PRODUCT SPECIFICATION

The TST series is designed for use in all levels of correctional facilities, behavioral health units, and high abuse applications. Anti-ligature for patient safety.

Mounting
Surface-mounts to ceilings.

Housing
Die-formed cold rolled steel with seams welded and ground smooth. Stainless steel available.

Door
One piece, die-formed cold rolled steel door with 14 gauge lens retainers and a full length welded pin piano hinge. Stainless steel available.

Internal Lens
Optic Plus lens (standard) completely hides diode image while providing greater than 90% light transmission.

Finish
Polyester powder-coated after phosphate pretreatment for superior adhesion and corrosion resistance. 304 Brushed stainless steel available.

Hardware
Recessed, stainless steel, tamper-proof fasteners.

Driver
0-10Vdc 1% dimming, >0.9 PF, <20% THD
Factory programmable, Operating temp -40°C Min. to 50°C Max

Wiring
Driver provided with pre-wired 3-wire self-aligning input power quick disconnect and 2-wire quick disconnect to LED module.
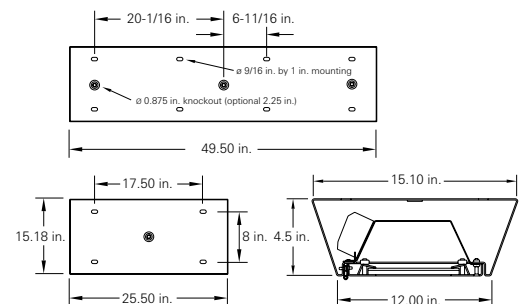
Certifications
UL Listed damp or wet location. IP54 rated. Covered ceilings only.

Job Name

Fixture Type

Catalog No.

Approval   Date

20-1/16 in.   6-11/16 in.

ø 9/16 in. by 1 in. mounting

ø 0.875 in. knockout (optional 2.25 in.)

49.50 in.

17.50 in.   15.10 in.

15.18 in.   8 in. 4.5 in.

25.50 in.   12.00 in.

	one	two	three	four	five	six	seven	eight	nine	ten	eleven	twelve	thirteen	fourteen	fifteen
TST	-		/	-			-		**DM**	-	/	-			-

one Luminaire Size
2   2 ft fixture
4   4 ft fixture

two LED Source
Refer to the LED Source Table on Page 2 for available options.

three Color Temperature
30   3000K
35   3500K
40   4000K
50   5000K

four CRI
80   80 CRI
90   90 CRI

five Material Gauge
N   18 gauge, minimum security
D   16 gauge, medium security
X   14 gauge, maximum security
U   12 gauge, ultra maximum security

six Material
C   Cold rolled steel
S   Stainless steel

seven Finish
R   304 Brushed stainless steel
W   White

eight Voltage
VAR   Variable, 120-277 V, 50/60Hz
347   347VAC, 60Hz

nine Driver
DM   0-10Vdc Dimming, standard

ten Internal Lens
122   Optic Plus LED diffusing acrylic, standard
130   .125 in. LED diffusing Lexan
53   .125 in. K12 prismatic acrylic
12   .125 in. K12 prismatic polycarbonate
15   .156 in. K12 prismatic polycarbonate
16   .187 in. K12 prismatic polycarbonate
75   .156 in. C73 prismatic tempered glass

eleven External Lens
30   .187 in. clear polycarbonate
32   .250 in. clear polycarbonate
36   .375 in. clear polycarbonate
38   .500 in. clear polycarbonate
90   .187 in. clear tempered glass
92   .250 in. clear tempered glass
96   .375 in. clear tempered glass

twelve Door Fasteners
AP   Stainless steel allen head with pin
TP   Stainless steel torx head with pin
PH   Phillips head, non-security

thirteen Electrical Access
A   2.250 in. diameter access hole
K   0.875 in. diameter knockout(s), standard

fourteen UL Listing
D   Damp Location
W   Wet Location

fifteen Options
2C   Two-circuit wired
CU   Canadian UL Listing
EM   Emergency battery backup
FH   Fuse and holder
NL-LED   Night light, LED* (Amber available)
    5-100% Adjustability
IMS   Integral Occ Sensor

* Field adjustable LED Night Night from approximately 250 - 500 Lumens.

Modifications are available to meet custom requirements.
Specifications and dimensions are subject to change without notice.

	CRI	LED Life
	>80	>100,000

LED Source (Box 2)	3000K		3500K		4000K		5000K		Input Watts
	Delivered Lumens	L/W	Delivered Lumens	L/W	Delivered Lumens	L/W	Delivered Lumens	L/W	
2' Fixture									
1W21	2048	89	2079	90	2140	93	2200	96	23.0
2W39	3766	95	3822	97	3935	99	4045	102	39.6
2W52	5041	92	5116	93	5267	96	5414	99	54.8
4' Fixture									
1W22	2129	95	2161	97	2225	100	2287	103	22.3
1W39	3766	95	3822	97	3935	99	4045	102	39.6
1W52	5041	92	5116	93	5267	96	5414	99	54.8
2W67	6488	96	6585	97	6779	100	6969	103	67.6
2W92	8838	94	8971	96	9235	99	9494	101	93.7
2W105	10081	92	10233	93	10534	96	10829	99	109.6

Delivered lumen output calculated using 122 inner lens and 32 (.250″ Clear Polycarbonate) outer lens (Highlighted below).

Lens Multiplier - Use the multipliers below to adjust the delivered lumens					
Internal Lens			**External Lens**		
53	.125 in. K12 prismatic acrylic	1.00	30	.187" Clear polycarbonate	1.02
12	.125 in K12 prismatic polycarbonate	.98	32	.250" Clear Polycarbonate	1.00
15	.156 in. K12 prismatic polycarbonate	.97	36	.375" Clear polycarbonate	.96
16	.187 in. K12 prismatic polycarbonate	.95	38	.500" Clear polycarbonate	.92
75	.156 in. C73 prismatic tempered glass	.97	90	.187" Clear tempered glass	1.04
122	Optic Plus diffusing acrylic	1.00	92	.250" Clear tempered glass	1.03
90 CRI Multiplier		**.86**	96	.375" Clear tempered glass	.99

Specified Output Option

L.C. Doane programmable drivers allows us to deliver a specific lumen output. If none of the options in the chart above fit your application, let us know the desired lumen output and we will do the rest. See the example how this will be specified.

Example Model:
TST-XX[1]SO-40/80-DCW-VARDM-122/32-TP-DAW-(XX[2]/LUMENS)
LUMENS = You provide the lumens.
XX[1] = We will determine the number of rows.
XX[2] = We will provide the wattage information.