

Project		Catalog #		Type	
Prepared by		Notes		Date	



Streetworks

XNV

Roadway Luminaire

Typical Applications

Outdoor • Roadways • Parking Lots • Building Areas

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Product Certifications



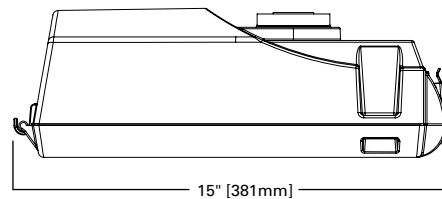
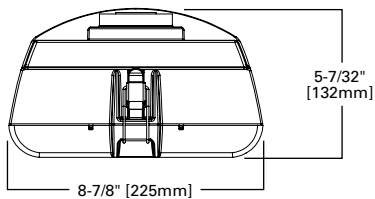
Product Features



Quick Facts

- Replaces 70-100W HPS
- Up to 148 LPW
- Tool-less entry; hinged removable power door for easy maintenance
- 10kV and 20kV surge protection options available
- Suitable for operation in -40° C to 40° C environments

Dimensional Details



Ordering Information

SAMPLE NUMBER: **XNV-SA1C-740-U-T2-AP**

Product Family ¹	Light Engine		Color Temperature	Voltage	Distribution	Mounting	Finish
XNV=XNV	Configuration	Drive Current ³	722=70CRI, 2200K ³ 727=70CRI, 2700K ³ 730=70CRI, 3000K ³ 735=70CRI, 3500K ³ 740=70CRI, 4000K ³ 750=70CRI, 5000K ³ 760=70CRI, 6000K ³ 827=80CRI, 2700K ³ 830=80CRI, 3000K ³ 835=80CRI, 3500K ³ AMB=590nm Amber ³	U=Universal (120-277V) 9=347V 8=480V ²	T2=Type II T2R=Type II Roadway T3R=Type III Roadway T4FT=Type IV Forward Throw T4W=Type IV Wide 5N0=Type V Narrow 5M0=Type V Square Medium 5W0=Type V Square Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control	[Blank]=Standard Mast Arm Slipfitter AL=Site Arm Included ⁶ ALJS15=Adjustable Slipfitter (Factory set at 15° tilt) ALJS25=Adjustable Slipfitter (Factory set at 25° tilt) ALJS45=Adjustable Slipfitter (Factory set at 45° tilt) B18=18" Wood Pole Pipe Arm ⁷ B24=24" Wood Pole Pipe Arm ⁷ B30=30" Wood Pole Pipe Arm ⁷	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White A=Raw Aluminum Unfinished
	SA1=1 square	A=615mA B=800mA C=1050mA (1A) D=1200mA (1.2A) ⁴					
Options (Add as Suffix)					Controls		
K=Level Indicator IP66=IP66 Rated 10K=Series 10kV UL 1449 Surge Protective Device 20K=Series 20kV UL 1449 Surge Protective Device 20KI=Series 20kV UL 1449 Surge Protective Device with light indicator 20MSP=Parallel 20kV MOV Surge Protective Device 10MSP=Parallel 10kV MOV Surge Protection Device PSC=Photocontrol Shorting Cap NPC=NEMA Photocontrol - Multi-Tap LLPC=Longlife Photocontrol Included CC=Coastal Construction finish MUSA=Manufactured in the USA CE=CE Marking					PR=NEMA Twistlock Photocontrol Receptacle ⁵ PR7=NEMA 7-PIN Twistlock Photocontrol Receptacle ⁵ MS/DIM-L08=Programmable Motion Sensor, Maximum 8' Mounting Height ⁸ MS/DIM-L20=Programmable Motion Sensor, Maximum 20' Mounting Height ⁸ MS/DIM-L40=Programmable Motion Sensor, Maximum 40' Mounting Height ⁸ LWR-LW=Enlightened Wireless Sensor, Wide Lens for 8' - 16' Mounting Height ^{9,10} LWR-LN=Enlightened Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height ^{9,10}		
Accessories							
OA/RA1016=NEMA Photocontrol - Multi-Tap OA/RA1027=NEMA Photocontrol - 480V OA/RA1201=NEMA Photocontrol - 347V OA/RA1013=Photocontrol Shorting Cap OA/RA1014=NEMA Photocontrol - 120V OA1223=10kV Surge Module Replacement FSIR-100=Wireless Configuration Tool for Motion Sensor ¹¹ LS/HSS-XX=Light Square House Side Shield ¹² WOLC-7P-10A=WaveLinX Outdoor Control Module (7-PIN) ALJS15-XX=Adjustable Slipfitter Kit (Factory set at 15° tilt) ¹² ALJS25-XX=Adjustable Slipfitter Kit (Factory set at 25° tilt) ¹² ALJS45-XX=Adjustable Slipfitter Kit (Factory set at 45° tilt) ¹²							
NOTES: 1. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information. 2. Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems). 3. Use dedicated IES files. 4. Not available in combination with 347V/480V and sensor options. 5. Not available with any sensor options. 6. 22" upsweep arm. Round pole adapter included. See optional mounting arm drawing. 7. 1-1/4" pipe plus hardware for mounting to wood utility pole. See optional wood pole mounting bracket drawing. 8. Factory installed. Includes integral photocontrol. Use FSIR-100 accessory to adjust factory settings. 9. Enlightened wireless sensors are factory installed only requiring network components in appropriate quantities. See www.cooperlighting.com for Enlightened application information. 10. Enlightened wireless system is not available with PR or PR7 options. Includes integral photocontrol. 11. Hand-held tool that enables adjustment of parameters, including high and low modes, sensitivity, time delay, cutoff, and more. Consult your lighting representative at Cooper Lighting Solutions for more information. Only available with dimming driver. 12. Replace XX with color.							

Product Specifications

Construction

- Heavy-duty cast aluminum housing and door
- Tool-less entry hinged removable door for easy maintenance
- 3G vibration rated
- Light square is IP66 rated

Optics

- Patented, high-efficiency injection molded AccuLED Optics™ system
- Optics are precisely designed to shape the distribution, maximizing efficiency and uniformity while optimizing application spacing

Electrical

- 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only
- Standard with 0-10V dimming driver

- 10kV/10kA and 20kV common- and differential-mode surge protection options available
- Thermal management transfers heat rapidly away from the LED source for optimal efficiency and light output. Ambient operating temperature from -40°C to 40°C.
- Standard three-position tunnel type compression terminal block

Mounting

- Two-bolt/one-bracket slipfitter with cast-in pipe stop and 2.5" leveling steps
- Fixed-in-place bird guard seals around 1-1/4" to 2" (1-5/8" to 2-3/8" O.D.) mounting arms

Finish

- Housing and cast parts finished in 5-stage super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear

- Consult your lighting representative at Cooper Lighting Solutions for a complete selection of standard colors

Shipping Data

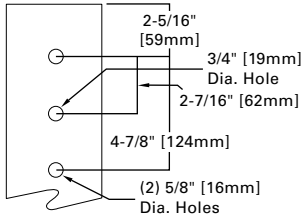
- Approximate Net Weight: 11 lbs. (5.0 kgs.)
- Effective Projected Area (Sq. Ft.): 0.59

Warranty

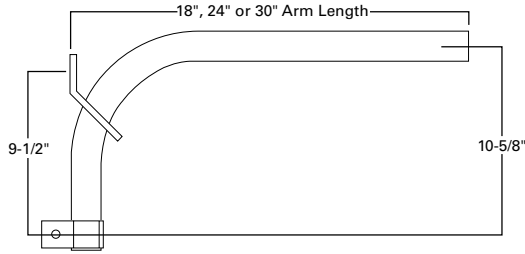
- Five-year warranty

Mounting Details

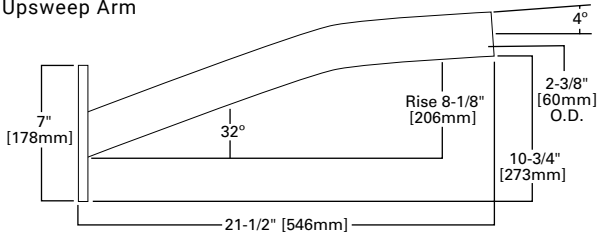
Optional Wood Pole Pipe Arm Type "M"



Arm Drilling 18", 24", 30" Pipe Arm



Optional Mounting Arm Upsweep Arm



Energy and Performance Data

Lumen Maintenance (TM-21)

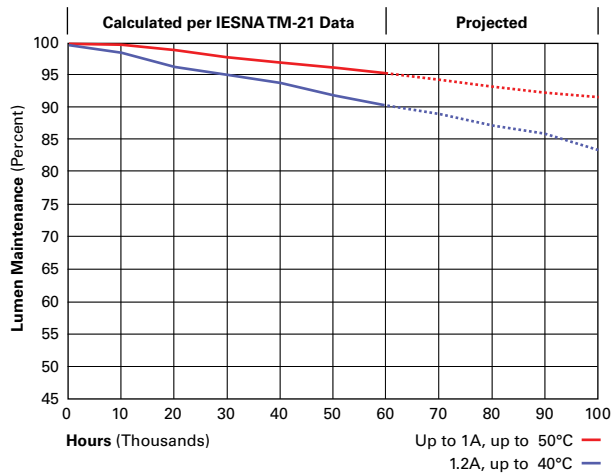
Drive Current	Ambient Temperature	25,000 hours*	50,000 hours*	60,000 hours*	100,000 hours**	Theoretical L70 hours**
Up to 1A	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
	40°C	98.7%	98.3%	98.1%	97.4%	> 1.9M
	50°C	98.2%	97.2%	96.8%	95.2%	> 851,000
1.2A	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
	40°C	98.5%	97.9%	97.7%	96.7%	> 1.3M

*Supported by IES TM-21 standards

**Theoretical values represent estimations commonly used; however, refer to the IES position on LED Product Lifetime Prediction, IES PS-10-18, explaining proper use of IES TM-21 and LM-80.

Lumen Multiplier

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97



Energy and Performance Data

Power and Lumens

Number of LED Squares		SA1A	SA1B	SA1C	SA1D
LED Drive Current		600 mA	800 mA	1.0 A	1.2 A
Luminaire Wattage (Nominal)		34	44	58	66
Input Current @ 120V (A)		0.30	0.39	0.51	0.58
Input Current @ 277V (A)		0.14	0.17	0.23	0.25
Optics					
T2	Lumens	4,636	5,684	7,035	7,717
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens per Watt	136	129	121	117
T2R	Lumens	4,962	6,085	7,531	8,263
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2
	Lumens per Watt	146	138	130	125
T3	Lumens	4,736	5,808	7,189	7,886
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens per Watt	139	132	124	119
T3R	Lumens	4,816	5,907	7,310	8,020
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens per Watt	142	134	126	122
T4FT	Lumens	4,772	5,852	7,243	7,944
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3
	Lumens per Watt	140	133	125	120
T4W	Lumens	4,679	5,738	7,103	7,791
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2
	Lumens per Watt	138	130	122	118
SL2	Lumens	4,643	5,693	7,045	7,728
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G3
	Lumens per Watt	137	129	121	117
SL3	Lumens	4,729	5,800	7,179	7,873
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens per Watt	139	132	124	119
SL4	Lumens	4,518	5,540	6,856	7,520
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3
	Lumens per Watt	133	126	118	114
5NQ	Lumens	4,868	5,968	7,388	8,105
	BUG Rating	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1
	Lumens per Watt	143	136	127	123
5MQ	Lumens	5,043	6,183	7,654	8,396
	BUG Rating	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2
	Lumens per Watt	148	141	132	127
5WQ	Lumens	4,926	6,042	7,476	8,201
	BUG Rating	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2
	Lumens per Watt	145	137	129	124
SLL/SLR	Lumens	4,182	5,129	6,348	6,965
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3
	Lumens per Watt	123	117	109	106
RW	Lumens	4,838	5,935	7,345	8,058
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1
	Lumens per Watt	142	135	127	122
AFL	Lumens	4,852	5,949	7,362	8,077
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1
	Lumens per Watt	143	135	127	122

* Nominal lumen data for 70 CRI. BUG rating for 4000K/5000K. Refer to IES files for 3000K BUG rating.