

# DS770FC Series

## Dark Sky Acorn



### Features

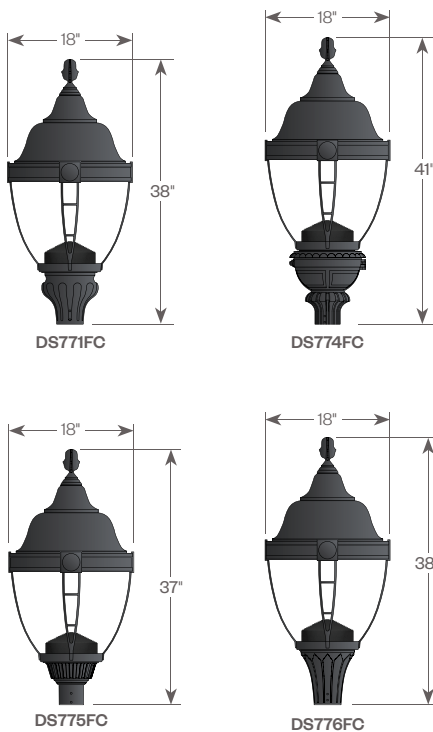
Lighting for exterior retail, commercial and hospitality environments. The DS770FC Series consists of a cast aluminum fitter and cage assembly and a spun aluminum top. Includes Full Cutoff optics for Dark Sky friendly applications. An optional Smartsite wireless lighting controller is available.

### Product Overview

Wattage:	2M: 44W, 49W 3M: 60W, 67W 4M: 79W, 88W
Lumen Output :	11,124 lm (4M, 88W, T5, 40K)
Color Temp:	3000K, 4000K
Dimming:	0-10V dimming

### PROJECT:

### TYPE:



### Installation:

The luminaire will mount to a 3" OD post or tenon with 5/16" black oxide coated stainless steel set screws to ensure a solid connection.

### Optical Module:

The luminaire utilizes 2, 3 or 4 individually sealed optical modules consisting of a high performance LED board with an acrylic (TIR) lens to deliver maximum spacing and uniformity. A choice of Type II, III, IV and V IES distributions are available with the scalability to meet application criteria. Custom configurations available.

### Electrical:

- Over voltage and short circuit protected driver
- Series connected 10kV/20kA surge protector
- Automatic AC incoming voltage sensing (120V-277V)
- 0-10v dimming

### Light Distribution:

- Type II (T2)
- Type III (T3)
- Type IV (T4)
- Type V (T5)

### CCT:

- 3,000K (30)
- 4,000K (40)

### Drive Current:

- 530mA
- 600mA

### L70:

72,000+ hrs.

### Finish:

Durable thermoset polyester powder-coat finish in the following:

- Satin Black (BLK)
- Classic Bronze (CLB)
- Gloss Textured Bronze (GBZ)
- Green (GRN)
- Gloss Textured Black (GTB)
- Textured Black (TBK)
- Gloss Textured Green (TGR)

### Accessories:

- Dusk-to-dawn button type photocell (PCL)
- Controls Capable Harness (CCH)
- Back Light Shield (BLS)
- Wireless control option (SSINT-1)

ETL listed, suitable for wet locations.



5 year limited warranty  
AMERLUX LED



ida  
Certain Restrictions Apply



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## PROJECT:

## TYPE:

### Ordering Information



- |  |   |
|--|---|
| <p><b>1</b> <u>Model</u><br/><b>DS771FC</b><br/><b>DS774FC</b><br/><b>DS775FC</b><br/><b>DS776FC</b></p> <p><b>2</b> <u>LED Modules</u><br/><b>2M</b> - 2 Modules<br/><b>3M</b> - 3 Modules<br/><b>4M</b> - 4 Modules</p> <p><b>3</b> <u>Light Distribution</u><br/><b>T2</b> - Type 2<br/><b>T3</b> - Type 3<br/><b>T4</b> - Type 4<br/><b>T5</b> - Type 5</p> <p><b>4</b> <u>CCT</u><br/><b>30*</b> - 3000K<br/><b>40</b> - 4000K</p> <p><b>5</b> <u>Drive Current</u><br/><b>530M</b> - 530 mA<br/><b>600M</b> - 600 mA</p> | <p><b>6</b> <u>Finish</u><br/><b>BLK</b> - Satin Black<br/><b>CLB</b> - Classic Bronze<br/><b>GBZ</b> - Gloss Textured Bronze<br/><b>GRN</b> - Green<br/><b>GTB</b> - Gloss Textured Black<br/><b>TBK</b> - Textured Black<br/><b>TGR</b> - Gloss Textured Green<br/><b>CSTM</b> - Custom</p> <p><b>7</b> <u>Accessories</u><br/><b>PCL</b> - Dusk-to-dawn button type Photocell (not available for use with CCH)<br/><b>CCH</b> - Controls Capable Harness (not available for use with PCL)<br/><b>BLS</b> - Back Light Shield<br/><b>SSINT-1</b> - Integrated Wireless Control Node (for operation on the SmartSite control platform)</p> |
|--|---|

\* To meet IDA Dark Sky Fixture Seal of Approval 3000K CCT must be chosen. Not approved with 4000K option.

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**PROJECT:**

**TYPE:**

## Performance Chart

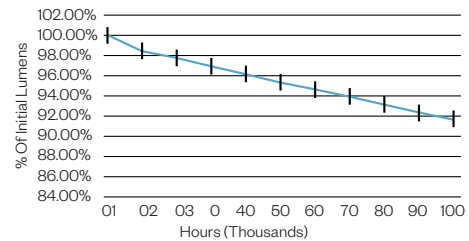
Modules	System Watts	Distribution	CCT	Luminaire Lumens		Bug Rating	
				530mA	600mA		
2M	44W (530mA) 49W (600mA)	T2	3,000K	4,366	4,934	1-0-1	
			4,000K	4,677	5,285		
		T3	3,000K	4,326	4,888		
			4,000K	4,720	5,334		
		T4	3,000K	4,223	4,772		1-0-2
			4,000K	4,566	5,160		
T5	3,000K	4,411	4,984	2-0-1			
	4,000K	4,769	5,389				
3M	60W (530mA) 67W (600mA)	T2	3,000K	6,471	7,312	2-0-2	
			4,000K	6,996	7,905		
		T3	3,000K	6,524	7,372		
			4,000K	7,054	7,971		
		T4	3,000K	6,318	7,139		1-0-2
			4,000K	6,831	7,719		
T5	3,000K	6,598	7,456	3-0-1			
	4,000K	7,134	8,061				
4M	79W (530mA) 88W (600mA)	T2	3,000K	8,503	9,608	2-0-2	
			4,000K	9,193	10,388		
		T3	3,000K	8,570	9,684		
			4,000K	9,265	10,469		
		T4	3,000K	8,302	9,381		3-1-2
			4,000K	8,976	10,143		
T5	3,000K	8,350	9,436				
	4,000K	9,844	11,124				

## Lumen Maintenance

Ambient Temp	50,000 Hours*	70,000 Hours*	90,000 Hours*	100,000 Hours*	Theoretical L70 Hours
25°C	>95.4%	>93.9%	>92.4%	>91.6%	>200,000

\* Per IESNA TM-21 data

Lumen maintenance values apply to all output levels and distributions..



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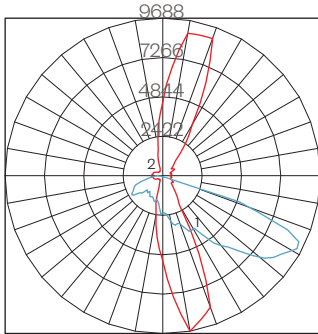


## PROJECT:

## TYPE:

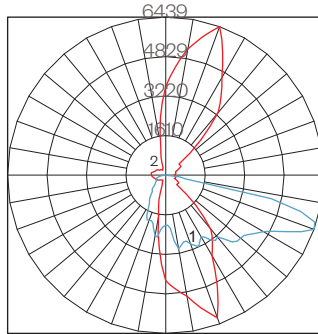
### Performance Chart

#### DS770FC-4M-T2-4K



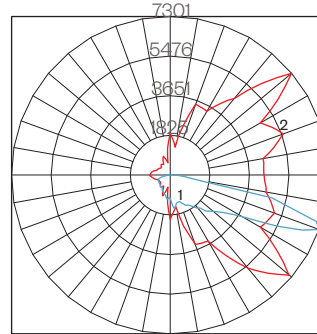
Maximum Candela = 9688  
 Located At Horizontal Angle = 280; Vertical Angle = 62.5  
 #1 - Vertical Plane Through Horizontal Angles (280-100)\*  
 #2 - Horizontal Cone Through Vertical Angle (62.5)\*  
 \* Through Max. Cd.

#### DS770FC-4M-T3-4K



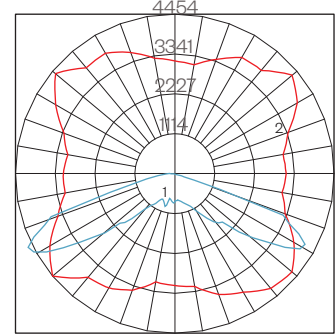
Maximum Candela = 6439  
 Located At Horizontal Angle = 70; Vertical Angle = 70  
 #1 - Vertical Plane Through Horizontal Angles (70-250)\*  
 #2 - Horizontal Cone Through Vertical Angle (70)\*  
 \* Through Max. Cd.

#### DS770FC-4M-T4-4K



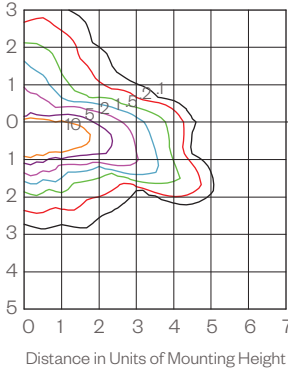
Maximum Candela = 7301  
 Located At Horizontal Angle = 40; Vertical Angle = 70  
 #1 - Vertical Plane Through Horizontal Angles (40-220)\*  
 #2 - Horizontal Cone Through Vertical Angle (70)\*  
 \* Through Max. Cd.

#### DS770FC-4M-T5-4K

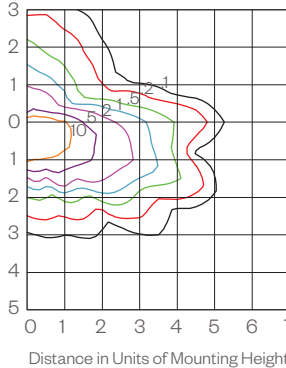


Maximum Candela = 4454  
 Located At Horizontal Angle = 220; Vertical Angle = 62.5  
 #1 - Vertical Plane Through Horizontal Angles (220-40)\*  
 #2 - Horizontal Cone Through Vertical Angle (62.5)\*  
 \* Through Max. Cd.

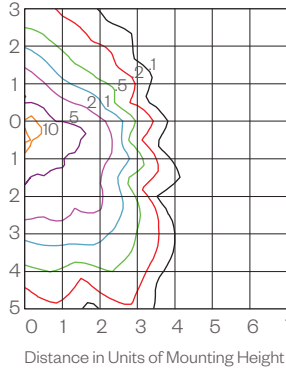
#### ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



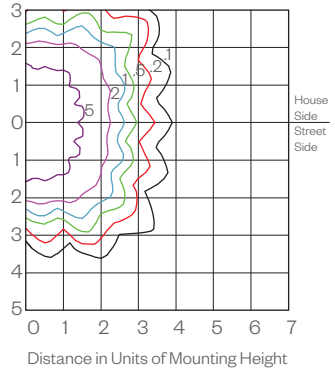
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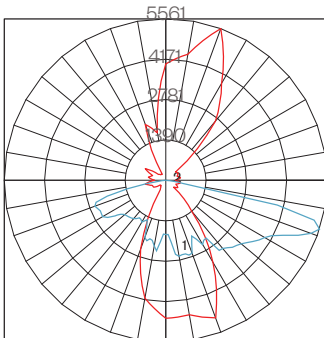
#### ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



### Customizable Performance

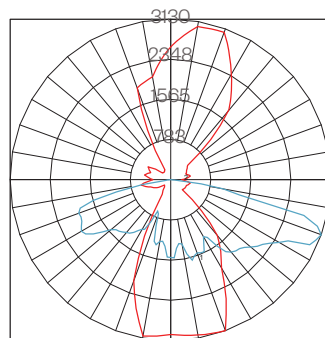
Photometry can be modified using different drive currents and a combination of lenses. Consult factory. See examples below.

#### DS770FC-4M-T3ST2H-4K-580M



Maximum Candela = 5561  
 Located At Horizontal Angle = 70; Vertical Angle = 72.5  
 #1 - Vertical Plane Through Horizontal Angles (70-250)\*  
 #2 - Horizontal Cone Through Vertical Angle (72.5)\*  
 \* Through Max. Cd.

#### DS770FC-4M-T3ST2H-4K-470M



Maximum Candela = 3130  
 Located At Horizontal Angle = 290; Vertical Angle = 70  
 #1 - Vertical Plane Through Horizontal Angles (290-110)\*  
 #2 - Horizontal Cone Through Vertical Angle (70)\*  
 \* Through Max. Cd.

### Backlight Shield

Shield can be easily installed in the field when required.

