

Traveyo Series

Traveyo™ LED Street/Area Luminaire -Small

Rev. Date: V4 09/06/2019

Product Description

The Cree Lighting Traveyo Series changes expectations of the "entry-level" luminaire with solid performance, future-ready engineering and a better than expected lighting experience. The TRVSM LED Street/Area luminaire offers a full range of optics and CCTs to meet the needs of the application while maintaining the familiarity of a traditional cobrahead design. Designed for easy installation, the Traveyo luminaire features tool-less entry, tool-less rotatable 7-pin photocell receptacle, T-level and +/- 5° fixture leveling. Typical replacement: 50-100W HPS.

Applications: Residential roads, parking lots, and general area spaces

Performance Summary

Initial Delivered Lumens: Up to 5,500

Efficacy: Up to 149 LPW

CRI: Minimum 70 CRI

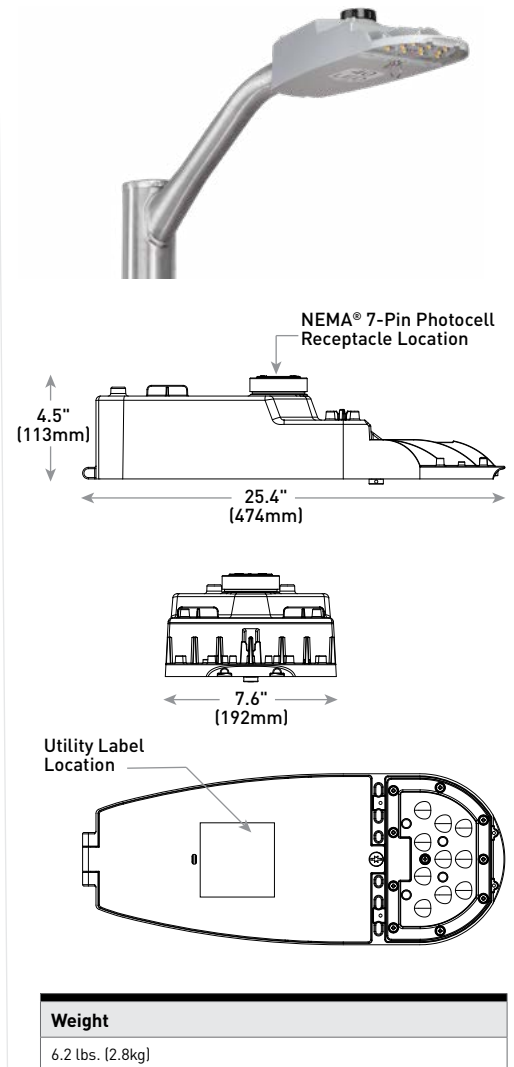
CCT: 2700K, 3000K, 4000K, 5700K

Limited Warranty*: 5 years standard on luminaire and finish, 10 years optional on luminaire and finish

*See <http://creelighting.com/warranty> for warranty terms

Accessories

Field-Installed
Bird Spikes TRV-BRDGRDS
Backlight Control Shield TRV-BLSS - Provides 1 mounting height cutoff - Black painted aluminum construction - Refer to initial delivered lumen tables for lumen output



Ordering Information

Example: TRVSM-A-HT-2ME-2L-27K7-UL-BK-N

TRVSM	A	HT						N	
Product	Version	Mounting	Optic	Lumen Package**	CCT/CRI	Voltage	Color Options	Utility Label/Receptacle	Options
TRVSM Small	A	HT Horizontal Tenon	Asymmetric 2ME* Type II Medium 3ME* Type III Medium 4ME* Type IV Medium Symmetric 5ME Type V Medium	2L 2,000 Lumens 4L 4,000 Lumens 5L 5,000 Lumens	27K7 2700K, 70 CRI 30K7 3000K, 70 CRI 40K7 4000K, 70 CRI 57K7 5700K, 70 CRI	UL Universal 120-277V UH Universal 347-480V	BK Black BZ Bronze GY Grey	N Utility Label and NEMA® 7-Pin Photocell Receptacle - External wattage label per ANSI C136.15 - 7-pin receptacle per ANSI C136.41 - Factory connected 0-10V dim leads - Photocell or shorting cap by others	20KV 20kV/10kA Surge Suppression EXPD Expedited Shipping

* Available with Backlight Shield when ordered with field-installed accessory (see table above)

** Lumen Package codes identify approximate light output only. Actual lumen output levels may vary depending on CCT and optic selection. Refer to Initial Delivered Lumen tables for specific lumen values



CREE **LIGHTING**

US: creelighting.com (800) 236-6800

Canada: creelighting-canada.com (800) 473-1234

Product Specifications

CONSTRUCTION & MATERIALS

- Die cast aluminum housing and door
- Tool-less entry
- Mounts on 1.25" [32mm] IP, 1.66" [42mm] O.D. or 2" [51mm] IP, 2.375" [60mm] O.D. horizontal tenon (minimum 8" [203mm] in length) and is adjustable +/- 5° to allow for fixture leveling (includes two axis T-level to aid in leveling)
- Luminaire secures with two mounting bolts
- Comes standard with Utility Label per ANSI C136.15 and 7-pin NEMA® Photocell Receptacle per ANSI C136.41
- **Weight:** 6.2 lbs. [2.8kg]

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V or 347-480V, 50/60Hz
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral 10kV surge suppression protection standard; 20kV surge suppression protection optional
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush
- Straight-in wiring to 6-14 AWG terminal block
- Designed with 0-10V dimming capabilities. Controls by others
- **10V Source Current:** 0.15mA
- **Operating Temperature Range:** -40°C - +40°C [-40°F - +104°F]

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Certified to ANSI C136.31-2010, 3G bridge and overpass vibration standards
- Meets CALTrans 611 Vibration testing
- ANSI C136.2 10kV (standard) and 20kV (optional) surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions
- Luminaire was subjected to the Mixed Flowing Gas for Electrical Contacts Test according to following specifications: ASTM B 845-97, ANSI NCSL Z540-1 3, ISO 17025:2005. No lumen maintenance or color maintenance degradation was noted during testing
- RoHS compliant. Consult factory for additional details
- Dark Sky Friendly, IDA Approved when ordered with 27K7 or 30K7 CCTs. Please refer to <http://darksky.org/fsa/fsa-products/> for most current information
- DLC Premium qualified. Please refer to <https://www.designlights.org/search/> for most current information
-  **CA RESIDENTS WARNING:** Cancer and Reproductive Harm – www.p65warnings.ca.gov

Electrical Data*									
Lumen Package	System Watts 120-277V	System Watts 347-480V	Utility Label Wattage	Total Current (A)					
				120V	208V	240V	277V	347V	480V
2L	17	20	20	0.15	0.09	0.08	0.07	0.06	0.04
4L	25	28	30	0.21	0.12	0.11	0.10	0.08	0.06
5L	40	42	40	0.33	0.19	0.16	0.14	0.12	0.09

* Electrical data at 25°C [77°F]. Actual wattage may differ by +/- 10% when operating between 120-277V or 347-480V +/- 10%

Traveyo Series Ambient Adjusted Lumen Maintenance ¹					
Ambient	Initial LMF	25K hr Reported ² LMF	50K hr Reported ² LMF	75K hr Estimated ³ LMF	100K hr Estimated ³ LMF
5°C (41°F)	1.01	0.94	0.87	0.80	0.74
10°C (50°F)	1.01	0.94	0.87	0.80	0.74
15°C (59°F)	1.01	0.93	0.86	0.80	0.74
20°C (68°F)	1.00	0.93	0.86	0.79	0.73
25°C (77°F)	1.00	0.93	0.86	0.79	0.73

¹ Lumen maintenance values at 25°C (77°F) are calculated per IES TM-21 based on IES LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors (LATF) have been applied to all lumen maintenance factors. Please refer to the [Temperature Zone Reference Document](#) for outdoor average nighttime ambient conditions.

² In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED.

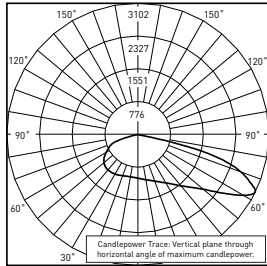
³ Estimated values are calculated and represent time durations that exceed the 6x test duration of the LED.

TRVSM LED Street/Area Luminaire - Small

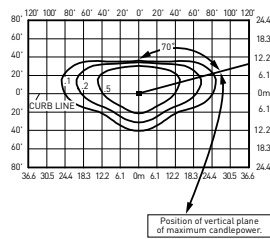
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards. To obtain an IES file specific to your project consult:
<https://creelighting.com/products/outdoor/street-and-roadway/traveyo-series-street>

2ME



CESTL Test Report #: PL13886-001A
TRVSM-A-2ME-5L-40K7-UL**-N**
Initial Delivered Lumens: 5,276

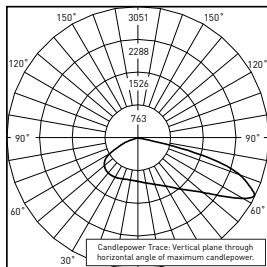


TRVSM-A-2ME-5L-40K7-UL**-N**
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 5,475
Initial FC at grade

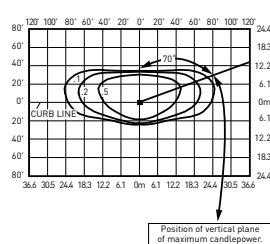
Type II Medium Distribution								
Lumen Package	2700K		3000K		4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
2L	2,360	B1 U0 G1	2,460	B1 U0 G1	2,520	B1 U0 G1	2,530	B1 U0 G1
4L	3,460	B1 U0 G1	3,610	B1 U0 G1	3,700	B1 U0 G1	3,710	B1 U0 G1
5L	5,125	B1 U0 G1	5,350	B1 U0 G1	5,475	B1 U0 G1	5,500	B1 U0 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>



CESTL Test Report #: PL13936-001A
TRVSM-A-2ME-5L-40K7-UL**-N**
w/TRV-BLSS
Initial Delivered Lumens: 4,753



TRVSM-A-2ME-5L-40K7-UL**-N**
w/TRV-BLSS
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 4,930
Initial FC at grade

Type II Medium w/BLS Distribution								
Lumen Package	2700K		3000K		4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
2L	2,120	B1 U0 G1	2,210	B1 U0 G1	2,270	B1 U0 G1	2,280	B1 U0 G1
4L	3,110	B1 U0 G1	3,250	B1 U0 G1	3,330	B1 U0 G1	3,340	B1 U0 G1
5L	4,610	B1 U0 G1	4,820	B1 U0 G1	4,930	B1 U0 G1	4,950	B1 U0 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

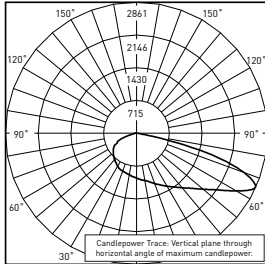
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TRVSM LED Street/Area Luminaire - Small

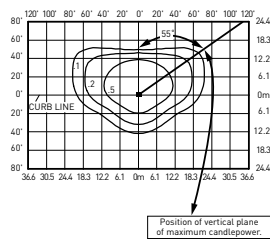
Photometry

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<https://lighting.cree.com/products/outdoor/street-and-roadway/traveyo-series-street>

3ME



CESTL Test Report #: PL13888-001A
TRVSM-A--3ME-5L-40K7-UL-**-N**
Initial Delivered Lumens: 5,408

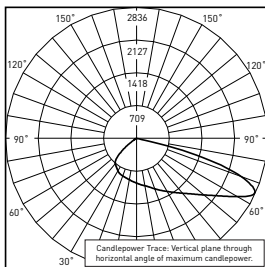


TRVSM-A--3ME-5L-40K7-UL-**-N**
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 5,475
Initial FC at grade

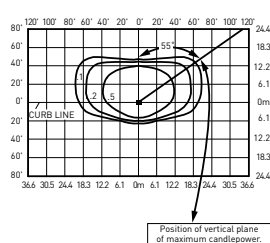
Type III Medium Distribution								
Lumen Package	2700K		3000K		4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
2L	2,360	B1 U0 G1	2,460	B1 U0 G1	2,520	B1 U0 G1	2,530	B1 U0 G1
4L	3,460	B1 U0 G1	3,610	B1 U0 G1	3,700	B1 U0 G1	3,710	B1 U0 G1
5L	5,125	B1 U0 G1	5,350	B1 U0 G1	5,475	B1 U0 G1	5,500	B1 U0 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

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CESTL Test Report #: PL13937-001A
TRVSM-A--3ME-5L-40K7-UL-**-N**
w/TRV-BLSS
Initial Delivered Lumens: 4,834



TRVSM-A--3ME-5L-40K7-UL-**-N**
w/TRV-BLSS
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 4,930
Initial FC at grade

Type III Medium w/BLS Distribution								
Lumen Package	2700K		3000K		4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
2L	2,120	B1 U0 G0	2,210	B1 U0 G0	2,270	B1 U0 G0	2,280	B1 U0 G0
4L	3,110	B1 U0 G1	3,250	B1 U0 G1	3,330	B1 U0 G1	3,340	B1 U0 G1
5L	4,610	B1 U0 G1	4,820	B1 U0 G1	4,930	B1 U0 G1	4,950	B1 U0 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

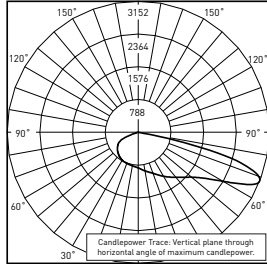
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

TRVSM LED Street/Area Luminaire - Small

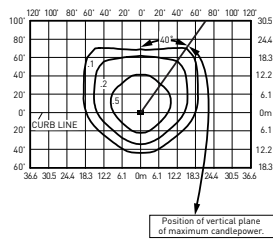
Photometry

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4ME



CESTL Test Report #: PL14012-001A
 TRVSM-A-**-4ME-5L-40K7-UL-**-N
Initial Delivered Lumens: 5,336

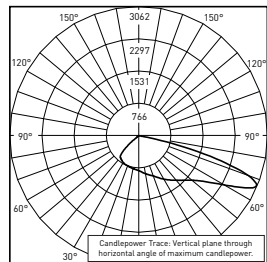


TRVSM-A-**-4ME-5L-40K7-UL-**-N
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 5,475
 Initial FC at grade

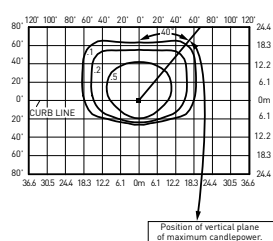
Type IV Medium Distribution								
Lumen Package	2700K		3000K		4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
2L	2,360	B1 U0 G1	2,460	B1 U0 G1	2,520	B1 U0 G1	2,530	B1 U0 G1
4L	3,460	B1 U0 G1	3,610	B1 U0 G1	3,700	B1 U0 G1	3,710	B1 U0 G1
5L	5,125	B1 U0 G1	5,350	B1 U0 G1	5,475	B1 U0 G1	5,500	B1 U0 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

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CESTL Test Report #: PL14011-001A
 TRVSM-A-**-4ME-5L-40K7-UL-**-N
 w/TRV-BLSS
Initial Delivered Lumens: 4,696



TRVSM-A-**-4ME-5L-40K7-UL-**-N
 w/TRV-BLSS
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 4,930
 Initial FC at grade

Type IV Medium w/BLS Distribution								
Lumen Package	2700K		3000K		4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
2L	2,120	B1 U0 G0	2,210	B1 U0 G0	2,270	B1 U0 G0	2,280	B1 U0 G0
4L	3,110	B1 U0 G1	3,250	B1 U0 G1	3,330	B1 U0 G1	3,340	B1 U0 G1
5L	4,610	B1 U0 G1	4,820	B1 U0 G1	4,930	B1 U0 G1	4,950	B1 U0 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

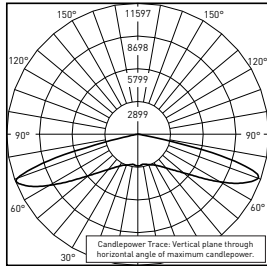
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TRVSM LED Street/Area Luminaire - Small

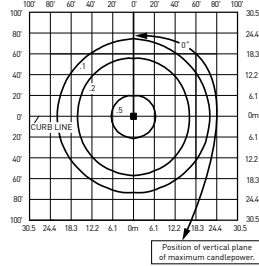
Photometry

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5ME



CESTL Test Report #: PL13780-001A
TRVXL-A-**-5ME-30L-40K7-UL-**-N
Initial Delivered Lumens: 31,860



TRVSM-A-**-5ME-5L-40K7-UL-**-N
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 5,475
Initial FC at grade

Type V Medium Distribution								
Lumen Package	2700K		3000K		4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
2L	2,360	B2 U0 G0	2,460	B2 U0 G0	2,520	B2 U0 G1	2,530	B2 U0 G1
4L	3,460	B2 U0 G1	3,610	B2 U0 G1	3,700	B2 U0 G1	3,710	B2 U0 G1
5L	5,125	B3 U0 G1	5,350	B3 U0 G1	5,475	B3 U0 G1	5,500	B3 U0 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

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Luminaire EPA

Horizontal Tenon Mount – Weight: 6.2 lbs. (2.8kg)				
Single	2 @ 90°	2 @ 180°	3 @ 90°	4 @ 90°
Tenon Configuration: If used with Cree Lighting tenons, please add tenon EPA with luminaire EPA				
PD-1H4; PT-1H	PD-2H4[90]; PT-2H[90]	PD-2H4[180]; PT-2H[180]	PD-3H4[90]; PT-3H[90]	PD-4H4[90]; PT-4H[90]
0.43	0.65	0.86	1.08	1.30

Tenon EPA

Part Number	EPA
PD Series Tenons	0.09
PT Series Tenons	0.10
WM-2L	0.13
XA-TMDA8	0.19

Tenons and Brackets† (must specify color)	
Square Internal Mount Horizontal Tenons (Aluminum) - Mounts to 4" (102mm) square aluminum or steel poles PD-1H4 – Single PD-3H4[90] – 90° Triple PD-2H4[90] – 90° Twin PD-4H4[90] – 90° Quad PD-2H4[180] – 180° Twin	Round External Mount Horizontal Tenons (Aluminum) - Mounts to 2.375"-3" (60-76mm) O.D. round aluminum or steel poles or tenons - Mounts to 3" (76mm), 5" (127mm), or 6" (152mm) square pole with PB-1A* tenon PT-1H – Single PT-3H[90] – 90° Triple PT-2H[90] – 90° Twin PT-4H[90] – 90° Quad PT-2H[180] – 180° Twin
Wall Mount Brackets - Mounts to wall or roof WM-2L – Extended Horizontal	Direct Arm Pole Adaptor Bracket - Mounts to 3-6" (76-152mm) round or square aluminum or steel poles XA-TMDA8

† Refer to the [Bracket and Tenons spec sheet](#) for more details

* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5") or 6 (6") for quad luminaire orientation

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