TRA-LED

Transportation / Transit Versatile Mounting LED

PRODUCT SPECIFICATION

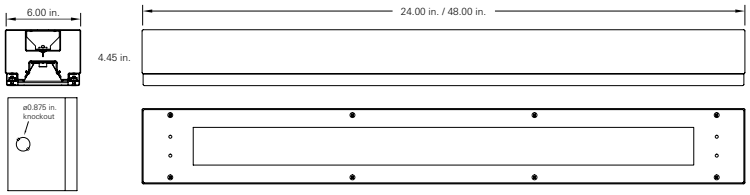
The TRA series is designed for multiple mounting configurations in transit and transportation applications. The superior construction and LED technology make the TRA the perfect solution for today's high traffic requirements.

Job Name

Fixture Type

Catalog No.

Approval Date



Mounting
Multiple mounting options available.

Housing
Die-formed cold rolled steel with seams welded and ground smooth. 0.875 in. conduit knockouts included ((1) back , (1) each end). Stainless steel available.

Door
One piece, die-formed cold rolled steel door, stainless steel piano hinged. Stainless steel door 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. 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. Covered ceilings only. IP65 Rated. Constructed to pass MIL-S-901 Grade A, Type A, High Impact Shock Test and MIL-S-167 Type 1, Vibration Test

BAA BABA

WOSB FIVE YEAR WARRANTY IP65 RATED WET UL LISTED MADE IN USA

one	two	three	four	five	six	seven	eight	nine	ten	eleven	twelve	thirteen	fourteen
TRA				- N			- VAR	DM	-	/	-		W	-

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
- 35 — 3500K
- 40 — 4000K
- 50 — 5000K

four Housing Gauge
- N — 18 gauge

five Housing Material
- C — Cold rolled steel
- S — Stainless steel

six Finish
- R — Brushed stainless steel
- W — White
- B — Matte black
- G — Grey

seven Voltage
- VAR — Variable, 120-277 V, 50/60Hz

eight Driver
- DM — 0-10Vdc Dimming, standard

nine Internal Lens
- 122 — Optic Plus LED diffusing acrylic lens, standard
- 130 — .118 Opal polycarbonate

ten External Lens
- 33 — .125 in. clear polycarbonate
- 30 — .187 in. clear polycarbonate, standard
- 32 — .250 in. clear polycarbonate
- 90 — .187 in. clear tempered glass

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

twelve Mounting Profile
See Page 2 for mounting profiles.

thirteen UL Listing
- W — IP65

fourteen Options
- CH — 3/4" Hubs on each end *(See Page 2 for profile)*
- CU — Canadian UL Listing
- EM — Emergency battery backup
- RMxx* — Row mounting *Includes Chase Nipple(s), PVC Gasket(s), and Sealing Locknut(s)*

*xx = Length of row in feet

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									
1W18	1718	100	1744	102	1795	105	1845	108	17.1
1W24	2301	100	2335	102	2404	105	2471	107	23.0
1W29	2831	99	2873	100	2958	103	3041	106	28.7
4' Fixture									
1W18	1757	105	1783	107	1836	110	1887	113	16.7
1W29	2811	108	2853	109	2937	113	3019	116	26.1
1W44	4230	107	4294	108	4420	112	4544	115	39.6
1W59	5662	103	5747	105	5916	108	6082	111	54.8

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		
53	.125 in. K12 prismatic acrylic	1.00
12	.125 in K12 prismatic polycarbonate	.98
15	.156 in. K12 prismatic polycarbonate	.97
16	.187 in. K12 prismatic polycarbonate	.95
75	.156 in. C73 prismatic tempered glass	.97
122	Optic Plus diffusing acrylic	1.00
90 CRI Multiplier		**.83**

External Lens		
30	.187" Clear polycarbonate	1.02
32	.250" Clear Polycarbonate	1.00
36	.375" Clear polycarbonate	.96
38	.500" Clear polycarbonate	.92
90	.187" Clear tempered glass	1.04
92	.250" Clear tempered glass	1.03
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:

TRA-XX[1]SO-40/80-DCW-VARDM-122/32--TPG1W-(XX[2]/LUMENS)

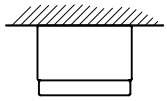
LUMENS = You provide the lumens.

XX[1] = We will determine the number of rows.

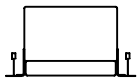
XX[2] = We will provide the wattage information.

Mounting Profiles (enter in Box Thirteen - SM, standard)

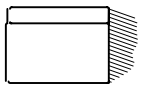
SM
Surface Mount
Ceiling or Wall



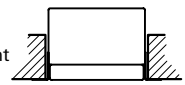
G1
Grid Mount, 1" T Std
(Alternate options available)



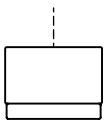
WMU
Wall Mount
Up



FM
Flanged Ceiling Mount
w/ Flush Door



PM
Pendant Mount
Pendant supplied by others.
Customer must provide mounting hole template.



WMD
Wall Mount
Down