

# Carson Technology<sup>®</sup>

## LED Lighting



EPISTAR



Value  
Engineered



Factory  
Direct

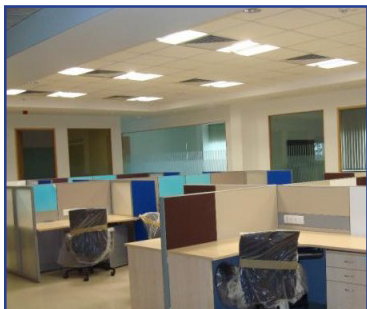
2016 Product Catalog

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# LED Lighting Applications



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# Company Background

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Established in 2010, Carson Technology Company is a LED lighting manufacturer with a factory direct plant in DongGuan, China and distribution warehouse in Los Angeles, California. By adopting a product differentiation strategy, we offer value engineered LED lighting solutions whose investments can payback within the first year.



Factory Direct Plant



Distribution Warehouse

## Our Mission

The world is changing around us. We are always looking forward to the trends that will shape the LED lighting industry in the future. We are ready for tomorrow, today. This mentality creates a long-term destination for our business and provides a winning formula for our clients.

## Our Values

- ➡ Quality: manufacturing premium LED products below the industry defect rate
- ➡ Integrity: accurately portraying cost saving proposals
- ➡ Accountability: sharing client-first mentality

## Product Differentiation Strategy

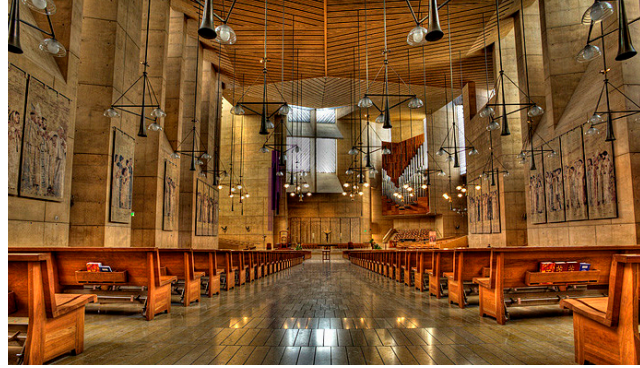
- ➡ Customize products catering to client demand
- ➡ Create products that satisfy and comply with client values
- ➡ Address new industry trends by inventing forward-looking products

## Our Clients

- ➡ *Maruchan Ramen Noodles* in Irvine, CA
- ➡ *Cathedral of Our Lady of the Angels* in Los Angeles, CA
- ➡ *Caltrans* - in District 12 of California
- ➡ *Chevron* (20 locations) in Southern California
- ➡ *7-Eleven* (3 locations) in Southern California
- ➡ *Costco* in Southern California
- ➡ *International Paper* in Santa Fe Springs, CA
- ➡ *Prime Time International Bell Peppers* in Somis, CA
- ➡ *911 Design* in Montclair, CA
- ➡ *Arizona State University* in Tempe, AZ
- ➡ *Santa Fe Springs Swap Meet* in Santa Fe Springs, CA
- ➡ *World's Tallest Thermometer* in Baker, CA



# Case Study - Cathedral of Our Lady of the Angels



Opened in 2002, the Cathedral of Our Lady of Angels serves as the mother church to four million Catholics in the Archdiocese of Los Angeles. The cathedral is widely known for enshrining the relics of Saint Vibiana and tilma piece of Our Lady of Guadalupe. With the parking garage tubes operating at 24 daily hours, their previous fluorescent T8 tubes burned out quickly, which resulted in monthly ballast and tube maintenance.

To address this concern, Carson Technology recommended installing frosted LED T8 tubes at 3500K for the first and second levels and frosted LED T8 tubes at 4000K for the third level. Used in open fixtures, frosted LED tubes are ideal replacements for fluorescent tubes. The warm-white tubes will be aided by sunlight on the first and second level, while the brighter cool-white tubes will light up the third level.

## Estimated Project Savings

32W Fluorescent



Annual Electricity  
Cost = \$70.08

175% ROI

**Annual Savings of \$26.28**

7 month payback

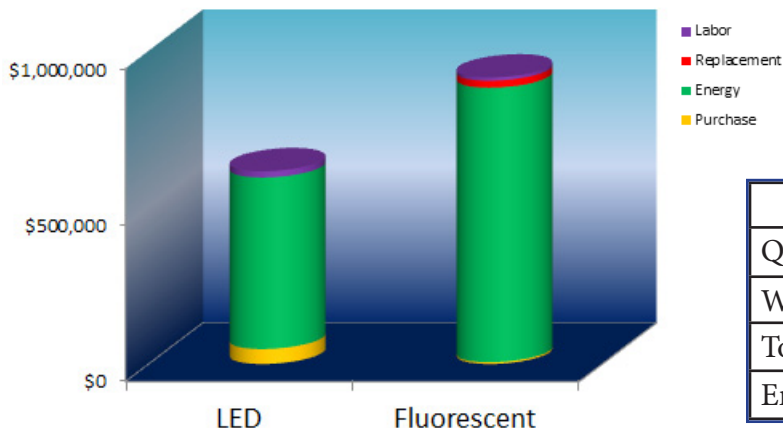
Calculations are based on 8,760 annual hours of operation and \$0.25 average cost per kWh

20W LED



Annual Electricity  
Cost = \$43.80

## Lifetime Costs



Before



After

	Fluorescent	LED
Quantity	2,500	2,500
Watts	32	20
Total Watts	80,000	50,000
Energy Savings	-	37.5%

# Case Study - Costco



Since 1976, Costco has steadily grown to become the second largest retailer in the world. With a total of 674 warehouses in nine countries around the world, Costco is looking to decrease its electricity bill. Operating at 12 daily hours, the previous fluorescent tubes and ballasts burned out on an annual basis, which required maintenance labor.

After surveying Costco's warehouse, Carson Technology identified the meat and deli section as the coolest area in the store. Therefore, Carson recommended installing 8 feet LED vapor tights at 5000K for Costco's meat and deli sections. The frosted, natural-white tubes at 10 feet high will keep workers more attentive without creating a prism and disco light effect.

## Estimated Project Savings

128W Fluorescent



Annual Electricity  
Cost = \$99.90

65% ROI

**Annual Savings of \$44.70**

18 month payback

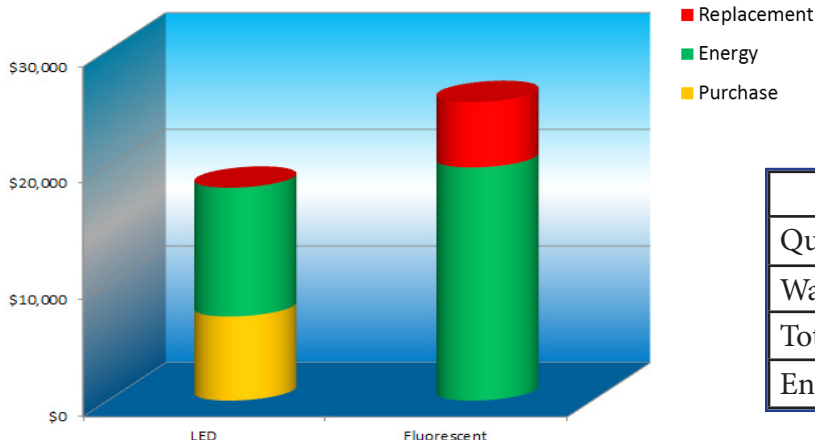
Calculations are based on 5,475 annual hours of operation and \$0.14 average cost per kWh

72W LED



Annual Electricity  
Cost = \$55.20

## Lifetime Costs



	Fluorescent	LED
Quantity	40	40
Watts	128	72
Total Watts	5,120	2,880
Energy Savings	-	43.8%

# Case Study - Chevron



Headquartered in Sam Ramon, Chevron is ranked third in the Fortune 500 list of the top corporations and sixteenth on the Fortune Global 500 list of corporations worldwide.

Starting with the inside of the convenient store, Carson Technology installed clear 4' LED T8 tubes at 5000K into existing 2' x 4' troffers and clear 6' LED T8 tubes at 5000K into coolers. The clear, natural-white tubes attract customers and allow employees to keep a keener eye on customers. For the exterior building facade, Chevron was able to reduce 67% energy by switching from metal halide to LED wall packs. The next phase of the project will be switching to LED under canopies. Altogether, gas station owners have been able to save \$1,000 per month by switching to LED lights.

## Estimated Project Savings

150W Metal Halide



Annual Electricity  
Cost = \$78.80

75% ROI

**Annual Savings of \$52.60**

16 month payback

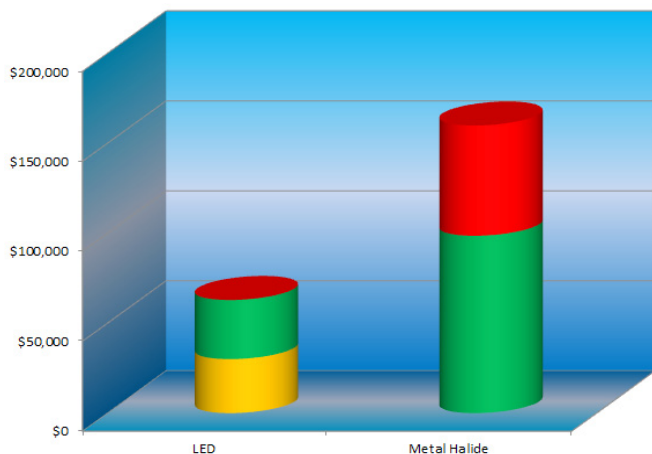
Calculations are based on 4,380 annual hours of operation and \$0.14 average cost per kWh

50W LED

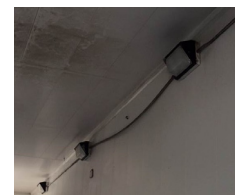
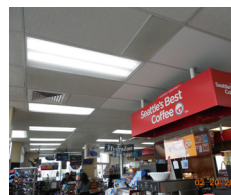


Annual Electricity  
Cost = \$26.30

## Lifetime Costs



■ Replacement  
■ Energy  
■ Purchase



	Metal Halide	LED
Quantity	250	250
Watts	150	50
Total Watts	37,500	12,500
Energy Savings	-	66.7%



# Case Study - 7 Eleven



In 1927, an enterprising Southland Ice Company employee began offering milk, bread, and eggs. These items were sold on Sundays and evenings when grocery stores were closed. Thus, convenience retailing was born. 7-Eleven focuses on meeting the needs of convenience-oriented guests by providing a broad selection of fresh, high-quality products and services at everyday prices.

Through 87 years of business, 7-Eleven is the world's largest convenience store chain with more than 55,800 stores in 16 countries. Offering shoppers 24-hour convenience at seven days a week requires high energy consumption. By installing 2' x 2' LED panels instead of fluorescent troffers, franchise owners are able to payback their investment within 4 months.

## Estimated Project Savings

64W Fluorescent



Annual Electricity  
Cost = \$84.10

370% ROI

**Annual Savings of \$36.80**

**4 month payback**

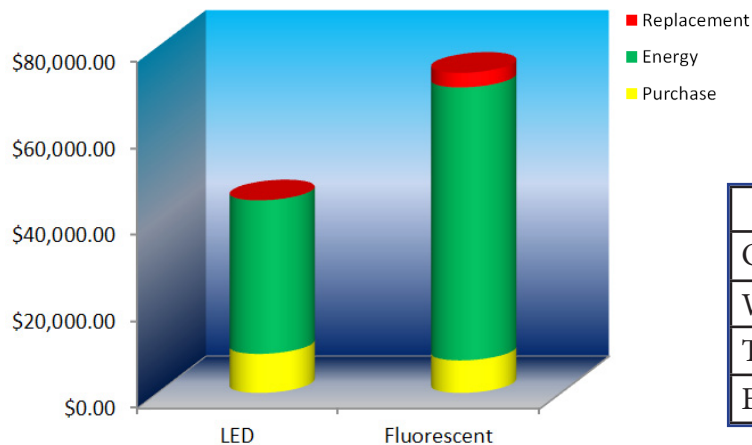
Calculations are based on 8,760 annual hours of operation and \$0.27 average cost per kWh

36W LED



Annual Electricity  
Cost = \$47.30

## Lifetime Costs



	Fluorescent	LED
Quantity	150	150
Watts	64	36
Total Watts	9,600	5,400
Energy Savings	-	44%

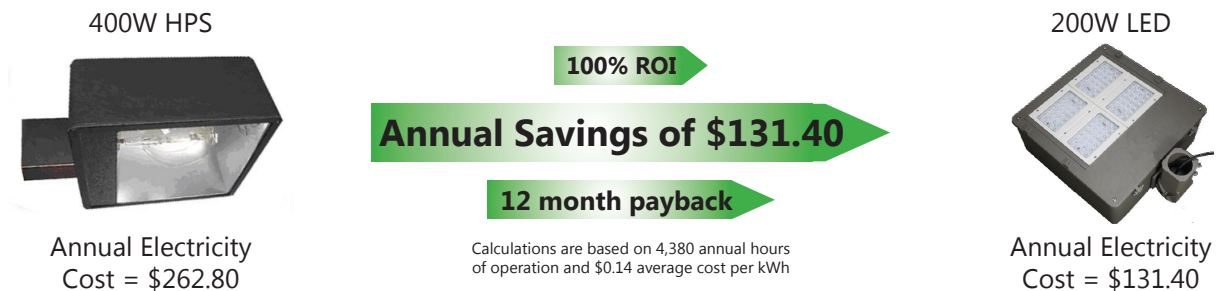
# Case Study - Santa Fe Springs Swap Meet



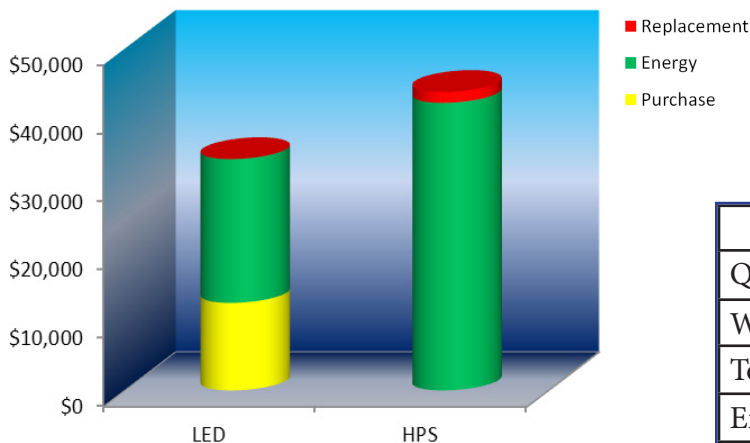
63 years ago in 1948, 18 acres of land were purchased and construction began on what was to be known as the La Mirada Drive-In Theatre. It took 15 years later before the first swap meet saw the light of day. Attendance of more than 700 daily vendors and more than 1,500,000 customers annually has become common throughout the years.

Santa Fe Springs Swap Meet was the first Los Angeles area outdoor/night-time swap meet "under the lights." The 18 acres were lit up by high-pressure sodium shoe boxes, which resulted in high power loads and energy consumption. By switching from HPS to LED shoe boxes, the swap meet was able to decrease the power load as well as save 50% in energy savings.

## Estimated Project Savings



## Lifetime Costs



	HPS	LED
Quantity	32	32
Watts	400	200
Total Watts	12,800	6,400
Energy Savings	-	50%



Carson Technology Co. "Value-Engineered, Factory Direct"

## 4' T5 Tube

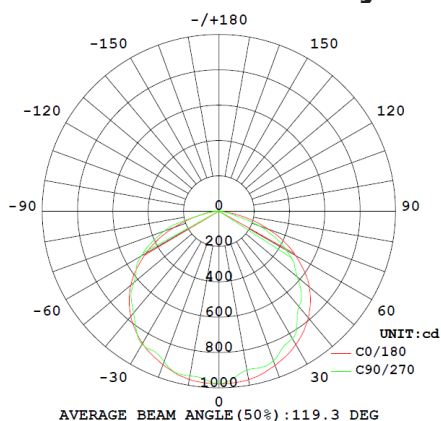
130% ROI

Annual Savings of \$25.20

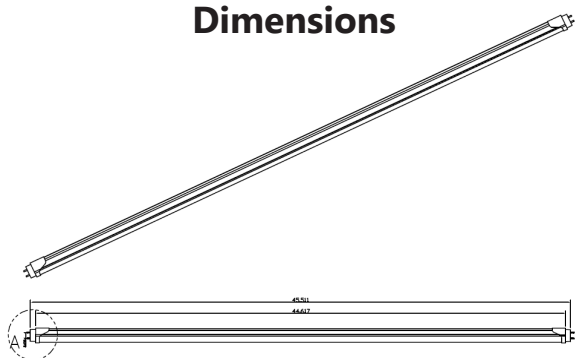
9 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions



### Description

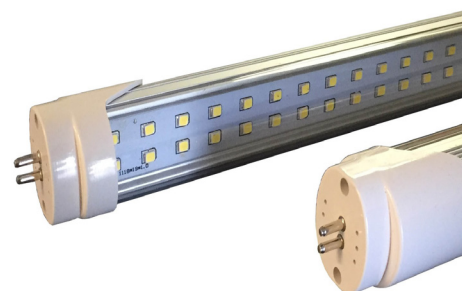
Carson's 4' linear 30W LED T5 tube emits over 2,900 lumens and saves 40% in energy costs when compared to F54 fluorescent tubes. Only available in natural white color temperature, the T8 body and stationary G5 end caps lock into shunted tombstones that run directly off line voltage. Ideal for factories, warehouses, or other applications with high ceilings.

Product #	Watts	Lumens	lm/W
CT-D02030TBN	30	2,922	98.8

ft	3	6	9	12	15
fc	23	5.6	2.5	1.4	0.9

### Key Features

- Uses **Epistar** SMD2835 chip
- Rated for 50,000 hours
- 5 year warranty
- **UL** listing: E350411
- 99 lumens per watt
- Power factor > .97
- LED quantity: 192 chips
- 180° beam angle
- Input voltage: AC 110V-277V
- Lightweight aluminum heat sink
- Frosted or clear polycarbonate lens
- Double-sided G5 power ends insert into shunted tombstones
- Built-in internal driver - bypass external ballast
- Maintains 50°C exterior surface temperature



### Ordering Information

Example: CT-D02030TBN

D

Chip

D - DC

02

Model

02 - Non-dimmable

030

Watts/Size

030 - 30W/4 ft

T

Series

T - T5 Tube

B

Lens

B - Clear

N

Color Temp

N - 5000K

## 2' T8 Tube

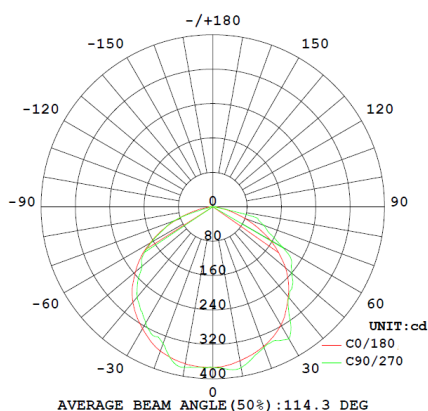
100% ROI

Annual Savings of \$7.40

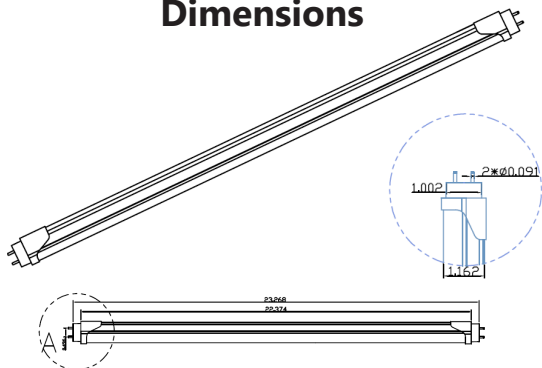
12 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions



### Description

Carson's 2' linear 10W LED T8 tube emits close to 1,000 lumens and saves 40% in energy costs when compared to F17 fluorescent tubes. Available in warm, cool, and natural white color temperatures, the stationary G13 end caps lock into unshunted tombstones that run directly off line voltage. Ideal for offices, warehouses, and parking garages.

Product #	Watts	Lumens	lm/W
CT-D02010TBN	10	966	96.6

ft	3	6	9	12	15
fc	10	2.5	1.1	0.6	0.4

### Key Features

- Uses **Epistar** SMD2835 chip
- Rated for 50,000 hours
- 5 year warranty
- **UL** listing
- 97 lumens per watt
- Power factor > .97
- LED quantity: 72 chips
- 180° beam angle
- Input voltage: AC 110V-277V
- Lightweight aluminum heat sink
- Built-in internal driver - bypass external ballast
- Single-sided G13 power end inserts into unshunted tombstone
- Clear (ideal for troffers) or frosted lens (ideal for open fixtures)
- Maintains 40°C exterior surface temperature



### Ordering Information

Example: CT-D02010TBN

D

Chip

D - DC

02

Model

02 - Non-dimmable

010

Watts/Size

010 - 10W/2 ft

T

Series

T - T8 Tube

B

Lens

B - Clear  
F - Frosted

N

Color Temp

W - 3500K  
C - 4100K  
N - 5000K

## 2' T8 U-Bend

**Ballast  
Compatible**

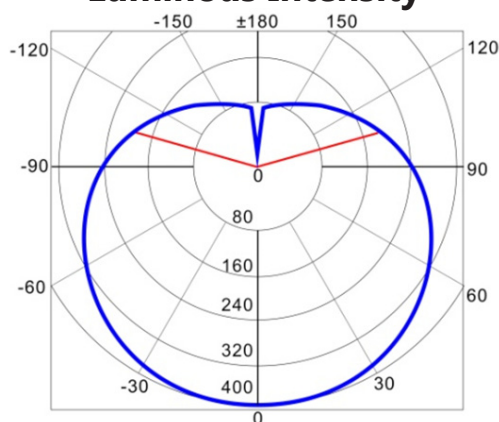
**130% ROI**

**Annual Savings of \$15.80**

**9 month payback**

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions



### Description

Carson's 17W 2' LED U-bend tube emits 2,200 lumens and saves 45% in energy costs when compared to F32 fluorescent tubes. Each tube is compatible with an instant start electronic ballast. Available in cool and natural white color temperatures, the stationary G13 end caps lock into existing tombstones. Ideal for 2' x 2' troffers in offices or medical centers.

Product #	Watts	Lumens	lm/W
DR-T8U-2ft-17W-N	17	2,200	129.4

ft	2	4	6	8	10
fc	169	42	19	11	7

### Key Features

- Uses **Epistar** SMD2835 chip
- Rated for 50,000 hours
- 5 year warranty
- **UL** listing: E472081
- **NSF** certified
- 129 lumens per watt
- Color Rendering Index: 82
- 220° beam angle
- LED quantity: 120 chips
- Input voltage: AC 110V-277V
- Suitable for use in totally enclosed fixtures
- Easy install - plug & play direct replacement
- Compatible with instant start electronic ballasts
- Frosted glass tube enables maximum light diffusion



### Ordering Information

Example: DR-T8U-2ft-17W-N

**DR**

**Type**

**DR** - Direct Replacement

**T8U**

**Shape**

**T8U** - U-Bend

**2ft**

**Length**

**2ft** - 2 feet

**17W**

**Watts**

**17W** - 17 Watts

**N**

**Color Temp**

**C** - 4100K  
**N** - 5000K

## 4' T8 Tube

**Ballast  
Compatible**

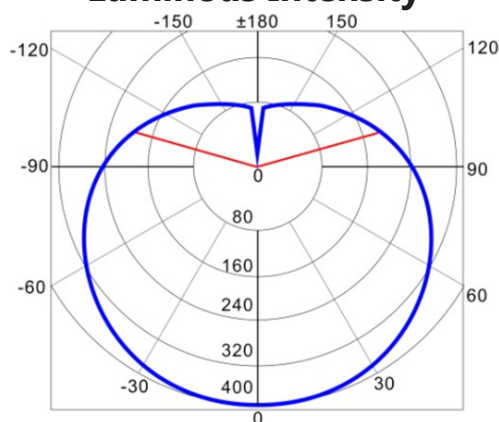
**175% ROI**

**Annual Savings of \$15.80**

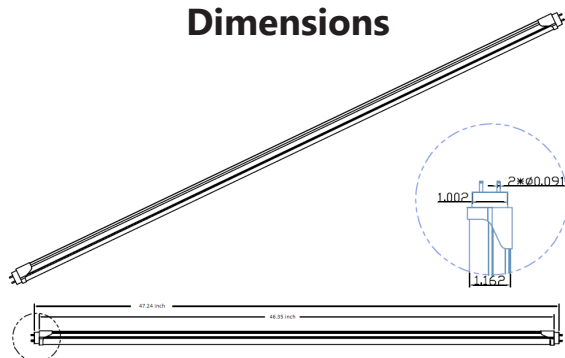
**7 month payback**

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions



### Description

Carson's 4' linear 17W LED T8 tube emits 2,200 lumens and saves 45% in energy costs when compared to F32 fluorescent tubes. Each tube is compatible with an instant start electronic ballast. Available in cool and natural white color temperatures, the stationary G13 end caps lock into existing tombstones. Ideal for offices, warehouses, and parking garages.

Product #	Watts	Lumens	lm/W
DR-T8-4ft-17W-N	17	2,200	129.4

ft	2	4	6	8	10
fc	169	42	19	11	7

### Key Features

- Uses **Epistar** SMD2835 chip
- Rated for 50,000 hours
- 5 year warranty
- **UL** listing: E472081
- **DLC** Qualified Product List
- 129 lumens per watt
- Color Rendering Index: 82
- 220° beam angle
- LED quantity: 120 chips
- Input voltage: AC 110V-277V
- Suitable for use in totally enclosed fixtures
- Easy install - plug & play direct replacement
- Compatible with instant start electronic ballasts
- Frosted glass tube enables maximum light diffusion



### Ordering Information

Example: DR-T8-4ft-17W-N

**DR**

**Type**

**DR** - Direct Replacement

**T8**

**Shape**

**T8** - Linear

**4ft**

**Length**

**4ft** - 4 feet

**17W**

**Watts**

**17W** - 17 Watts

**N**

**Color Temp**

**W** - 3500K  
**C** - 4100K  
**N** - 5000K



## 4' T8 Tube

Dual  
Mode

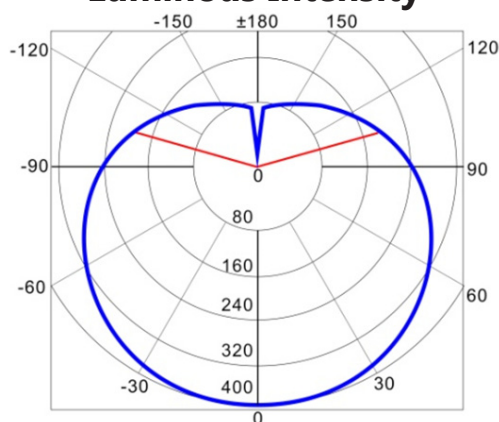
180% ROI

Annual Savings of \$17.90

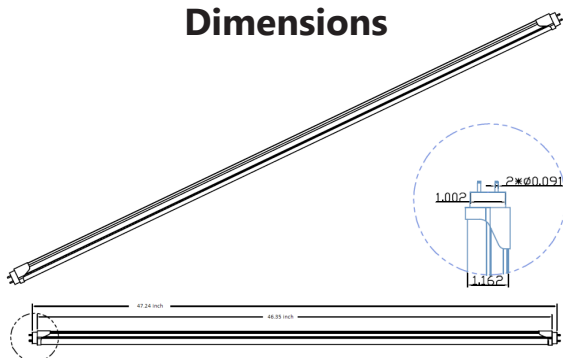
7 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions



### Description

Carson's 4' linear 15W LED T8 tube emits 1,800 lumens and saves 55% in energy costs when compared to F32 fluorescent tubes. Each tube is compatible with an instant start electronic ballast and then can be direct wired after the ballast dies. Available in cool and natural white color temperatures, the dual mode tubes are ideal for offices and parking garages.

Product #	Watts	Lumens	lm/W
DM-T8-4ft-15W-C	15	1,800	120.0

ft	2	4	6	8	10
fc	169	42	19	11	7

### Key Features

- Uses **Epistar** SMD2835 chip
- Rated for 50,000 hours
- 5 year warranty
- **UL** listing: E472082
- **DLC** Qualified Product List
- 120 lumens per watt
- Color Rendering Index: 82
- 220° beam angle
- LED quantity: 120 chips
- Input voltage: AC 110V-277V
- Suitable for use in totally enclosed fixtures
- Easy install - plug & play direct replacement
- Compatible with instant start electronic ballasts
- Frosted glass tube enables maximum light diffusion



### Ordering Information

Example: DM-T8-4ft-15W-C

DM

Type

DM - Dual Mode

T8

Shape

T8 - Linear

4ft

Length

4ft - 4 feet

15W

Watts

15W - 15 Watts

C

Color Temp

C - 4100K  
N - 5000K

## 4' T8 Tube

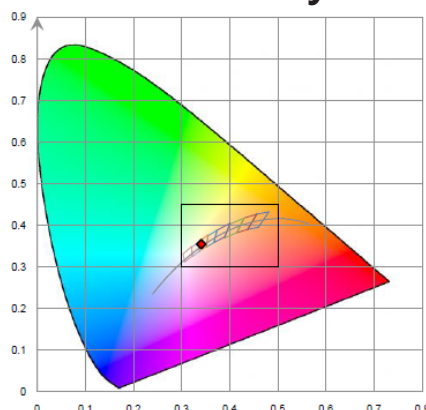
180% ROI

Annual Savings of \$14.70

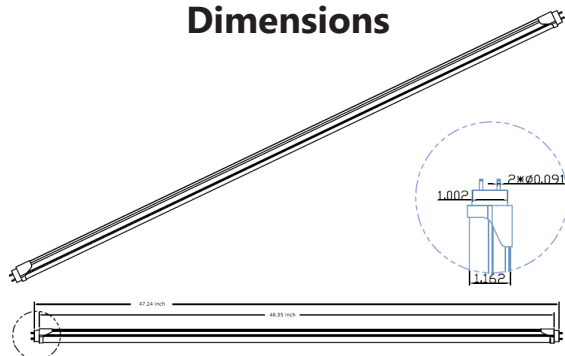
7 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Chromaticity



### Dimensions



### Description

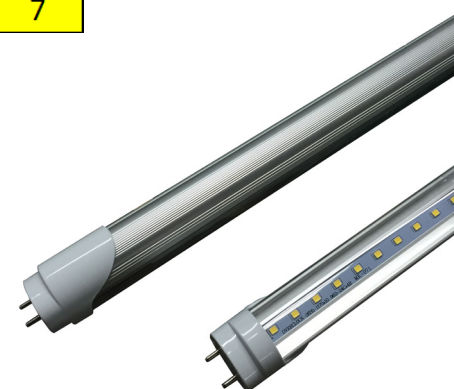
Carson's 4' linear 18W LED T8 tube emits 2,300 lumens and saves 45% in energy costs when compared to F32 fluorescent tubes. Available in warm, cool, and natural white color temperatures, the stationary G13 end caps twist and lock into unshunted tombstones that run directly off line voltage. Perfect for offices, warehouses, and parking garages.

Product #	Watts	Lumens	lm/W
CT-D02018TBN	18	2,346	127.3

ft	2	4	6	8	10
fc	169	42	19	11	7

### Key Features

- Uses **Epistar** SMD2835 chip
- Rated for 50,000 hours
- 5 year warranty
- **UL** listing: E350411
- **DLC** Qualified Product List
- 127 lumens per watt
- Color Rendering Index: 83
- LED quantity: 96 chips
- Input voltage: AC 110V-277V
- Lightweight aluminum heat sink
- Built-in internal driver - bypass external ballast
- **SCR** or **0-10V** dimmable constant current internal driver
- Single-sided G13 power end inserts into unshunted tombstone
- Clear (ideal for troffers) or frosted lens (ideal for open fixtures)



### Ordering Information

Example: CT-D02018TBN

D

Chip

D - DC

02

Model

01 - Dimmable  
02 - Non-dimmable

018

Watts/Size

018 - 18W/4 ft

T

Series

T - T8 Tube

B

Lens

B - Clear  
F - Frosted

N

Color Temp

W - 3500K  
C - 4100K  
N - 5000K  
D - 6500K

## 4' T8 Tube

High  
Output

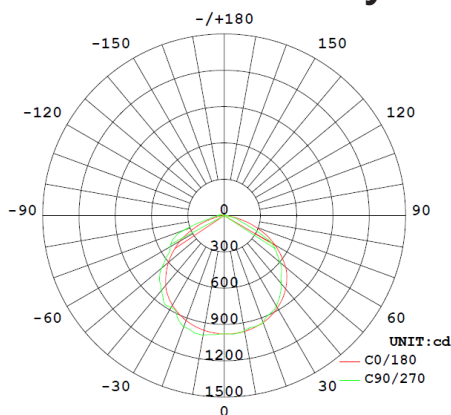
85% ROI

Annual Savings of \$23.10

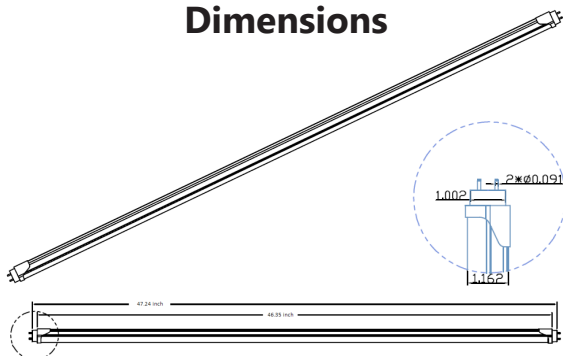
14 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions



### Description

Carson's 4' linear 32W LED T8 tube emits 3,000 lumens and saves 40% in energy costs when compared to F54 fluorescent tubes. Only available in natural white color temperature, the stationary G13 end caps twist and lock into unshunted tombstones that run directly off line voltage. Ideal for factories, warehouses, or other applications with high ceilings.

Product #	Watts	Lumens	lm/W
CT-D02032TBN	32	3,042	96.6

ft	3	6	9	12	15
fc	23	6	2.6	1.5	0.9

### Key Features

- Uses **Epistar** SMD2835 chip
- Rated for 50,000 hours
- 5 year warranty
- **UL** listing: E350411
- 97 lumens per watt
- Power factor > .97
- LED quantity: 192 chips
- Input voltage: AC 110V-277V
- 180° beam angle
- Lightweight aluminum heat sink
- Built-in internal driver - bypass external ballast
- **SCR** or **0-10V** dimmable constant current internal driver
- Single-sided G13 power end inserts into unshunted tombstone
- Clear (ideal for troffers) or frosted lens (ideal for open fixtures)



### Ordering Information

Example: CT-D02032TBN

D

Chip

D - DC

02

Model

01 - Dimmable  
02 - Non-dimmable

032

Watts/Size

032 - 32W/4 ft

T

Series

T - T8 Tube

B

Lens

B - Clear  
F - Frosted

N

Color Temp

N - 5000K

## 6' T8 Tube

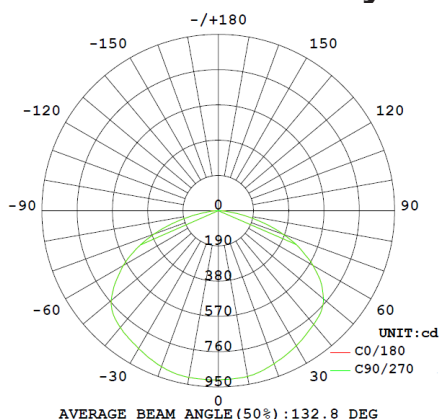
205% ROI

Annual Savings of \$41.00

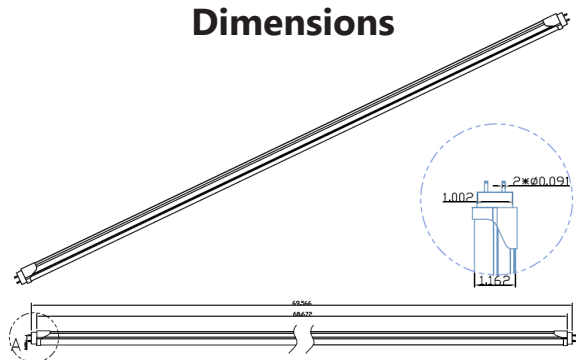
6 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions



### Description

Carson's 6' linear 30W LED T8 tube emits 3,200 lumens and saves 55% in energy costs when compared to F70 fluorescent tubes. Only available in natural white color temperature, the stationary G13 end caps twist and lock into unshunted tombstones that run directly off line voltage. Commonly used in refrigeration coolers.

Product #	Watts	Lumens	lm/W
CT-D02031TBN	30	3,262	107.9

ft	3	6	9	12	15
fc	15	4	2	1	0.6

### Key Features

- Uses **Epistar** SMD2835 chip
- Rated for 50,000 hours
- 5 year warranty
- 108 lumens per watt
- Power factor > .97
- 180° beam angle
- LED quantity: 192 chips
- Input voltage: AC 110V-277V
- End to end light spread
- Lightweight aluminum heat sink
- Built-in internal driver - bypass external ballast
- Single-sided G13 power end inserts into unshunted tombstone
- Clear (ideal for troffers) or frosted lens (ideal for open fixtures)
- Maintains 40°C exterior surface temperature



### Ordering Information

Example: CT-D02031TBN

D

Chip

D - DC

02

Model

02 - Non-dimmable

031

Watts/Size

031 - 31W/6 ft

T

Series

T - T8 Tube

B

Lens

B - Clear

N

Color Temp

N - 5000K

## 8' T8 Tube

**170% ROI**

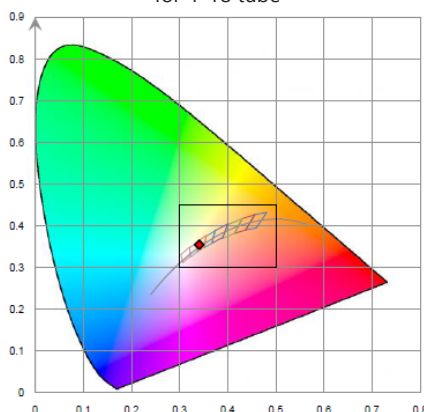
**Annual Savings of \$41.00**

**7 month payback**

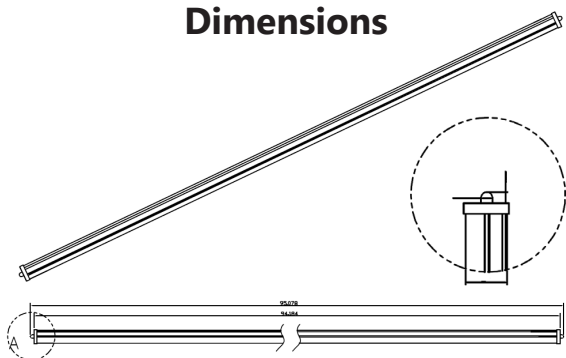
Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Chromaticity

\*for 4' T8 tube



### Dimensions



### Description

Carson's 8' linear 36W LED T8 tube emits 3,500 lumens and saves 50% in energy costs when compared to F96 fluorescent tubes. Available in warm, cool, and natural white color temperatures, the single pin end caps spring into shunted tombstones that run directly off line voltage. Ideal for applications such as plants, warehouses, or factories.

Product #	Watts	Lumens	lm/W
CT-D02036TBN	36	3,478	96.6

### Key Features

- Uses **Epistar** SMD2835 chip
- Rated for 50,000 hours
- 5 year warranty
- **UL** listing: E350411
- 97 lumens per watt
- Power factor > .97
- LED quantity: 192 chips
- Input voltage: AC 110V-277V
- 180° beam angle
- Aluminum heat sink prevents mid-point sagging
- Built-in internal driver - bypass external ballast
- Double-sided single pin Fa8 power ends
- Frosted or clear polycarbonate lens
- Maintains 40°C exterior surface temperature



### Ordering Information

Example: CT-D02036TBN

**D**

**Chip**

**D** - DC

**02**

**Model**

**02** - Non-dimmable

**036**

**Watts/Size**

**036** - 36W/8 ft

**T**

**Series**

**T** - T8 Tube

**B**

**Lens**

**B** - Clear  
**F** - Frosted

**N**

**Color Temp**

**W** - 3500K  
**C** - 4100K  
**N** - 5000K



## 3' T12 Tube

80% ROI

Annual Savings of \$28.40

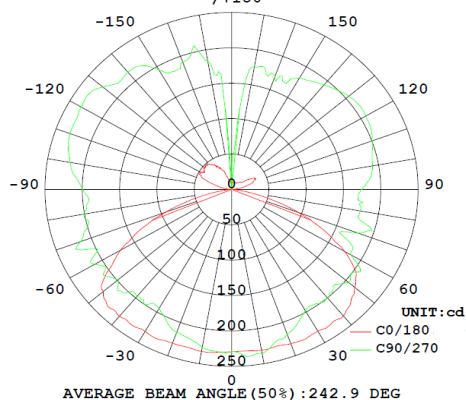
15 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

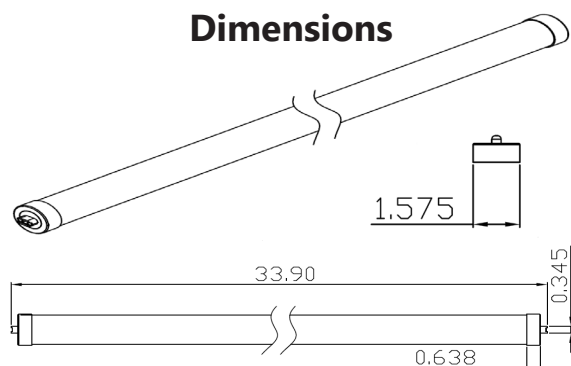
### Luminous Intensity

\*for 4' T12 tube

-/+180



### Dimensions



### Description

Carson's 3' linear 18W LED T12 tube emits 1,600 lumens and saves 60% in energy costs when compared to F36 fluorescent tubes. Triangular heat sink offers 360° illumination, which eliminates shadows on single or double sided sign boxes. The stationary high output R17d end caps are ideal for outdoor sign boxes on buildings or street signs.

Product #	Watts	Lumens	lm/W
CT-D12018TRN	18	1,575	87.5

### Key Features

- Uses **Epistar** SMD2835 chip
- Rated for 50,000 hours
- 5 year warranty
- 88 lumens per watt
- Power factor > .97
- 360° beam angle
- LED quantity: 144 chips
- Input voltage: AC 110V-277V
- Silicone seals for outdoor sign market
- Triangular aluminum heat sink offers 360° illumination
- Built-in internal driver - bypass external ballast
- Single-sided recessed double contact R17d power end
- Clear polycarbonate lens offer maximum lumen output
- Maintains 40°C exterior surface temperature



### Ordering Information

Example: CT-D12018TRN

D

12

018

T

R

N

Chip

Model

Watts/Size

Series

Connection

Color Temp

D - DC

12 - 360° Tube

018 - 18W/3 ft

T - T12 Tube

R - High Output  
(Recessed DC)

N - 5000K

## 4' T12 Tube

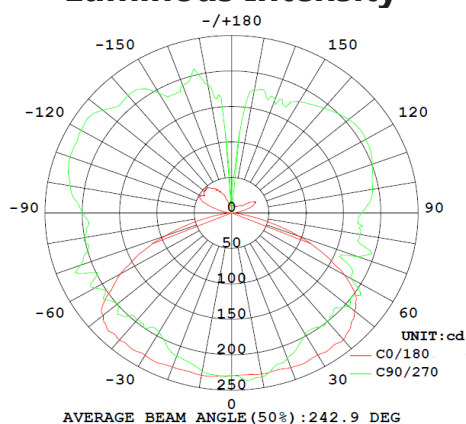
95% ROI

Annual Savings of \$37.80

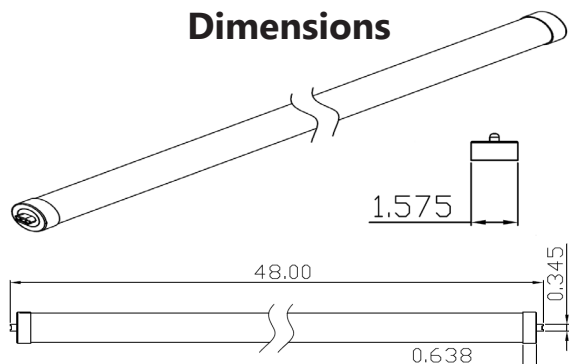
13 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions



### Description

Carson's 4' linear 25W LED T12 tube emits 2,200 lumens and saves 60% in energy costs when compared to F48 fluorescent tubes. Triangular heat sink offers 360° illumination, which eliminates shadows on single or double sided sign boxes. The stationary high output R17d end caps are ideal for outdoor sign boxes on buildings or street signs.

Product #	Watts	Lumens	lm/W
CT-D12024TRN	25	2,177	87.5

ft	3	6	9	12	15
fc	3.8	1	0.4	0.2	0.15

### Key Features

- Uses **Epistar** SMD2835 chip
- Rated for 50,000 hours
- 5 year warranty
- 88 lumens per watt
- Power factor > .97
- 360° beam angle
- LED quantity: 180 chips
- Input voltage: AC 110V-277V
- Silicone seals for outdoor sign market
- Triangular aluminum heat sink offers 360° illumination
- Built-in internal driver - bypass external ballast
- Single-sided recessed double contact R17d power end
- Clear polycarbonate lens offer maximum lumen output
- Maintains 40°C exterior surface temperature



### Ordering Information

Example: CT-D12024TRN

D

12

024

T

R

N

Chip

Model

Watts/Size

Series

Connection

Color Temp

D - DC

12 - 360° Tube

024 - 25W/4 ft

T - T12 Tube

R - High Output  
(Recessed DC)

N - 5000K

## 5' T12 Tube

105% ROI

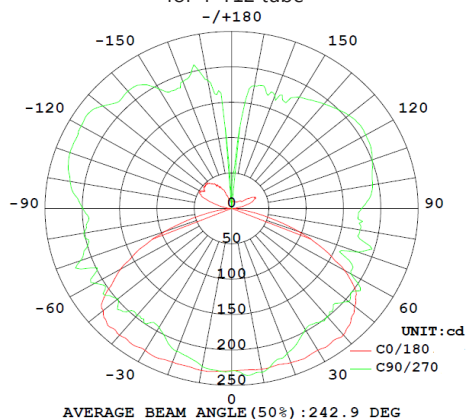
Annual Savings of \$47.30

11 month payback

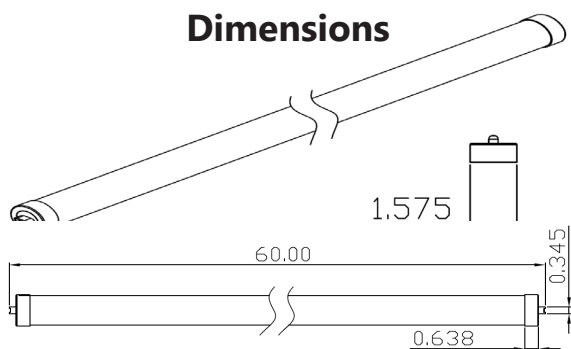
Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity

\*for 4' T12 tube



### Dimensions



### Description

Carson's 5' linear 30W LED T12 tube emits 2,600 lumens and saves 60% in energy costs when compared to F60 fluorescent tubes. Triangular heat sink offers 360° illumination, which eliminates shadows on single or double sided sign boxes. The stationary high output R17d end caps are ideal for outdoor sign boxes on buildings or street signs.

Product #	Watts	Lumens	lm/W
CT-D12030TRN	30	2,625	87.5

### Key Features

- Uses **Epistar** SMD2835 chip
- Rated for 50,000 hours
- 5 year warranty
- 88 lumens per watt
- Power factor > .97
- 360° beam angle
- LED quantity: 216 chips
- Input voltage: AC 110V-277V
- Silicone seals for outdoor sign market
- Triangular aluminum heat sink offers 360° illumination
- Built-in internal driver - bypass external ballast
- Single-sided recessed double contact R17d power end
- Clear polycarbonate lens offer maximum lumen output
- Maintains 40°C exterior surface temperature



### Ordering Information

Example: CT-D12030TRN

D

12

030

T

R

N

Chip

Model

Watts/Size

Series

Connection

Color Temp

D - DC

12 - 360° Tube

030 - 30W/5 ft

T - T12 Tube

R - High Output  
(Recessed DC)

N - 5000K

## 6' T12 Tube

105% ROI

Annual Savings of \$51.50

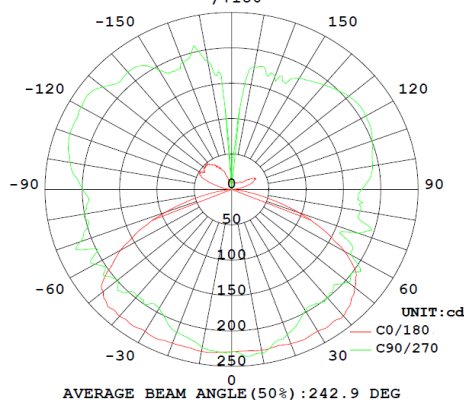
11 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

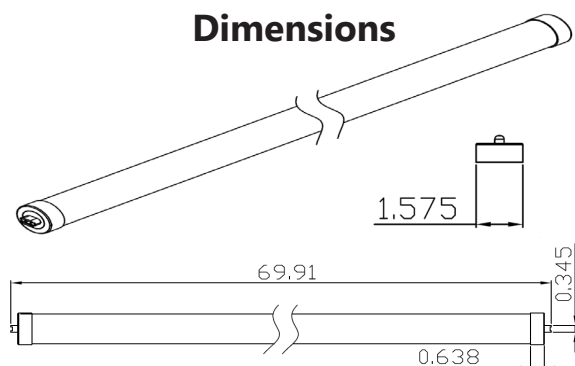
### Luminous Intensity

\*for 4' T12 tube

-/+180



### Dimensions



### Description

Carson's 6' linear 36W LED T12 tube emits 3,200 lumens and saves 55% in energy costs when compared to F72 fluorescent tubes. Triangular heat sink offers 360° illumination, which eliminates shadows on single or double sided sign boxes. The stationary high output R17d or single pin Fa8 end caps are ideal for outdoor sign boxes on buildings or street signs.

Product #	Watts	Lumens	lm/W
CT-D12036TSN	36	3,150	87.5

### Key Features

- Uses **Epistar** SMD2835 chip
- Rated for 50,000 hours
- 5 year warranty
- Pending **UL** listing
- 88 lumens per watt
- Power factor > .97
- 360° beam angle
- LED quantity: 192 chips
- Input voltage: AC 110V-277V
- Triangular aluminum heat sink offers 360° illumination
- Built-in internal driver for HO and external driver for single pin
- Single-sided recessed double contact R17d power end or double-sided single pin Fa8 power ends
- Silicone seals for outdoor sign market



### Ordering Information

Example: CT-D12036TSN

**D**

**12**

**036**

**T**

**S**

**N**

**Chip**

**Model**

**Watts/Size**

**Series**

**Connection**

**Color Temp**

**D** - DC

**12** - 360° Tube

**036** - 36W/6 ft

**T** - T12 Tube

**S** - Single pin  
**R** - High Output  
(Recessed DC)

**N** - 5000K

## 7' T12 Tube

120% ROI

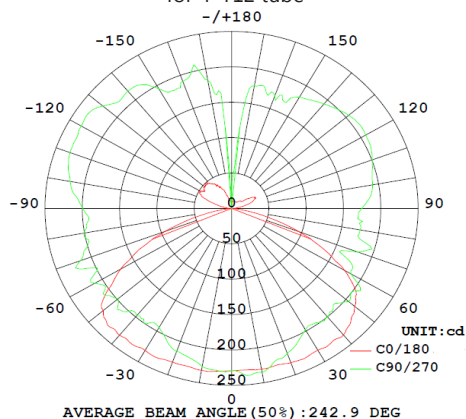
Annual Savings of \$61.00

10 month payback

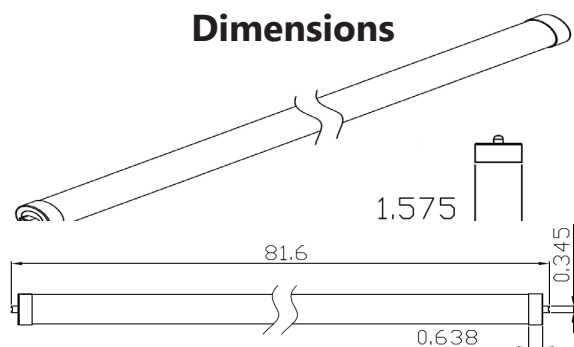
Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity

\*for 4' T12 tube



### Dimensions



### Description

Carson's 7' linear 42W LED T12 tube emits 3,700 lumens and saves 60% in energy costs when compared to F84 fluorescent tubes. Triangular heat sink offers 360° illumination, which eliminates shadows on single or double sided sign boxes. The stationary high output R17d end caps are ideal for outdoor sign boxes on buildings or street signs.

Product #	Watts	Lumens	lm/W
CT-D12042TRN	42	3,675	87.5

### Key Features

- Uses **Epistar** SMD2835 chip
- Rated for 50,000 hours
- 5 year warranty
- 88 lumens per watt
- Power factor > .97
- 360° beam angle
- LED quantity: 288 chips
- Input voltage: AC 110V-277V
- Silicone seals for outdoor sign market
- Triangular aluminum heat sink offers 360° illumination
- Single-sided recessed double contact R17d power end
- Clear polycarbonate lens offer maximum lumen output
- Built-in internal driver - bypass external ballast
- Maintains 40°C exterior surface temperature



### Ordering Information

Example: CT-D12042TRN

D

12

042

T

R

N

Chip

Model

Watts/Size

Series

Connection

Color Temp

D - DC

12 - 360° Tube

042 - 42W/7 ft

T - T12 Tube

R - High Output  
(Recessed DC)

N - 5000K



## 8' T12 Tube

120% ROI

Annual Savings of \$65.20

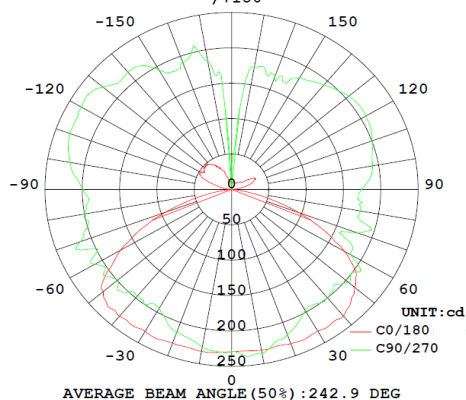
10 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

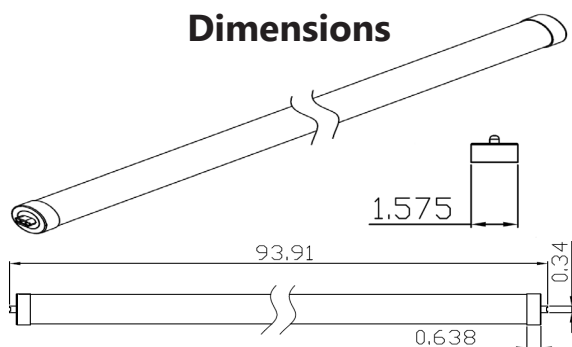
### Luminous Intensity

\*for 4' T12 tube

-/+180



### Dimensions



### Description

Carson's 8' linear 48W LED T12 tube emits 4,200 lumens and saves 55% in energy costs when compared to F96 fluorescent tubes. Triangular heat sink offers 360° illumination, which eliminates shadows on single or double sided sign boxes. The stationary high output R17d or single pin Fa8 end caps are ideal for outdoor sign boxes on buildings or street signs.

Product #	Watts	Lumens	lm/W
CT-D12048TSN	48	4,200	87.5

### Key Features

- Uses **Epistar** SMD2835 chip
- Rated for 50,000 hours
- 5 year warranty
- Pending **UL** listing
- 88 lumens per watt
- Power factor > .97
- 360° beam angle
- LED quantity: 288 chips
- Input voltage: AC 110V-277V
- Triangular aluminum heat sink offers 360° illumination
- Built-in internal driver for HO and external driver for single pin
- Single-sided recessed double contact R17d power end or double-sided Fa8 power ends
- Silicone seals for outdoor sign market



### Ordering Information

Example: CT-D12048TSN

**D**

**12**

**048**

**T**

**S**

**N**

**Chip**

**Model**

**Watts/Size**

**Series**

**Connection**

**Color Temp**

**D** - DC

**12** - 360° Tube

**048** - 48W/8 ft

**T** - T12 Tube

**S** - Single pin  
**R** - High Output  
(Recessed DC)

**N** - 5000K

## Downlight

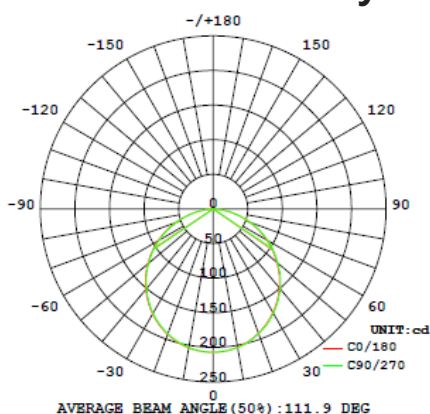
90% ROI

Annual Savings of \$8.40

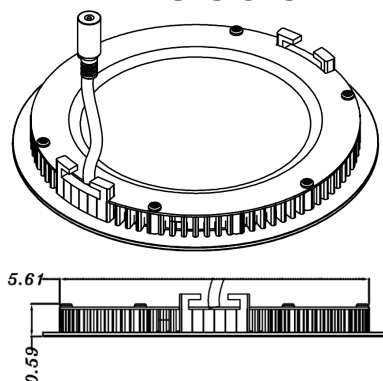
13 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions



### Description

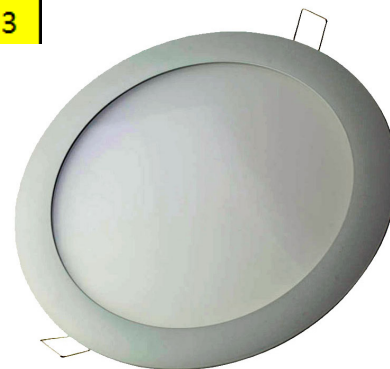
Carson's 10W circular 6" LED downlight emits 600 lumens and is available in warm and natural white color temperatures. The aesthetically pleasing replacements for CFL bulbs retrofit into existing IC or non-IC six-inch recessed can fixtures. Ideal for use in both residential and commercial new construction and retrofit applications.

Product #	Watts	Lumens	lm/W
CT-D06010RCN	10	589	58.3

ft	3	6	9	12	15
fc	6	1.4	0.6	0.4	0.3

### Key Features

- Uses **Epistar** SMD2835 chip
- Rated for 50,000 hours
- 5 year warranty
- **UL** listing: E350414
- 58 lumens per watt
- Power factor > .98
- LED quantity: 72 chips
- Input voltage: AC 110V-277V (non-dimmable)
- **SCR** (120V) dimmable constant current internal driver
- Uses orange quick connect to comply with Title 24
- Retrofits into 6-inch housing fixture with E26 base
- Spring clips lock downlight into recessed can
- Powered by edge-lit flat panel technology
- Acrylic lens emits uniform and even light distribution



### Ordering Information

Example: CT-D06010RCN

D

Chip

D - DC

06

Dimmable

02 - Non-dimmable  
06 - Dimmable

010

Watts/Size

010 - 10W/6"

R

Series

R - Downlight

C

Base

C - E26

N

Color Temp

W - 3500K  
N - 5000K

## 4" x 12" Panel

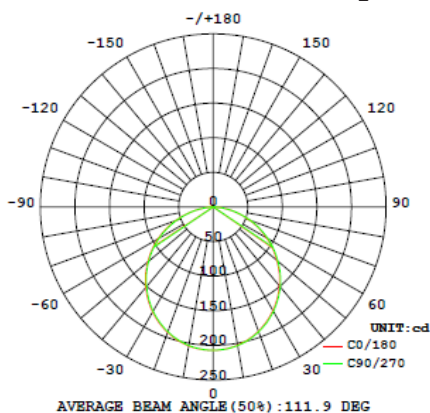
100% ROI

Annual Savings of \$14.70

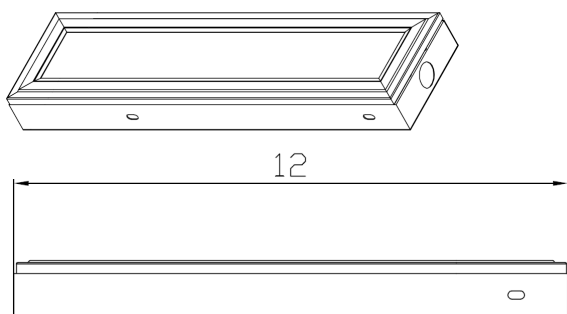
12 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions



### Description

Carson's 4" x 12" 12W LED flat panels are aesthetic alternatives to a 2-lamp T5 linear fluorescent strip, which can be used as an under cabinet backlight. Powered by edge-lit technology, the natural white color temperature panel offers a sleek and slim profile solution. Target applications also include hotel guest rooms or task lighting.

Product #	Watts	Lumens	lm/W
CT-D02012PLN	12	965	80.4

### Key Features

- Uses **Epistar** SMD2835 chip
- Rated for 50,000 hours
- 5 year warranty
- 80 lumens per watt
- Power factor > .99
- LED quantity: 32 chips
- Input voltage: AC 110V-277V
- Silver color trim
- Mounting: 4 triangular hooks
- Slim profile offers aesthetic and flush finish
- High power factor, low THD internal driver
- High-transmission acrylic lens emits uniform light pattern
- Aluminum housing provides heat sink and thermal control
- Maintains 50°C exterior surface temperature



### Ordering Information

Example: CT-D02012PLN

D

Chip

D - DC

02

Dimmable

02 - Non-dimmable

012

Watts/Size

012 - 12W/4" x 12"

P

Series

P - Panel

L

Lens

L - Acrylic

N

Color Temp

N - 5000K

## 2' x 2' Panel

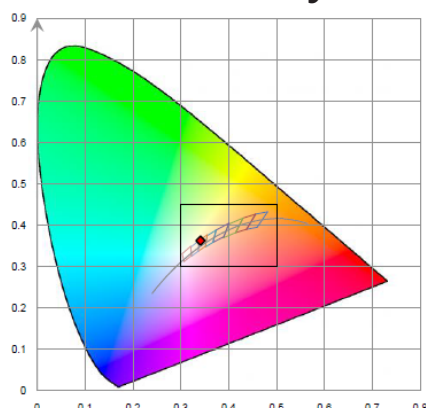
150% ROI

Annual Savings of \$29.40

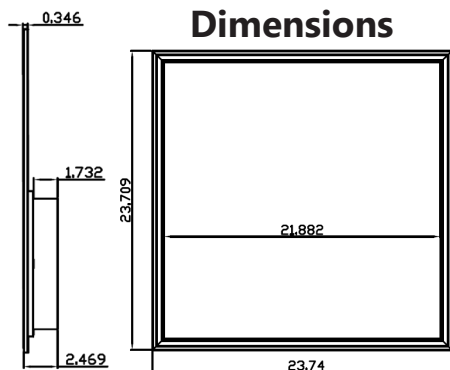
8 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Chromaticity



### Dimensions



### Description

Carson's 36W 2' x 2' LED panels emit 3,300 lumens and have color-temperature switching capability. Powered by edge-lit technology, the flat panels are aesthetic alternatives to traditional fluorescent fixtures in drop ceilings. Compatible with battery back-ups or occupancy sensors for target applications such as offices, schools or hospitals.

Product #	Watts	Lumens	lm/W
CT-D01036PLT	36	3,303	91.9

ft	3	6	9	12	15
fc	30	7	3	1.8	1

### Key Features

- Uses **Epistar** SMD2835 chip
- Rated for 50,000 hours
- 5 year warranty
- **UL** listing: E350414
- **DLC** Qualified Product List
- 92 lumens per watt
- Color Rendering Index: 81
- LED quantity: 96 chips
- White color trim
- Input voltage: AC 110V-277V
- 0-10V dimmable constant current external driver
- Color-temperature switching via proprietary technology
- Triangular hooks for earthquake precaution
- High-transmission acrylic lens emits uniform light pattern



### Ordering Information

Example: CT-D01036PLT

D

Chip

D - DC

01

Dimmable

01 - Dimmable  
02 - Non-dimmable

036

Watts/Size

036 - 36W/2' x 2'

P

Series

P - Panel

L

Lens

L - Acrylic

T

Color Temp

W - 3500K  
C - 4100K  
N - 5000K  
T - 3K, 4K, 5K



## 1' x 4' Panel

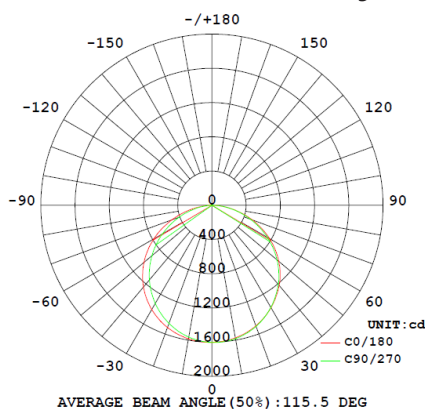
125% ROI

Annual Savings of \$56.80

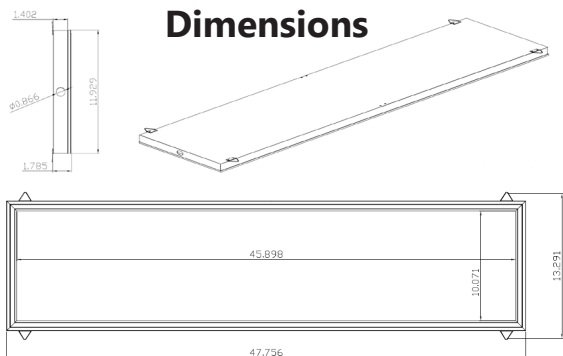
9 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions



### Description

Carson's 42W 1' x 4' LED panels emit 3,000 lumens and are available in three color temperatures with 0-10V dimming capability. Powered by edge-lit technology, the flat panels are aesthetic alternatives to traditional fluorescent fixtures in drop ceilings. Compatible with battery back-ups or occupancy sensors for target applications such as offices or hospitals.

Product #	Watts	Lumens	lm/W
CT-D02042PLN	42	3,007	71.6

ft	3	6	9	12	15
fc	31	8	3	2	1

### Key Features

- Uses **Epistar** SMD2835 chip
- Rated for 50,000 hours
- 5 year warranty
- 72 lumens per watt
- Power factor > .99
- LED quantity: 140 chips
- White color trim
- Triangular hooks for earthquake precaution
- Input voltage: AC 110V-277V
- 0-10V dimmable constant current external driver
- 1/2" knockouts on junction box for conduit electrical feed
- Aluminum trim serves as heat sink and thermal control
- High-transmission acrylic lens emits uniform light pattern
- Maintains 40°C exterior surface temperature



### Ordering Information

Example: CT-D02042PLN

D

Chip

D - DC

02

Dimmable

01 - Dimmable  
02 - Non-dimmable

042

Watts/Size

042 - 42W/1' x 4'

P

Series

P - Panel

L

Lens

L - Acrylic

N

Color Temp

W - 3500K  
C - 4100K  
N - 5000K

## 2' x 4' Panel

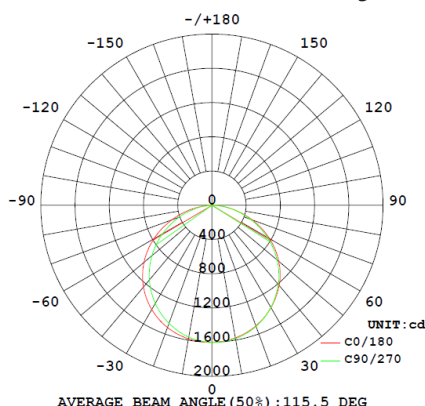
150% ROI

Annual Savings of \$58.90

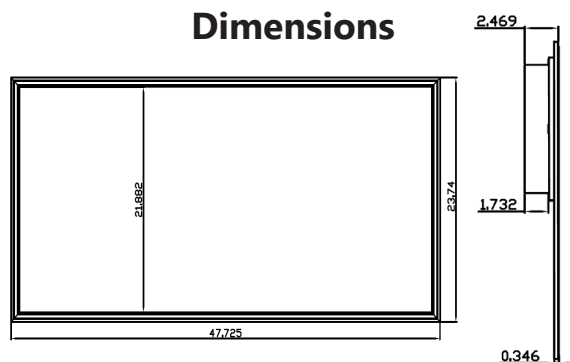
8 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions



### Description

Carson's 72W 2' x 4' LED panels emit 4,800 lumens and are available in three color temperatures with 0-10V dimming capability. Powered by edge-lit technology, the flat panels are aesthetic alternatives to traditional fluorescent fixtures in drop ceilings. Compatible with battery back-ups or occupancy sensors for target applications such as offices or schools.

Product #	Watts	Lumens	lm/W
CT-D01072PLN	72	6,494	90.2

ft	3	6	9	12	15
fc	41	10	5	3	2

### Key Features

- Uses **Epistar** SMD2835 chip
- Rated for 50,000 hours
- 5 year warranty
- **UL** listing: 350414
- Pending **DLC** Qualified Product List
- 90 lumens per watt
- LED quantity: 192 chips
- White color trim
- Input voltage: AC 110V-277V
- 0-10V dimmable constant current external driver
- Triangular hooks for earthquake precaution
- 1/2" knockouts on junction box for conduit electrical feed
- Aluminum trim serves as heat sink and thermal control
- High-transmission acrylic lens emits uniform light pattern



### Ordering Information

Example: CT-D01072PLN

D

Chip

D - DC

01

Dimmable

01 - Dimmable  
02 - Non-dimmable

072

Watts/Size

072 - 72W/2' x 4'

P

Series

P - Panel

L

Lens

L - Acrylic

N

Color Temp

W - 3500K  
C - 4100K  
N - 5000K

## 4' Wrap Around

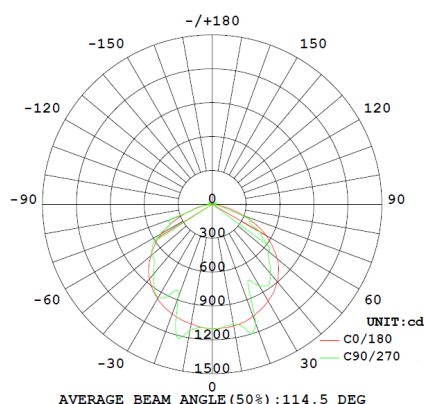
150% ROI

Annual Savings of \$29.40

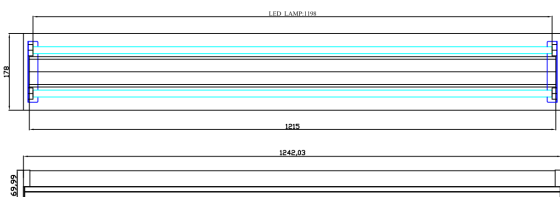
8 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions



### Description

Carson's 4' linear 36W LED 2-lamp wrap around fixture delivers general ambient lighting for ceiling applications. Compatible with occupancy sensors, the surface-mounted fixture has a metal housing with plastic end caps and acrylic diffuser. Ideal to replace F32 fluorescent wrap arounds in hallways, offices, and utility work areas.

Product #	Watts	Lumens	lm/W
CT-D02036ABN	35	3,186	90.4

ft	3	6	9	12	15
fc	35	8.9	4	2.2	1.4

### Key Features

- Uses **Epistar** SMD2835 chip
- Rated for 50,000 hours
- 5 year warranty
- **UL** listing
- 90 lumens per watt
- LED quantity: 192 chips
- Input voltage: AC 110V-277V
- Surface mount ceiling application
- Metal housing with plastic end caps
- Acrylic diffuser provides maximum light output
- Built-in internal driver - bypass external ballast
- Single-sided G13 power end inserts into unshunted tombstone
- 1/2" knockout for conduit electrical feed
- Compatible with occupancy sensor



### Ordering Information

Example: CT-D02036ABN

D

Chip

D - DC

02

Model

01 - Dimmable  
02 - Non-dimmable

036

Watts/Size

036 - 35W/4 ft

A

Series

A - Wrap Around

B

Lens

B - Clear  
F - Frosted

N

Color Temp

W - 3500K  
C - 4100K  
N - 5000K

## 4' Wrap Around

High  
Output

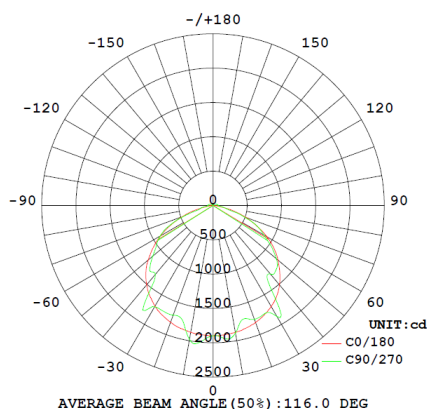
160% ROI

Annual Savings of \$65.20

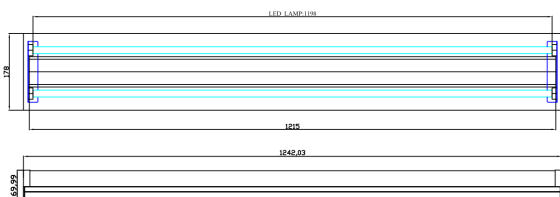
7 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions



### Description

Carson's 4' linear 62W LED 2-lamp wrap around fixture delivers general ambient lighting for ceiling applications. Compatible with occupancy sensors, the surface-mounted fixture has a metal housing with plastic end caps and acrylic diffuser. Ideal to replace F54 fluorescent wrap arounds in hallways, offices, and utility work areas.

Product #	Watts	Lumens	lm/W
CT-D02064ABN	62	5,694	91.3

ft	3	6	9	12	15
fc	41	10	5	3	2

### Key Features

- Uses **Epistar** SMD2835 chip
- Rated for 50,000 hours
- 5 year warranty
- **UL** listing
- 90 lumens per watt
- LED quantity: 384 chips
- Input voltage: AC 110V-277V
- Surface mount ceiling application
- Metal housing with plastic end caps
- Acrylic diffuser provides maximum light output
- Built-in internal driver - bypass external ballast
- Single-sided G13 power end inserts into unshunted tombstone
- 1/2" knockout for conduit electrical feed
- Compatible with occupancy sensor



### Ordering Information

Example: CT-D02064ABN

D

Chip

D - DC

02

Model

01 - Dimmable  
02 - Non-dimmable

064

Watts/Size

064 - 62W/4 ft

A

Series

A - Wrap Around

B

Lens

B - Clear  
F - Frosted

N

Color Temp

N - 5000K



## 4' Wrap Around

Curved

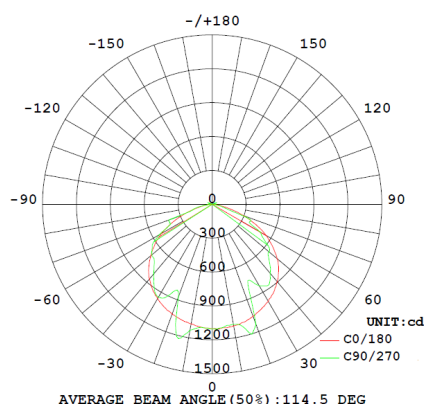
120% ROI

Annual Savings of \$29.40

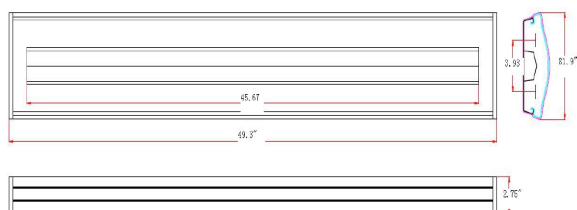
10 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions



### Description

Carson's 4' linear 36W LED 2-lamp curved wrap around fixture delivers general ambient lighting for ceiling applications. Compatible with occupancy sensors, the surface-mounted fixture has a metal housing with plastic end caps and acrylic diffuser. Ideal to replace F32 fluorescent wrap arounds in hallways, offices, and utility work areas.

Product #	Watts	Lumens	lm/W
CT-D02136ABN	36	2,970	82.8

ft	3	6	9	12	15
fc	35	8.9	4	2.2	1.4

### Key Features

- Uses **Epistar** SMD2835 chip
- Rated for 50,000 hours
- 5 year warranty
- **UL** listing
- 83 lumens per watt
- LED quantity: 192 chips
- Input voltage: AC 110V-277V
- Surface mount ceiling application
- Metal housing with plastic end caps
- Acrylic diffuser provides maximum light output
- Built-in internal driver - bypass external ballast
- Single-sided G13 power end inserts into unshunted tombstone
- 1/2" knockout for conduit electrical feed
- Compatible with occupancy sensor



### Ordering Information

Example: CT-D02136ABN

**D**

**Chip**

**D** - DC

**02**

**Model**

**01** - Dimmable  
**02** - Non-dimmable

**136**

**Watts/Size**

**136** - 36W/4 ft curved

**A**

**Series**

**A** - Wrap Around

**B**

**Lens**

**B** - Clear  
**F** - Frosted

**N**

**Color Temp**

**W** - 3500K  
**C** - 4100K  
**N** - 5000K

## 4' Wrap Around

Curved  
High  
Output

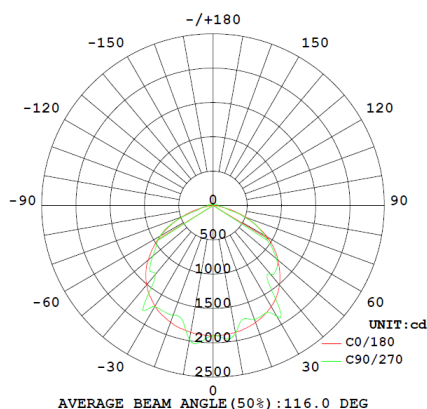
145% ROI

Annual Savings of \$65.20

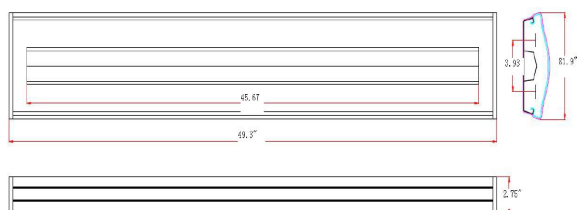
8 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions



### Description

Carson's 4' linear 62W LED 2-lamp curved wrap around fixture delivers general ambient lighting for ceiling applications. Compatible with occupancy sensors, the surface-mounted fixture has a metal housing with plastic end caps and acrylic diffuser. Ideal to replace F54 fluorescent wrap arounds in hallways, offices, and utility work areas.

Product #	Watts	Lumens	lm/W
CT-D02164ABN	62	5,812	93.5

ft	3	6	9	12	15
fc	41	10	5	3	2

### Key Features

- Uses **Epistar** SMD2835 chip
- Rated for 50,000 hours
- 5 year warranty
- **UL** listing
- 94 lumens per watt
- LED quantity: 384 chips
- Input voltage: AC 110V-277V
- Surface mount ceiling application
- Metal housing with plastic end caps
- Acrylic diffuser provides maximum light output
- Built-in internal driver - bypass external ballast
- Single-sided G13 power end inserts into unshunted tombstone
- 1/2" knockout for conduit electrical feed
- Compatible with occupancy sensor



### Ordering Information

Example: CT-D02164ABN

D

Chip

D - DC

02

Model

01 - Dimmable  
02 - Non-dimmable

164

Watts/Size

164 - 62W/4 ft curved

A

Series

A - Wrap Around

B

Lens

B - Clear  
F - Frosted

N

Color Temp

N - 5000K

## 4' Strip

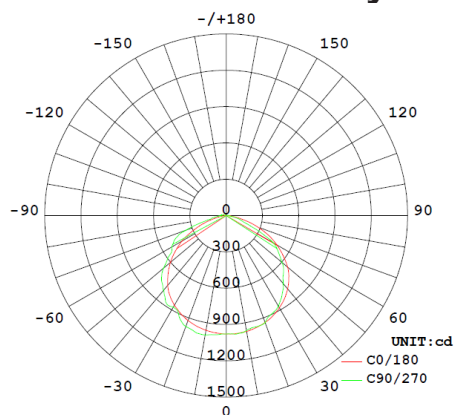
150% ROI

Annual Savings of \$14.70

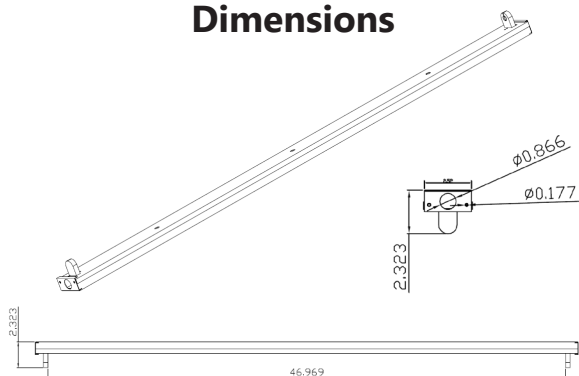
8 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions



### Description

Carson's 18W linear 4' LED 1-lamp industrial strip emits 2,300 lumens with performance equal to replacement of 1-lamp F32 fluorescent fixture. Available in three color temperatures, the stationary G13 end cap locks into unshunted tombstones that run directly off line voltage. Ideal for applications such as plants, warehouses, and parking garages.

Product #	Watts	Lumens	lm/W
CT-D02018FBN	18	2,346	127.3

ft	2	4	6	8	10
fc	169	42	19	11	7

### Key Features

- Uses **Epistar** SMD2835 chip
- Rated for 50,000 hours
- 5 year warranty
- **UL** listing
- 96 lumens per watt
- Power factor > .96
- LED quantity: 96 chips
- Input voltage: AC 110V-277V
- Back side flush mount
- Frosted or clear polycarbonate lens
- White powder-coated aluminum fixture
- Built-in internal driver - bypass external ballast
- Single-sided G13 power end inserts into unshunted tombstone
- 1/2" knockouts on junction box for conduit electrical feed



### Ordering Information

Example: CT-D02018FBN

**D**

**Chip**

**D** - DC

**02**

**Model**

**01** - Dimmable  
**02** - Non-dimmable

**018**

**Watts/Size**

**018** - 18W/4 ft  
**032** - 32W/4 ft

**F**

**Series**

**F** - Linear Strip

**B**

**Lens**

**B** - Clear  
**F** - Frosted

**N**

**Color Temp**

**W** - 3500K  
**C** - 4100K  
**N** - 5000K

## 4' Strip

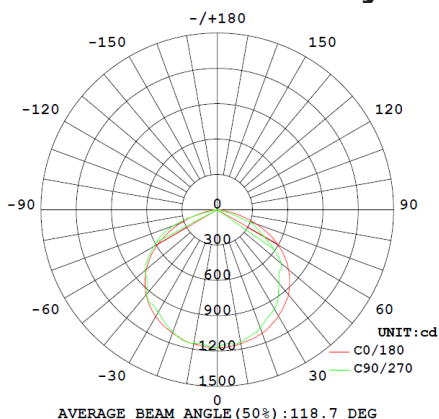
100% ROI

Annual Savings of \$29.40

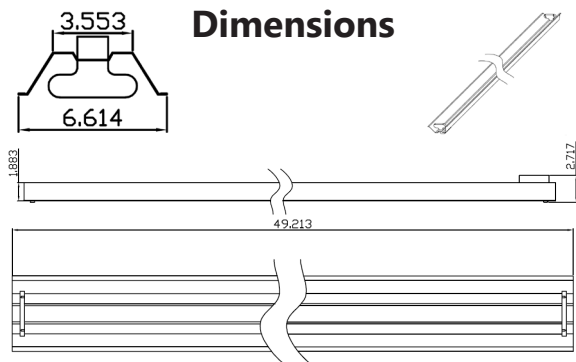
12 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions



### Description

Carson's 36W linear 4' LED 2-lamp industrial strip emits 3,400 lumens with performance equal to replacement of 2-lamp F32 fluorescent fixture. Available in three color temperatures, the stationary G13 end cap locks into unshunted tombstones that run directly off line voltage. Ideal for applications such as plants, warehouses, and parking garages.

Product #	Watts	Lumens	lm/W
CT-D02036FBN	36	3,453	96.3

ft	3	6	9	12	15
fc	27	7	3	1.6	1.1

### Key Features

- Uses **Epistar** SMD2835 chip
- Rated for 50,000 hours
- 5 year warranty
- **UL** listing: E357799
- 96 lumens per watt
- Power factor > .96
- LED quantity: 192 chips
- Input voltage: AC 110V-277V
- Mounting: jack chains and hooks
- Frosted or clear polycarbonate lens
- White powder-coated aluminum fixture
- Built-in internal driver - bypass external ballast
- Single-sided G13 power end inserts into unshunted tombstone
- 1/2" knockouts on junction box for conduit electrical feed



### Ordering Information

Example: CT-D02036FBN

**D**

**Chip**

**D** - DC

**02**

**Model**

**01** - Dimmable  
**02** - Non-dimmable

**036**

**Watts/Size**

**036** - 36W/4 ft

**F**

**Series**

**F** - Linear Strip

**B**

**Lens**

**B** - Clear  
**F** - Frosted

**N**

**Color Temp**

**W** - 3500K  
**C** - 4100K  
**N** - 5000K



## 4' Strip

High  
Output

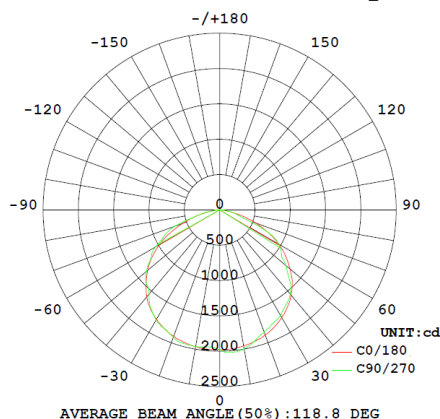
150% ROI

Annual Savings of \$46.30

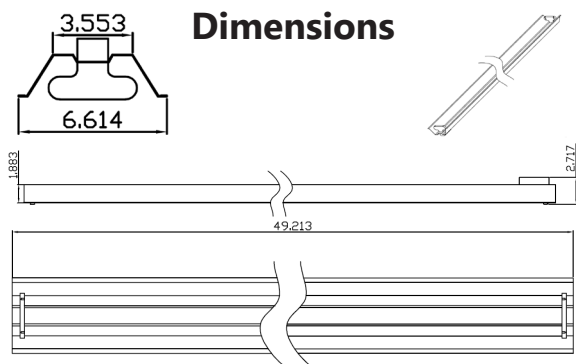
8 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions



### Description

Carson's 62W linear 4' LED 2-lamp industrial strip emits 6,100 lumens with performance equal to replacement of 2-lamp F54 fluorescent fixture. Available in natural white color temperature, the stationary G13 end cap locks into unshunted tombstones that run directly off line voltage. Ideal for applications such as plants, warehouses, and parking garages.

Product #	Watts	Lumens	lm/W
CT-D02064FBN	62	6,096	98.2

ft	3	6	9	12	15
fc	189	21	7.6	3.9	2.3

### Key Features

- Uses **Epistar** SMD2835 chip
- Rated for 50,000 hours
- 5 year warranty
- **UL** listing: E357799
- 96 lumens per watt
- Power factor > .96
- LED quantity: 384 chips
- Input voltage: AC 110V-277V
- Mounting: jack chains and hooks
- Frosted or clear polycarbonate lens
- White powder-coated aluminum fixture
- Single-sided G13 power end inserts into unshunted tombstone
- 1/2" knockouts on junction box for conduit electrical feed
- Built-in internal driver - bypass external ballast



### Ordering Information

Example: CT-D02064FBN

D

Chip

D - DC

02

Model

01 - Dimmable  
02 - Non-dimmable

064

Watts/Size

064 - 62W/4 ft

F

Series

F - Linear Strip

B

Lens

B - Clear  
F - Frosted

N

Color Temp

N - 5000K

## 8' Strip

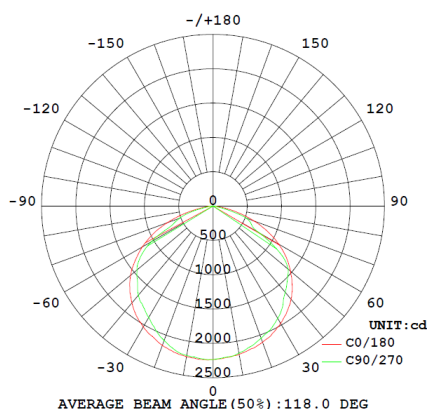
150% ROI

Annual Savings of \$73.60

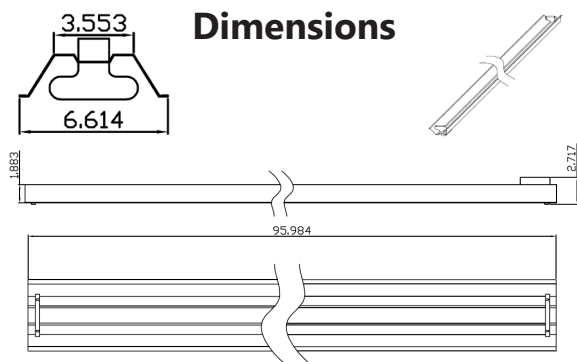
8 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions



### Description

Carson's 80W linear 8' LED 2-lamp industrial strip emits 7,700 lumens with performance equal to replacement of 2-lamp F96 fluorescent fixture. Only available in natural white color temperature, the stationary G13 end cap locks into unshunted tombstone that runs directly off line voltage. Ideal for applications such as plants, warehouses, and parking garages.

Product #	Watts	Lumens	lm/W
CT-D02080FBN	80	7,704	96.3

### Key Features

- Uses **Epistar** SMD2835 chip
- Rated for 50,000 hours
- 5 year warranty
- Pending **UL** listing
- 96 lumens per watt
- Power factor > .95
- LED quantity: 384 chips
- Input voltage: AC 110V-277V
- Mounting: jack chains and hooks
- Frosted or clear polycarbonate lens
- White powder-coated aluminum fixture
- Built-in internal driver - bypass external ballast
- Single-sided G13 power end inserts into unshunted tombstone
- 1/2" knockouts on junction box for conduit electrical feed



### Ordering Information

Example: CT-D02080FBN

D

Chip

D - DC

02

Model

02 - Non-dimmable

080

Watts/Size

080 - 80W/8 ft

F

Series

F - Linear Strip

B

Lens

B - Clear  
F - Frosted

N

Color Temp

N - 5000K

## High Bay

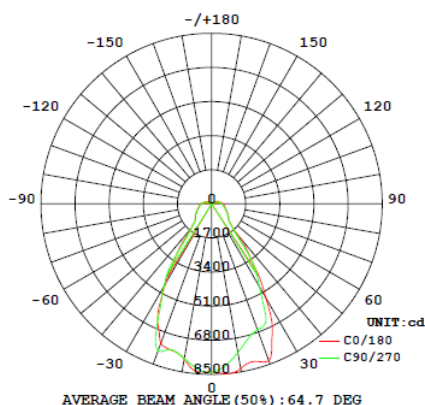
260% ROI

Annual Savings of \$262.80

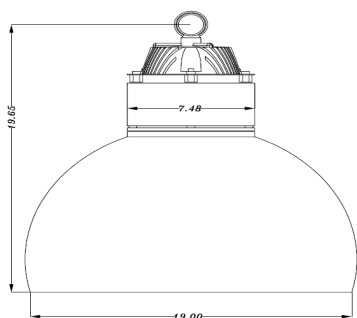
5 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions



### Description

Carson's 156W circular 19" LED acrylic high bay delivers 13,000 lumens with illumination performance equal to replacement of 400W metal halide high bay luminaire or 4-lamp high output F54 linear high bay. Compatible with battery backups, the acrylic high bay can be used in retail stores, gymnasiums, or other applications with high ceilings.

Product #	Watts	Lumens	lm/W
CT-D02150HAN	156	13,182	84.5

ft	3	6	9	12	15
fc	460	115	51	29	18

### Key Features

- Uses **Epistar** chip
- Rated for 50,000 hours
- 5 year warranty
- **UL** listing: E357799
- 85 lumens per watt
- Power Factor > 0.99
- LED quantity: 90 chips
- Input voltage: AC 110V-277V
- **Sunon** fan pulls rising heat waves
- 0-10V dimmable constant current driver
- Aluminum alloy hook or lock nut adapter for mounting
- UV-stabilized lighting grade prismatic acrylic reflector
- Compressed fin rivets maximizes rising heat flow
- Cataphoretic paint coating is corrosion resistant



### Ordering Information

Example: CT-D02150HAN

D

Chip

D - DC

02

Dimmable

01 - Dimmable  
02 - Non-dimmable

150

Watts

150 - 156W

H

Series

H - High Bay

A

Lens

A - Acrylic  
B - Industrial

N

Color Temp

N - 5000K

## High Bay

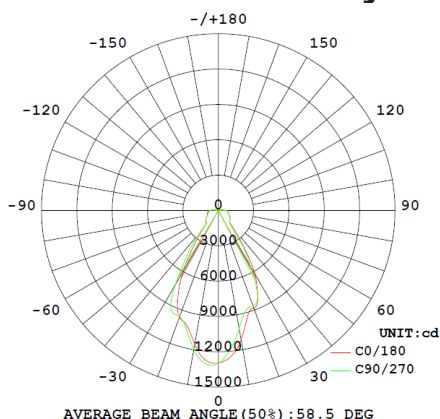
160% ROI

Annual Savings of \$210.20

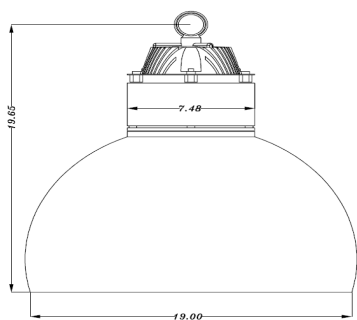
7 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions



### Description

Carson's 187W circular 19" LED acrylic high bay delivers 16,000 lumens with illumination performance greater than 400W metal halide high bay luminaire or 4-lamp high output F54 linear high bay. Compatible with battery backups, the acrylic high bay can be used in retail stores, gymnasiums, or other applications with high ceilings.

Product #	Watts	Lumens	lm/W
CT-D02200HAN	187	15,996	85.4

ft	3	6	9	12	15
fc	680	170	76	42	27

### Key Features

- Uses 2 COB Cree chips
- Rated for 50,000 hours
- 5 year warranty
- UL listing: E357799
- 85 lumens per watt
- Power Factor > 0.99
- LED quantity: 2 COB chips
- Input voltage: AC 110V-277V
- Sunon fan pulls rising heat waves
- 0-10V dimmable constant current driver
- Aluminum alloy hook or lock nut adapter for mounting
- UV-stabilized lighting grade prismatic acrylic reflector
- Compressed fin rivets maximizes rising heat flow
- Cataphoretic paint coating is corrosion resistant



### Ordering Information

Example: CT-D02200HAN

D

02

200

H

A

N

Chip

Dimmable

Watts

Series

Lens

Color Temp

D - DC

01 - Dimmable  
02 - Non-dimmable

200 - 187W

H - High Bay

A - Acrylic  
B - Industrial

N - 5000K



## High Bay

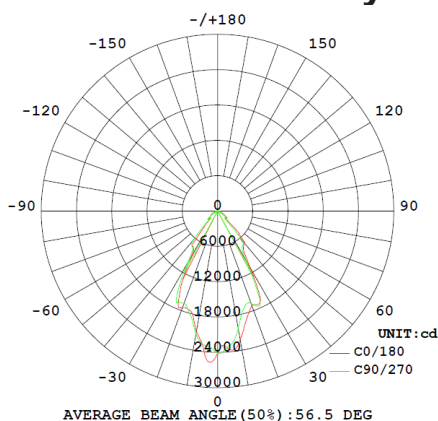
80% ROI

Annual Savings of \$157.70

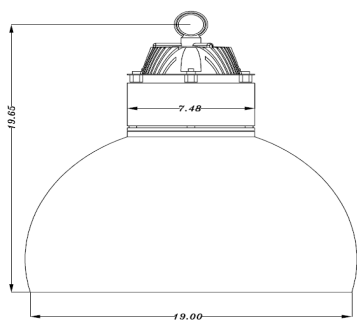
15 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions



### Description

Carson's 257W circular 19" LED acrylic high bay delivers 24,000 lumens with illumination performance greater than 400W metal halide high bay luminaire or 6-lamp high output F54 linear high bay. Compatible with battery backups, the acrylic high bay can be used in retail stores, gymnasiums, or other applications with high ceilings.

Product #	Watts	Lumens	lm/W
CT-D02250HAN	257	24,197	94.2

ft	3	6	9	12	15
fc	1365	341	152	85	55

### Key Features

- Uses COB **Cree** chips
- Uses **Meanwell** driver
- Rated for 50,000 hours
- 5 year warranty
- 94 lumens per watt
- Power Factor > 0.99
- LED quantity: 4 COB chips
- Input voltage: AC 110V-277V
- **Sunon** fan pulls rising heat waves
- 0-10V dimmable constant current driver
- Aluminum alloy hook or lock nut adapter for mounting
- UV-stabilized lighting grade prismatic acrylic reflector
- Compressed fin rivets maximizes rising heat flow
- Cataphoretic paint coating is corrosion resistant



### Ordering Information

Example: CT-D02250HAN

D

02

250

H

A

N

Chip

Dimmable

Watts

Series

Lens

Color Temp

D - DC

01 - Dimmable  
02 - Non-dimmable

250 - 257W

H - High Bay

A - Acrylic  
B - Industrial

N - 5000K

## High Bay

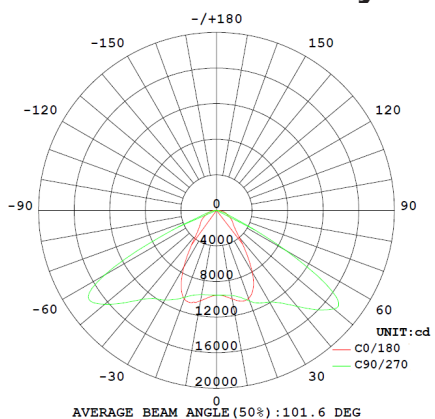
80% ROI

Annual Savings of \$630.70

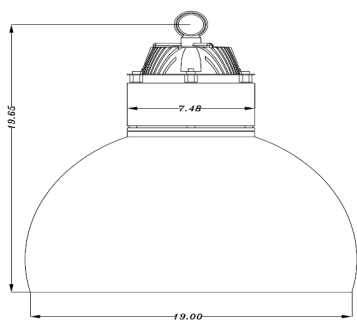
15 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions



### Description

Carson's 400W circular 19" LED acrylic high bay delivers 38,000 lumens with illumination performance equal to 1000W metal halide high bay luminaire or 8-lamp high output F54 linear high bay. Compatible with battery backups, the acrylic high bay can be used in retail stores, gymnasiums, or other applications with high ceilings.

Product #	Watts	Lumens	lm/W
CT-D02400HAN	400	37,680	94.2

### Key Features

- Uses COB **Cree** chips
- Uses **Carson** driver
- Rated for 50,000 hours
- 5 year warranty
- 94 lumens per watt
- Power Factor > 0.99
- LED quantity: 4 COB chips
- Input voltage: AC 110V-277V
- **Sunon** fan pulls rising heat waves
- 0-10V dimmable constant current driver
- Aluminum alloy hook or lock nut adapter for mounting
- UV-stabilized lighting grade prismatic acrylic reflector
- Compressed fin rivets maximizes rising heat flow
- Cataphoretic paint coating is corrosion resistant



### Ordering Information

Example: CT-D02400HAN

D

02

400

H

A

N

Chip

Dimmable

Watts

Series

Lens

Color Temp

D - DC

01 - Dimmable  
02 - Non-dimmable

400 - 400W

H - High Bay

A - Acrylic  
B - Industrial

N - 5000K

## High Bay

**No  
Driver**

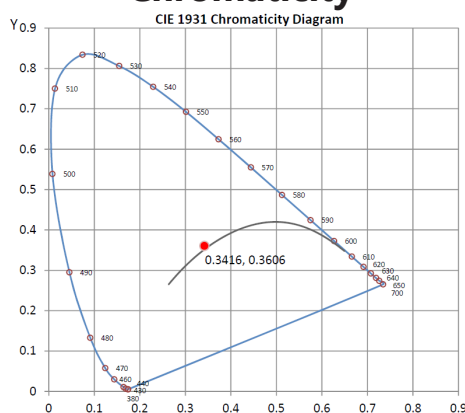
**170% ROI**

**Annual Savings of \$136.70**

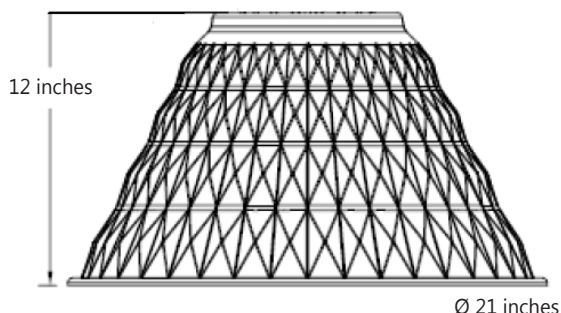
**7 month payback**

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Chromaticity



### Dimensions



### Description

Carson's 120W LED high bay delivers 7,200 lumens with illumination performance equal to replacement of 250W metal halide high bay luminaire or 4-lamp F32 linear fluorescent high bay. Compatible with Lutron dimmers, the industrial high bay can be used in plants, factories, warehouses, and other applications with high ceilings.

Product #	Watts	Lumens	lm/W
CT-A01060HBN	120	7,200	60.0

ft	3	6	9	12
fc	334	250	167	83

### Key Features

- Uses **Samsung** AC LED chip
- Transformer free
- Rated for 50,000 hours
- 5 year warranty
- **UL** listing: E357799
- 60 lumens per watt
- Color Rendering Index: 78
- Power Factor > .95
- LED quantity: 40 AC chips
- Input voltage: AC 110V or 277V
- Mounting: jack chains and hooks
- Aluminum reflective fixture maximizes lumen output
- Compatible with Lutron dimmers
- Maintains 50°C exterior surface temperature



### Ordering Information

Example: CT-A01060HBN

**A**

**01**

**060**

**H**

**B**

**N**

**Chip**

**Replaces**

**Watts**

**Series**

**Lens**

**Color Temp**

**A** - AC

**01** - 250W Equivalent  
**02** - 400W Equivalent

**060** - 120W  
**108** - 180W

**H** - High Bay

**L** - Lexan

**W** - 2700K  
**N** - 5000K

## High Bay

**No  
Driver**

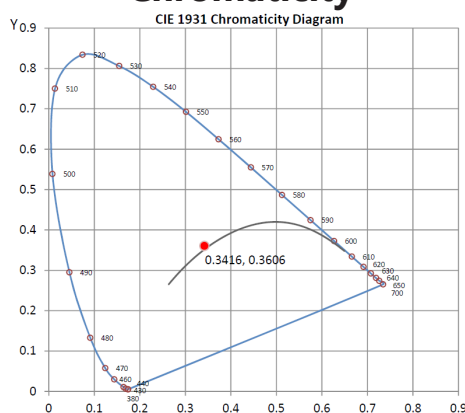
**190% ROI**

**Annual Savings of \$231.30**

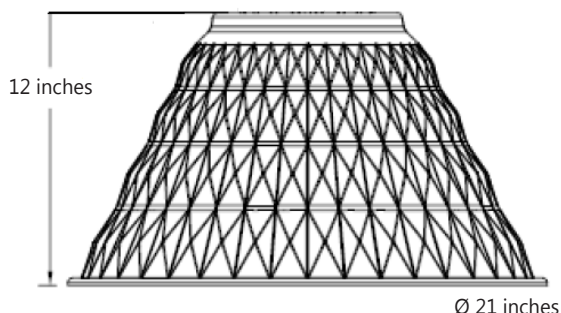
**6 month payback**

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Chromaticity



### Dimensions



### Description

Carson's 180W LED high bay delivers 11,000 lumens with illumination performance equal to replacement of 400W metal halide high bay luminaire or 6-lamp F32 linear fluorescent high bay. Compatible with Lutron dimmers, the industrial high bay can be used in plants, factories, warehouses, and other applications with high ceilings.

Product #	Watts	Lumens	lm/W
CT-A02108HBN	180	10,800	60.0

ft	3	6	9	12
fc	334	250	167	83

### Key Features

- Uses **Samsung** AC LED chip
- Transformer free
- Rated for 50,000 hours
- 5 year warranty
- **UL** listing: E357799
- 60 lumens per watt
- Color Rendering Index: 78
- Power Factor > .95
- LED quantity: 60 AC chips
- Input voltage: AC 110V or 277V
- Mounting: jack chains and hooks
- Aluminum reflective fixture maximizes lumen output
- Compatible with Lutron dimmers
- Maintains 50°C exterior surface temperature



### Ordering Information

Example: CT-A02108HBN

**A**

**02**

**108**

**H**

**B**

**N**

**Chip**

**Replaces**

**Watts**

**Series**

**Lens**

**Color Temp**

**A** - AC

**01** - 250W Equivalent  
**02** - 400W Equivalent

**060** - 120W  
**108** - 180W

**H** - High Bay

**L** - Lexan

**W** - 2700K  
**N** - 5000K



## T8 High Bay

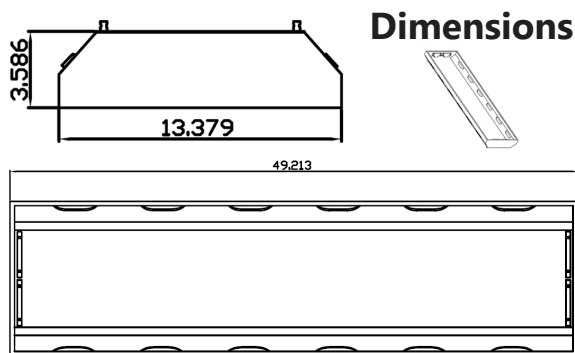
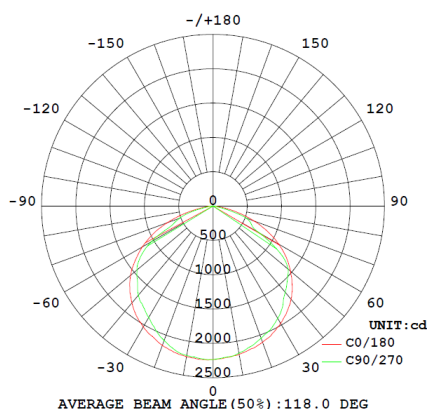
120% ROI

Annual Savings of \$58.90

10 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions

### Description

Carson's 4' linear 71W LED 4-lamp T8 high bay delivers 6,500 lumens with illumination performance equal to replacement of 4-lamp F32 fluorescent high bay. Compatible with battery back-ups or occupancy sensors, the white powder-coated aluminum high bay fixture mounts via jack chains in plants, warehouses, and other applications with high ceilings.

Product #	Watts	Lumens	lm/W
CT-D02072RBN	71	6,559	91.1

ft	1	5	8	11	14
fc	207	23	8.3	4.2	2.6

### Key Features

- Uses **Epistar** SMD2835 chip
- Rated for 50,000 hours
- 5 year warranty
- **UL** listing: E357799
- 91 lumens per watt
- Power factor > .97
- LED quantity: 384 chips
- Input voltage: AC 110V-277V
- Mounting: jack chains and hooks
- White powder-coated aluminum fixture
- Single-sided G13 power end inserts into unshunted tombstone
- Built-in internal driver - bypass external ballast
- 1/2" knockouts for conduit electrical feed
- Compatible with occupancy sensor and battery backup



### Ordering Information

Example: CT-D02072RBN

D	02	072	R	B	N
Chip	Model	Watts/Size	Series	Lens	Color Temp
D - DC	01 - Dimmable 02 - Non-dimmable	072 - 71W/4-lamp	R - T8 High Bay	B - Clear F - Frosted	W - 3500K C - 4100K N - 5000K

## T8 High Bay

High Output

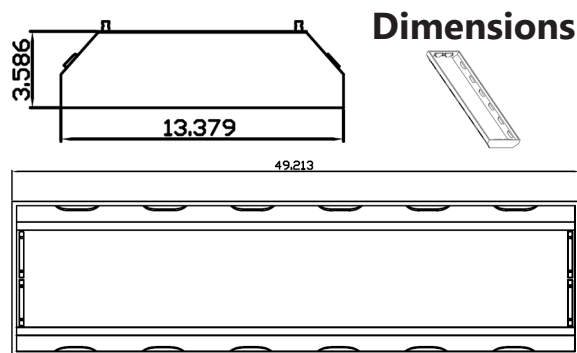
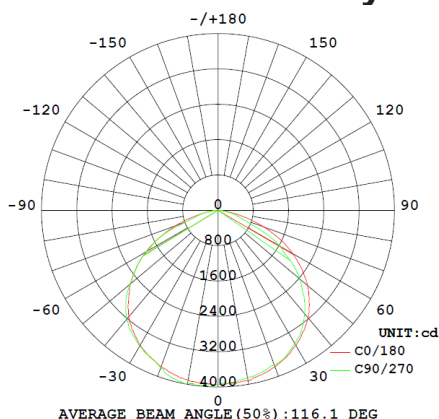
130% ROI

Annual Savings of \$92.50

9 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions

### Description

Carson's 4' linear 129W LED 4-lamp T8 high bay delivers 12,000 lumens with illumination performance equal to replacement of 4-lamp F54 fluorescent high bay. Compatible with battery back-ups or occupancy sensors, the white powder-coated aluminum high bay fixture mounts via jack chains in plants, warehouses, and other applications with high ceilings.

Product #	Watts	Lumens	lm/W
CT-D02128RBN	129	11,810	91.1

ft	3	6	9	12	15
fc	100	25	11	6.3	4

### Key Features

- Uses **Epistar** SMD2835 chip
- Rated for 50,000 hours
- 5 year warranty
- **UL** listing: E357799
- 91 lumens per watt
- Power factor > .97
- LED quantity: 768 chips
- Input voltage: AC 110V-277V
- Mounting: jack chains and hooks
- White powder-coated aluminum fixture
- Single-sided G13 power end inserts into unshunted tombstone
- Built-in internal driver - bypass external ballast
- 1/2" knockouts for conduit electrical feed
- Compatible with occupancy sensor and battery backup



### Ordering Information

Example: CT-D02128RBN

D

Chip

D - DC

02

Model

01 - Dimmable  
02 - Non-dimmable

128

Watts/Size

128 - 129W/4-lamp

R

Series

R - T8 High Bay

B

Lens

B - Clear  
F - Frosted

N

Color Temp

N - 5000K

## T8 High Bay

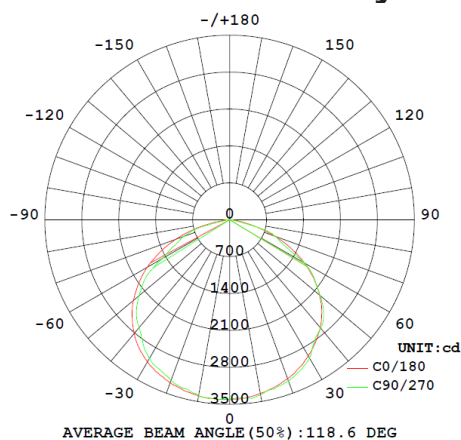
125% ROI

Annual Savings of \$88.30

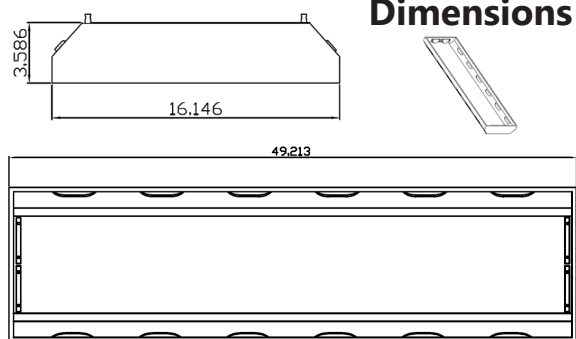
10 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions



### Description

Carson's 4' linear 107W LED 6-lamp T8 high bay delivers 10,000 lumens with illumination performance equal to replacement of 6-lamp F32 fluorescent high bay. Compatible with battery back-ups or occupancy sensors, the white powder-coated aluminum high bay fixture mounts via jack chains in plants, warehouses, and other applications with high ceilings.

Product #	Watts	Lumens	lm/W
CT-D02108RBN	107	10,351	97.0

ft	3	6	9	12	15
fc	82	20	9	5.1	3.3

### Key Features

- Uses **Epistar** SMD2835 chip
- Rated for 50,000 hours
- 5 year warranty
- 97 lumens per watt
- Power factor > .97
- LED quantity: 576 chips
- 6-lamp high bay
- Input voltage: AC 110V-277V
- Mounting: jack chains and hooks
- White powder-coated aluminum fixture
- Single-sided G13 power end inserts into unshunted tombstone
- Built-in internal driver - bypass external ballast
- 1/2" knockouts for conduit electrical feed
- Compatible with occupancy sensor and battery backup



### Ordering Information

Example: CT-D02108RBN

D

Chip

D - DC

02

Model

01 - Dimmable  
02 - Non-dimmable

108

Watts/Size

108 - 107W/6-lamp

R

Series

R - T8 High Bay

B

Lens

B - Clear  
F - Frosted

N

Color Temp

W- 3500K  
C - 4100K  
N - 5000K

## T8 High Bay

High  
Output

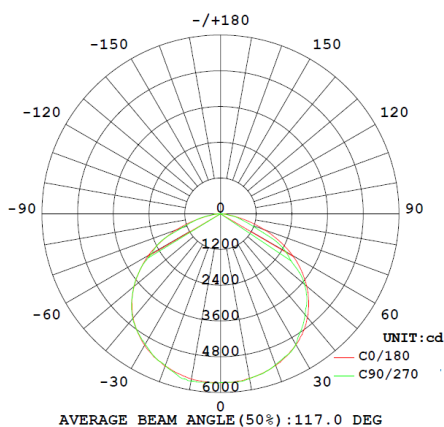
140% ROI

Annual Savings of \$138.80

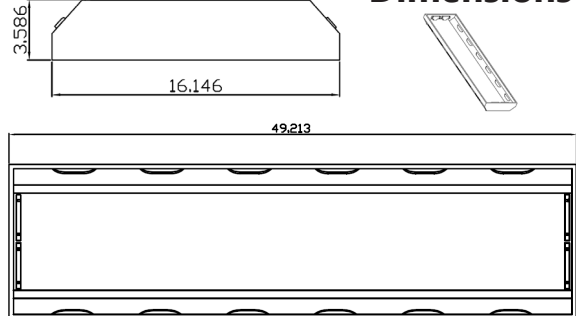
9 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions



### Description

Carson's 4' linear 188W LED 6-lamp T8 high bay delivers 17,000 lumens with illumination performance equal to replacement of 6-lamp F54 fluorescent high bay. Compatible with battery back-ups or occupancy sensors, the white powder-coated aluminum high bay fixture mounts via jack chains in plants, warehouses, and other applications with high ceilings.

Product #	Watts	Lumens	lm/W
CT-D02192RBN	188	17,282	91.9

ft	3	6	9	12	15
fc	136	34	15	8.5	5.4

### Key Features

- Uses **Epistar** SMD2835 chip
- Rated for 50,000 hours
- 5 year warranty
- 92 lumens per watt
- Power factor > .97
- LED quantity: 1152 chips
- 6-lamp high bay
- Input voltage: AC 110V-277V
- Mounting: jack chains and hooks
- White powder-coated aluminum fixture
- Single-sided G13 power end inserts into unshunted tombstone
- Built-in internal driver - bypass external ballast
- 1/2" knockouts for conduit electrical feed
- Compatible with occupancy sensor and battery backup



### Ordering Information

Example: CT-D02192RBN

D

Chip

D - DC

02

Model

01 - Dimmable  
02 - Non-dimmable

188

Watts/Size

192 - 188W/6-lamp

R

Series

R - T8 High Bay

B

Lens

B - Clear  
F - Frosted

N

Color Temp

N - 5000K



## 4' Vapor Tight

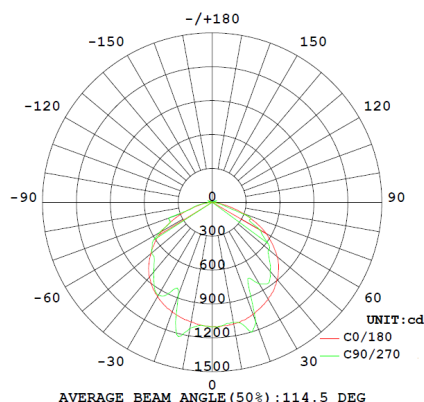
340% ROI

Annual Savings of \$34.30

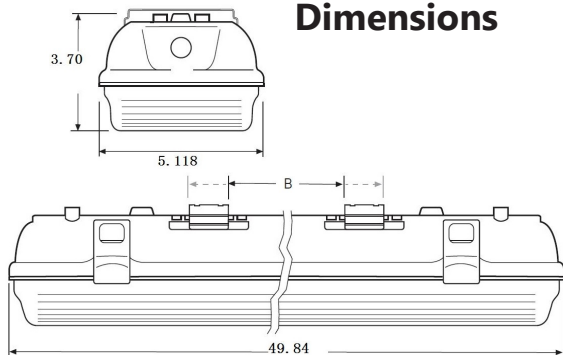
4 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions



### Description

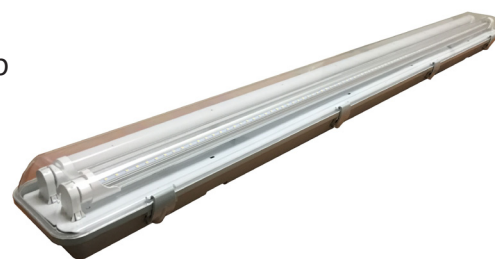
Carson's 4' linear 35W LED 2-lamp vapor tight fixture protects LED T8 tubes from water and dirt. Compatible with battery backups and occupancy sensors, the IP65 rated fixture uses polycarbonate clips to fasten clear acrylic lens with fiberglass housing. Ideal to replace F32 fluorescent vapor tights in car washes, refrigeration coolers, parking garages, and tunnels.

Product #	Watts	Lumens	lm/W
CT-D02036VBN	35	3,186	90.4

ft	3	6	9	12	15
fc	31	8	3	2	1.2

### Key Features

- Uses **Epistar** SMD2835 chip
- Rated for 50,000 hours
- 5 year warranty
- **UL** listing: E468194
- Protection class: IP65
- 90 lumens per watt
- LED quantity: 192 chips
- Input voltage: AC 110V-277V
- Flush surface mount
- Fiberglass housing with high impact acrylic lens
- Built-in internal driver - bypass external ballast
- Single-sided G13 power end inserts into unshunted tombstone
- 1/2" knockout for conduit electrical feed
- Compatible with occupancy sensor and battery backup



### Ordering Information

Example: CT-D02036VBN

**D**

Chip

D - DC

**02**

Model

01 - Dimmable  
02 - Non-dimmable

**036**

Watts/Size

036 - 35W/4 ft

**V**

Series

V - Vapor Tight

**B**

Lens

B - Clear  
F - Frosted

**N**

Color Temp

W - 3500K  
C - 4100K  
N - 5000K

## 4' Vapor Tight

High Output

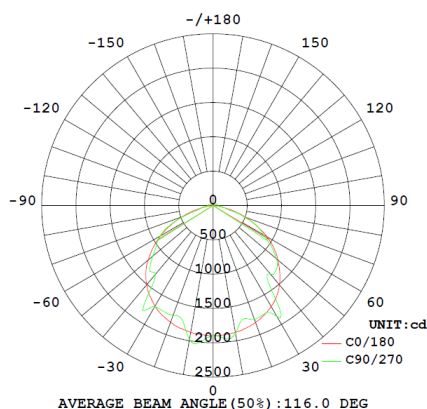
325% ROI

Annual Savings of \$65.20

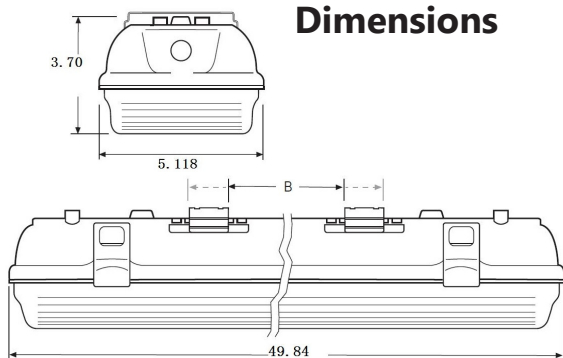
4 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions



### Description

Carson's 4' linear 62W LED 2-lamp vapor tight fixture protects LED T8 tubes from water and dirt. Compatible with battery backups or occupancy sensors, the IP65 rated fixture uses polycarbonate clips to fasten clear acrylic lens with fiberglass housing. Ideal to replace F54 fluorescent vapor tights in car washes, refrigeration coolers, parking garages, and tunnels.

Product #	Watts	Lumens	lm/W
CT-D02064VBN	62	5,694	91.3

ft	3	6	9	12	15
fc	47	12	5	3	1.9

### Key Features

- Uses **Epistar** SMD2835 chip
- Rated for 50,000 hours
- 5 year warranty
- **UL** listing: E468194
- Protection class: IP65
- 90 lumens per watt
- LED quantity: 384 chips
- Input voltage: AC 110V-277V
- Flush surface mount
- Fiberglass housing with high impact acrylic lens
- Built-in internal driver - bypass external ballast
- Single-sided G13 power end inserts into unshunted tombstone
- 1/2" knockout for conduit electrical feed
- Compatible with occupancy sensor and battery backup



### Ordering Information

Example: CT-D02064VBN

D

Chip

D - DC

02

Model

01 - Dimmable  
02 - Non-dimmable

064

Watts/Size

064 - 62W/4 ft

V

Series

V - Vapor Tight

B

Lens

B - Clear  
F - Frosted

N

Color Temp

N - 5000K

## 8' Vapor Tight

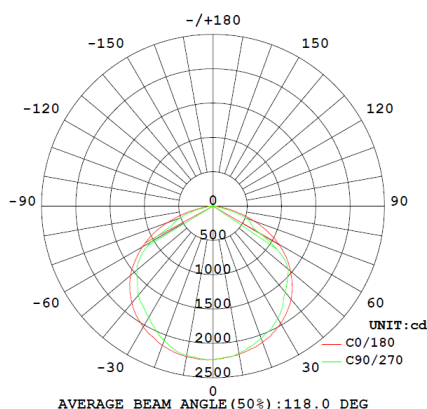
100% ROI

Annual Savings of \$68.70

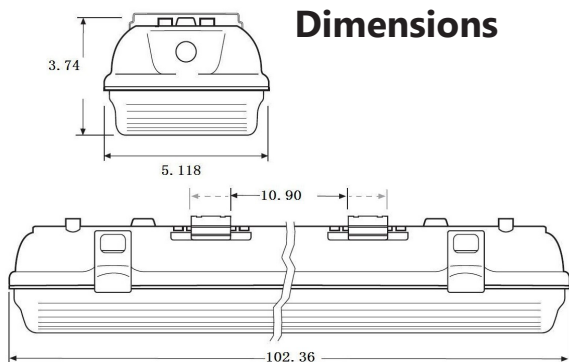
12 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions



### Description

Carson's 8' linear 72W LED 4-lamp vapor tight fixture protects LED T8 tubes from water and dirt. Compatible with battery backups or occupancy sensors, the IP65 rated fixture uses stainless steel clips to fasten clear acrylic lens with fiberglass housing. Ideal to replace F32 fluorescent vapor tights in car washes, refrigeration coolers, parking garages, and tunnels.

Product #	Watts	Lumens	lm/W
CT-D02072VBN	72	6,509	90.4

### Key Features

- Uses **Epistar** SMD2835 chip
- Rated for 50,000 hours
- 5 year warranty
- Pending **UL** listing
- Protection class: IP65
- 90 lumens per watt
- LED quantity: 384 chips
- Input voltage: AC 110V-277V
- Flush surface mount
- Fiberglass housing with high impact acrylic lens
- Built-in internal driver - bypass external ballast
- Single-sided G13 power end inserts into unshunted tombstone
- 1/2" knockout for conduit electrical feed
- Compatible with occupancy sensor and battery backup



### Ordering Information

Example: CT-D02072VBN

**D**

Chip

D - DC

**02**

Model

01 - Dimmable  
02 - Non-dimmable

**072**

Watts/Size

072 - 72W/8 ft

**V**

Series

V - Vapor Tight

**B**

Lens

B - Clear  
F - Frosted

**N**

Color Temp

W - 3500K  
C - 4100K  
N - 5000K

## 8' Vapor Tight

High Output

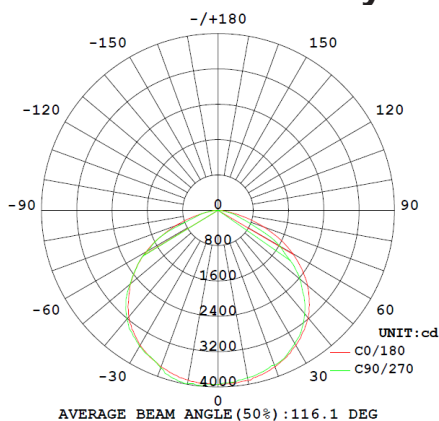
120% ROI

Annual Savings of \$107.90

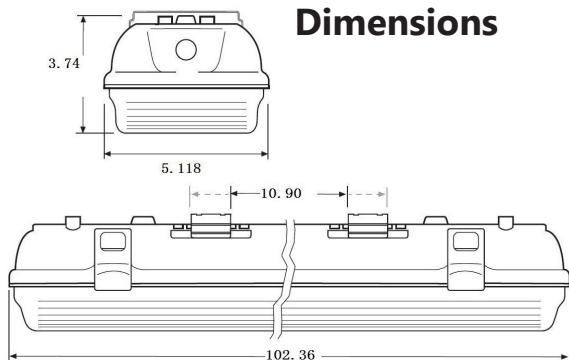
10 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions



### Description

Carson's 8' linear 128W LED 4-lamp vapor tight fixture protects LED T8 tubes from water and dirt. Compatible with battery backups or occupancy sensors, the IP65 rated fixture uses stainless steel clips to fasten clear acrylic lens with fiberglass housing. Ideal to replace F54 fluorescent vapor tights in car washes, refrigeration coolers, parking garages, and tunnels.

Product #	Watts	Lumens	lm/W
CT-D02128VBN	128	11,571	90.4

### Key Features

- Uses **Epistar** SMD2835 chip
- Rated for 50,000 hours
- 5 year warranty
- Pending **UL** listing
- Protection class: IP65
- 90 lumens per watt
- LED quantity: 768 chips
- Input voltage: AC 110V-277V
- Flush surface mount
- Fiberglass housing with high impact acrylic lens
- Built-in internal driver - bypass external ballast
- Single-sided G13 power end inserts into unshunted tombstone
- 1/2" knockout for conduit electrical feed
- Compatible with occupancy sensor and battery backup



### Ordering Information

Example: CT-D02128VBN

**D**

Chip

D - DC

**02**

Model

01 - Dimmable  
02 - Non-dimmable

**128**

Watts/Size

128 - 128W/8 ft

**V**

Series

V - Vapor Tight

**B**

Lens

B - Clear  
F - Frosted

**N**

Color Temp

N - 5000K



## Wall Pack

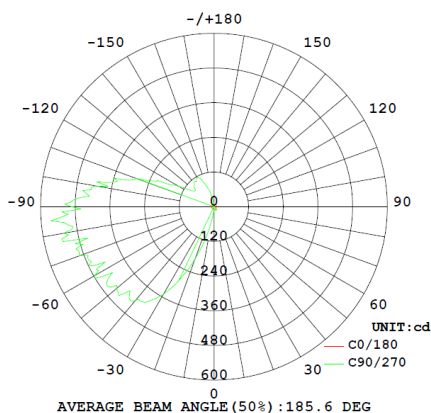
175% ROI

Annual Savings of \$26.30

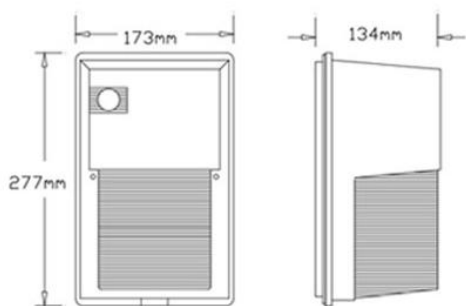
7 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions



### Description

Carson's 25W LED wall pack reduces energy consumption by 50% when comparing to 50W HPS wall pack fixtures. Compatible with photosensor, the weather resistant die-cast aluminum housing has a dark bronze finish. Surface mount via junction box with top or side electrical conduit access for applications such as building facades.

Product #	Watts	Lumens	lm/W
CT-D02025WPN	25	1,340	54.0

ft	3	6	9	12	15
fc	5	1.3	0.6	0.3	0.2

### Key Features

- Uses **Cree** SMD LED chip
- Uses **Carson** driver
- Rated for 50,000 hours
- 5 year warranty
- 54 lumens per watt
- Input voltage: AC 110V-277V
- LED quantity: 120 chips
- Bronze die-cast aluminum housing
- Chip placement minimizes overlap and maximizes beam spread
- Driver and cooling fin placement allows back side access
- Surface mount with top or side access for conduit electrical feed
- Silicone gasketing seals lens to withstand weather conditions
- Corrosion resistant and electro-coat finish
- Compatible with occupancy sensors



### Ordering Information

Example: CT-D02025WPN

**D**

**Chip**

**D** - DC

**02**

**Color**

**02** - Dark Bronze

**025**

**Watts**

**025** - 25W

**W**

**Series**

**W** - Wall Pack

**P**

**Lens**

**P** - Lexan

**N**

**Color Temp**

**N** - 5000K

## Wall Pack

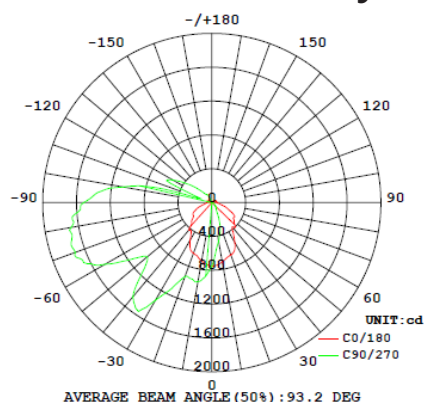
350% ROI

Annual Savings of \$105.10

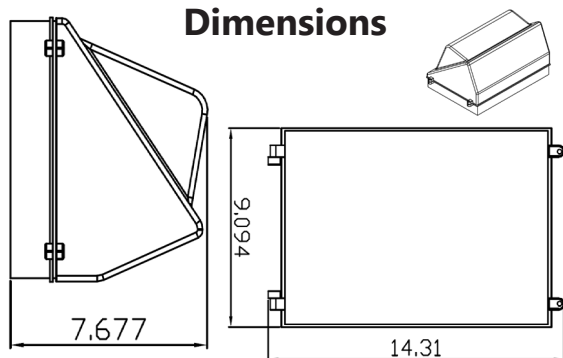
3 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions



### Description

Carson's 48W LED wall pack reduces energy consumption by 66% when comparing to 150W HPS wall pack fixtures. Compatible with occupancy sensors, the weather resistant die-cast aluminum housing has a dark bronze finish. Surface mount via junction box with top or side electrical conduit access for applications such as building facades.

Product #	Watts	Lumens	lm/W
CT-D02050WPN	48	4,958	103.2

ft	3	6	9	12	15
fc	31	8	3	2	1

### Key Features

- Uses 2 Cree COB LED chip
- Uses Carson driver
- Rated for 50,000 hours
- 5 year warranty
- UL listing: E357799
- DLC Qualified Product List
- 103 lumens per watt
- Input voltage: AC 110V-277V
- Bronze die-cast aluminum housing
- Surface mount with top or side access for conduit electrical feed
- Driver and cooling fin placement allows back side access
- Chip placement minimizes overlap and maximizes beam spread
- Silicone gasketing seals lens to withstand weather conditions
- Corrosion resistant and electro-coat finish



### Ordering Information

Example: CT-D02050WPN

D

Chip

D - DC

02

Color

02 - Dark Bronze

050

Watts

050 - 48W

W

Series

W - Wall Pack

P

Lens

P - Glass

N

Color Temp

N - 5000K

## Wall Pack

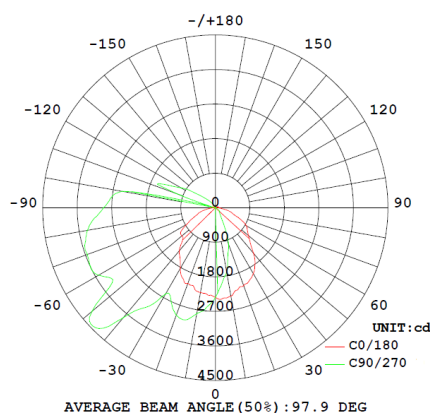
420% ROI

Annual Savings of \$168.20

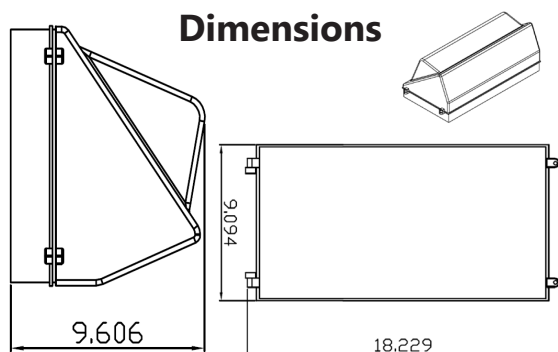
3 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions



### Description

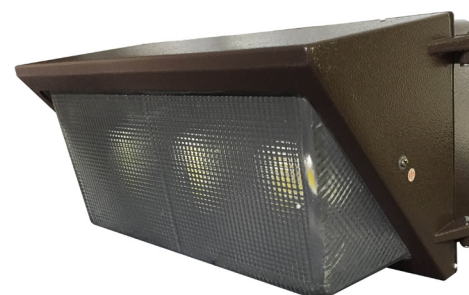
Carson's 90W LED wall pack reduces energy consumption by 60% when comparing to 250W HPS wall pack fixtures. Compatible with occupancy sensors, the weather resistant die-cast aluminum housing has a dark bronze finish. Surface mount via junction box with top or side electrical conduit access for applications such as building facades.

Product #	Watts	Lumens	lm/W
CT-D02090WPN	90	10,320	115.3

ft	3	6	9	12	15
fc	89	22	10	5.5	3.5

### Key Features

- Uses 3 Cree COB LED chip
- Uses Carson driver
- Rated for 50,000 hours
- 5 year warranty
- UL listing: E357799
- 115 lumens per watt
- Input voltage: AC 110V-277V
- Bronze die-cast aluminum housing
- Surface mount with top or side access for conduit electrical feed
- Driver and cooling fin placement allows back side access
- Chip placement minimizes overlap and maximizes beam spread
- Silicone gasketing seals lens to withstand weather conditions
- Corrosion resistant and electro-coat finish
- Compatible with occupancy sensors



### Ordering Information

Example: CT-D02090WPN

D

Chip

D - DC

02

Color

02 - Dark Bronze

090

Watts

090 - 90W

W

Series

W - Wall Pack

P

Lens

P - Lexan

N

Color Temp

N - 5000K

## Canopy

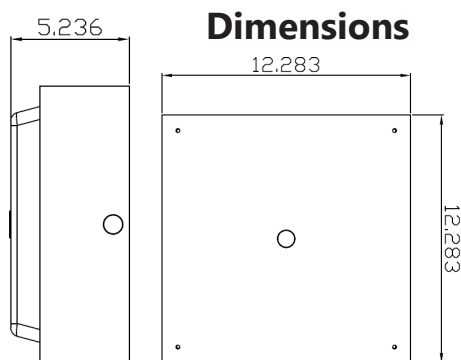
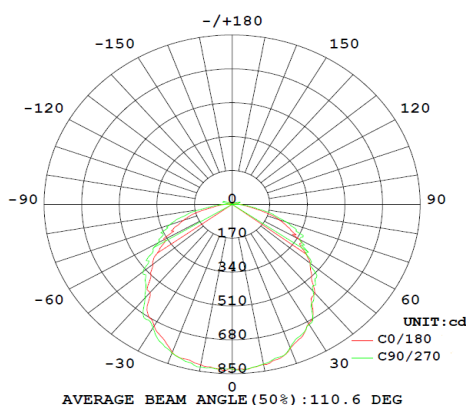
200% ROI

Annual Savings of \$39.90

6 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions

### Description

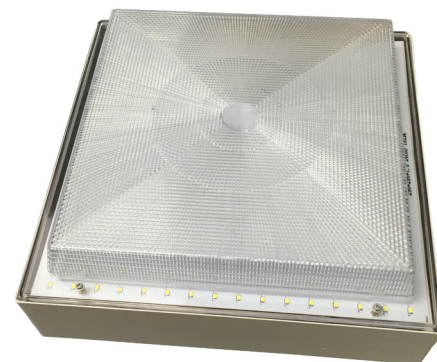
Carson's 33W 12" x 12" LED canopy light tube emits 2,600 lumens and saves 55% in energy costs when compared to 70W metal halide fixtures. Available in natural white color temperature, the beige powder-coated die-cast aluminum fixture has side access for 1/2" electrical conduit. Ideal for underpasses, walkways, and under canopies.

Product #	Watts	Lumens	lm/W
CT-D02032CPN	33	2,534	76.5

ft	3	6	9	12	15
fc	25	6.4	2.9	1.6	1

### Key Features

- Uses **Epistar** SMD2835 chip
- Uses **Carson** driver
- Rated for 50,000 hours
- 5 year warranty
- Pending **UL** listing
- Protection class: IP65
- 77 lumens per watt
- Power factor > .96
- LED quantity: 196 chips
- Input voltage: AC 110V-277V
- Acrylic prismatic reflector lens
- Beige powder-coated die-cast aluminum housing
- Surface mount with side access for 1/2" electrical feed
- Lightweight aluminum heat sink inside housing



### Ordering Information

Example: CT-D02032CPN

D

Chip

D - DC

02

Model

02 - Non-dimmable

032

Watts/Size

032 - 33W

C

Series

C - Canopy

P

Lens

P - Acrylic

N

Color Temp

N - 5000K



## Canopy

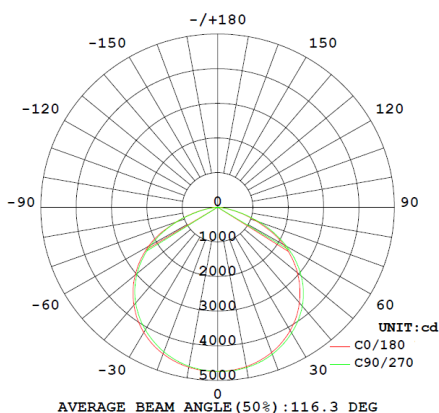
250% ROI

Annual Savings of \$199.70

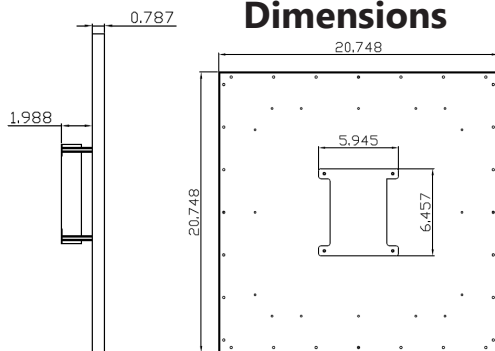
5 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions



### Description

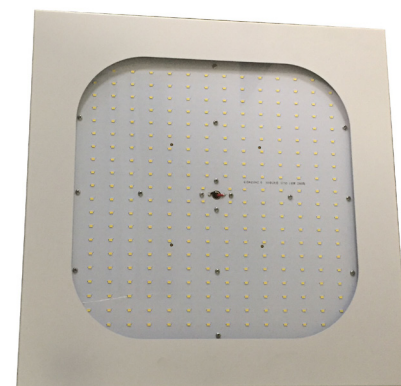
Carson's 130W 2' x 2' LED canopy light tube emits 14,000 lumens and saves 60% in energy costs when compared to 320W metal halide fixtures. Available in natural white color temperature, the white powder-coated die-cast aluminum fixture is low profile with easy access installation. Ideal for under canopy gas stations.

Product #	Watts	Lumens	lm/W
CT-D02130CPN	130	13,793	106.1

ft	3	6	9	12	15
fc	117	29	13	7.3	4.6

### Key Features

- Uses **Epistar** SMD2835 chip
- Uses **Carson** driver
- Rated for 50,000 hours
- 5 year warranty
- Pending **UL** listing
- Protection class: IP65
- 106 lumens per watt
- Power factor > .99
- LED quantity: 276 chips
- Input voltage: AC 110V-277V
- Designed to retrofit into existing Scottsdale canopy holes
- White powder-coated die-cast aluminum housing
- Clear tempered glass lens
- Lightweight aluminum heat sink absorbs heat



### Ordering Information

Example: CT-D02130CPN

D

Chip

D - DC

02

Model

02 - Non-dimmable

130

Watts/Size

130 - 130W

C

Series

C - Canopy

P

Lens

P - Glass

N

Color Temp

N - 5000K

## Flood Light

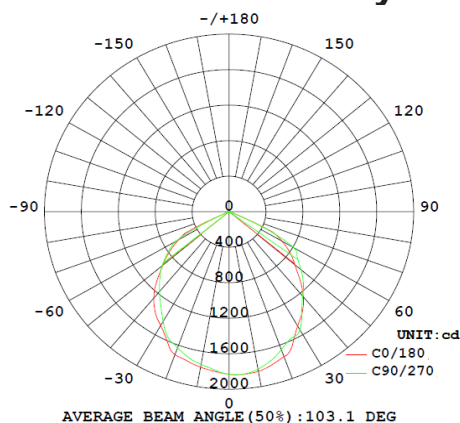
260% ROI

Annual Savings of \$52.60

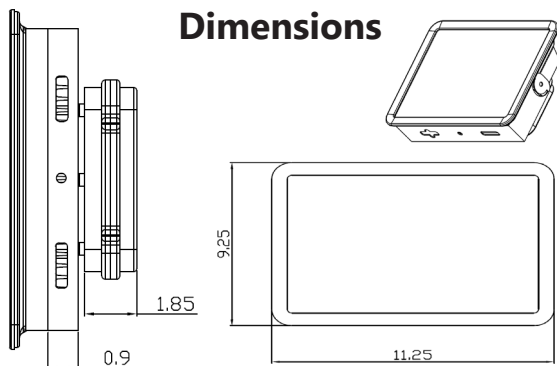
5 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions



### Description

Carson's 49W LED flood light saves 50% in energy costs when compared to traditional 100W metal halide fixtures. The weather resistant, die-cast aluminum housing has integral heat sink fins to optimize convective and conductive thermal management. Trunnion arm mounts to building facade in commercial and industrial areas.

Product #	Watts	Lumens	lm/W
CT-D01050FDN	49	4,244	86.6

ft	3	6	9	12	15
fc	61	15	6.8	3.8	2.5

### Key Features

- Uses 1 COB Cree LED chip
- Uses Carson driver
- Rated for 50,000 hours
- 5 year warranty
- IP rating: IP65
- 87 lumens per watt
- Power Factor > 0.99
- Input voltage: AC 110V-277V
- Trunnion mount attachment
- Rugged die-cast aluminum housing with bronze finish
- Corrosion and weather resistant powder coat finish
- Silicone gasketing seals lens to withstand weather conditions
- 1/2" knockout on junction box for conduit electrical feed
- Vented housing isolates LED module from driver



### Ordering Information

Example: CT-D01050FDN

D

01

050

F

D

N

Chip

Mount

Watts

Series

Lens

Color Temp

D - DC

01 - Yoke

50 - 49W

F - Flood

D - Glass

N - 5000K

## Flood Light

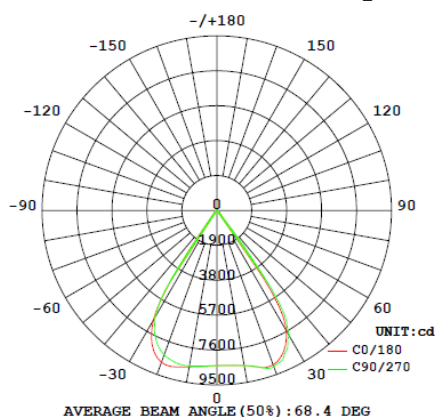
195% ROI

Annual Savings of \$136.70

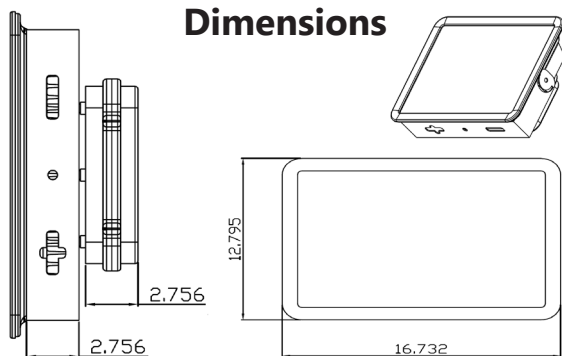
6 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions



### Description

Carson's 118W LED flood light saves 50% in energy costs when compared to traditional 250W metal halide fixtures. The weather resistant, die-cast aluminum housing has integral heat sink fins to optimize convective and conductive thermal management. Trunnion arm mounts to building facade in commercial and industrial areas.

Product #	Watts	Lumens	lm/W
CT-D01120FDN	118	9,748	82.7

ft	3	6	9	12	15
fc	550	138	61	34	22

### Key Features

- Uses 2 COB Cree chips
- Uses Meanwell driver
- Rated for 50,000 hours
- 5 year warranty
- IP rating: IP65
- 83 lumens per watt
- Power Factor > 0.99
- Input voltage: AC 110V-277V
- Trunnion mount attachment
- Rugged die-cast aluminum housing with black or bronze finish
- Corrosion and weather resistant powder coat finish
- Specular reflectors are engineered for max field to beam ratio
- 1/2" knockout on junction box for conduit electrical feed
- Vented housing isolates LED module from driver



### Ordering Information

Example: CT-D01120FDN

D

01

120

F

D

N

Chip

Mount

Watts

Series

Lens

Color Temp

D - DC

01 - Yoke

120 - 118W

F - Flood

D - Glass

N - 5000K

## Flood Light

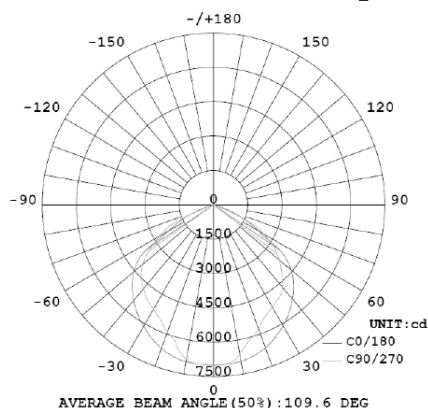
210% ROI

Annual Savings of \$210.20

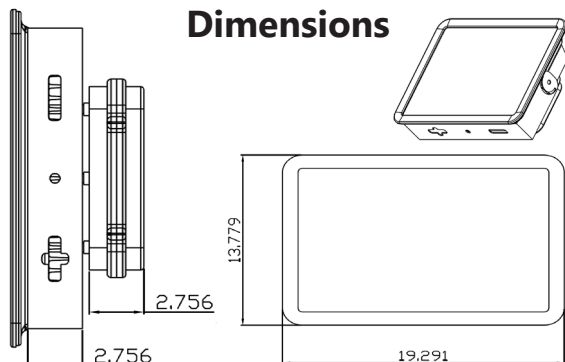
6 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions



### Description

Carson's 200W LED flood light saves 50% in energy costs when compared to traditional 400W metal halide fixtures. The weather resistant, die-cast aluminum housing has integral heat sink fins to optimize convective and conductive thermal management. Trunnion arm mounts to building facade in commercial and industrial areas.

Product #	Watts	Lumens	lm/W
CT-D01200FDN	200	16,691	83.8

ft	3	6	9	12	15
fc	196	49	22	12	8

### Key Features

- Uses 4 COB **Cree** chips
- Uses **Meanwell** driver
- Rated for 50,000 hours
- 5 year warranty
- IP rating: IP65
- 84 lumens per watt
- Power Factor > 0.99
- Input voltage: AC 110V-277V
- Trunnion mount attachment
- Rugged die-cast aluminum housing with black or bronze finish
- Corrosion and weather resistant powder coat finish
- Specular reflectors are engineered for max field to beam ratio
- 1/2" knockout on junction box for conduit electrical feed
- Vented housing isolates LED module from driver



### Ordering Information

Example: CT-D01200FDN

D

01

200

F

D

N

Chip

Mount

Watts

Series

Lens

Color Temp

D - DC

01 - Yoke

200 - 200W

F - Flood

D - Glass

W - 3500K  
N - 5000K



## Flood Light

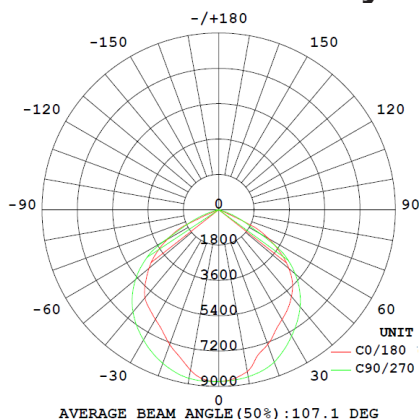
110% ROI

Annual Savings of \$157.70

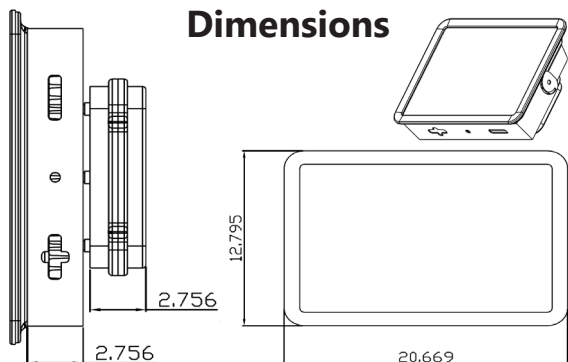
11 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions



### Description

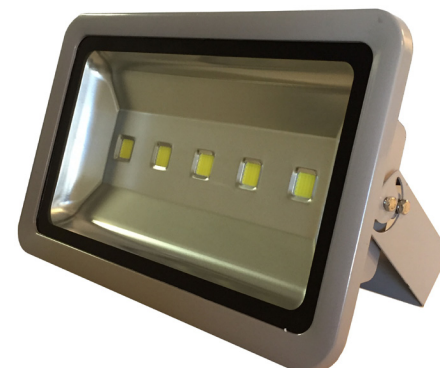
Carson's 252W LED flood light saves 40% in energy costs when compared to traditional 400W metal halide fixtures. The weather resistant, die-cast aluminum housing has integral heat sink fins to optimize convective and conductive thermal management. Trunnion arm mounts to building facade in commercial and industrial areas.

Product #	Watts	Lumens	lm/W
CT-D01250FDN	252	20,220	80.3

ft	3	6	9	12	15
fc	253	63	28	16	10

### Key Features

- Uses 5 COB Cree chips
- Uses Meanwell driver
- Rated for 50,000 hours
- 5 year warranty
- IP rating: IP65
- 80 lumens per watt
- Power Factor > 0.99
- Input voltage: AC 110V-277V
- Trunnion mount attachment
- Rugged die-cast aluminum housing with gray finish
- Corrosion and weather resistant powder coat finish
- Silicone gasketing seals lens to withstand weather conditions
- 1/2" knockout on junction box for conduit electrical feed
- Vented housing isolates LED module from driver



### Ordering Information

Example: CT-D01250FDN

D

01

250

F

D

N

Chip

Mount

Watts

Series

Lens

Color Temp

D - DC

01 - Yoke

250 - 252W

F - Flood

D - Glass

N - 5000K

## Shoe Box

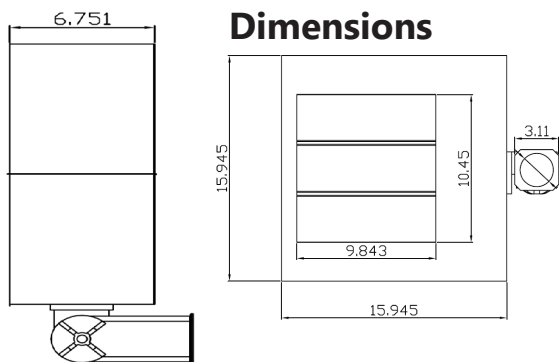
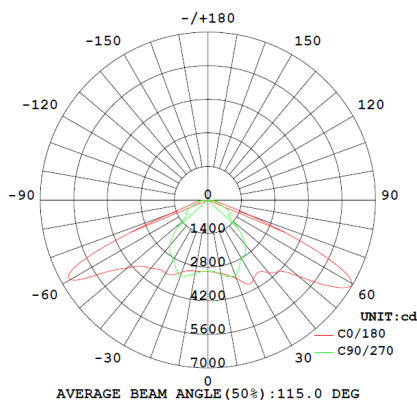
375% ROI

Annual Savings of \$262.80

3 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions

### Description

Carson's 151W LED shoe box illumination performance is equal to 400W high pressure sodium fixtures at 30 to 40 feet mounting height. Our metal-core circuit board and aluminum heat sink design maximize thermal efficiency in an enclosed fixture. An arm or knuckle mounts to parking lot poles, or trunnion mounts to building facades.

Product #	Watts	Lumens	lm/W
CT-D01150SBN	151	13,994	92.9

ft	3	6	9	12	15
fc	102	26	11	6.4	4

### Arm Mount



### Key Features

- Uses Cree SMD2835 chip
- Uses Carson driver
- Rated for 50,000 hours
- 5 year warranty
- UL listing: E357799
- IP rating: IP65
- 93 lumens per watt
- LED quantity: 66 chips
- Input voltage: AC 110-277V
- Arm, knuckle, or trunnion mount
- Architectural UV resistant dark bronze powder coat finish
- Metal-core PCB and aluminum heat sink minimizes internal heat
- Die-cast aluminum housing with back plate
- 1/2" knockout for conduit electrical feed

### Ordering Information

Example: CT-D01150SBN

D

Chip

D - DC

01

Mount

01 - Arm  
02 - Knuckle  
03 - Trunnion

150

Watts

150 - 151W

S

Series

S - Shoe Box

B

Type

B - New

N

Color Temp

N - 5000K

## Shoe Box

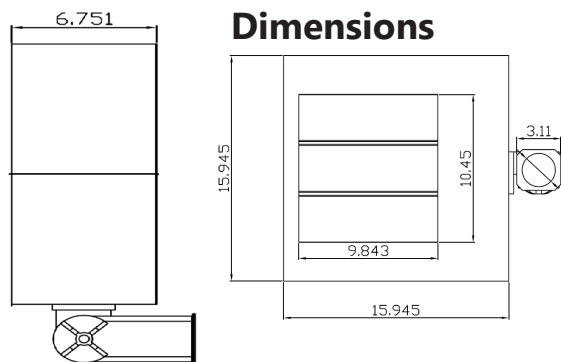
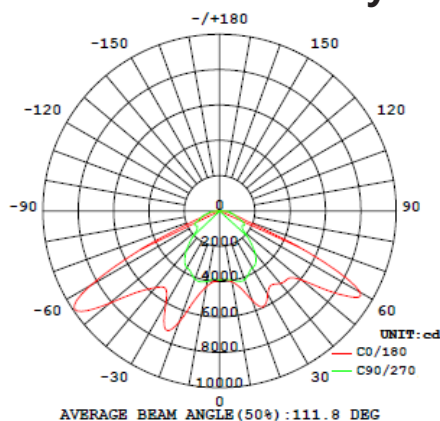
200% ROI

Annual Savings of \$210.20

6 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions

### Description

Carson's 200W LED shoe box illumination performance is greater than 400W high pressure sodium fixtures at 30 to 40 feet mounting height. Our metal-core circuit board and aluminum heat sink design maximize thermal efficiency in an enclosed fixture. An arm or knuckle mounts to parking lot poles, or trunnion mounts to building facades.

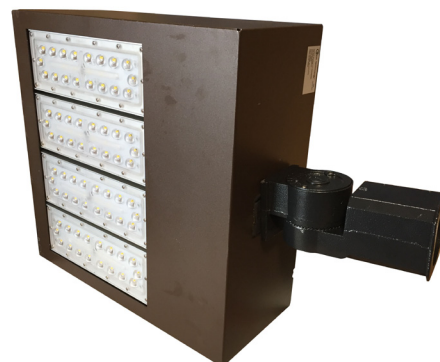
Product #	Watts	Lumens	lm/W
CT-D02200SBN	200	16,917	84.3

ft	3	6	9	12	15
fc	154	39	17	9.6	6.2

### Knuckle Mount

### Key Features

- Uses Cree SMD2835 chip
- Uses Carson driver
- Rated for 50,000 hours
- 5 year warranty
- UL listing: E357799
- IP rating: IP65
- 84 lumens per watt
- LED quantity: 88 chips
- Input voltage: AC 110-277V
- Arm, knuckle, or trunnion mount
- Architectural UV resistant dark bronze powder coat finish
- Metal-core PCB and aluminum heat sink minimizes internal heat
- Die-cast aluminum housing with back plate
- 1/2" knockout for conduit electrical feed



### Ordering Information

Example: CT-D02200SBN

D

Chip

D - DC

02

Mount

01 - Arm  
02 - Knuckle  
03 - Trunnion

200

Watts

200 - 200W

S

Series

S - Shoe Box

B

Type

B - New

N

Color Temp

N - 5000K

## Shoe Box

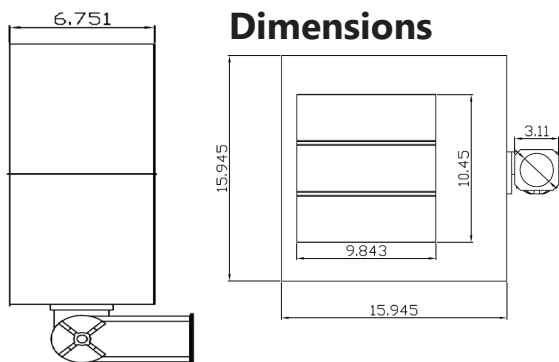
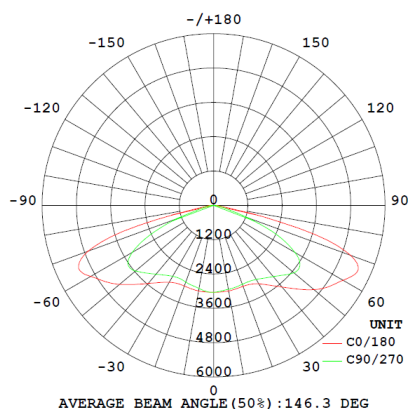
85% ROI

Annual Savings of \$157.70

15 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions

### Description

Carson's 243W LED shoe box illumination performance is greater than 400W high pressure sodium fixtures at 30 to 40 feet mounting height. Our metal-core circuit board and aluminum heat sink design maximize thermal efficiency in an enclosed fixture. An arm or knuckle mounts to parking lot poles, or trunnion mounts to building facades.

Product #	Watts	Lumens	lm/W
CT-D03250SBN	243	18,147	74.7

ft	3	6	9	12	15
fc	206	52	23	13	8

### Trunnion Mount

### Key Features

- Uses Cree SMD2835 chip
- Uses Carson driver
- Rated for 50,000 hours
- 5 year warranty
- IP rating: IP65
- 75 lumens per watt
- Power Factor > 0.99
- LED quantity: 110 chips
- Input voltage: AC 110-277V
- Arm, knuckle, or trunnion mount
- Architectural UV resistant dark bronze powder coat finish
- Metal-core PCB and aluminum heat sink minimizes internal heat
- Die-cast aluminum housing with back plate
- 1/2" knockout for conduit electrical feed



### Ordering Information

Example: CT-D03250SBN

D

Chip

D - DC

03

Mount

01 - Arm  
02 - Knuckle  
03 - Trunnion

250

Watts

250 - 243W

S

Series

S - Shoe Box

B

Type

B - New

N

Color Temp

N - 5000K



## Street Light

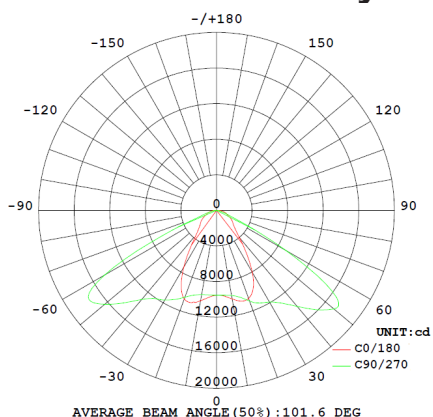
260% ROI

Annual Savings of \$788.40

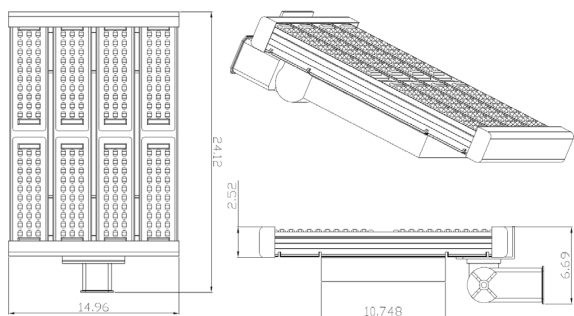
5 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions



### Description

Carson's 368W LED thin profile street light illumination performance is equal to 1000W high pressure sodium fixtures at 30 to 40 feet mounting height. Our metal-core circuit board and aluminum heat sink design maximizes thermal efficiency in an open fixture. An arm or knuckle mounts to parking lot poles, or trunnion mounts to building facades.

Product #	Watts	Lumens	lm/W
CT-D02400STN	368	32,394	88.0

### Key Features

- Uses **Cree** SMD2835 chip
- Uses **Carson** driver
- Rated for 50,000 hours
- 5 year warranty
- IP rating: IP65
- 88 lumens per watt
- Power factor > .98
- LED quantity: 90 chips
- Input voltage: AC 110-277V
- Arm, knuckle, or trunnion mount
- Architectural UV resistant white powder coat finish
- Metal-core PCB and aluminum heat sink minimizes internal heat
- Vented housing isolates LED module from driver
- 1/2" knockout for conduit electrical feed



### Ordering Information

Example: CT-D02400STN

D

02

400

S

T

N

Chip

Mount

Watts

Series

Type

Color Temp

D - DC

02 - Knuckle

400 - 368W

S - Street Light

T - Thin Profile

N - 5000K

## Street Light

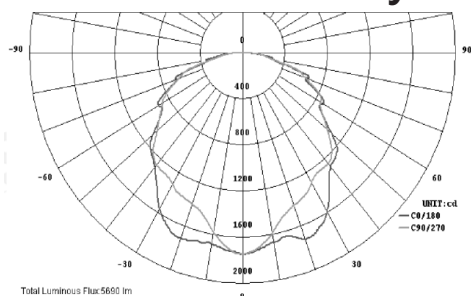
200% ROI

Annual Savings of \$157.70

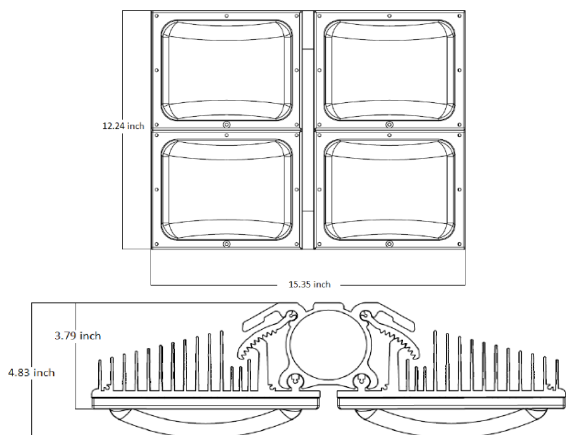
6 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### Dimensions



### Description

Carson's 100W LED street light delivers 7,000 lumens, whose illumination performance can replace 250W HID cobra heads. Our innovative cooling fin design maximizes thermal heat dissipation and customizes beam angle hinge. Ideal for exterior lighting, such as parking lots, street lights, flood lights, and temporary lighting.

Product #	Watts	Lumens	lm/W
CT-A01060STN	100	7,010	70.1

m	5	8	10	12	15
lx	17	6.6	4.2	3	1.9

### Key Features

- Uses **Samsung** AC LED chip
- Driver free
- Rated for 50,000 hours
- 5 year warranty
- **UL** listing: E357799
- IP rating: IP65
- 70 lumens per watt
- LED quantity: 40 AC chips
- Input voltage: 120V or 277V
- Slides into 1.5" pole mount
- Die-cast aluminum metal housing
- Adjustable hinge leverage tailored to desired beam angle
- Retrofits into 16" x 16" shoe box fixture
- Maintains 40°C exterior surface temperature



### Ordering Information

Example: CT-A01060STN

A

01

060

S

T

N

Chip

Replaces

Watts

Series

Lens

Color Temp

A - AC

01 - 250W Equivalent  
02 - 400W Equivalent

060 - 100W  
120 - 200W

S - Street Light

T - Glass

W - 2700K  
N - 5000K

## HID Retrofit

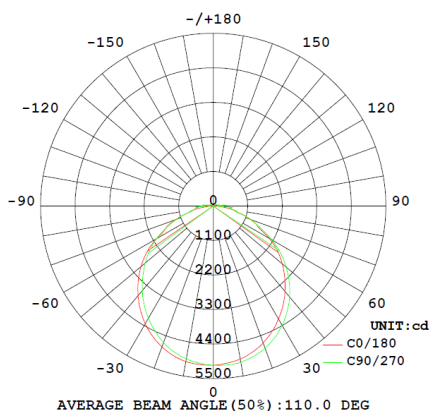
240% ROI

Annual Savings of \$262.80

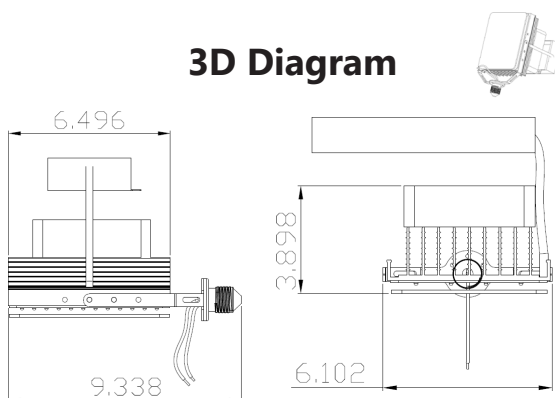
5 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### 3D Diagram



### Description

Carson's 147W LED shoe box retrofit module delivers 15,000 lumens, whose illumination performance is equal to 400W high pressure sodium bulbs at 30 to 40 feet mounting height. The module retrofits into existing E39 mogul base, and the external driver has access screw holes to lock into existing shoe box fixture. Ideal for parking lots or building facade.

Product #	Watts	Lumens	lm/W
CT-D02150SRN	147	14,838	101.0

ft	3	6	9	12	15
fc	146	37	16	9	5.9

### Key Features

- Uses **Epistar** SMD2835 chip
- Uses **Carson** driver
- Rated for 50,000 hours
- 5 year warranty
- 101 lumens per watt
- LED quantity: 60 chips
- Input voltage: AC 120V-277V
- Retrofits into E39 mogul base
- External driver - bypass external ballast
- **Sunon** fan pulls rising heat waves
- Clear acrylic lens maximize lumen output
- Compressed fin rivets maximizes rising heat flow
- Die-cast aluminum heat sink minimizes internal heat
- Maintains 40°C exterior surface temperature



### Ordering Information

Example: CT-D02150SRN

D

02

150

S

R

N

Chip

Dimmable

Watts

Series

Type

Color Temp

D - DC

02 - Non-dimmable

150 - 147W

S - Shoe Box

R - Retrofit

N - 5000K

## HID Retrofit

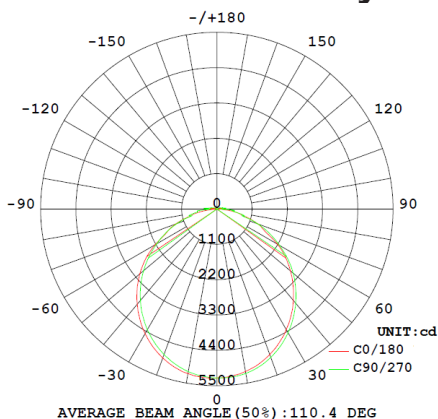
160% ROI

Annual Savings of \$210.20

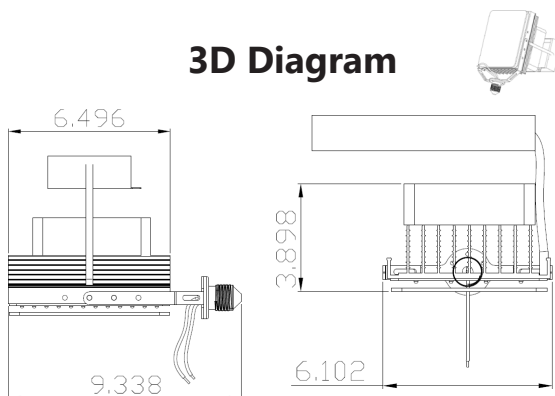
6 month payback

Calculations are based on 8,760 annual hours of operation and \$0.12 average cost per kWh

### Luminous Intensity



### 3D Diagram



### Description

Carson's 194W LED shoe box retrofit module delivers 16,000 lumens, whose illumination performance is greater than 400W high pressure sodium bulbs at 30 to 40 feet mounting height. The module retrofits into existing E39 mogul base, and the external driver has access screw holes to lock into existing shoe box fixture. Ideal for parking lots or building facade.

Product #	Watts	Lumens	lm/W
CT-D02200SRN	194	15,556	80.0

ft	3	6	9	12	15
fc	152	38	17	9.5	6

### Key Features

- Uses **Epistar** SMD2835 chip
- Uses **Carson** driver
- Rated for 50,000 hours
- 5 year warranty
- 80 lumens per watt
- LED quantity: 60 chips
- Input voltage: AC 120V-277V
- Retrofits into E39 mogul base
- External driver - bypass external ballast
- **Sunon** fan pulls rising heat waves
- Clear acrylic lens maximize lumen output
- Compressed fin rivets maximizes rising heat flow
- Die-cast aluminum heat sink minimizes internal heat
- Maintains 40°C exterior surface temperature



### Ordering Information

Example: CT-D02200SRN

D

02

200

S

R

N

Chip

Dimmable

Watts

Series

Type

Color Temp

D - DC

02 - Non-dimmable

200 - 194W

S - Shoe Box

R - Retrofit

N - 5000K



## Battery Backup

### Description

Carson's emergency battery backup is compatible with LED tubes and fixtures. When AC power fails, the battery backup immediately switches to emergency mode while operating the LEDs at 100% of lumen output for at least 90 minutes. When AC power is restored, the battery backup returns to charging mode.

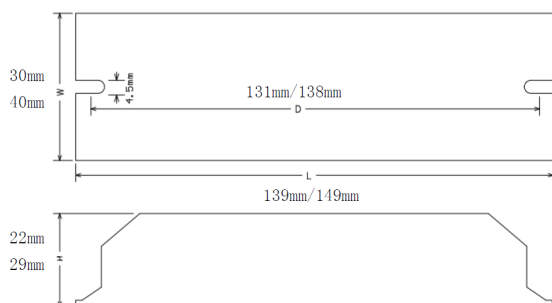


Product #	Supports	Lumens
CT-020EB	20W	100%

### Key Features

- Pending **UL** listing
- 5 year warranty
- Use with LED tubes or fixtures with internal driver
- Will provide illumination for 90 minutes in emergency state
- 24 hour recharge time
- Working voltage: AC 110V-277V
- Emergency battery voltage: 65V-90V
- **Red** test light switch
- 12V lithium ion phosphate battery
- Stamped plastic housing
- Emergency battery switching time < 2 seconds
- Controlled power and discharge protection
- Maintains < 40°C exterior surface temperature
- Field install option

### Dimensions



### Ordering Information

Example: CT-020EB

**020**

**Watts**

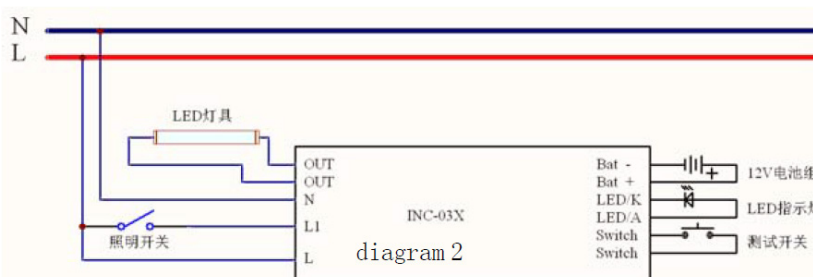
**020** - 20W  
**040** - 40W

**EB**

**Series**

**EB** - Emergency Backup

### Installation Diagram



## Additional Products

### Display Panel



#### Description

Carson's LED display panel uses one strip of 120V RGB rope light, which reflects from the bottom of the panel onto the upright standing piece of glass. With six colors and four modes, the RGB rope light has twenty-four different options to select from. Customizable glass-etching text is available upon special request for applications including window signs or restaurant menus.

### Photo Sensor



#### Description

Energy savings from daylight harvesting are expected to rise as California's Title 24 Building Efficiency Standards require photo sensor controls for all daylight zones using 120 watts or more for lighting. The dual-loop innovation will maximize the financial benefits of compliance while improving lighting quality, increasing energy efficiency, and reducing peak demand.

### Lampholders



#### Description

- Bi-pin G13 unshunted lampholders
- Single pin Fa8 lampholders
- Recessed double contact (high output) R17d lampholders

# Warranty

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The limited warranty set forth below is given by Carson Technology Company with respect to the light product packaged with this limited warranty. Your product, when delivered to you in new condition in its original packaging, is warranted against defects in materials or workmanship as follows: for a period of **FIVE (5) YEARS** for products from the date of original purchase, defective parts or product returned with the sales receipt as proof of purchase to seller as applicable, and problem to be defective upon inspection, will be repaired, or exchanged for a new product, as determined by the seller. This limited warranty covers all defects faced in normal use of the product, and does not apply in the following cases: loss of or damage to the product due to acts of fire, vandalism, civil disturbances, power surges, improper power supply, corrosive environment installations, abuse, alteration, accident, mishandling, failure to follow operating, maintenance, or environmental instructions prescribed by the seller in writing or services performed by someone other than the seller.

**WARRANTY IS VOID IF PRODUCT IS RETURNED IN UNPRESENTABLE CONDITION OR FOR THE PURPOSE FOR WHICH THIS PRODUCT IS MANUFACTURED.**

Any complaints you may have regarding the product should be addressed to 12207 Los Nietos Road, Unit C, Santa Fe Springs, CA 90670. Seller shall have no liability under this warranty unless seller is notified in writing within sixty (365) days after your discovery of the defect and the defective items are promptly returned to the seller, freight prepaid, and received by the seller. This warranty excludes field labor, service charges, and freight related to the repair or replacement of the product.

**NO IMPLIED WARRANTY, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, APPLIES TO THE PRODUCT AFTER THE APPLICABLE PERIOD OF THE EXPRESS LIMITED WARRANTY STATED ABOVE, AND NO OTHER EXPRESS WARRANTY OR GUARANTY GIVEN BY ANY PERSON OR ENTITY WITH RESPECT TO THE PRODUCT SHALL BIND SELLER.**

# Terms & Conditions

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A restocking fee of 20% will be collected on returns of any item within thirty (30) days after purchase. Since our number one goal is to make you a happy, trusting, and returning customer, we will gladly waive or reduce any restocking fees for clients who purchase another item from the same vendor of equal or greater value.

In order for Carson Technology to establish an open account line of credit, the undersigned will pay for all purchases according to the terms of sale. You are authorizing Carson to run a credit report through a reporting agency. If the undersigned is unable to pay for the purchases when due, Carson will charge **2% interest** on any amount past due until paid. In this event, all future sales will be collect on delivery. If Carson institutes suit to collect any amount due, the undersigned promises to pay for additional collection costs. Product warranty is void if the product and components are not returned in its original packaging.

## **China Plant**

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