TUST-LED

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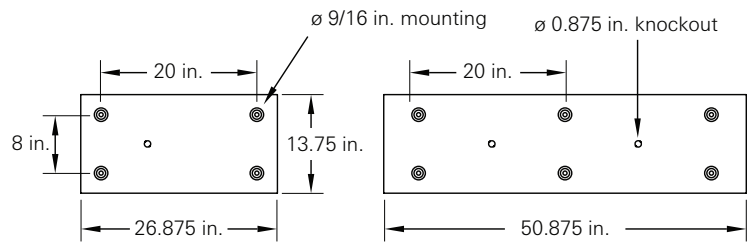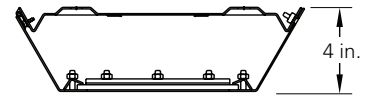
Certifications
UL Listed damp or wet location. IP34 rated. Covered ceilings only.

Job Name

Fixture Type

Catalog No.

Approval   Date

4 in.

ø 9/16 in. mounting   ø 0.875 in. knockout

20 in.   20 in.

8 in.   13.75 in.

26.875 in.   50.875 in.

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**						
1L	One		**eight**	**Driver**		**twelve**	**Electrical Access**
2L	Two		DM	0-10Vdc Dimming, standard		A	2.250 in. diameter access hole
3L	Three					K	0.875 in. diameter knockout(s), std
			nine	**Internal Lens**			
three	**Color Temperature**		122	Optic Plus LED diffusing acrylic lens, std		**thirteen**	**UL Listing**
30	3000K		53	.125 in. K12 prismatic acrylic		D	Damp Location
35	3500K		12	.125 in K12 prismatic polycarbonate		W	Wet Location
40	4000K		15	.156 in. K12 prismatic polycarbonate			
50	5000K		16	.187 in. K12 prismatic polycarbonate		**fourteen**	**Options**
			75	.156 in. C73 prismatic tempered glass		SO	Specified output*
four	**Housing Gauge**					2C	Two-circuit wired
N	18 gauge, minimum security		**ten**	**External Lens**		CU	Canadian UL Listing
D	16 gauge, medium security		30	.187 in. clear polycarbonate		EM	Emergency battery backup
X	14 gauge, maximum security		32	.250 in. clear polycarbonate		FH	Fuse and holder
U	12 gauge, super max, CRS only		36	.375 in. clear polycarbonate		NL-LED	Night light, LED (Amber available)
			38	.500 in. clear polycarbonate			*5-100% Adjustability*
five	**Housing Material**		90	.187 in. clear tempered glass		IMS	Integral Occ Sensor
C	Cold rolled steel		92	.250 in. clear tempered glass			
S	Stainless steel		96	.375 in. clear tempered glass			* Indicated as SO(xx/xxxx). Specified output, Input watts / delivered lumens to be determined based on specified requirements.
six	**Finish**						
R	Brushed stainless steel						Modifications are available to meet custom requirements.
W	White						Specifications and dimensions are subject to change without notice.

TUST [ ] [ ] [ ] - [ ] [ ] [ ] - [ ] [ ] [ ] / [ ] - [ ] [ ] [ ] - [_____]
one two three four five six seven eight nine ten eleven twelve thirteen fourteen

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
RCR: 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)

- Max Cd: 130° H
- 0° H
- 90° H
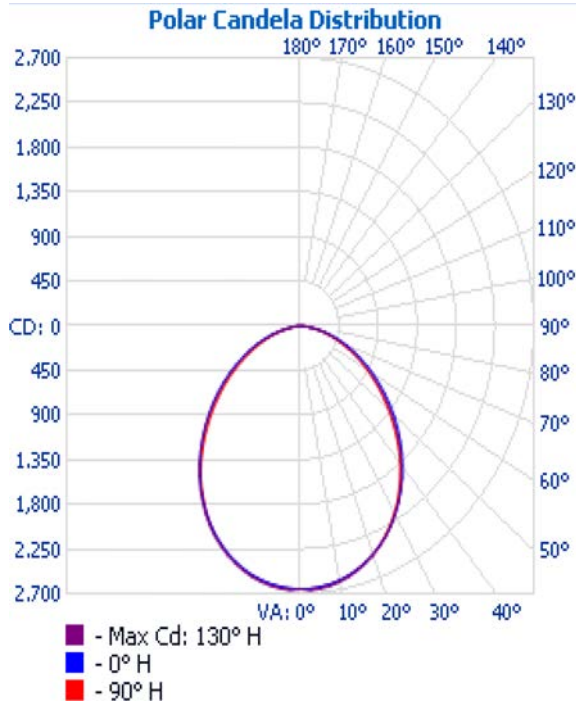
The L.C. Doane Company
PO Box 700, Ivoryton, CT 06442
tel: 860.767.8295 fax: 860.767.1397
www.lcdoane.com

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