing minimum 95% light transmission.

Finish

Polyester powder-coated after phosphate pretreatment for superior adhesion and corrosion resistance. Brushed stainless steel available.

Hardware

Recessed, stainless steel, tamper-proof fasteners.

Driver

0-10Vdc dimming, Range 1%-100%
-40°C Min. starting temperature, >0.9 PF, <20% THD.

Wiring

Driver provided with pre-wired 3-wire self-aligning input power quick disconnect and 2-wire quick disconnect to LED module.

Certifications

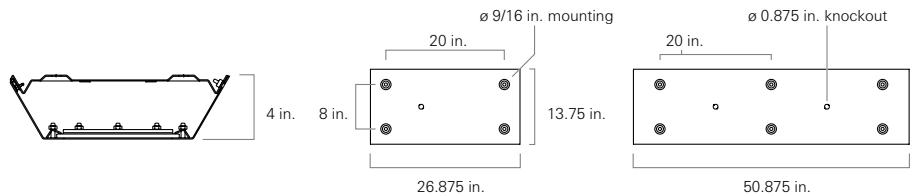
UL Listed damp or wet location. IP34 rated. Covered ceilings only.

Job Name _____

Fixture Type _____

Catalog No. _____

Approval _____ Date _____



one	Luminaire Size	seven	Voltage	eleven	Door Fasteners
2	2 ft fixture	120	120 V, 60 Hz	AP	Stainless steel allen head with pin
4	4 ft fixture	277	277 V, 60 Hz	TP	Stainless steel torx head with pin
		VAR	Variable, 120-277 V, 50/60Hz	PH	Phillips head, non-security
two	LED Rows	eight	Driver	twelve	Electrical Access
1L	One	DM	0-10Vdc Dimming, <u>standard</u>	A	2.250 in. diameter access hole
2L	Two			K	0.875 in. diameter knockout(s), <u>std</u>
3L	Three				
three	Color Temperature	nine	Internal Lens	thirteen	UL Listing
30	3000K	122	Optic Plus LED diffusing acrylic lens, <u>std</u>	D	Damp Location
35	3500K	53	.125 in. K12 prismatic acrylic	W	Wet Location
40	4000K	12	.125 in K12 prismatic polycarbonate		
50	5000K	15	.156 in. K12 prismatic polycarbonate		
		16	.187 in. K12 prismatic polycarbonate	fourteen	Options
		75	.156 in. C73 prismatic tempered glass	SO	Specified output*
four	Housing Gauge	ten	External Lens	2C	Two-circuit wired
N	18 gauge, minimum security	30	.187 in. clear polycarbonate	CU	Canadian UL Listing
D	16 gauge, medium security	32	.250 in. clear polycarbonate	EM	Emergency battery backup
X	14 gauge, maximum security	36	.375 in. clear polycarbonate	FH	Fuse and holder
U	12 gauge, super max, <u>CRS only</u>	38	.500 in. clear polycarbonate	NL-LED	Night light, LED
		90	.187 in. clear tempered glass	IMS	Integral Occ Sensor
five	Housing Material	92	.250 in. clear tempered glass		
C	Cold rolled steel	96	.375 in. clear tempered glass		
S	Stainless steel				
six	Finish				
R	Brushed stainless steel				
W	White				

* Indicated as SO(xx/xxxx). Specified output, Input watts / delivered lumens to be determined based on specified requirements.

Modifications are available to meet custom requirements.

Photometric Data for a 4-ft fixture (Full Output)

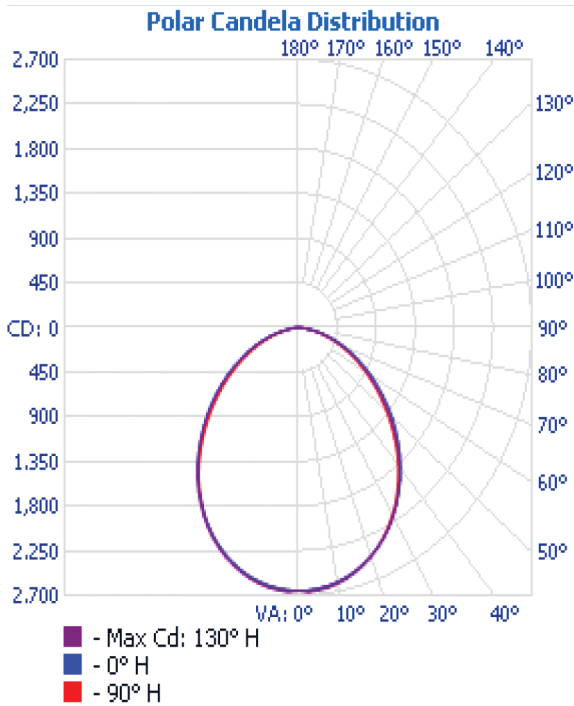
Lumens	Input Watts	Lumens / Watt	CCT	CRI	LED Life
6667	55 watts	122	4000K	>80	>100,000

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50			30			10			0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCC: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.10	1.05	1.01	.98	1.07	1.03	.99	.86	.99	.96	.93	.95	.92	.90	.91	.89	.87	.85
2	1.00	.92	.86	.80	.98	.90	.85	.73	.87	.82	.78	.84	.80	.76	.81	.77	.74	.72
3	.92	.82	.74	.68	.89	.80	.73	.63	.77	.71	.66	.74	.69	.65	.72	.67	.64	.61
4	.84	.73	.64	.58	.82	.71	.63	.55	.69	.62	.57	.67	.61	.56	.64	.59	.55	.53
5	.78	.65	.56	.50	.75	.64	.56	.48	.62	.55	.49	.60	.54	.49	.58	.53	.48	.46
6	.72	.59	.50	.44	.70	.58	.50	.42	.56	.49	.43	.54	.48	.43	.53	.47	.43	.41
7	.67	.53	.45	.39	.65	.53	.45	.38	.51	.44	.39	.50	.43	.38	.48	.42	.38	.36
8	.62	.49	.41	.35	.61	.48	.40	.34	.47	.40	.35	.46	.39	.34	.45	.39	.34	.32
9	.58	.45	.37	.31	.57	.44	.37	.31	.43	.36	.31	.42	.36	.31	.41	.35	.31	.29
10	.54	.42	.34	.29	.53	.41	.34	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26

TUST-LED 4-ft - Polar Candela Distribution (Full Output)



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