

# TALON

Area Light

Project: \_\_\_\_\_



## Performance Data

CRI 70+ Dimming 0-10v, 10% to 100%  
 CCT 4000K Operating Temp -40°C to +55°C  
 Lifetime L80 100,000+ IP Rating IP 65

## Description

The Talon is Unite's most popular area light offering both fantastic efficiency and reliability to provide the best one for one replacement value in the market. Multiple mounting options and distribution types make this a highly versatile solution for parking lots, sites and roadways. The Talon is always part of Unite Ltg's 2 day quick ship program for ultimate convenience.

## Features

- Highly durable powder coat finish over chromatic conversion coating
- Die cast aluminum IP65 housing UL listed with integral heatsink
- 4 convenient mounting types for all installations
- Thermal and shock resistant 3G tested for roadways and crane mounting



**2 DAY**  
**QUICK SHIP**  
 ON SELECT MODELS

## Ordering Information

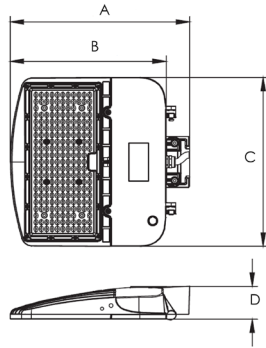
Example: TL-150-5K-U-T4-BRZ-PM-3PIN-PC-HSS

| Series                                                                                                                               | Wattage                         | Optic                                                                                                                                         | Color Temp | Voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Color                             | Mounting                                                |
|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---------------------------------------------------------|
| TL Talon                                                                                                                             | 100<br>150<br>200<br>240<br>300 | H3 Type 3<br>H4 Type 4<br>H5 Type 5                                                                                                           | 4K 4000K   | U 120-277<br>H 277-480                                                                                                                                                                                                                                                                                                                                                                                                                                              | BZ Bronze<br>BK Black<br>WH White | SF Slip Fit Mount<br>PM Pole Mount<br>TRN Trunion Mount |
| Accessories                                                                                                                          |                                 | Controls                                                                                                                                      |            | DLC                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                   |                                                         |
| <b>3PIN</b> 3 Pin Socket Base Included<br><b>SC</b> Shorting Cap<br><b>10kv</b> 10kV Surge Protector<br><b>HSS</b> House Side Shield |                                 | <b>PC</b> Photocell<br><b>OCC</b> Programmable Microwave Sensor<br><b>UC</b> Unite Connect Wireless Network PIR occupancy and daylight sensor |            | <b>TL 100 H3 4K</b> PLJRW8HVF6HI<br><b>TL 100 H3 5K</b> PLQ4R4DAL20L<br><b>TL150 H3 4K</b> PLNGSTPW7QCO<br><b>TL 150 H3 5K</b> PL94KG466TGF<br><b>TL 150 H4 4K</b> S-HWNEG<br><b>TL 150 H4 5K</b> S-8XY3TI<br><b>TL 150 H5 4K</b> PL26SMG7PUQE<br><b>TL 150 H5 5K</b> PLJWROVPBD<br><b>TL 200 H3 4K</b> PLP9OQT9HTZ2<br><b>TL 300 H3 4K</b> PL4AMF8NA8RQ<br><b>TL 300 H3 5K</b> PL65U1GYKB2<br><b>TL 300 H5 4K</b> PLKM8Y218EO8<br><b>TL 300 H5 5K</b> PLMTHJVCQIU5 |                                   |                                                         |

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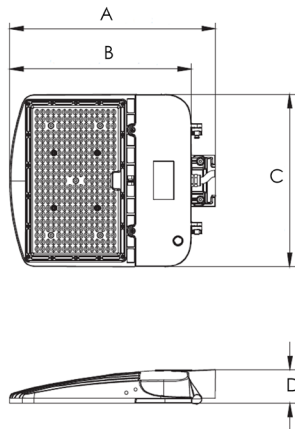
## DIMENSIONS

### TALON 100W & 150W



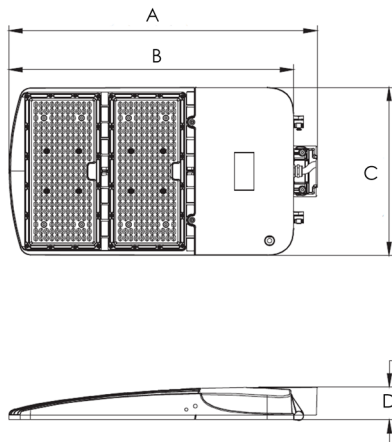
| Measure Point | Dimensions |
|---------------|------------|
| A             | 13.14"     |
| B             | 11.41"     |
| C             | 12.4"      |
| D             | 2.4"       |

### TALON 200W



| Measure Point | Dimensions |
|---------------|------------|
| A             | 14.84"     |
| B             | 13.11"     |
| C             | 12.4"      |
| D             | 2.4"       |

### TALON 240W & 300W



| Measure Point | Dimensions |
|---------------|------------|
| A             | 22.72"     |
| B             | 21.03"     |
| C             | 12.39"     |
| D             | 2.4"       |

## PERFORMANCE

### LUMEN OUTPUT

| Wattage | T3 Lum | T3 EFF  | T4 Lum | T4 EFF  | T5 Lum | T5 EFF  |
|---------|--------|---------|--------|---------|--------|---------|
| 100W    | 14203  | 142 LPW | 14637  | 146 LPW | 14221  | 142 LPW |
| 150W    | 20144  | 140 LPW | 20874  | 139 LPW | 21347  | 141 LPW |
| 200W    | 29301  | 141 LPW | 29105  | 143 LPW | 29143  | 143 LPW |
| 240W    | 34710  | 145LPW  | 34928  | 145 LPW | 34976  | 145 LPW |
| 300W    | 42331  | 141 LPW | 42143  | 141 LPW | 42784  | 142 LPW |

### LUMEN AMBIENT TEMP MULTIPLIERS

| Temperature | Multiple |
|-------------|----------|
| 0c/32f      | 1.03     |
| 10c/50f     | 1.01     |
| 20c/68f     | 1.00     |
| 30c/86f     | 0.99     |
| 40c/106f    | 0.98     |

### ELECTRICAL LOAD CALCULATIONS

| Wattage | 120V  | 208V  | 240V  | 277V  |
|---------|-------|-------|-------|-------|
| 100W    | 0.83A | 0.48A | 0.42A | 0.36A |
| 150W    | 1.25A | 0.72A | 0.63A | 0.54A |
| 200W    | 1.66A | 0.96A | 0.83A | 0.72A |
| 240W    | 2.00A | 1.15A | 1.00A | 0.86A |
| 300W    | 2.50A | 1.44A | 1.25A | 1.08A |

### B-U-G and EPA RATING

| Wattage | B.U.G.   | EPA |
|---------|----------|-----|
| 100W    | B3-U1-G3 | 0.7 |
| 150W    | B3-U1-G3 | 0.7 |
| 200W    | B3-U2-G3 | 0.9 |
| 240W    | B4-U2-G4 | 1.0 |
| 300W    | B4-U2-G4 | 1.0 |

### WEIGHT AND PACKAGING SIZE

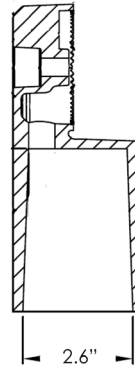
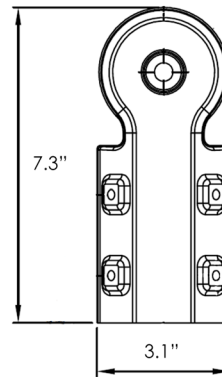
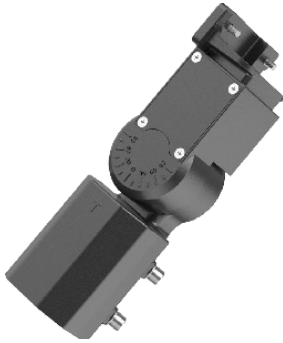
| Wattage | Weight   | Box Size LxWxH   |
|---------|----------|------------------|
| 100W    | 6.3 lbs  | 19"x14.4"x5.7"   |
| 150W    | 6.4 lbs  | 19"x14.4"x5.7"   |
| 200W    | 7.0 lbs  | 19.8"x14.4"x5.7" |
| 240W    | 10.3 lbs | 27.7"x14.4"x5.7" |
| 300W    | 10.8 lbs | 27.7"x14.4"x5.7" |

### LUMEN MAINTENANCE

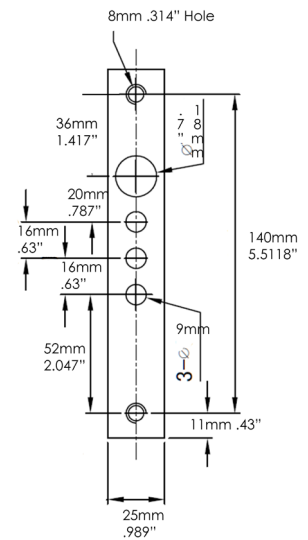
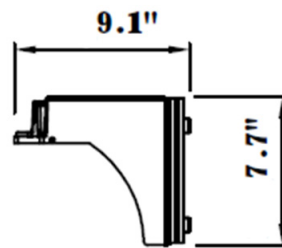
| Operating Hours    | 0    | 25,000 | 50,000 | 100,000 |
|--------------------|------|--------|--------|---------|
| Percent of Initial | 100% | 96%    | 93%    | 86%     |

## MOUNTING

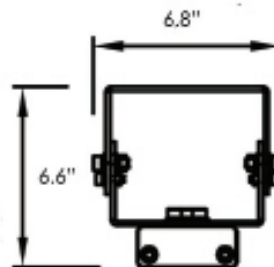
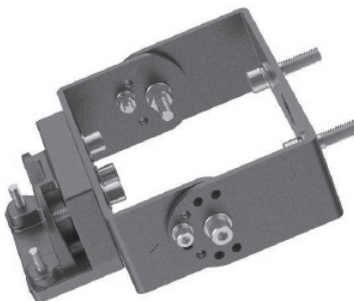
### SF Slip Fit Bracket



### PM Pole Mount (Round and Square)



### TRN Trunion



## CONTROLS

### Photocell

Twist lock photocell is the most economical choice for hassle free controls. The PC will detect natural light and activate the Talon at dusk and shut it off at dawn!



### Programmable Microwave Sensor

The Talon can integrate a programmable microwave sensor for total independant control. Functionality includes daylight harvesting, occupancy sensing, high low dimming at 10%, 30% or 50% standby levels with cycling hold times up to one hour.



### Silvair Wireless Control

The Silvair wireless control system utilizes qualified bluetooth protocol to offer a truly open source wireless control system. Easily integrated with EnOcean switches, the Silvair commissions in seconds and provides true wireless network control.



### Autani Wireless Control

Autani is a midrange Zigbee wireless control platform that can offer advanced features such as space utilization, asset counting, temperature data collection, and advanced energy monitoring.



### Synapse Wireless Control

Synapse is the Cadillac of outdoor wireless controls. Appropriate for single site to entire cities, Synapse boasts 1000 foot range as well as capacity for up to 10,000 lights all within one network. Functionality includes advanced features such as internet free network and full BacNet integration.

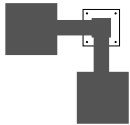


## EPA RATINGS



S Single

| Size   | 100 & 150 | 200      | 240 & 300 |
|--------|-----------|----------|-----------|
| Weight | 12.6 lbs  | 14.0 lbs | 21.6 lbs  |
| EPA    | 0.70      | 0.90     | 1.00      |



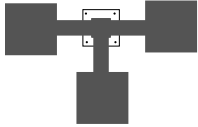
D90 Double 90

| Size   | 100 & 150 | 200      | 240 & 300 |
|--------|-----------|----------|-----------|
| Weight | 12.6 lbs  | 14.0 lbs | 21.6 lbs  |
| EPA    | 1.10      | 1.20     | 1.50      |



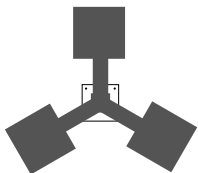
D180 Double 180

| Size   | 100 & 150 | 200      | 240 & 300 |
|--------|-----------|----------|-----------|
| Weight | 12.6 lbs  | 14.0 lbs | 21.6 lbs  |
| EPA    | 1.60      | 1.90     | 2.00      |



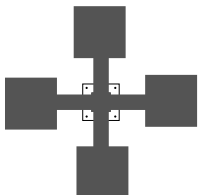
T90 Triple 90

| Size   | 100 & 150 | 200      | 240 & 300 |
|--------|-----------|----------|-----------|
| Weight | 19.3 lbs  | 21.0 lbs | 32.4 lbs  |
| EPA    | 1.80      | 2.10     | 2.20      |



T120 Triple 120

| Size   | 100 & 150 | 200      | 240 & 300 |
|--------|-----------|----------|-----------|
| Weight | 19.3 lbs  | 21.0 lbs | 32.4 lbs  |
| EPA    | 1.80      | 2.10     | 2.20      |

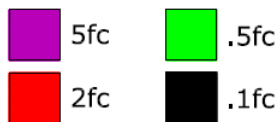


Q90 Quad

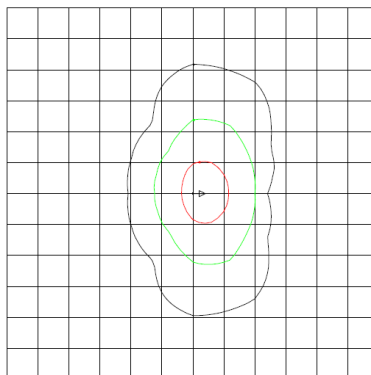
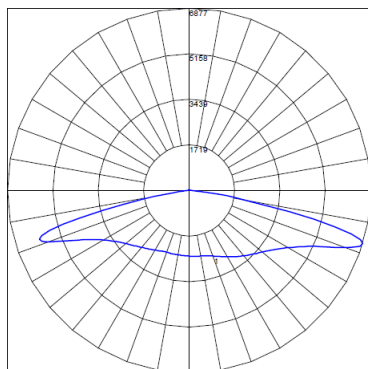
| Size   | 100 & 150 | 200      | 240 & 300 |
|--------|-----------|----------|-----------|
| Weight | 25.2 lbs  | 28.0 lbs | 43.2 lbs  |
| EPA    | 1.90      | 2.20     | 2.40      |

## PHOTOMETRY 100W

### 100W Type 3

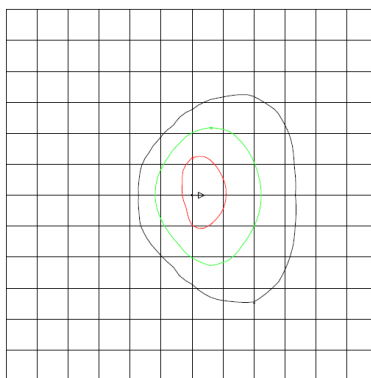
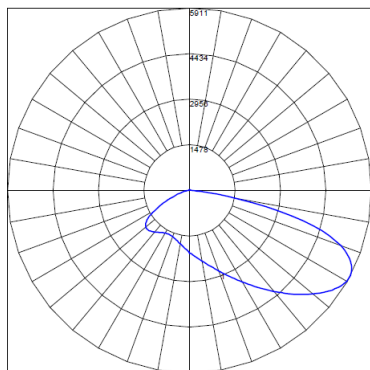


Distance In Increments of 40ft  
Mounting Height - 25ft



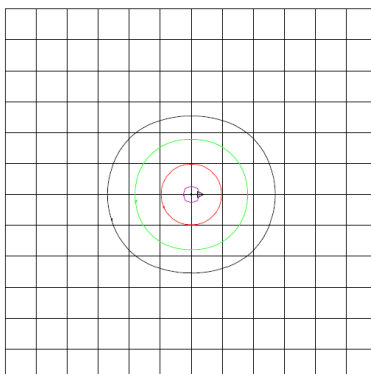
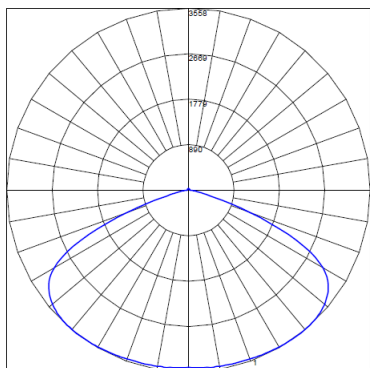
| Talon 100W T3       |        |          |
|---------------------|--------|----------|
| Zonal Lumen Summary |        |          |
| Zone                | Lumens | %Fixture |
| 0-30                | 2947   | 21%      |
| 0-40                | 4845   | 34%      |
| 0-60                | 9874   | 70%      |
| 0-80                | 13773  | 97%      |
| 0-90                | 14044  | 99%      |
| 60-80               | 6685   | 47%      |
| 70-80               | 3899   | 27%      |
| 80-90               | 1737   | 12%      |
| 0-180               | 14203  | 100%     |

### 100W Type 4



| Talon 100W T4       |        |          |
|---------------------|--------|----------|
| Zonal Lumen Summary |        |          |
| Zone                | Lumens | %Fixture |
| 0-30                | 2140   | 15%      |
| 0-40                | 3855   | 26%      |
| 0-60                | 9005   | 62%      |
| 0-80                | 14150  | 97%      |
| 0-90                | 14458  | 99%      |
| 60-80               | 8020   | 55%      |
| 70-80               | 5145   | 35%      |
| 80-90               | 2357   | 16%      |
| 0-180               | 14637  | 100%     |

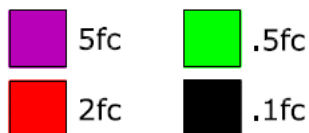
### 100W Type 5



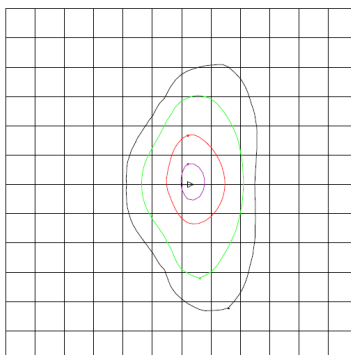
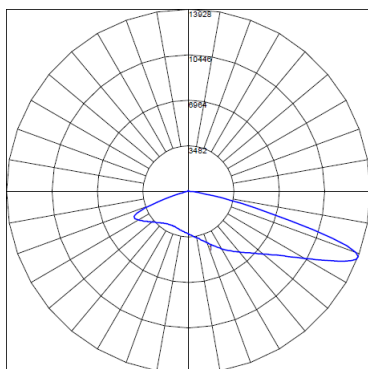
| Talon 100W T5       |        |          |
|---------------------|--------|----------|
| Zonal Lumen Summary |        |          |
| Zone                | Lumens | %Fixture |
| 0-30                | 1752   | 12%      |
| 0-40                | 3387   | 24%      |
| 0-60                | 8512   | 60%      |
| 0-80                | 13812  | 97%      |
| 0-90                | 14072  | 99%      |
| 60-80               | 8192   | 58%      |
| 70-80               | 5300   | 37%      |
| 80-90               | 2358   | 17%      |
| 0-180               | 14221  | 100%     |

## PHOTOMETRY 150W

### 150W Type 3

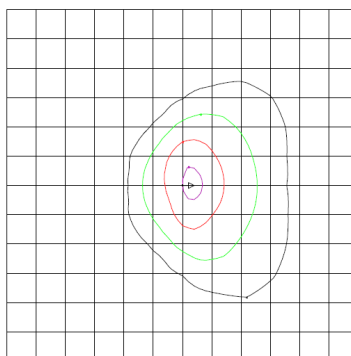
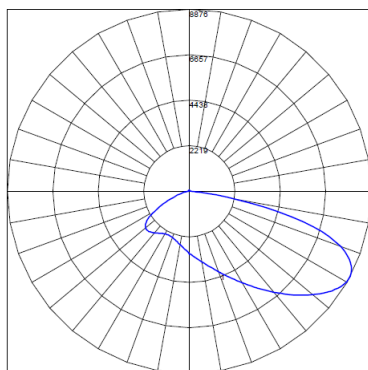


Distance In Increments of 40ft  
Mounting Height - 25ft



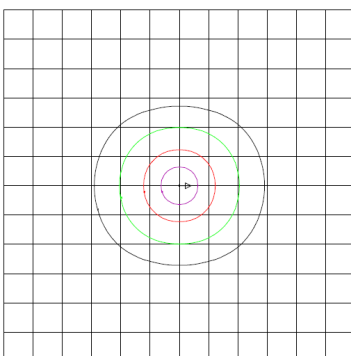
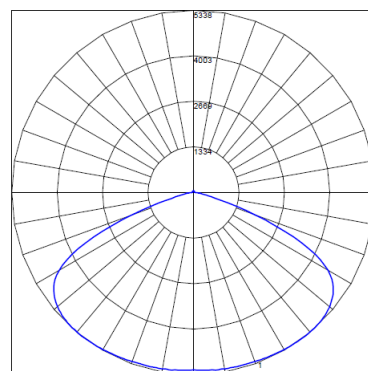
| Talon 150W T3       |        |          |
|---------------------|--------|----------|
| Zonal Lumen Summary |        |          |
| Zone                | Lumens | %Fixture |
| 0-30                | 2891   | 14%      |
| 0-40                | 5471   | 26%      |
| 0-60                | 13533  | 64%      |
| 0-80                | 20399  | 97%      |
| 0-90                | 20779  | 99%      |
| 60-80               | 11296  | 54%      |
| 70-80               | 6866   | 33%      |
| 80-90               | 2924   | 14%      |
| 0-180               | 21044  | 100%     |

### 150W Type 4



| Talon 150W T4       |        |          |
|---------------------|--------|----------|
| Zonal Lumen Summary |        |          |
| Zone                | Lumens | %Fixture |
| 0-30                | 3031   | 15%      |
| 0-40                | 5604   | 27%      |
| 0-60                | 13664  | 65%      |
| 0-80                | 20413  | 98%      |
| 0-90                | 20617  | 99%      |
| 60-80               | 11264  | 54%      |
| 70-80               | 6749   | 32%      |
| 80-90               | 2389   | 11%      |
| 0-180               | 20873  | 100%     |

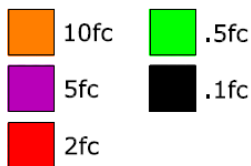
### 150W Type 5



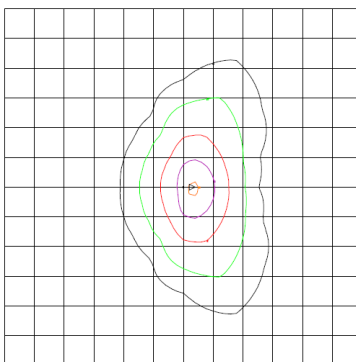
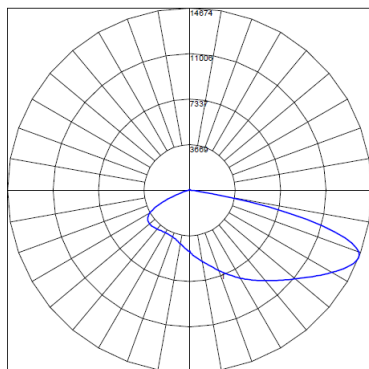
| Talon 150W T5       |        |          |
|---------------------|--------|----------|
| Zonal Lumen Summary |        |          |
| Zone                | Lumens | %Fixture |
| 0-30                | 3095   | 14%      |
| 0-40                | 5668   | 27%      |
| 0-60                | 13870  | 65%      |
| 0-80                | 20725  | 97%      |
| 0-90                | 21105  | 99%      |
| 60-80               | 11460  | 54%      |
| 70-80               | 6855   | 32%      |
| 80-90               | 2678   | 13%      |
| 0-180               | 21347  | 100%     |

## PHOTOMETRY 200W

### 200W Type 3

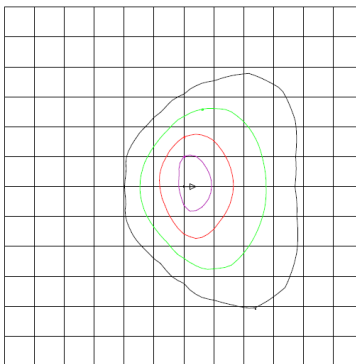
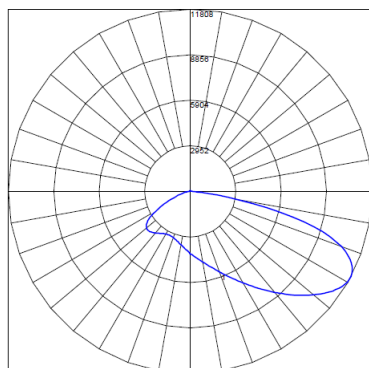


Distance in Increments of 40ft  
Mounting Height - 25ft



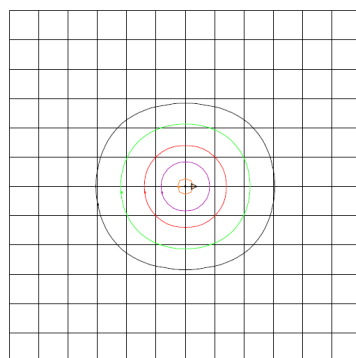
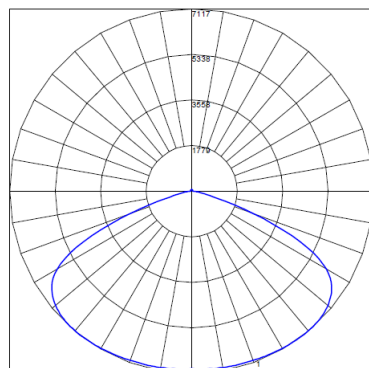
| Talon 200W T3       |        |          |
|---------------------|--------|----------|
| Zonal Lumen Summary |        |          |
| Zone                | Lumens | %Fixture |
| 0-30                | 4601   | 16%      |
| 0-40                | 7831   | 28%      |
| 0-60                | 17704  | 63%      |
| 0-80                | 27502  | 97%      |
| 0-90                | 28003  | 99%      |
| 60-80               | 15335  | 54%      |
| 70-80               | 9798   | 35%      |
| 80-90               | 4377   | 15%      |
| 0-180               | 28301  | 100%     |

### 200W Type 4



| Talon 200W T4       |        |          |
|---------------------|--------|----------|
| Zonal Lumen Summary |        |          |
| Zone                | Lumens | %Fixture |
| 0-30                | 4270   | 15%      |
| 0-40                | 7700   | 26%      |
| 0-60                | 17986  | 62%      |
| 0-80                | 28172  | 97%      |
| 0-90                | 28788  | 99%      |
| 60-80               | 15936  | 55%      |
| 70-80               | 10186  | 35%      |
| 80-90               | 4660   | 16%      |
| 0-180               | 29105  | 100%     |

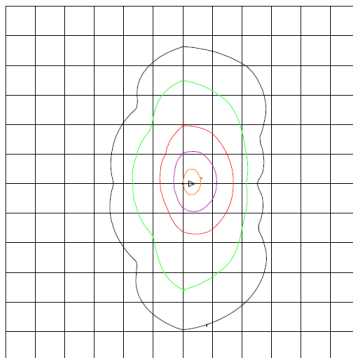
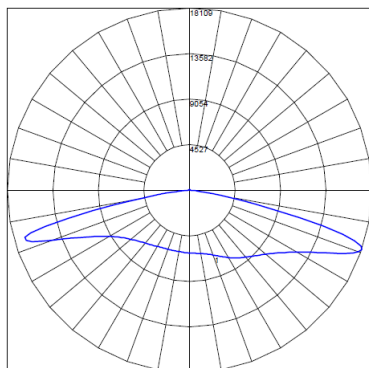
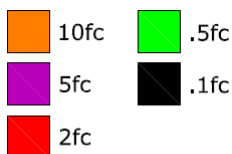
### 200W Type 5



| Talon 200W T5       |        |          |
|---------------------|--------|----------|
| Zonal Lumen Summary |        |          |
| Zone                | Lumens | %Fixture |
| 0-30                | 3990   | 14%      |
| 0-40                | 7320   | 25%      |
| 0-60                | 17813  | 61%      |
| 0-80                | 28210  | 97%      |
| 0-90                | 28826  | 99%      |
| 60-80               | 16254  | 56%      |
| 70-80               | 10397  | 36%      |
| 80-90               | 4760   | 16%      |
| 0-180               | 29143  | 100%     |

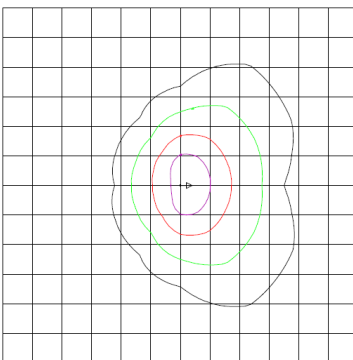
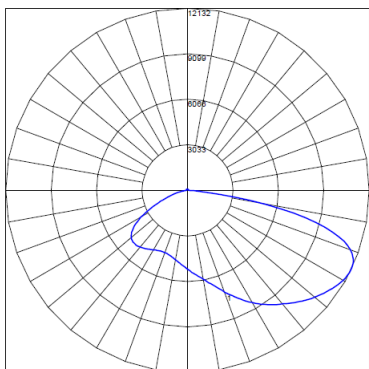
## PHOTOMETRY 240W

### 240W Type 3



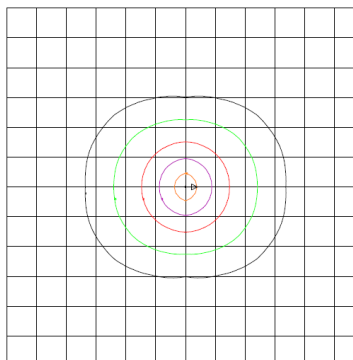
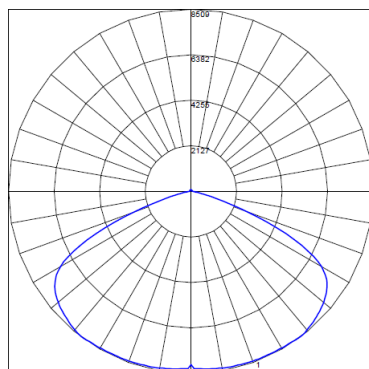
| Talon 240W T3       |        |          |
|---------------------|--------|----------|
| Zonal Lumen Summary |        |          |
| Zone                | Lumens | %Fixture |
| 0-30                | 5380   | 15%      |
| 0-40                | 9651   | 28%      |
| 0-60                | 22173  | 64%      |
| 0-80                | 33798  | 97%      |
| 0-90                | 34300  | 99%      |
| 60-80               | 18549  | 53%      |
| 70-80               | 11625  | 33%      |
| 80-90               | 5000   | 14%      |
| 0-180               | 34710  | 100%     |

### 240W Type 4



| Talon 240W T4       |        |          |
|---------------------|--------|----------|
| Zonal Lumen Summary |        |          |
| Zone                | Lumens | %Fixture |
| 0-30                | 6159   | 18%      |
| 0-40                | 11026  | 32%      |
| 0-60                | 23716  | 68%      |
| 0-80                | 34008  | 97%      |
| 0-90                | 34517  | 99%      |
| 60-80               | 16893  | 48%      |
| 70-80               | 10292  | 29%      |
| 80-90               | 4964   | 14%      |
| 0-180               | 34928  | 100%     |

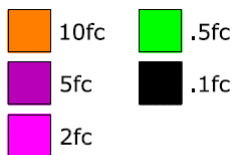
### 240W Type 5



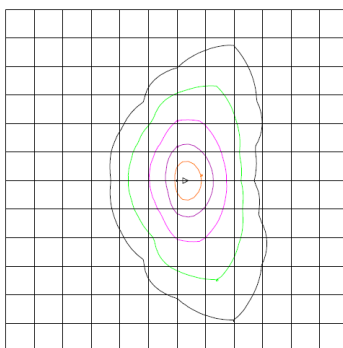
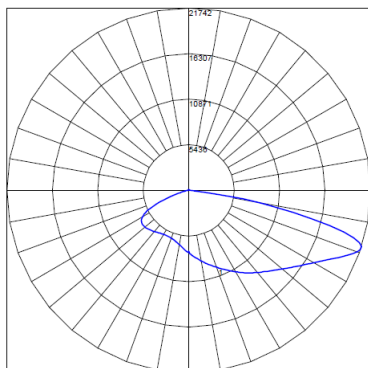
| Talon 240W T5       |        |          |
|---------------------|--------|----------|
| Zonal Lumen Summary |        |          |
| Zone                | Lumens | %Fixture |
| 0-30                | 6791   | 19%      |
| 0-40                | 11865  | 34%      |
| 0-60                | 24527  | 70%      |
| 0-80                | 34056  | 97%      |
| 0-90                | 34565  | 99%      |
| 60-80               | 16102  | 46%      |
| 70-80               | 9529   | 27%      |
| 80-90               | 4964   | 14%      |
| 0-180               | 34976  | 100%     |

## PHOTOMETRY 300W

### 300W Type 3

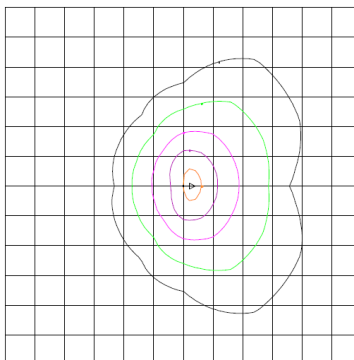
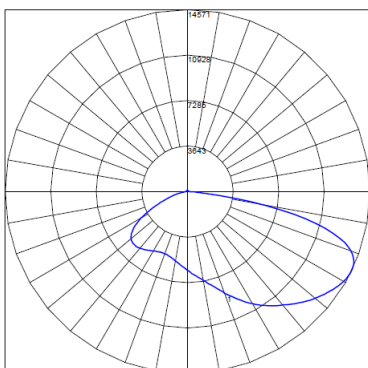


Distance In Increments of 40ft  
Mounting Height - 25ft



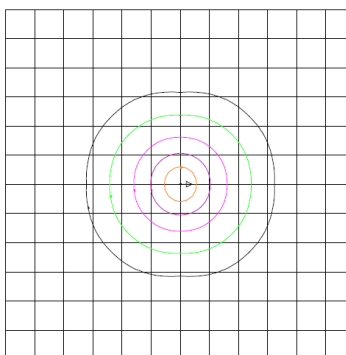
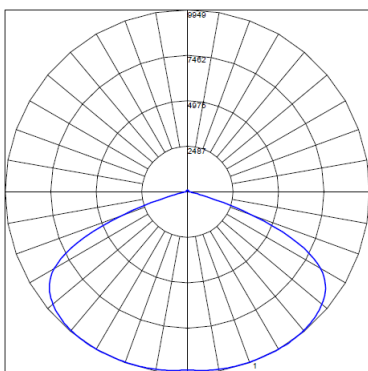
| Talon 300W T3       |        |          |
|---------------------|--------|----------|
| Zonal Lumen Summary |        |          |
| Zone                | Lumens | %Fixture |
| 0-30                | 6679   | 16%      |
| 0-40                | 12264  | 29%      |
| 0-60                | 28351  | 67%      |
| 0-80                | 41325  | 98%      |
| 0-90                | 41814  | 99%      |
| 60-80               | 21688  | 51%      |
| 70-80               | 12974  | 31%      |
| 80-90               | 5001   | 12%      |
| 0-180               | 42331  | 100%     |

### 300W Type 4



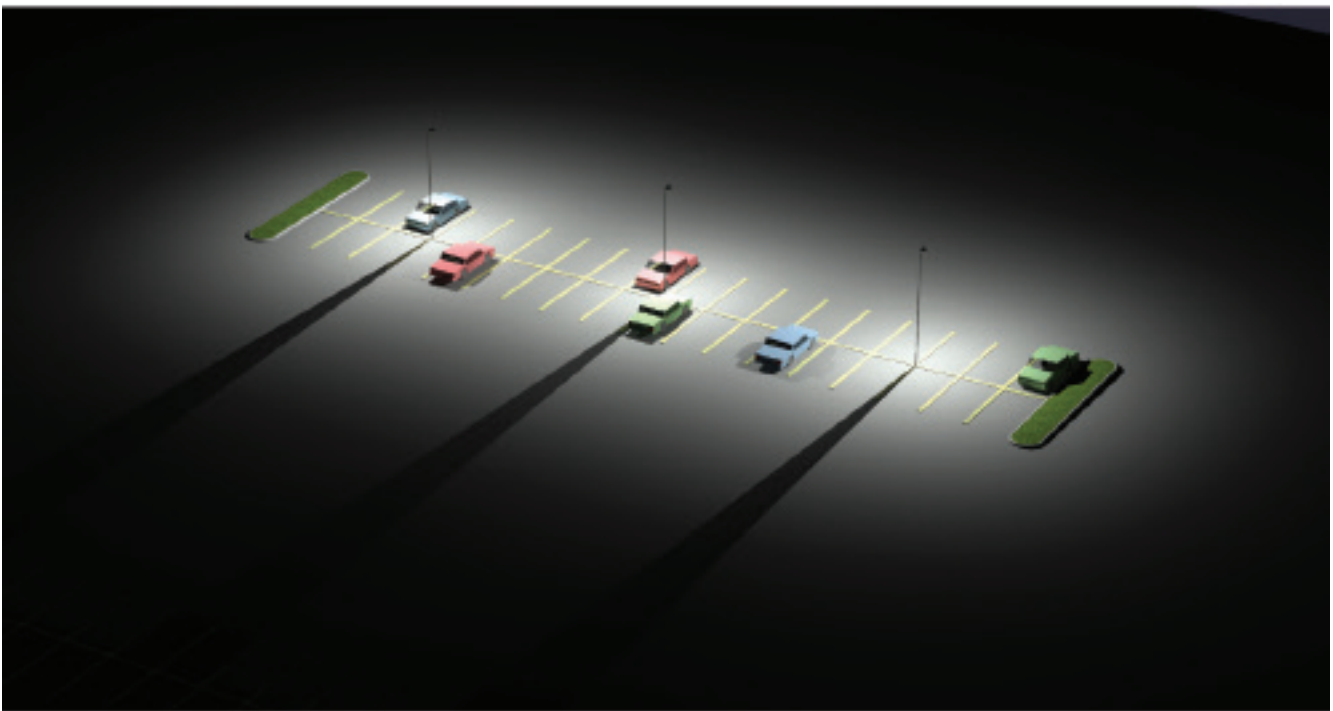
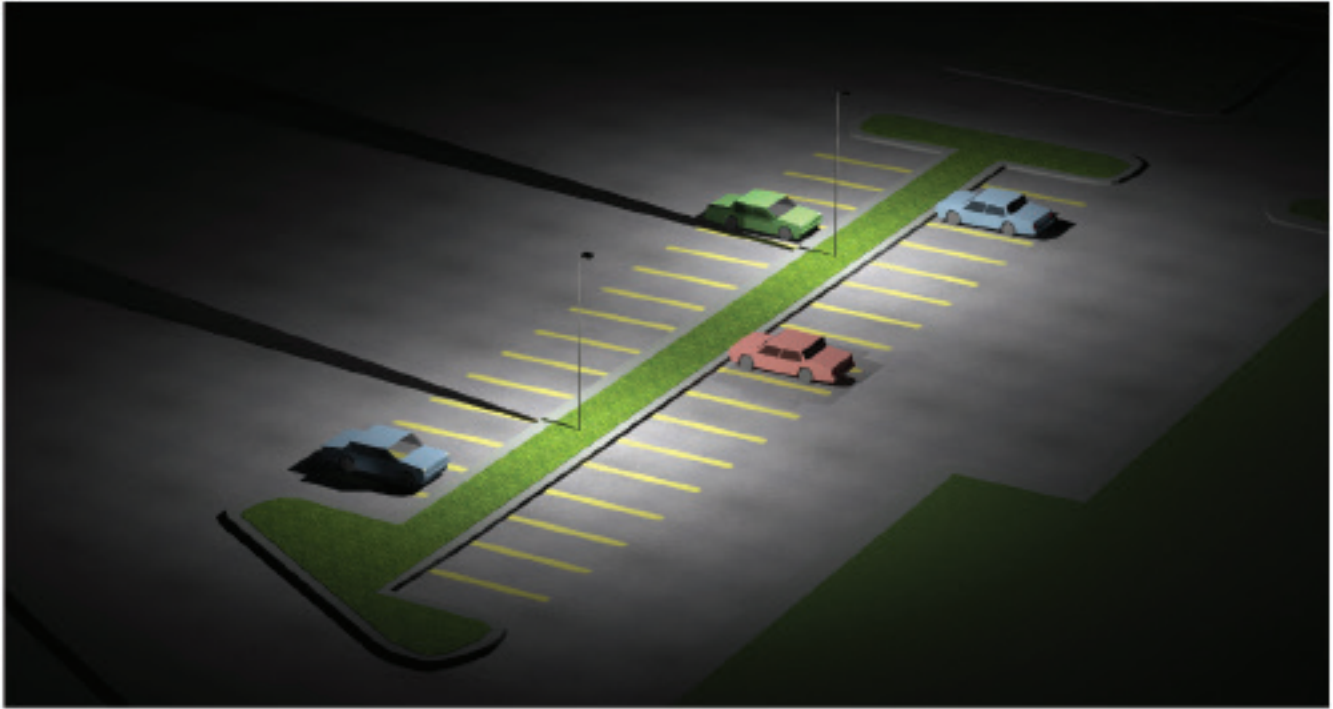
| Talon 300W T4       |        |          |
|---------------------|--------|----------|
| Zonal Lumen Summary |        |          |
| Zone                | Lumens | %Fixture |
| 0-30                | 6493   | 15%      |
| 0-40                | 11930  | 28%      |
| 0-60                | 28053  | 67%      |
| 0-80                | 41147  | 98%      |
| 0-90                | 41626  | 99%      |
| 60-80               | 21799  | 52%      |
| 70-80               | 13094  | 31%      |
| 80-90               | 5061   | 12%      |
| 0-180               | 42143  | 100%     |

### 300W Type 5



| Talon 300W T5       |        |          |
|---------------------|--------|----------|
| Zonal Lumen Summary |        |          |
| Zone                | Lumens | %Fixture |
| 0-30                | 5778   | 14%      |
| 0-40                | 11512  | 27%      |
| 0-60                | 28054  | 66%      |
| 0-80                | 41678  | 97%      |
| 0-90                | 42267  | 99%      |
| 60-80               | 22568  | 53%      |
| 70-80               | 13624  | 32%      |
| 80-90               | 5501   | 13%      |
| 0-180               | 42784  | 100%     |

## RENDERS



## RENDERS

