

Correctional

Behavioral Health

Surface Ceiling

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.

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

Recessed, stainless steel, tamper-proof fasteners.

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

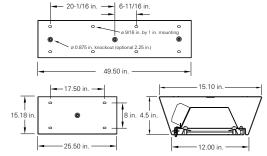
Driver provided with pre-wired 3-wire self-aligning input power quick disconnect and 2-wire quick disconnect to LED module.

Certifications

UL Listed damp or wet location. IP54 rated. Covered ceilings only.



















	one	two	three	four	five	six	seven	eight	nine	ten	eleven	twelve thirteen	fourteen	fifteen	
TST	_			1	_			_	DM	_	1	_		-	

	- /	-	- DM -	-	
one 2 4 two	Luminaire Size 2 ft fixture 4 ft fixture LED Source	seven R W eight	Finish 304 Brushed stainless steel White Voltage	twelve AP TP PH	Door Fasteners Stainless steel allen head with pin Stainless steel torx head with pin Phillips head, non-security
three	Refer to the LED Source Table on Page 2 for available options. Color Temperature	VAR 347 nine	Variable, 120-277 V, 50/60Hz 347VAC, 60Hz Driver	thirteen A K	Electrical Access 2.250 in. diameter access hole 0.875 in. diameter knockout(s), standard
30 35 40 50	3000K 3500K 4000K 5000K	DM ten 122	0-10Vdc Dimming, <u>standard</u> Internal Lens Optic Plus LED diffusing acrylic, standard	fourteen D W	UL Listing Damp Location Wet Location
four 80 90	CRI 80 CRI 90 CRI	130 53 12 15 16	.125 in. LED diffusing Lexan .125 in. K12 prismatic acrylic .125 in. K12 prismatic polycarbonate .156 in. K12 prismatic polycarbonate .187 in. K12 prismatic polycarbonate	fifteen 2C 1H0 2H0	Options Two-circuit wired (1) .875" conduit access hole (one end) (2) .875" conduit access holes (each end)
five N D	Material Gauge 18 gauge, minimum security 16 gauge, medium security	75 eleven	.156 in. C73 prismatic tempered glass External Lens	CU EM FH	Canadian UL Listing Emergency battery backup Fuse and holder
X U	14 gauge, maximum security 12 gauge, ultra maximum security	30 32 36	.187 in. clear polycarbonate .250 in. clear polycarbonate .375 in. clear polycarbonate	NL-LED IMS	Night light, LED* (Amber available) 5-100% Adjustability Integral Occ Sensor
six C	Material Cold rolled steel	38 90 92	.500 in. clear polycarbonate .187 in. clear tempered glass .250 in. clear tempered glass		* Field adjustable LED night light from approximately 250 - 500 Lumens.
S	Stainless steel	96	275 in clear tempored glass	Modific	cations are available to meet custom requirements

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

.375 in. clear tempered glass

96

CRI	LED Life
>80	>100,000

LED	3000	K	3500	(4000	К	5000К					
Source (Box 2)	Delivered Lumens	L/W	Delivered Lumens	L/W	Delivered Lumens	L/W	Delivered Lumens	L/W	Input Watts			
	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	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										
	Inte	rnal Lens		External Lens							
53	.125 in. K12 prismatic acry	ylic	1.00	30	.187" Clear polycarbonate	1.02					
12	.125 in K12 prismatic poly	carbonate	.98	32	.250" Clear Polycarbonate	1.00					
15	.156 in. K12 prismatic poly	ycarbonate	.97	36	.375" Clear polycarbonate	.96					
16	.187 in. K12 prismatic poly	ycarbonate	.95	38	.500" Clear polycarbonate	.92					
75	.156 in. C73 prismatic ten	npered glass	.97	90	.187" Clear tempered glass	1.04					
122	Optic Plus diffusing acryl	ic	1.00	92	.250" Clear tempered glass	1.03					
9	0 CRI Multiplier	.83		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-XX¹SO-40/80-DCW-VARDM-122/32-TP-DAW-(XX²/LUMENS) LUMENS = You provide the lumens.

 XX^1 = We will determine the number of rows.

XX² = We will provide the wattage information.