Project		Catalog #		Type	
Prepared by		Notes		Date	

Streetworks

CRTK-N Caretaker Nano

Security & Utility Luminaire

Product Certifications & Features

Interactive Menu

Product Specifications

PHYSICAL CHARACTERISTICS

- All aluminum construction, with die cast housing
- Raw aluminum finish; grey powder coat optional
- Tool-less access and removable driver door for easy maintenance
- Corrosion-resistant hardware
- Mounts to pipe arms 1-5/8" to 2-3/8" OD. Optional Wall/Pole Bracket allows direct mount to wood pole or wall.
- Approximate net weight without refractor (open bottom) : 4.25lbs
- EPA (without refractor) = 0.30
  EPA (with CNR refractor) = 0.36

OPTICAL

- 4 color temperature options
  - 70CRI: 2700K, 3000K, 4000K, 5000K
  - T2, T3, and T5 distributions
- Optional Caretaker Nano acrylic refractor
- Compatible with ANSI/NEMA open bottom refractor assembly
- Field installable snap-on shielding (single square or perimeter fence shield)

ELECTRICAL

- 120-277V; 50/60Hz
- Standard 0-10V dimming with integrated 6kV surge protection
- 10kV and 20kV surge protection options in parrallel or series configurations
- -40°C to 40°C ambient temperature operating range; -40°C to 50°C ambient temperature operating range at 20-30W

CONTROLS

- Optional Field Adjustable Dimming Control (FADC) module allows for manual adjustment of lumen output and power usage; factory preset to highest output level. Enables a single SKU to cover multiple field applications
- Fully compatible with CLS Trellix Infrastructure UNB (Ultra Narrow Band) and cellular network lighting controls platforms. Enables wireless collection of luminaire performance and status data and asset management for luminaires installed in the field
- Optional 4-pin Zhaga Book 18 receptacle for integration of onboard sensors with DALI-enabled drivers

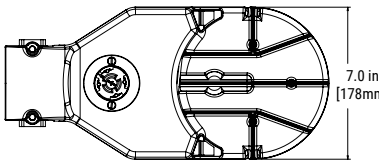
COMPLIANCE

- Meets ANSI C136.25 for IP66 Optical enclosure rating
- Meets ANSI C136.31 for 3G luminaire vibration. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications
- Meets ANSI C136.15 for luminaire field identification label standard
- Meets ANSI C136.22 internal label standard
- Safety listing - Wet Location UL 1598
- U0 option provides a full cutoff with a spun aluminum shield
- DarkSky approved for 3000K CCT and warmer, with mounting options less than 10° of tilt
- DLC and DLC Premium listed- visit designlights.org to confirm listed variations
- BAA domestic preference option meets BAA requirements. See DOMESTIC PREFERENCES website or consult the CLS Domestic Preferences team for more information

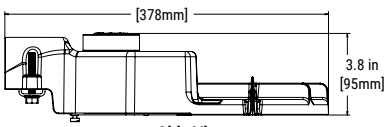
WARRANTY

- Five-year limited warranty. Consult website for details. www.cooperlighting.com/legal

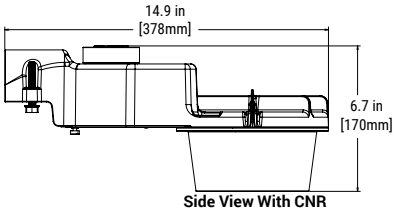
Dimensional Details



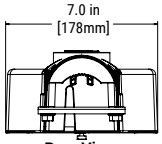
Top View



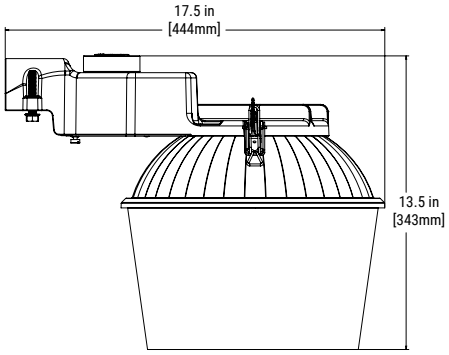
Side View



Side View With CNR



Rear View



Side View With NEMA Refractor

Ordering Information

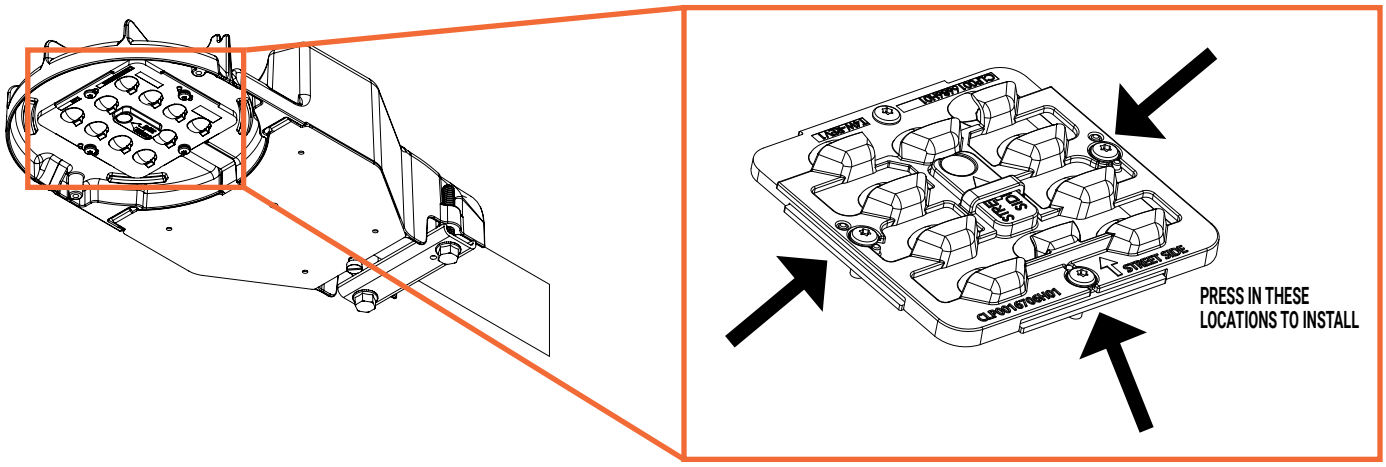
SAMPLE ORDER NUMBER: **CRTK-N-40-740-U-T2R-A**

Product Family	Wattage Bucket	Color Temperature	Voltage	Distribution	Finish
CRTK-N=Caretaker Nano **BAA-CRTK-N**=Caretaker Nano, Buy American Compliant **TAA-CRTK-N**=Caretaker Nano, Trade Agreements Compliant	**20**=20W (nominal) **30**=30W (nominal) **40**=40W (nominal) **50**=50W (nominal)	**727**=70CRI, 2700K **730**=70CRI, 3000K **740**=70CRI, 4000K **750**=70CRI, 5000K	**U**=Universal (120-277V)	**T2R**=Type II Roadway **T3**=Type III **T5R**=Type V Round	**A**=Raw Aluminum **AP**=Grey

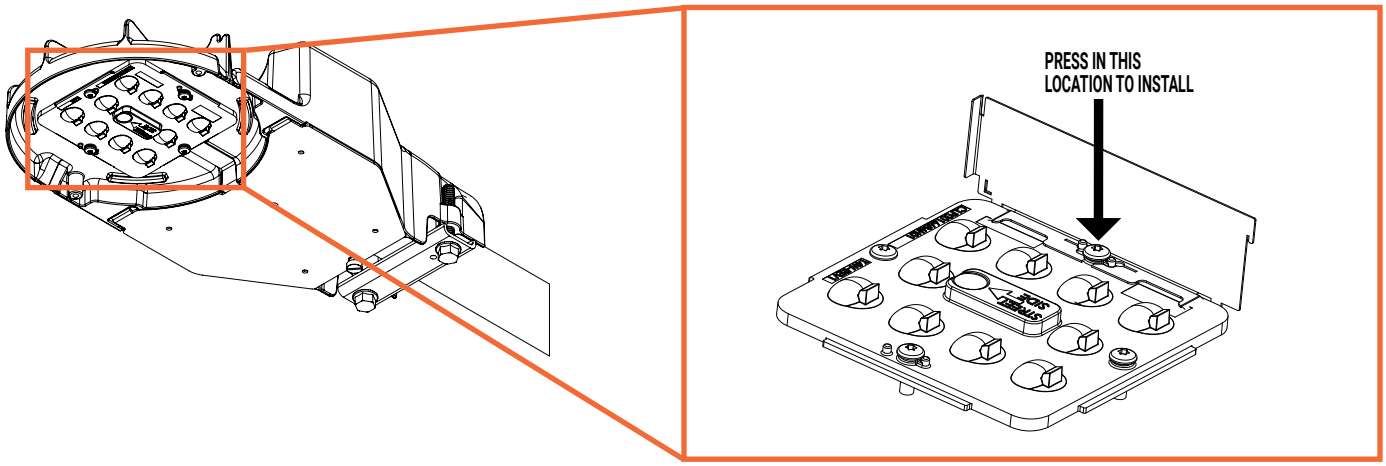
Options (Add as Suffix)	**Controls**	**Accessories** (Order Separately)
CNR=Caretaker Nano Refractor **TH**=Tool-less Door Hardware **10K**=Series 10kV UL 1449 Surge Protection Device **10MSP**=Parallel 10kV MOV Surge Protection Device **20K**=Series 20kVUL 1449 Surge Protection Device[4] **20MSP**=Parallel 20kV MOV Surge Protection Device **V**=(3) 5' #14 external leads **B18**=18" Wood Pole Pipe Arm **B24**=24" Wood Pole Pipe Arm **B30**=30" Wood Pole Pipe Arm **WPBKT**=Wall or Pole Mounting Bracket **HA**=50°C High Ambient Temperature[1] **HSS**=Factory Installed House Side Shield (mounted to light square)[2] **Dxxxxx**=DOT configuration - contact factory quotes team **Uxxxxx**=Utility configuration - contact factory quotes team	**PR7**=NEMA 7-PIN Twistlock Photocontrol Receptacle[4] **PSC**=Photocontrol Shorting Cap included **LLPC**=Long Life Photocontrol included **FADC**=Field Adjustable Dimming Controller[3] **DALI**=DALI Driver[4] **D4**=D4i driver[4] **TRXC**=Trellix Cellular Network Lighting Control Node included[5,6]	**RMARROA5**=ANSI/NEMA Standard Refractor Assembly **CNR-Caretaker Nano**=Caretaker Nano Refractor **LLPC**=Long-life Photocontrol **LLPC-FO**=Long-life Photocontrol (Fail Off) **OA1226**=10kV Surge Module Replacement **OA/RA1013**=Shorting Cap **PBHSS**=House Side Shield (single)[2] **PBPFS**=Perimeter Fence Shield kit (4 pcs) **B18PK**=18" Wood Pole Pipe Arm **B24PK**=24" Wood Pole Pipe Arm **B30PK**=30" Wood Pole Pipe Arm

NOTES:
1. Can be used for 20W and 30W only.
2. Not compatible with T5R optic.
3. Not available with 20K, PR7, DALI, or D4 options.
4. Not available with FADC option.
5. Does not include Trellix software subscription (ordered separately)
6. Not currently available with B18, B24 or B30

House Side Shield Details



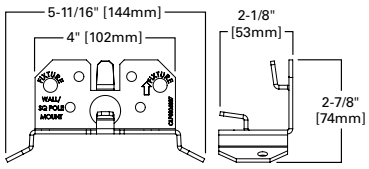
Perimeter Shield Details



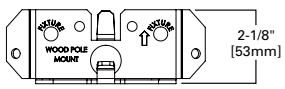
Mounting Details

Optional Wall/Pole Mounting Bracket

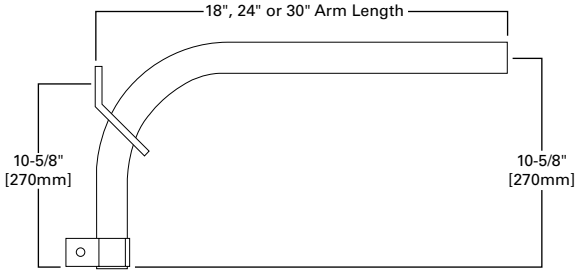
Wall Mount / Square Pole Mount



Pole Mount



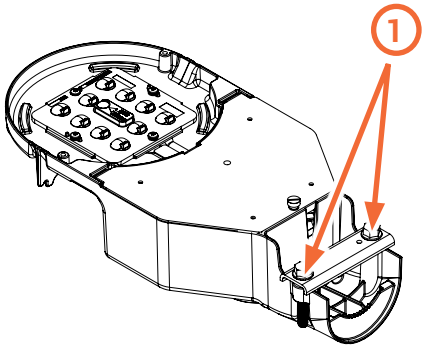
Optional Wood Pole Pipe Arm

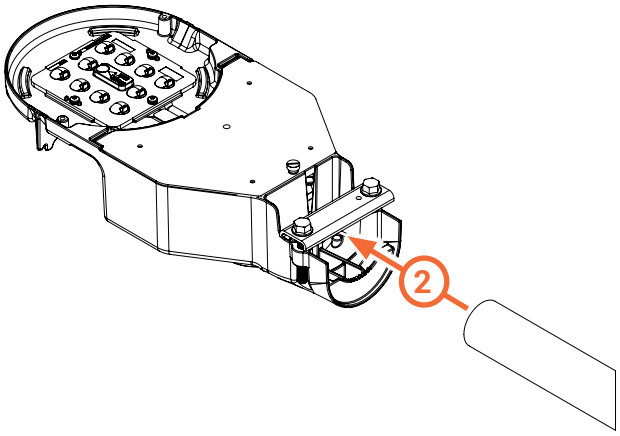


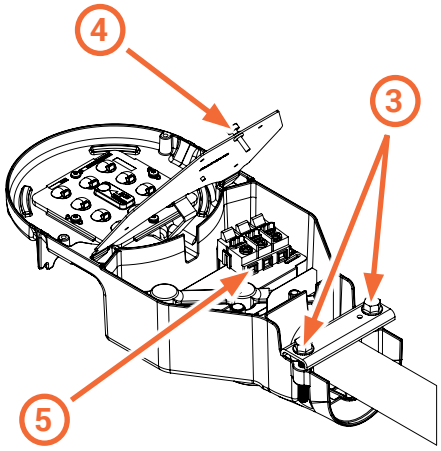
Installation Overview

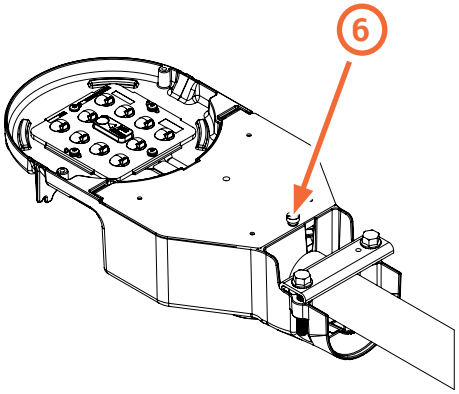
Quick Instruction Steps:

1. Loosen Mounting Bolts for Pole Clamp
2. Insert Pole Arm Into Fixture
3. Tighten Mounting Bolts on Pole Clamp
4. Open Door by Unscrewing the Door Screw
5. Pull Wires into Housing Through Rear Slot and Wire Appropriately
6. Close fixture Door with Door Screw









Energy and Performance Data

Nominal Power (Watts)	20	30	40	50
Actual Power (Watts)	23	32	42	48
Wattage Label	20	30	40	50
Input Current @ 120V (A)	0.19	0.27	0.35	0.40
Input Current @ 277V (A)	0.08	0.12	0.15	0.17

70 CRI, 3000K					
T2R	Lumens	3,423	4,477	5,527	6,060
	Lumens per Watt	148	139	131	127
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1
T2R w CNR	Lumens	3,319	4,342	5,360	5,876
	Lumens per Watt	143	134	127	123
	BUG Rating	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G2
T3	Lumens	3,410	4,460	5,506	6,036
	Lumens per Watt	147	138	131	127
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1
T3 w CNR	Lumens	3,307	4,325	5,340	5,854
	Lumens per Watt	143	134	127	123
	BUG Rating	B1-U3-G1	B2-U3-G2	B2-U3-G2	B2-U3-G2
T5R	Lumens	3,493	4,570	5,641	6,185
	Lumens per Watt	151	141	134	130
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1
T5R w CNR	Lumens	3,362	4,398	5,429	5,952
	Lumens per Watt	145	136	129	125
	BUG Rating	B2-U3-G1	B2-U3-G2	B3-U3-G2	B3-U3-G2

70 CRI, 4000K					
T2R	Lumens	3,594	4,701	5,804	6,363
	Lumens per Watt	155	146	138	133
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G2
T2R w CNR	Lumens	3,485	4,559	5,627	6,170
	Lumens per Watt	150	141	134	129
	BUG Rating	B1-U3-G1	B2-U3-G2	B2-U3-G2	B2-U3-G2
T3	Lumens	3,580	4,683	5,781	6,338
	Lumens per Watt	154	145	137	133
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1
T3 w CNR	Lumens	3,472	4,542	5,607	6,147
	Lumens per Watt	150	141	133	129
	BUG Rating	B1-U3-G1	B2-U3-G2	B2-U3-G2	B2-U3-G2
T5R	Lumens	3,668	4,798	5,923	6,494
	Lumens per Watt	158	149	141	136
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1
T5R w CNR	Lumens	3,530	4,617	5,700	6,250
	Lumens per Watt	152	143	135	131
	BUG Rating	B2-U3-G1	B3-U3-G2	B3-U3-G2	B3-U3-G2

Lumen Maintenance

Ambient Temperature	25,000 hours*	50,000 hours*	60,000 hours*	100,000 hours*	L70*
25°C	98.1%	96.3%	95.6%	92.8%	>102,000
40°C	98.0%	96.1%	95.3%	92.3%	>102,000
50°C	97.8%	95.6%	94.8%	91.4%	>102,000

Note: * Calculations provided in accordance with IES TM-21-11 using the configuration resulting in highest LED temperature.

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

FADC Settings

FADC Position	Percent of Typical Lumen Output
1	25%
2	48%
3	56%
4	65%
5	75%
6	80%
7	85%
8	90%
9	95%
10	100%

Note: +/-5% typical value

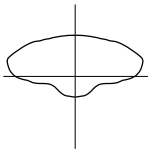
LED Color Multipliers

	CCT			
	2700	3000	4000	5000
CRI	Lumen Multiplier*			
70	0.92	0.95	1.00	1.00

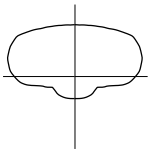
Note: * Estimates, refer to IES files for accuracy.

Optical Distributions

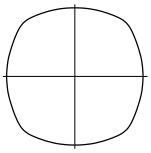
T2R
(Type II Roadway)



T3
(Type III)



T5R
(Type V Roadway)



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