Project	Catalog #	Туре	
Prepared by	Notes	Date	



Streetworks

XNV

Roadway Luminaire

Typical Applications

Outdoor • Roadways • Parking Lots • Building Areas

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Product Certifications







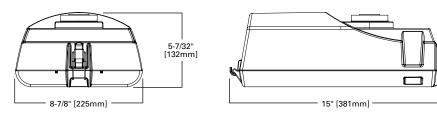
Quick Facts

- 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

Connected Systems

Enlighted

Dimensional Details





Ordering Information

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

Product Family ¹	Ligh	t Engine	Color Temperature	Voltage	Distribution	Mounting	Finish	
XNV=XNV BAA-XNV=XNV Buy American Act Compliant ¹³ TAA-XNV=XNV Trade Agreements Act Compliant ¹³	Configuration SA1=1 square	Drive Current ³ A =615mA B =800mA C =1050mA (1A) D =1200mA (1.2A) ⁴	722=70CRI, 2200K ³ 730=70CRI, 2700K ³ 735=70CRI, 3500K ³ 740=70CRI, 4500K ³ 750=70CRI, 5000K ³ 760=70CRI, 6000K ³ 827=80CRI, 2700K ³ 830=80CRI, 3500K ³ 835=80CRI, 3500K ³ 84MB=590nm Amber ³	U=Universal (120-277V) 9=347V 8=480V ²	T2=Type II T2R=Type II Roadway T3R=Type II Roadway T4FT=Type IV Forward Throw T4FT=Type IV Wide SNQ=Type V Narrow SNQ=Type V Square Medium SNQ=Type V Square Medium SU2=Type II w/Spill Control SL2=Type III w/Spill Control SL4=Type IV w/Spill Control	[Blank]=Standard Mast Arm Slipfitter AI=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	
	O	otions (Add as Suffix)	1		Controls			
20K-Series 20kV UL 14 20KS-Parallel 20kV UL 14 20MSP-Parallel 20kV M 10MSP-Parallel 20kV M PSC=Photocontrol Shor NPC-NEMA Photocontr LLPC=Longlife Photoco CC=COastal Constructio CE=CE Marking	P66=IP66 Rated PR7=NEMA 7-PIN Twistlock Photocontrol Receptacle 5 IOM-Series 10kV UL 1449 Surge Protective Device FADC=Field Adjustable Dimming Controller 15 IOM-Series 20kV UL 1449 Surge Protective Device Device with light indicator MS/DIM-L08=Programmable Motion Sensor, Maximum 8' Mounting Height 8 IOMSP=Parallel 10kV MOV Surge Protective Device MS/DIM-L08=Programmable Motion Sensor, Maximum 40' Mounting Height 8 IOMSP=Parallel 10kV MOV Surge Protection Device MS/DIM-L40=Programmable Motion Sensor, Maximum 40' Mounting Height 8 IOMSP=Parallel 10kV MOV Surge Protection Device MS/DIM-L40=Programmable Motion Sensor, Maximum 40' Mounting Height 8 IOMSP=Parallel 10kV MOV Surge Protection Device MS/DIM-L40=Programmable Motion Sensor, Maximum 40' Mounting Height 8 IOMSP=Parallel 10kV MOV Surge Protection Device MS/DIM-L40=Programmable Motion Sensor, Maximum 40' Mounting Height 8 IOMSP=Parallel 10kV MOV Surge Protection Device LWR-LW=Enlighted Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height 8.10° IPC=NEMA Photocontrol - Multi-Tap LPC=Longlife Photocontrol Included LWR-LW=Enlighted Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height 9.10° IPC=CE Marking SXXXXX=Department of Transportation - Customer specific details 16 Height 9.10°							
				Acce	ssories ¹⁴			
OA/RA1027=NEMA Pho OA/RA101=NEMA Pho OA/RA1013=Photcont OA/RA1013=Photcont OA/RA1014=NEMA Pho OA1223=10kV Surge Mi FSIR-100=Wireless Con LS/HSS-XX=Light Squa WOLC-7P-10A=WaveLit ALJS15-XX=Adjustable ALJS25-XX=Adjustable	OA/RA1016=NEMA Photocontrol - Multi-Tap OA/RA1027=NEMA Photocontrol - 480V OA/RA101=NEMA Photocontrol - 347V OA/RA101=Shottocontrol - 347V OA/RA101=NEMA Photocontrol - 120V OA/RA101=NEMA Photocontrol - 120V OA/RA101=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 ALJS45=XX=Adjustable Slipfitter Kit (Factory set at 25° 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 with any sensor options. 6. 22° upswee arm. Round pole adapter included. See optional mounting arm drawing. 7. 11/4⁴ pipe plus hardware for mounting to wood utility pole. See optional wood pole mounting bracket drawing. 8. Factory installed. Includes integral photocontrol. Use SFIR:100 accessory to adjust factory settings. 9. Enlighted wireless sensors are factory installed only requiring network components in appropriate quantities. See www.cooperlighting.com for Enlighted application information. 10. Enlighted wireless system is not available with PR or PR7 options. Includes integral photocontrol. 11. Hand-held to that enables adjustmenters, 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 the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to <u>DOMESTIC PREFERENCES</u> website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. 13. Control to use with these designated products with small adjustments to meet unique requirements such as packaging, labels, wattage adjustments, etc. 14. Customer specific specifications utilizes standard products with small adjustments to meet unique requirements such as packaging, labels, wattage adjustments, etc. 								

Product Specifications

Construction

- Heavy-duty cast aluminum housing and door
- Tool-less entry hinged removable door for easy
- maintenance3G 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 differentialmode 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

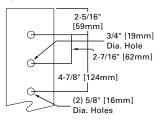
• Five-year warranty



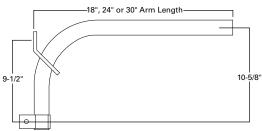
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Mounting Details

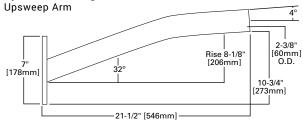
Optional Wood Pole Pipe Arm Type "M"



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



Optional Mounting 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

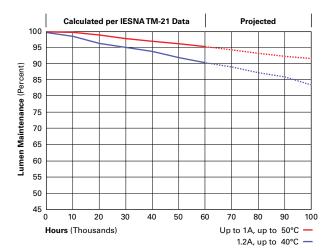
*Supported by IES TM-21 standards **Theoretical values represent estimations commonly used; however, refer to the IES position on LED Product Lifetime Prediction, IES PS-10-18, explaining proper use of IES TM-21 and LM-80.

FADC Settings

FADC Position	Percent of Typical Lumen Output
1	25%
2	46%
3	55%
4	62%
5	72%
6	77%
7	82%
8	85%
9	90%
10	100%

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

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

