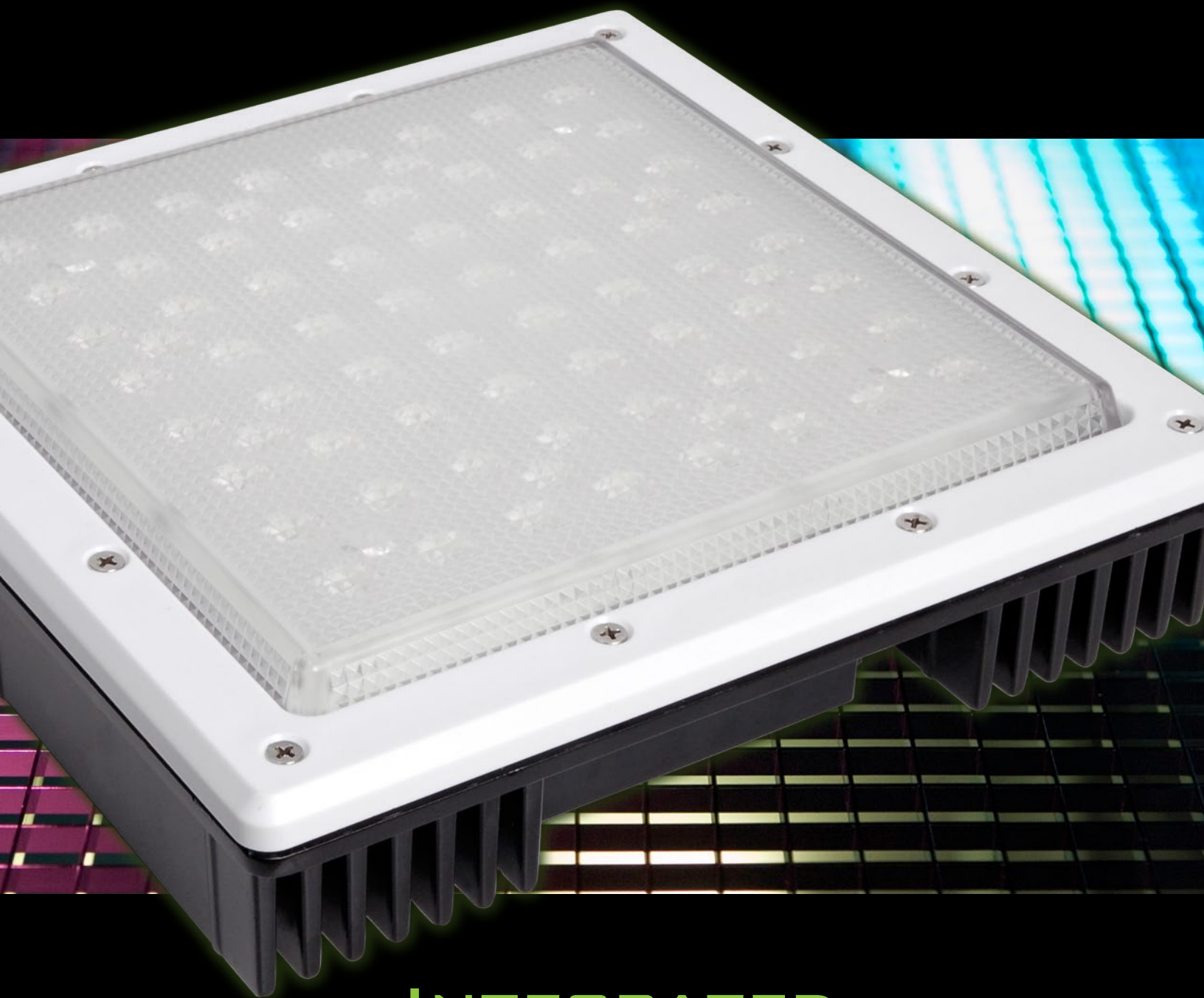




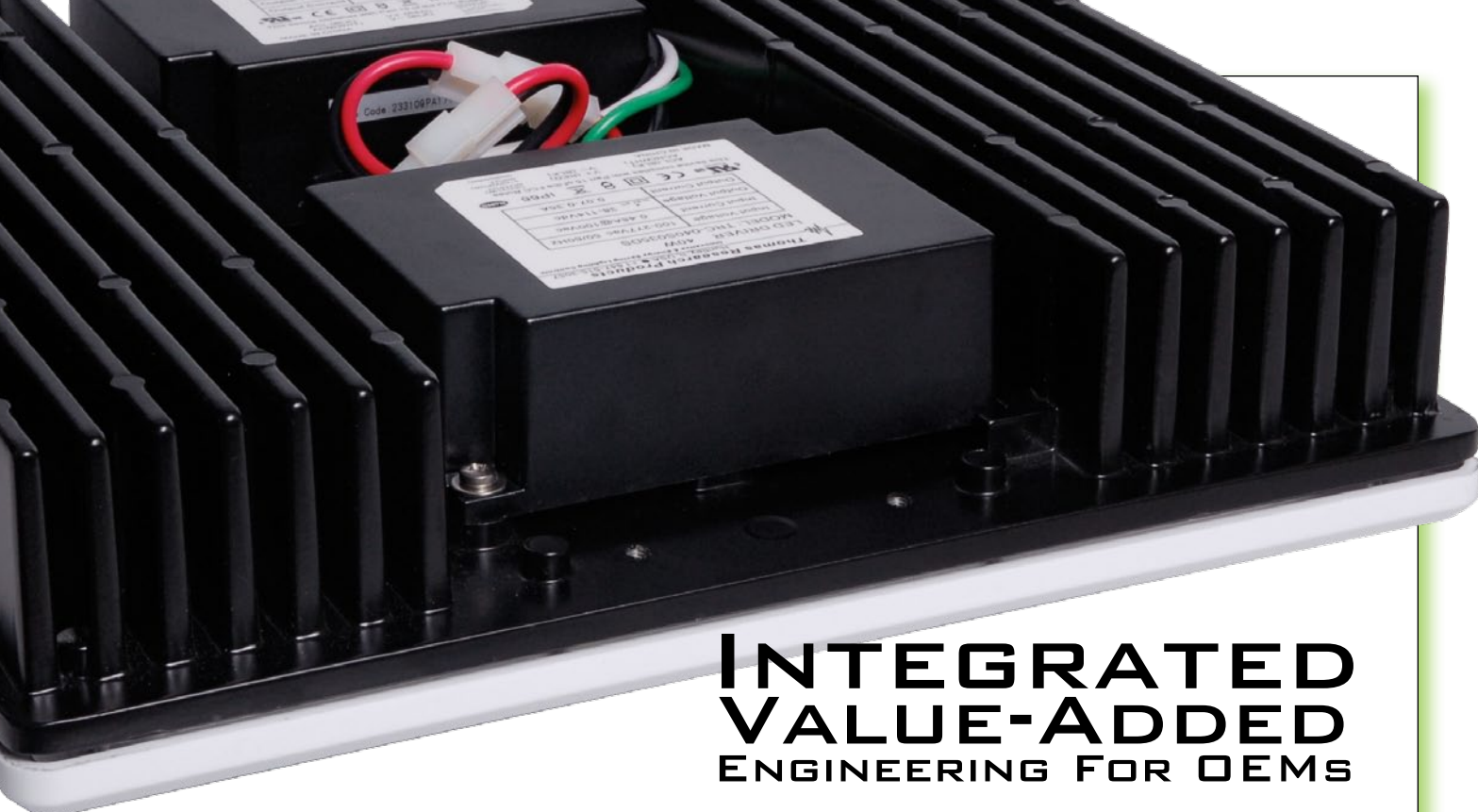
Thomas Research Products

SSL Solutions Faster Than The Speed Of Light™

LED CORE™



**INTEGRATED
LIGHT ENGINE MODULE**
FOR LUMINAIRE MANUFACTURERS



INTEGRATED VALUE-ADDED ENGINEERING FOR OEMS

The LED Core™ is a series of highly integrated modules that combine Light Engine, Driver/Power Supplies, Optics and Passive Thermal Management.

Thomas Research Products capitalizes on our years of experience in the lighting industry and LED driver expertise to offer fixture manufacturers a turn-key opportunity to overcome cost and time barriers to LED system development. Our module matches the LED Driver to the LEDs. And with the optics, the system is designed to specific lighting requirements of different applications. Every aspect of the design has been carefully considered to deliver optimized performance. The module seamlessly integrates into most fixture designs.

Lower system development cost plus faster time to market. The LED Core™ is a perfect “value added” solution for our OEM customers.

MODULAR BODY

The patented design maximizes efficiency, optical performance and thermal performance. The single piece die-cast aluminum body is powder coated and features a robust design for superior thermal management and durability.

- Modular: makes it to easy replace key components.
- Can qualify for IP rating, depending on fixture design.
- Supported by 5 year limited warranty, once the fixture has been validated.



EASY INTEGRATION

- See data sheets for mounting details. Custom fixture mount only.
- Full CAD and Step files available from TRP to streamline the integration process.
- UL8750 Recognized
- We provide assistance in certifying your fixture.



Example: LED Core™ integrated with a sample canopy fixture



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OPTICS

- The LED Core™ comes complete with gasketed UV stabilized polycarbonate lens and injection-molded frame. Application-specific lens designs feature advanced optical characteristics.
- Lenses tested to IESNA LM-79 standard by an independent testing laboratory.
- IES files are available on the TRP website

LIGHT + POWER

- Neutral White LEDs (5000K) with 75 CRI typical
- Choose “e” series models for higher efficacy, up to 97 lpw
- Output lumens will vary depending on different factors involved with fixture integration
- $\pm 7\%$ tolerance maintained on flux measurements
- TRP premium LED Drivers accommodate universal voltage (100-277Vac)
- Drivers offer high power factor, 90% typical
- FCC Part 15 Class B EMI Compliant

LIFE AND LUMEN MAINTENANCE

- Lifetime and Lumen Maintenance are influenced by the LEDs utilized, the power supply, and thermal characteristics of the fixture in which the module is mounted. Additional heat dissipating capacity from the fixture is highly recommended. Actual lumen maintenance can only be calculated once the luminaire design is completed and tested.
- Lumen maintenance to be determined by using LM80, in-situ thermal data in accordance with DOE/EPA standards and reliability data supplied by LED Manufacturer.

ENVIRONMENTAL IMPACT:

- RoHS Compliant
- No mercury
- Reduction in Kw load by as much as 60%



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APPLICATION-SPECIFIC MODELS

- Choose "e" series models for higher efficacy (lumen-per-watt)
- If dimming is required, add "-D" to the module part number (includes dimmable drivers)

GARAGE MODULE

The garage module features DLC compliant Type "V" Medium optics.

Part Number	System Watts	Initial Lumens	Lumens Per Watt	Replaces HID lamp*	Energy Savings†
TR-SS1-e36G	42	4072	97	100W HPS	88W
TR-SS1-e48G	56	5429	97	150W MH	144W
TR-SS1-e64G	75	7202	96	175W MH	135W
TR-SS1-36G	40	3239	81	100W HPS	90W
TR-SS1-48G	55	4370	80	150W MH	145W
TR-SS1-64G	71	5689	80	150W MH	129W



CANOPY MODULE

The canopy module's low profile design is ideally suited for luminaires in security, covered entry ways, and soffit installations. Even wall designs are possible. Features Type "V" Short optics.

Part Number	System Watts	Initial Lumens	Lumens Per Watt	Replaces HID lamp*	Energy Savings†
TR-SS1-e36C	41	2925	71	70W HPS	50W
TR-SS1-e48C	55	3900	71	100W HPS	75W
TR-SS1-e72C	82	5848	71	175W MH	128W
TR-SS1-36C	40	2762	69	70W HPS	51W
TR-SS1-48C	55	3727	68	100W HPS	75W
TR-SS1-72C	80	5525	69	175W MH	130W



ADDITIONAL APPLICATIONS IN DEVELOPMENT

* Based on Mean Lumens

† LED Core™ system wattage compared to avg. HID ballast input wattage

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TRPCOR (10/2012)