



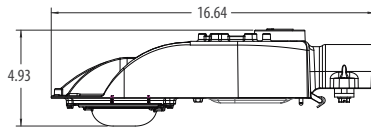
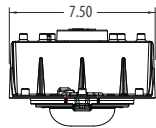
# WATCH LIGHT Series

## WLT LED Security Lighting

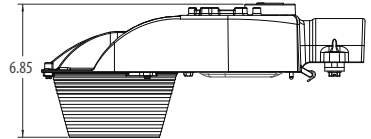
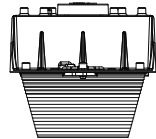
### PRODUCT OVERVIEW



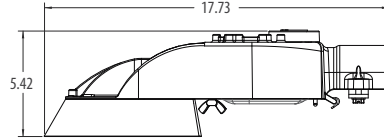
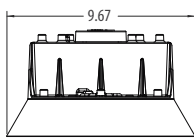
### DIMENSIONS



**R3/R5 Optic**



**D3/D5 Optic**



**N3/N5 Optic**

Effective Projected Area (EPA). The EPA for the WLT is 0.35 sq. ft, Weight= 7.5 lbs. (3.4 kg)

### STANDARDS

Rated for -40°C to 40°C ambient

CSA Certified to U.S. and Canadian standards

Complies with ANSI: C136.2, C136.10, C136.31, C136.15, C136.37

DesignLights Consortium® (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.

### Features:

#### OPTICAL

Durable prismatic glass optics

Wide variety of lumen packages in type 3 & 5 distributions

Optional acrylic refactor provides additional vertical foot-candles

3000K & 4000K CCT, 70 CRI minimum

#### ELECTRICAL

120 – 277 volt

Ships standard with 0-10V dimmable driver, or optional DALI D4i driver

Robust Surge Protection: Three different surge protection options provide a minimum of 6kV/3kA, 10kV/5kA or 20kV/10kA protection, per ANSI C136.2.

Expected Life: LED light engines are rated >100,000 hours at 25°C, L70. Electronic driver has an expected life of 100,000 hours at a 25°C ambient.

Lower Energy: Saves an expected of 40-60% over comparable HID luminaires.

#### MECHANICAL

All aluminum housing & door

2-bolt mounting with +/- 5° adjustment

Mast arm mount is adjustable for arms from 1-1/4" to 2" (1-5/8" to 2-3/8" O.D.) diameter.

Provides a 3G vibration rating per ANSI C136.31

Optional stainless steel thumbscrew for tool-less entry

ANSI standard wattage label on all units

Rigorous pre-treatment and paint process (GY option) yields a finish that achieves a scribe creepage rating of 10 (per ASTM D1654) after 5000 hours exposure to salt fog chamber (operated per ASTM B117).

#### CONTROLS

The Acuity designed ANSI 7-pin receptacle is available, which supports traditional locking style photocontrols such as the Extreme long-life solid-state locking style photocontrol - PCLL (20 year rated life).

The DC Connect option is a factory embedded low voltage dusk to dawn photocontrol that increases longevity vs. line voltage controls and also eliminates the need to separately inventory controls.

The Local Connect option provides a simple means to collect luminaire attribute data, asset location information and execute point-to-point on/off/dim commands via secure Bluetooth link using smartphone platforms.

Cell Connect is an embedded network photocontrol with cellular communication. It provides digital switching, precise dimming, and revenue grade metrology. Cell Connect leverage D4i drivers to communicate real-time data to UbiVu, a cloud-based asset management system.

# WATCH LIGHT Series

## WLT LED Security Lighting

### ORDERING INFORMATION

|                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                              |                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| <div>Series</div> <div><b>WLT</b> Watch Light</div>                                                                                                                                                                                                                        | <div>Lumen Package</div> <div><b>A</b> 34W, 5,000 Nominal Lumens<br/><b>B</b> 43W, 6,300 Nominal Lumens<br/><b>C</b> 51W, 7,400 Nominal Lumens<br/><b>D</b> 62W, 9,100 Nominal Lumens<br/><b>E</b> 72W, 10,200 Nominal Lumens<br/><b>F</b> 79W, 11,100 Nominal Lumens</div> | <div>Voltage</div> <div><b>MVOLT</b> Multiple Voltage<br/>120V-277VAC</div>                                                                                                                                                                                                                                                                                                        | <div>Driver</div> <div><b>ZT</b> 0-10V dimmable<br/><b>D4I</b> DALI D4i driver for 120-277VAC</div>                                                                                                                                                                                                                                                                                                   | <div>Optics</div> <div><b>R3</b> Roadway Type 3<br/><b>R5</b> Roadway Type 5<br/><b>N3</b> Type 3 - zero uplight<br/><b>N5</b> Type 5 - zero uplight<br/><b>D3</b> Type 3 with Drop Refractor<br/><b>D5</b> Type 5 with Drop Refractor</div> | <div>Color Temperature</div> <div><b>3K</b> 3000K Color Temperature, 70CRI<br/><b>4K</b> 4000K Color Temperature, 70CRI</div>                |
| <div>Paint</div> <div><b>UA</b> Unfinished Aluminum<br/><b>GY</b> Gray Super Durable paint</div>                                                                                                                                                                           | <div>Surge protection</div> <div><b>6K<sup>2</sup></b> 6kV/3kA, no supplemental surge device<br/><b>MP</b> 10kV/5kA, Fail ON device<br/><b>20</b> 20kV/10kA Fail OFF device</div>                                                                                           | <div>Miscellaneous</div> <div><b>TB<sup>2</sup></b> Terminal block<br/><b>IG</b> Insect Guard<br/><b>LTS</b> Light trespass shield<br/><b>TL</b> Tool-less door entry<br/><b>CC<sup>1</sup></b> UL/CSA Certified<br/><b>PW#</b> Pre-wire, # indicates wire length in one foot increments from 1' thru 10' (e.g. PW4 = 4' of pre-wire)<br/><b>JP</b> Job Pack (30 per pallet)</div> | <div>Receptacle Top</div> <div><b>P3</b> 3 Pin NEMA Photocontrol Receptacle<br/><b>P7</b> 7 Pin Dimming Capable Photocontrol Receptacle<br/><b>ZRT</b> Zhaga Receptacle top<br/><b>NTR</b> No Top Receptacle</div>                                                                                                                                                                                    | <div>Receptacle Bottom</div> <div><b>NBR</b> No Receptacle Bottom<br/><b>ZRB</b> Zhaga Receptacle Bottom</div>                                                                                                                               | <div>Photo Control</div> <div><b>SH</b> Shorting Cap<br/><b>PCLL</b> DTL DLL Photocontrol<br/><b>DZP</b> DTL DZP DC Zhaga Photocontrol</div> |
| <div>Embedded Controls</div> <div><b>ALCB</b> Local Connect Basic (DTL DELC)<br/><b>ALCF</b> Local Connect Full (DTL DELC)<br/><b>ALCC</b> Local Connect Custom (DTL DELC) Requires RFD<br/><b>DDC</b> DC Connect Photocontrol (DTL DEP)<br/><b>UBC</b> Cell Connect</div> | <div>Install Packages</div> <div><b>PKGL24</b> DTL DLL photocontrol + 24" x 1-1/4" arm<br/><b>PKGZ24</b> DTL DZP photocontrol + 24" x 1-1/4" arm<br/><br/>All packages ship with 5' prewire and mounting hardware</div>                                                     | <div>Install Package with Embedded Controls</div> <div><b>PKGE24<sup>4</sup></b> Embedded Control + 24" x 1-1/4" arm<br/><br/>All packages ship with 5' prewire and mounting hardware</div>                                                                                                                                                                                        | <div>Accessories (Shipped Separately)</div> <div><b>WLTLSU</b> Light Trespass Shield for R3 &amp; R5 Optics<br/><b>WLTLSRN</b> Light Trespass Shield for N3 &amp; N5 Optics<br/><b>WLTLS D</b> Light Trespass Shield for D3 &amp; D5 Optics<br/><br/><b>WLTSS</b> Street side Shield for R3, R5, N3, &amp; N5 Optics<br/><br/><b>WLTNU</b> Zero-uplight Shield<br/><b>WLTREF</b> Drop Refractor</div> | <div>Controls Training</div> <div><b>LCTRAIN</b> Local Connect Remote Training; 1 day training provided by Acuity Services Team</div>                                                                                                        |                                                                                                                                              |

#### NOTES:

- When selected, the CC (UL/CSA Certified) option includes a 3 position terminal block in luminaire. Selection of TB option is not required in that case.
- TB (Terminal Block) option is not required if CC (UL/CSA Certified) option is also selected.
- Not available with UBC option.
- PKGE24 must have Embedded Control nomenclature specified in catalog number.



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### OPTIONS MATRIX

| WLT               |      | Driver |     | Receptacle Top |    |    |     | Receptacle Bottom |     | Photocontrols |      |     | Embedded Controls |      |      |      |     |
|-------------------|------|--------|-----|----------------|----|----|-----|-------------------|-----|---------------|------|-----|-------------------|------|------|------|-----|
|                   |      | ZT     | D4I | NTR            | P3 | P7 | ZRT | NBR               | ZRB | SH            | PCLL | DZP | DDC               | ALCB | ALCF | ALCC | UBC |
| Driver            | ZT   |        |     | Y              | Y  | Y  | N   | Y                 | N   | Y             | Y    | N   | N                 | N    | N    | N    | N   |
|                   | D4I  |        |     | Y              | N  | Y  | Y   | Y                 | Y   | Y             | Y    | Y   | Y                 | Y    | Y    | Y    | Y   |
| Receptacle Top    | NTR  | Y      | Y   |                |    |    |     | Y                 | Y   | N             | N    | N   | Y                 | Y    | Y    | Y    | Y   |
|                   | P3   | Y      | N   |                |    |    |     | Y                 | N   | Y             | Y    | N   | N                 | N    | N    | N    | N   |
|                   | P7   | Y      | Y   |                |    |    |     | Y                 | Y   | Y             | Y    | N   | Y                 | Y    | Y    | Y    | N   |
|                   | ZRT  | N      | Y   |                |    |    |     | Y                 | Y   | N             | N    | Y   | Y                 | Y    | Y    | Y    | N   |
| Receptacle Bottom | NBR  | Y      | Y   | Y              | Y  | Y  | Y   |                   |     | Y             | Y    | Y   | Y                 | Y    | Y    | Y    | Y   |
|                   | ZRB  | N      | Y   | Y              | N  | Y  | Y   |                   |     | Y             | Y    | Y   | N                 | N    | N    | N    | Y   |
| Photocontrols     | SH   | Y      | Y   | N              | Y  | Y  | N   | Y                 | Y   |               |      |     | Y                 | Y    | Y    | Y    | N   |
|                   | PCLL | Y      | Y   | N              | Y  | Y  | N   | Y                 | Y   |               |      |     | N                 | N    | N    | N    | N   |
|                   | DZP  | N      | Y   | N              | N  | N  | Y   | Y                 | Y   |               |      |     | N                 | N    | N    | N    | N   |
| Embedded Controls | DDC  | N      | Y   | Y              | N  | Y  | Y   | Y                 | N   | Y             | N    | N   |                   |      |      |      |     |
|                   | ALCB | N      | Y   | Y              | N  | Y  | Y   | Y                 | N   | Y             | Y    | N   |                   |      |      |      |     |
|                   | ALCF | N      | Y   | Y              | N  | Y  | Y   | Y                 | N   | Y             | Y    | N   |                   |      |      |      |     |
|                   | ALCC | N      | Y   | Y              | N  | Y  | Y   | Y                 | N   | Y             | Y    | N   |                   |      |      |      |     |
|                   | UBC  | N      | Y   | Y              | N  | N  | N   | Y                 | Y   | N             | N    | N   |                   |      |      |      |     |

Y = Option combination is allowed

N = Option combination is not allowed

### D4i DRIVER OPTION DEFAULTS

| Setting        | Receptacle Top | Receptacle Bottom | Embedded Control   | Default Value         | Alternate Values |
|----------------|----------------|-------------------|--------------------|-----------------------|------------------|
| DALI Power Bus | NTR            | NBR               | none               | ON                    | Off              |
|                | NTR            | NBR               | ALCB / ALCF / ALCC | ON                    | none             |
|                | NTR            | NBR               | DDC                | ON                    | none             |
|                | NTR            | ZRB               | none               | ON                    | Off              |
|                | NTR            | NBR               | UBC                | ON                    | none             |
|                | NTR            | ZRB               | UBC                | ON                    | none             |
|                | P7             | NBR               | none               | OFF                   | On               |
|                | P7             | NBR               | ALCB / ALCF / ALCC | ON                    | none             |
|                | P7             | NBR               | DDC                | ON                    | none             |
|                | P7             | ZRB               | none               | OFF                   | On               |
|                | ZRT            | NBR               | none               | ON                    | Off              |
|                | ZRT            | NBR               | ALCB / ALCF / ALCC | ON                    | none             |
|                | ZRT            | NBR               | DDC                | ON                    | none             |
|                | ZRT            | ZRB               | none               | ON                    | Off              |
| Dimming Type   | All            | All               | Any                | LINEAR                | Logarithmic      |
| 24V AUX        | All            | All               | Any                | ON<br>(Not Connected) | none             |
| Scenes Data    | All            | All               | Any                | 0 (blank)             | 01-255           |

\*To program different settings, consult factory; RFD is required

### EMBEDDED CONTROL LOCATION DEFAULTS

| Control                           | Standard Locations |                                                                                     | Alternate Location    |
|-----------------------------------|--------------------|-------------------------------------------------------------------------------------|-----------------------|
| DC Connect<br>DDC                 | Bottom             |  | Top<br>(RFD Required) |
| Local Connect<br>ALCB, ALCF, ALCF | Bottom             |  | Top<br>(RFD Required) |
| Cell Connect<br>UBC               | Top                |  | None                  |



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### PERFORMANCE PACKAGES

#### WLT Watch Light Performance

| WLT Perf Pkg | Distribution | Input Watts | 3000K  |     | 4000K  |     | BUG Rating |   |   | LDD @ 25°C |           |            |
|--------------|--------------|-------------|--------|-----|--------|-----|------------|---|---|------------|-----------|------------|
|              |              |             | Lumens | LPW | Lumens | LPW | B          | U | G | 50k hours  | 75k hours | 100k hours |
| A            | R3           | 34          | 4,971  | 146 | 5,063  | 149 | 2          | 3 | 2 | 0.92       | 0.89      | 0.85       |
|              | R5           |             | 5,142  | 151 | 5,237  | 154 | 2          | 2 | 1 |            |           |            |
|              | N3           |             | 4,636  | 136 | 4,721  | 139 | 2          | 0 | 1 |            |           |            |
|              | N5           |             | 4,831  | 142 | 4,921  | 145 | 2          | 0 | 1 |            |           |            |
|              | D3           |             | 4,853  | 143 | 4,943  | 145 | 2          | 3 | 2 |            |           |            |
|              | D5           |             | 4,972  | 146 | 5,064  | 149 | 2          | 3 | 1 |            |           |            |
| B            | R3           | 43          | 6,205  | 144 | 6,320  | 147 | 2          | 3 | 2 | 0.92       | 0.89      | 0.85       |
|              | R5           |             | 6,419  | 149 | 6,538  | 152 | 3          | 2 | 1 |            |           |            |
|              | N3           |             | 5,787  | 135 | 5,894  | 137 | 2          | 0 | 1 |            |           |            |
|              | N5           |             | 6,031  | 140 | 6,143  | 143 | 2          | 0 | 1 |            |           |            |
|              | D3           |             | 6,059  | 141 | 6,171  | 144 | 2          | 3 | 2 |            |           |            |
|              | D5           |             | 6,208  | 144 | 6,322  | 147 | 2          | 3 | 1 |            |           |            |
| C            | R3           | 51          | 7,254  | 142 | 7,388  | 145 | 2          | 3 | 2 | 0.92       | 0.89      | 0.85       |
|              | R5           |             | 7,504  | 147 | 7,642  | 150 | 3          | 2 | 1 |            |           |            |
|              | N3           |             | 6,765  | 133 | 6,890  | 135 | 2          | 0 | 1 |            |           |            |
|              | N5           |             | 7,050  | 138 | 7,181  | 141 | 3          | 0 | 1 |            |           |            |
|              | D3           |             | 7,082  | 139 | 7,213  | 141 | 2          | 3 | 2 |            |           |            |
|              | D5           |             | 7,256  | 142 | 7,390  | 145 | 3          | 3 | 2 |            |           |            |
| D            | R3           | 62          | 8,908  | 144 | 9,072  | 146 | 2          | 3 | 3 | 0.92       | 0.89      | 0.85       |
|              | R5           |             | 9,214  | 149 | 9,384  | 151 | 3          | 2 | 1 |            |           |            |
|              | N3           |             | 8,307  | 134 | 8,460  | 136 | 2          | 0 | 2 |            |           |            |
|              | N5           |             | 8,657  | 140 | 8,817  | 142 | 3          | 0 | 1 |            |           |            |
|              | D3           |             | 8,697  | 140 | 8,857  | 143 | 2          | 3 | 2 |            |           |            |
|              | D5           |             | 8,910  | 144 | 9,075  | 146 | 3          | 3 | 2 |            |           |            |
| E            | R3           | 72          | 10,073 | 140 | 10,259 | 142 | 2          | 3 | 3 | 0.92       | 0.89      | 0.85       |
|              | R5           |             | 10,419 | 145 | 10,612 | 147 | 3          | 3 | 1 |            |           |            |
|              | N3           |             | 9,393  | 130 | 9,567  | 133 | 2          | 0 | 2 |            |           |            |
|              | N5           |             | 9,790  | 136 | 9,971  | 138 | 3          | 0 | 1 |            |           |            |
|              | D3           |             | 9,834  | 137 | 10,016 | 139 | 2          | 3 | 3 |            |           |            |
|              | D5           |             | 10,075 | 140 | 10,262 | 143 | 3          | 3 | 2 |            |           |            |
| F            | R3           | 79          | 10,942 | 139 | 11,145 | 141 | 2          | 3 | 3 | 0.92       | 0.89      | 0.85       |
|              | R5           |             | 11,318 | 143 | 11,528 | 146 | 3          | 3 | 2 |            |           |            |
|              | N3           |             | 10,204 | 129 | 10,393 | 132 | 2          | 0 | 2 |            |           |            |
|              | N5           |             | 10,635 | 135 | 10,832 | 137 | 3          | 0 | 1 |            |           |            |
|              | D3           |             | 10,683 | 135 | 10,881 | 138 | 2          | 3 | 3 |            |           |            |
|              | D5           |             | 10,945 | 139 | 11,148 | 141 | 3          | 3 | 2 |            |           |            |

| Performance Package | Watts | Current (A) |      |      |      |
|---------------------|-------|-------------|------|------|------|
|                     |       | 120V        | 208V | 240V | 277V |
| A                   | 30    | 0.25        | 0.14 | 0.13 | 0.11 |
| B                   | 40    | 0.33        | 0.19 | 0.17 | 0.14 |
| C                   | 50    | 0.42        | 0.24 | 0.21 | 0.18 |
| D                   | 60    | 0.50        | 0.29 | 0.25 | 0.22 |
| E                   | 70    | 0.58        | 0.34 | 0.29 | 0.25 |
| F                   | 80    | 0.67        | 0.38 | 0.33 | 0.29 |

| AMBIENT TEMPERATURE FACTOR |      |      |      |      |      |      |
|----------------------------|------|------|------|------|------|------|
|                            | A    | B    | C    | D    | E    | F    |
| 0°C                        | 1.04 | 1.04 | 1.04 | 1.03 | 1.03 | 1.03 |
| 15°C                       | 1.01 | 1.02 | 1.02 | 1.01 | 1.01 | 1.01 |
| 25°C                       | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 35°C                       | 0.98 | 0.98 | 0.98 | 0.99 | 0.99 | 0.99 |
| 40°C                       | 0.98 | 0.97 | 0.97 | 0.98 | 0.98 | 0.98 |



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