

Project	NOVEC# 39020102	Catalog #	CRTK2-C016-D-U-T5R-7030-SR-TH-4N7-10MSP-B24-10X-U142690	Type	
Prepared by	LEKSON ASSOCIATES 919-782-5426 skye.thompson@lekson.com	Notes	U142690 suffix = NOVEC, 7' wire with pigtail, 10yr warranty	Date	Revised 2/25/2026 8/28/2023



Streetworks

CRTK2 Caretaker LED

Dusk-to-Dawn Area/Roadway Luminaire

Product Features



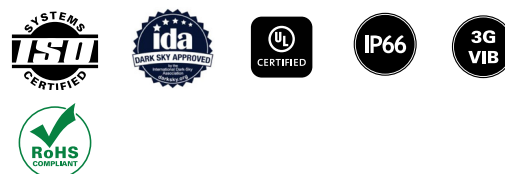
Interactive Menu

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Quick Facts

- Up to 154 lumens per watt
- Three optical distributions (T2, T3, and T5R)
- Seven lumen packages, 3,209 - 12,194 delivered lumens
- Offered in 2700K, 3000K, 4000K and 5000K CCTs
- Optional shields and lenses available

Product Certifications

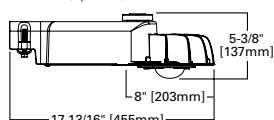


Connected Systems

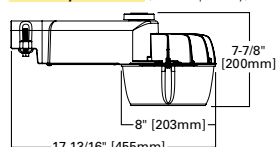
- WaveLinx
- Telensa

Dimensional Details

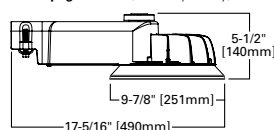
Standard (by it self)



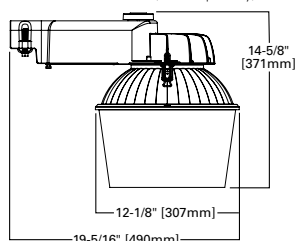
Small acrylic refractor (order separately)



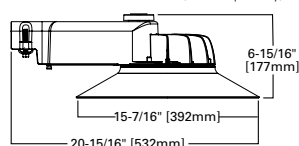
Zero upright shield (order separately)



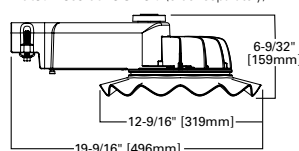
ANSI / NEMA refractor (order separately)



Hillbrook Decorative Shield (order separately)



Fluted Decorative Shield (order separately)



Ordering Information

SAMPLE ORDER NUMBER:

Product Family	Light Engine	Driver	Voltage	Distribution
CRTK2 =Caretaker BAA-CRTK2 =Caretaker, Buy American Act Compliant ¹³ TAA-CRTK2 =Caretaker, Trade Agreements Act Compliant ¹³	C013 =1 LED, Approximately 30% Output C015 =1 LED, Approximately 50% Output C016 =1 LED, Approximately 60% Output C018 =1 LED, Approximately 80% Output C01 =1 LED, Full Output C01H =1 LED, High Lumen Output C01H0 =1 LED, Very High Lumen Output ¹⁶	D =Dimming (0-10V) SLTD =DALI ¹⁶	U =Universal (120-277V)	T2 =Type II T3 =Type III T5R =Type V Round
Options (Add as Suffix)	Controls	Color	Accessories (Order Separately)	
7030 =70 CRI / 3000K 7050 =70 CRI / 5000K 8027 =80 CRI / 2700K SR =Small Acrylic Refractor (Factory Installed) TSR =Tool-less Small Acrylic Refractor (Factory Installed) U0 =Zero Uplight Shield ^{1, 17} TH =Tool-less Door Hardware 4N7 = NEMA 7-PIN Photocontrol Receptacle S =Shorting Cap 10K =10kV UL 1449 Surge Protection Device 10MSP =10kV MOV Surge Protection Device 20K =20kV UL 1449 Surge Protection Device 20MSP =20kV MOV Surge Protection Device CC =Coastal Construction ⁴ V =(3) 5" #14 External Leads ¹⁸ B18 =18" Wood Pole Pipe Arm ²⁰ B24 =24" Wood Pole Pipe Arm ²⁰ B30 =30" Wood Pole Pipe Arm ²⁰ WPBKT Pole Mounting Bracket 5 =120V NEMA Photocontrol Included ⁸ LLPC =Long-life Photocontrol PW =PackWise Packaging ^{19, 20} DXXXXX =Department of Transportation - Customer Specific Details ¹⁴ UXXXXX =Utility - Customer Specific Details ¹⁴	ZW =WaveLinX Module and 4-PIN Receptacle ^{3, 9} ZD =WaveLinX Module with DALI driver and 4-PIN Receptacle ^{3, 9} WOBXX =WaveLinX Occupancy Sensor with Bluetooth, 7-15ft ^{10, 11, 12} WOFXX =WaveLinX Occupancy Sensor with Bluetooth, 15-40ft ^{10, 11, 12} FADC =Field Adjustable Dimming Controller ¹⁵	A =Raw Aluminum AP =Grey Other 10X = Ten Year Warranty	RMARROA5 =ANSI/NEMA Standard Refractor Assembly SR-CARETAKER =Small Acrylic Refractor U0-XX =Zero Uplight Shield ⁵ LLPC =Long-life Photocontrol LLPC-FO =Long-life Photocontrol (Fail Off) HSS-CRTK2 =Field Install House Side Shield ⁶ DS-HSS-CRTK2 =Drop Shield House Side Shield OA1226 =10kV Surge Module Replacement OA/RA1013 =Shorting Cap VGS-F/B =Vertical Glare Shield, Front/Back VGS-SIDE =Vertical Glare Shield, Side FS-XX =Fluted Decorative Shield ⁵ HB-XX =Hillbrook Bell Decorative Shield ⁵ TSR-CARETAKER =Tool-less Small Acrylic Refractor B18PK =18" Wood Pole Pipe Arm B24PK =24" Wood Pole Pipe Arm B30PK =30" Wood Pole Pipe Arm WOBXX =WaveLinX Occupancy Sensor with Bluetooth, 7-15ft ^{10, 11, 12} WOFXX =WaveLinX Occupancy Sensor with Bluetooth, 15-40ft ^{10, 11, 12}	
NOTES: 1. U0 not offered with SR or TSR option. 3. ZD, or ZW option in conjunction with C01, C01H, or C01H0 light engine only suitable for 30C ambient. All other light engines only suitable for 35C ambient. 4. Anti-corrosion treatment on external components, external screws/mounting bolts, and standard pipe clamp. 5. Replace XX with color. 6. Not for use on T5R optical distribution. 8. 120V input voltage only required. 9. Not available with 10MSP or 20MSP surge options. 10. Requires ZW or ZD option. 11. Not available standard with 4N7 7-pin receptacle option. ETO required. 12. Replace XX with sensor color desired. (WH, BZ, or BK). 13. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. 14. Customer specific specifications utilizes standard products with small adjustments to meet unique requirements such as packaging, labels, wattage adjustments, etc. 15. Cannot be used with 4N7 or other motion response control options including ZW, ZD, MSPx, or SLTD DALI driver. Control leads are used with FADC only when selected. 16. C01H0 not available with DALI driver. 17. Required to be IDA Certified when used with 3000K and warmer CCTs. 18. When leads are specified, the terminal block is replaced with serviceable connectors. 19. 9% package Dunnage reduction by weight. Only available in order increments of 20, quantity per carton. 20. B18, B24, and B30 are not available with PackWise packaging.				

Specifications Features

Construction

The product features a robust die-cast aluminum housing that ensures durability and longevity. The stamped aluminum door can be easily accessed through a single captive screw, which offers tool-less access for hassle-free maintenance and installation. Additionally, the hardware used is corrosion-resistant, making it suitable for use in harsh environments.

Optical

Precision molded optics are specifically designed to optimize the distribution of light, increase efficiency, and provide maximum coverage in T2, T3, and T5R distributions. These optics are available in seven different lumen packages at 4000K CCT, with a standard minimum of 70CRI. Additionally, there are optional packages available at 3000K / 70CRI, 5000K / 70CRI, and 2700K / 80CRI. The optics are fully compatible with both SR Acrylic refractor and ANSI/NEMA Standard refractor assembly. To control spill light, users can install an optional house side shield

over the T2 or T3 optic, or use a drop shield house side shield in conjunction with the T5R or SR options. For luminaires that require zero uplight compliance, the U0 option provides a full cutoff with a spun aluminum shield.

Electrical

The luminaire comes with a standard universal voltage LED driver with 0-10V control having an integrated 6kV surge protection. A DALI compatible driver option is also available. For even greater protection against electrical surges, parallel or series protection levels of 10kV or 20kV options are offered. The luminaire also includes a three-position tunnel-type compression terminal block when the leads option is not selected. A NEMA 3-pin receptacle comes standard. The fixture's design ensures efficient heat dissipation, which helps to maximize its efficiency, light output, and lifespan. The calculated lumen maintenance is over 85% at 60,000 hours.

Mounting

This luminaire has been specifically designed to fit pipe-arms with an outer diameter ranging from 1-5/8' to 2-3/8'. However, if you need to mount the luminaire to a wood pole, square pole, or wall without a pipe-arm, a bracket is also available.

Finish

The luminaire comes in unfinished raw aluminum as standard. However, an optional five-stage super TGIC polyester powder coat paint is available, which provides superior protection against fade and wear with a 2.5-mil nominal thickness. For those who require even greater protection in coastal construction environments, a Coastal Construction option is also available.

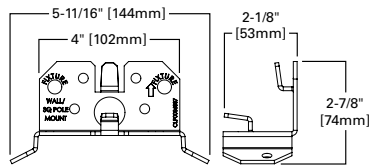
Warranty

Standard five-year warranty.

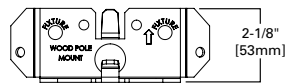
Mounting Details

Optional Wall/Pole Mounting Bracket

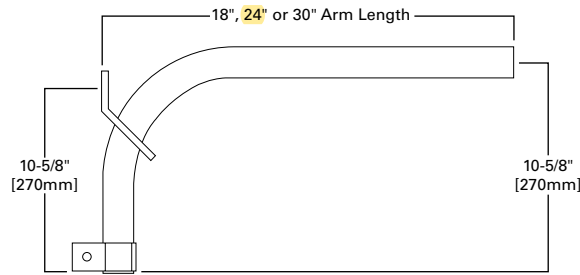
Wall Mount / Square Pole Mount



Pole Mount



Optional Wood Pole Pipe Arm



Energy and Performance Data

Lumen Maintenance

Light Engine	Ambient Temperature	25,000 hours*	50,000 hours*	60,000 hours*	100,000 hours*	L70*
C013	25°C	96.01%	92.36%	90.94%	85.47%	> 110,000
	40°C	95.78%	91.89%	90.38%	84.58%	> 110,000
C015	25°C	96.01%	92.36%	90.94%	85.47%	> 110,000
	40°C	95.78%	91.89%	90.38%	84.58%	> 110,000
C016	25°C	96.01%	92.36%	90.94%	85.47%	> 110,000
	40°C	95.78%	91.89%	90.38%	84.58%	> 110,000
C018	25°C	96.01%	92.36%	90.94%	85.47%	> 110,000
	40°C	95.78%	91.89%	90.38%	84.58%	> 110,000
C01	25°C	96.01%	92.36%	90.94%	85.47%	> 110,000
	40°C	95.78%	91.89%	90.38%	84.58%	> 110,000
C01H	25°C	96.01%	92.36%	90.94%	85.47%	> 110,000
	40°C	95.78%	91.89%	90.38%	84.58%	> 110,000
C01HO	25°C	93.12%	87.65%	85.55%	77.66%	> 66,000
	40°C	92.34%	86.19%	83.84%	75.09%	> 66,000

Note: *Calculations provided in accordance with IES TM-21-11 using the configuration resulting in highest LED temperature. Previous versions of IES TM-21 where theoretical calculations were used are no longer recommended as a proxy of lumen depreciation.

Lumen Multiplier

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



View CRTK2 Caretaker
LED IES files

FADC Settings

FADC Postion	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

	LED					
	CCT					
	2200	2700	3000	3500	4000	5000
CRI	Lumen Multiplier					
70	--	--	0.971	--	1.00	1.012
80	--	0.878	--	--	--	--

Energy and Performance Data

Nominal Power Lumens (3000K CCT, 70 CRI) UNV

Light Engine		C013	C015	C016	C018	C01	C01H	C01HO
Power (Watts)		20	30	42	50	61	70	79
Label		20	30	40	50	60	70	80
Optics								
T2	Lumens	2,924	4,286	5,726	6,679	8,431	9,447	11,234
	BUG Rating	B1-U2-G1	B1-U3-G1	B1-U3-G2	B2-U3-G2	B2-U3-G2	B2-U3-G2	B2-U3-G3
	Lumens per Watt	143	143	138	133	138	135	142
T2-U0	Lumens	2,823	4,138	5,528	6,449	8,140	9,121	10,846
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2
	Lumens per Watt	138	138	133	128	133	130	137
T3	Lumens	2,964	4,345	5,803	6,770	8,546	9,576	11,387
	BUG Rating	B1-U2-G1	B1-U3-G1	B1-U3-G2	B1-U3-G2	B2-U3-G2	B2-U3-G2	B2-U3-G2
	Lumens per Watt	145	145	139	134	140	136	144
T3-U0	Lumens	2,856	4,186	5,592	6,524	8,235	9,227	10,973
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2
	Lumens per Watt	140	140	134	129	135	131	139
T5R	Lumens	3,117	4,568	6,102	7,119	8,985	10,068	11,973
	BUG Rating	B2-U2-G1	B3-U2-G1	B3-U3-G1	B3-U3-G2	B3-U3-G2	B4-U3-G2	B4-U3-G2
	Lumens per Watt	153	153	147	141	147	143	152
T5R-U0	Lumens	3,076	4,508	6,022	7,025	8,868	9,936	11,816
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2
	Lumens per Watt	151	151	145	139	145	142	150
T5R-SR	Lumens	3,071	4,501	6,013	7,014	8,854	9,921	11,798
	BUG Rating	B2-U3-G1	B3-U3-G2	B3-U3-G2	B3-U3-G2	B3-U3-G3	B4-U3-G3	B4-U3-G3
	Lumens per Watt	151	151	145	139	145	141	149

Nominal Power Lumens (4000K CCT, 70 CRI) UNV

Light Engine		C013	C015	C016	C018	C01	C01H	C01HO
Power (Watts)		20	30	42	50	61	70	79
Label		20	30	40	50	60	70	80
Optics								
T2	Lumens	3,011	4,413	5,895	6,877	8,680	9,726	11,442
	BUG Rating	B1-U2-G1	B1-U3-G1	B1-U3-G2	B1-U3-G2	B2-U3-G2	B2-U3-G2	B2-U3-G3
	Lumens per Watt	148	148	142	136	142	139	145
T2-U0	Lumens	2,907	4,261	5,691	6,679	8,380	9,390	11,047
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U3-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2
	Lumens per Watt	143	143	137	133	137	134	140
T3	Lumens	3,052	4,473	5,975	6,971	8,798	9,858	11,598
	BUG Rating	B1-U2-G1	B1-U3-G1	B1-U3-G2	B1-U3-G2	B2-U3-G2	B2-U3-G2	B2-U3-G2
	Lumens per Watt	150	150	144	138	144	140	147
T3-U0	Lumens	2,941	4,310	5,758	6,717	8,478	9,500	11,176
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2
	Lumens per Watt	144	144	138	133	139	135	141
T5R	Lumens	3,209	4,703	6,283	7,329	9,251	10,366	12,194
	BUG Rating	B2-U2-G1	B3-U2-G1	B3-U3-G1	B3-U3-G2	B3-U3-G2	B4-U3-G2	B4-U3-G2
	Lumens per Watt	157	157	151	145	152	148	154
T5R-U0	Lumens	3,167	4,642	6,200	7,233	9,130	10,230	12,035
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2
	Lumens per Watt	155	155	149	144	150	146	152
T5R-SR	Lumens	3,162	4,634	6,191	7,222	9,115	10,214	12,016
	BUG Rating	B2-U3-G1	B3-U3-G2	B3-U3-G2	B3-U3-G2	B3-U3-G3	B4-U3-G3	B4-U3-G3
	Lumens per Watt	155	155	149	143	149	145	152

Nominal Power Lumens (5000K CCT, 70 CRI) UNV

Light Engine		C013	C015	C016	C018	C01	C01H	C01HO
Power (Watts)		20	30	42	50	61	70	79
Label		20	30	40	50	60	70	80
Optics								
T2	Lumens	3,046	4,464	5,964	6,957	8,782	9,840	11,651
	BUG Rating	B1-U2-G1	B1-U3-G1	B1-U3-G2	B2-U3-G2	B2-U3-G2	B2-U3-G2	B2-U3-G3
	Lumens per Watt	149	149	143	138	144	140	147
T2-U0	Lumens	2,941	4,310	5,758	6,717	8,478	9,500	11,248
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2
	Lumens per Watt	144	144	138	133	139	135	142
T3	Lumens	3,088	4,525	6,045	7,052	8,901	9,974	11,809
	BUG Rating	B1-U2-G1	B1-U3-G1	B1-U3-G2	B1-U3-G2	B2-U3-G2	B2-U3-G2	B2-U3-G2
	Lumens per Watt	151	151	145	140	146	142	149
T3-U0	Lumens	2,975	4,361	5,825	6,795	8,578	9,611	11,380
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2
	Lumens per Watt	146	146	140	135	141	137	144
T5R	Lumens	3,246	4,758	6,356	7,414	9,359	10,487	12,417
	BUG Rating	B2-U2-G1	B3-U2-G1	B3-U3-G1	B3-U3-G2	B3-U3-G2	B4-U3-G2	B4-U3-G2
	Lumens per Watt	159	159	153	147	153	149	157
T5R-U0	Lumens	3,204	4,696	6,273	7,317	9,237	10,350	12,254
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2
	Lumens per Watt	157	157	151	145	151	147	155
T5R-SR	Lumens	3,199	4,688	6,263	7,306	9,222	10,334	12,235
	BUG Rating	B2-U3-G1	B3-U3-G2	B3-U3-G2	B3-U3-G2	B3-U3-G3	B4-U3-G3	B4-U3-G3
	Lumens per Watt	157	157	151	145	151	147	155

Nominal Power Lumens (2700K CCT, 80 CRI) UNV

Light Engine		C013	C015	C016	C018	C01	C01H	C01HO
Power (Watts)		20	30	42	50	61	70	79
Label		20	30	40	50	60	70	80
Optics								
T2	Lumens	2,644	3,875	5,177	6,039	7,623	8,542	9,899
	BUG Rating	B1-U2-G1	B1-U2-G1	B1-U3-G2	B1-U3-G2	B2-U3-G2	B2-U3-G2	B2-U3-G2
	Lumens per Watt	130	130	124	120	125	122	125
T2-U0	Lumens	2,553	3,742	4,998	5,831	7,360	8,247	9,557
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2
	Lumens per Watt	125	125	120	116	121	117	121
T3	Lumens	2,680	3,928	5,247	6,122	7,727	8,658	10,034
	BUG Rating	B1-U2-G1	B1-U2-G1	B1-U3-G1	B1-U3-G2	B1-U3-G2	B2-U3-G2	B2-U3-G2
	Lumens per Watt	131	131	126	121	127	123	127
T3-U0	Lumens	2,583	3,785	5,057	5,899	7,446	8,343	9,669
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2
	Lumens per Watt	127	127	122	117	122	119	122
T5R	Lumens	2,818	4,130	5,517	6,437	8,124	9,103	10,550
	BUG Rating	B2-U2-G1	B3-U2-G1	B3-U3-G1	B3-U3-G1	B3-U3-G2	B3-U3-G2	B4-U3-G2
	Lumens per Watt	138	138	133	128	133	130	134
T5R-U0	Lumens	2,781	4,076	5,445	6,352	8,018	8,984	10,412
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G2
	Lumens per Watt	136	136	131	126	131	128	132
T5R-SR	Lumens	2,777	4,070	5,437	6,342	8,005	8,970	10,395
	BUG Rating	B2-U3-G1	B3-U3-G2	B3-U3-G2	B3-U3-G2	B3-U3-G2	B3-U3-G3	B4-U3-G3
	Lumens per Watt	136	136	131	126	131	128	132

Control Options

0-10V (D)

This fixture is offered standard with 0-10V dimming driver(s). The dimming option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

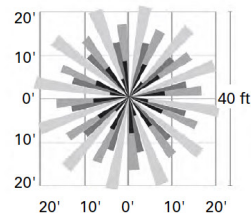
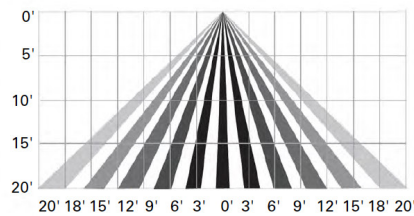
Photocontrol (4N7)

Photocontrol receptacles provide a flexible solution to enable dusk-to-dawn lighting by sensing light levels. Advanced control systems compatible with NEMA 7-PIN standards can be utilized with the 4N7 receptacle.

WaveLinx Wireless Control and Monitoring System

Operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. WaveLinx and WaveLinx Lite sensors utilize the Zhaga Book 18 compliant 4-PIN receptacle (ZD or ZW). ZW option provides 4-PIN receptacle and control module to enable future installation of WaveLinx sensors. ZD option provides 4-PIN receptacle and sensor-ready (SR) driver to enable future installation of WaveLinx sensors, power monitoring, and advanced functionality. WaveLinx Lite (WOF and WOB) outdoor wireless sensors provide PIR occupancy and photocell for closed loop daylight harvesting, and are factory installed. Sensors are factory preset to dim down to 50% after 15 minutes of no motion detected. Two lens options are available for mounting heights of 7' to 40'. Use the WaveLinx Lite mobile application for set-up and configuration. WAC not required.

For mounting heights up to 15' (WOB)



For mounting heights up to 40' (WOF)

