

TL-RTL2/RTL3 Roadway Luminaire

Features and Benefits

- 106-155 Watt Low Power and High Performance
- Application – High performance, energy-efficient, solid-state luminaire for roadway lighting applications. Lighting performance equivalent to 70-150 watt HID (high intensity discharge) luminaires with 50%+ energy savings.
- Construction – Heavy-duty, corrosion-resistant, low-copper, die cast aluminum housing and stainless steel hardware provide strength and durability. Powder-coated finish and IP66 construction provides durable resistance to outdoor environments.
- Optics – Precision-molded, high-impact, optical-grade PMMA (polymethyl methacrylate) lenses provide uniform Type II, Type III, Type IV, and Type V distributions. Keyed lens assemblies ensure consistent photometric performance across a broad range of available levels of lumen output. Proprietary optical design provides zero lumens above the horizontal plane.
- LED Rated Life (L85)* – 100,000 hours or more when operated in a 25 °C (77 °F) ambient environment. LED rated life is based on 9,000 hours of LED testing per LM-80-08, and projected values per IESNA TM21-11.
- LEDs & PCB (Printed Circuit Board) – High efficiency 4000K/5700K, 70-75 CRI LEDs are mounted to a metal core PCB. PCB is mounted to a finned, aluminum heat sink using a patented, zero air gap technology, which maximizes heat transfer and provides long LED operating life.
- Light Cutoff – Full cutoff, zero uplight.
- Listing – cETLus listed to applicable UL standards. DLC (DesignLights™ Consortium) qualified, and Lighting Facts® listed. IP66 rated. Suitable for ambient temperatures from -40 °C to 40 °C (-40 °F to 104 °F). RoHS (Restriction of Hazardous Substances) compliant. Salt Fog testing conforms to ASTM Designation B117.
- 5 Year Warranty*



TL-TLS-RTL3:
 EPA: 0.85sq ft
 Length: 21.6in
 Width: 9.8in
 Height: 5.0in
 Weight: 21lbs

Applications

- Parking Areas
- Roadways
- Billboards
- Wall pack lighting
- Streets
- Any other space requiring reliable safety and security

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Example: TL-RTL2421SND

Model Designator:	LED Quantity:	CCT:	Distribution:	Voltage:	Housing Color:***	Photocell:	Options:
TL-RTL	2 = 24	4 = 4000K	2 = Type II	1 = 120V-277V	S = Silver	O = None	B = Bubble Leveler
	3 = 36	6 = 5700K	3 = Type III	Universal	R = Bronze	P = Digital ****	D = Dimming (0-10vdc)
			4 = Type IV			N = NEMA Receptacle	
			5 = Type V			R = NEMA Photocell	

Certifications:
RoHS, ETL Listed



* For warranty terms please visit our website Trans-Lux.com
 ** L85 LED rated life is the time period at which lumen output has depreciated to 85% of its initial output.
 *** Longer lead times may apply for Bronze.
 **** Integral photocells provide on-board lighting controls and have a rated life of more than 15 years, eliminating the need for frequent replacement of traditional, NEMA receptacle photo cells. Long operational life is provided by a set of four redundant photocells, which provide a fail-safe back-up if one or more photocells fail to operate. Standard programming provides 30% and 70% dimming based on ambient light levels.



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- Mounting – Five cast leveling steps provide a tenon mounting system adjustable from $\pm 5^\circ$. 4-bolt mounting system and 3G vibration rating are standard. Mounting system designed for tenon arms with outside diameters of 1 5/8 – 2 3/8". Tool-less entry to the wiring compartment provides easy installation and maintenance.
- Terminal Block – Standard tunnel-type compression terminal block provides secure wire attachment and quick installation. Terminals are sized for #6 to #14 AWG wire.
- LED Drivers – Available at universal 120-277V at 50/60Hz. Feature high power factor (>90%) and low total harmonic distortion (THD, <10%).
- Ingress Protection – Certified IP66 in Driver and LED compartments. IP54 in arm compartment.
- Surge Protection – 10kV (ANSI/IEEE C64.41.2) is standard.
- Photocontrol Options – Includes (1) a standard, NEMA twist-lock receptacle, or (2) a long-life, high-performance integral photocontrol, which provides automated dimming based on ambient light levels.**

Note: Lumen output is rounded.

Model:	Input Watts:	Input Current (A):			Distribution Type:	4000K		5700K	
		120V	240V	277V		Lumens	Efficacy (LPW)	Lumens	Efficacy (LPW)
24 LEDs	27	0.23	0.11	0.10	II	2,900	107	3,000	111
					III	2,900	107	2,900	107
					IV	2,850	106	2,900	107
					V	2,800	104	2,900	107
	54	0.45	0.23	0.19	II	4,900	91	5,200	96
					III	4,900	91	5,000	93
					IV	4,850	90	4,900	91
					V	4,800	89	4,850	90
36 LEDs	40	0.33	0.17	0.14	II	4,300	108	4,500	113
					III	4,300	108	4,400	110
					IV	4,200	105	4,300	108
					V	4,100	103	4,200	105
	79	0.66	0.33	0.29	II	7,500	95	7,600	96
					III	7,200	91	7,400	94
					IV	7,200	91	7,300	92
					V	7,000	89	7,300	92

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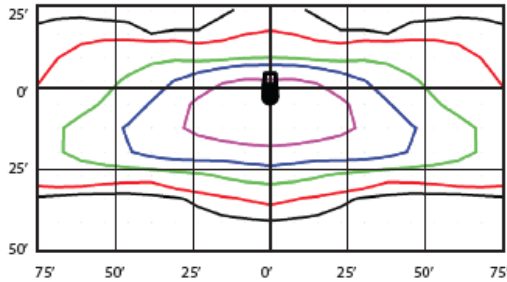
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Type II

Footcandles



(Example: 36 LEDs, 4000K)



	LCS Zone	Lumens	%of Luminaire
Forward Low (FL)	0-30°	1195.7	16.0
Forward Medium (FM)	30-60°	2970.7	39.7
Forward High (FH)	60-80°	1293.4	17.3
Forward Very High (FVH)	80-90°	20.3	0.3
Back Low (BL)	0-30°	443.7	5.9
Back Medium (BM)	30-60°	849.5	11.4
Back High (BH)	60-80°	687.1	9.2
Back Very High (BVH)	80-90°	18.5	0.2
Uplight Low (UL)	90-100°	0.0	0.0
Uplight High (UH)	100-180°	0.0	0.0

Total Lumens: 7478.9, %of Luminaire: 100.0

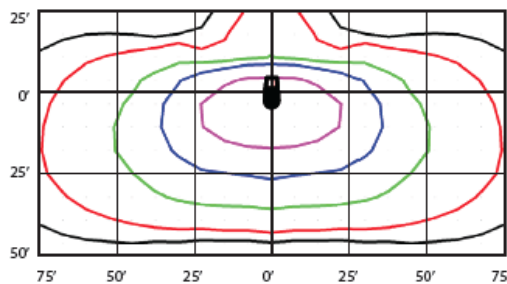
BUG Rating: B2-U0-G2

Type III

Footcandles



(Example: 36 LEDs, 4000K)



	LCS Zone	Lumens	%of Luminaire
Forward Low (FL)	0-30°	1076.2	14.9
Forward Medium (FM)	30-60°	3134.8	43.3
Forward High (FH)	60-80°	1495.0	20.7
Forward Very High (FVH)	80-90°	29.3	0.4
Back Low (BL)	0-30°	344.7	4.8
Back Medium (BM)	30-60°	643.0	8.9
Back High (BH)	60-80°	491.3	6.8
Back Very High (BVH)	80-90°	22.0	0.3
Uplight Low (UL)	90-100°	0.0	0.0
Uplight High (UH)	100-180°	0.0	0.0

Total Lumens: 7236.3, %of Luminaire: 100.0

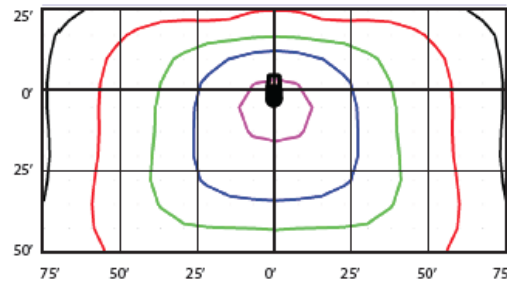
BUG Rating: B1-U0-G1

Type IV

Footcandles



(Example: 36 LEDs, 4000K)



	LCS Zone	Lumens	%of Luminaire
Forward Low (FL)	0-30°	729.0	10.2
Forward Medium (FM)	30-60°	2649.6	37.1
Forward High (FH)	60-80°	1644.4	23.0
Forward Very High (FVH)	80-90°	39.9	0.6
Back Low (BL)	0-30°	518.5	7.3
Back Medium (BM)	30-60°	906.4	12.7
Back High (BH)	60-80°	627.8	8.8
Back Very High (BVH)	80-90°	34.9	0.5
Uplight Low (UL)	90-100°	0.0	0.0
Uplight High (UH)	100-180°	0.0	0.0

Total Lumens: 7150.5, %of Luminaire: 100.0

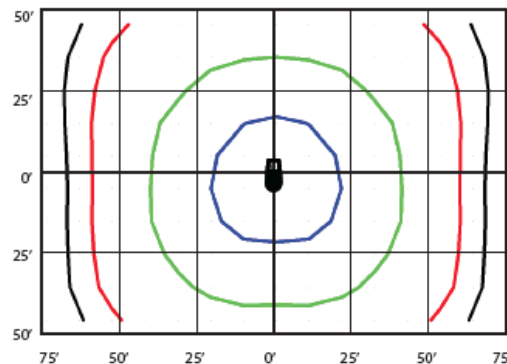
BUG Rating: B2-U0-G2

Type V

Footcandles



(Example: 36 LEDs, 4000K)



	LCS Zone	Lumens	%of Luminaire
Forward Low (FL)	0-30°	404.0	5.7
Forward Medium (FM)	30-60°	1893.3	26.8
Forward High (FH)	60-80°	1297.8	18.4
Forward Very High (FVH)	80-90°	15.7	0.2
Back Low (BL)	0-30°	381.6	5.4
Back Medium (BM)	30-60°	1723.7	24.4
Back High (BH)	60-80°	1332.9	18.9
Back Very High (BVH)	80-90°	17.0	0.2
Uplight Low (UL)	90-100°	0.0	0.0
Uplight High (UH)	100-180°	0.0	0.0

Total Lumens: 7066.0, %of Luminaire: 100.0

BUG Rating: B3-U0-G1

Note:
 1. Isofootcandle plots depict initial foot-candles at grade.
 2. Gridlines represent units of mounting height of 25 feet.

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