

DS770FC Series

Dark Sky Acorn



PROJECT:

TYPE:

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.

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



DS770FC

Certifications



5 year limited warranty
AMERLUX LED

POWDER COATED
TOUGH



Electrostatic sensitive device,
observe precautions for handling

Certain Restrictions Apply for DarkSky International

Fixture Summary

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, consult factory.

Electrical:

- Over voltage and short circuit protected driver
- Series connected 10kV/20kA surge protector
- Automatic AC incoming voltage sensing (120V-277V)
- 347V/480V option consult factory
- 0-10V dimming

Light Distributions:

- Type II
- Type III
- Type IV
- Type V

CCT:

- 3000K
- 4000K

Drive Current:

- 530mA
- 600mA

L70:

72,000+ hrs.

Finish:

Durable thermoset polyester powdercoat finish in the following:

- Satin Black
- Classic Bronze
- Gloss Textured Bronze
- Green
- Gloss Textured Black
- Textured Black
- Gloss Textured Green

Accessories:

- Dusk-to-dawn button type photocell (*not available for use with 7-pin NEMA receptacle*)
- Backlight shield
- Wireless control option
- Optional 7-pin NEMA receptacle, for wireless control or photocell
- Twist-lock photocell (for use with 7-pin NEMA receptacle)

ETL listed, suitable for wet locations.



Delta Intelligent Building Technologies

DS770FC Series

Dark Sky Acorn



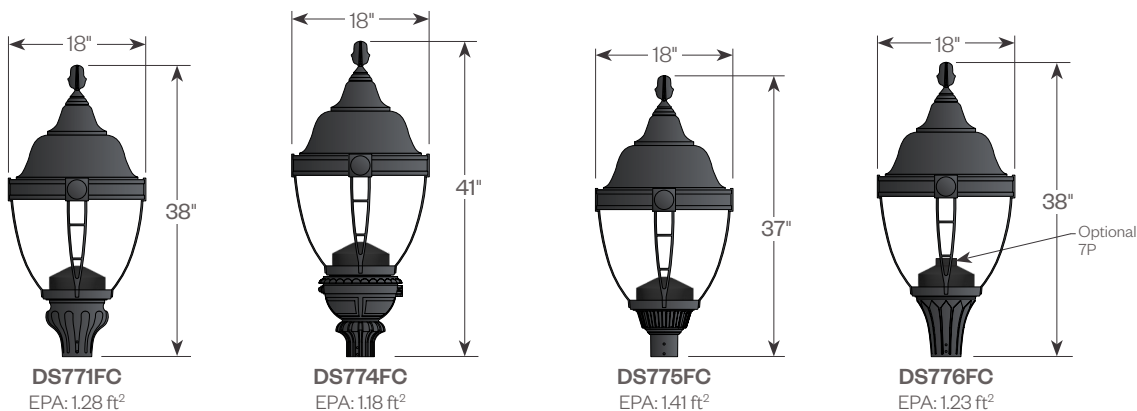
PROJECT:

TYPE:

Ordering Information

AVI-G3									
1	2	3	4	5	6	7	8		
1	Model	2	LED Modules	3	Light Distribution	4	CCT	5	Drive Current
	DS771FC	2M	2 modules	T2	Type II	30*	3000K	530M	530mA
	DS774FC	3M	3 modules	T3	Type III	40	4000K	600M	600mA
	DS775FC	4M	4 modules	T4	Type IV	* To meet DarkSky International fixture seal of approval 3000K cct must be selected.			Note: 120V-277V auto-sensing driver is standard. Consult factory for 347V/480V option.
	DS776FC			T5	Type V				
7	Finish	8	Accessories						
	BLK	satin black							
	CLB	classic bronze							
	GBZ	gloss textured bronze							
	GRN	green							
	GTB	gloss textured black							
	TBK	textured black							
	TGR	gloss textured green							
	CSTM	custom							
		PCL	dusk-to-dawn button type photocell (not available for use with 7P)						
		BLS	backlight shield						
		SSINT-1	integrated wireless control node (for operation on the SmartSite control platform)						
		7P	optional 7-pin NEMA receptacle for wireless control or photocell (to allow installation of a wireless control node)						
		TW-PCL	twist-lock photocell (for use with 7P receptacle)						
		SC	shorting cap						

Product Details



DS770FC Series

Dark Sky Acorn



PROJECT:

TYPE:

Performance Data

Multiplying Factors: (Multiplying Factor is based on 3000K IES file on website)

CCT:	3000K	4000K
Factor:	1.0	1.08

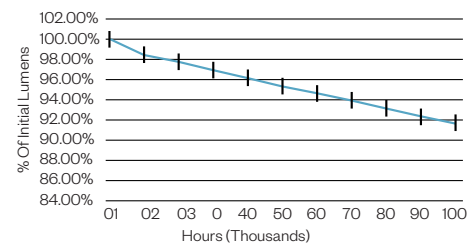
Modules	System Watts	Distribution	CCT	Luminaire Lumens		BUG Rating
				530mA	600mA	
2M	44W (530mA) 49W (600mA)	T2	3000K	4323	4842	1-0-1
			4000K	4669	5229	
		T3	3000K	4363	4888	
			4000K	4713	5279	
		T4	3000K	4221	4728	1-0-2
			4000K	4559	5106	
		T5	3000K	4409	4938	2-0-1
			4000K	4762	5333	
3M	60W (530mA) 67W (600mA)	T2	3000K	6467	7243	2-0-2
			4000K	6984	7822	
		T3	3000K	6521	7304	
			4000K	7043	7888	
		T4	3000K	6315	7073	1-0-2
			4000K	6820	7638	
		T5	3000K	6595	7386	3-0-1
			4000K	7123	7978	
4M	79W (530mA) 88W (600mA)	T2	3000K	8499	9519	2-0-2
			4000K	9179	10,280	
		T3	3000K	8566	9594	
			4000K	9251	10,361	
		T4	3000K	8298	9294	3-0-2
			4000K	8962	10,037	
		T5	3000K	9090	10,181	
			4000K	9818	10,996	

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.



DS770FC Series

Dark Sky Acorn

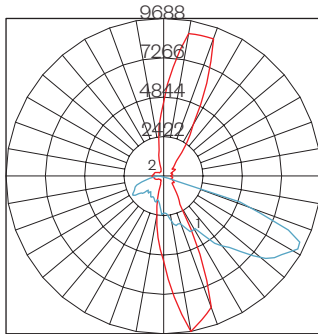


PROJECT:

TYPE:

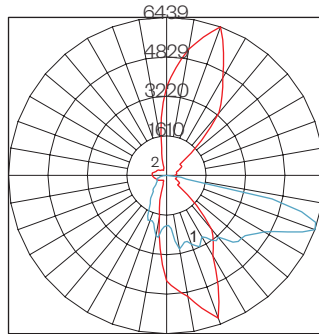
Performance Data (continued)

DS770FC-4M-T2-4K



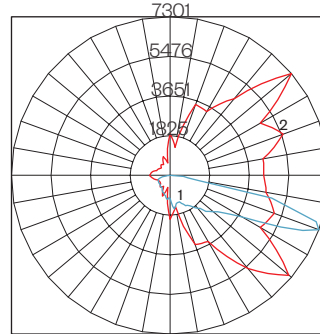
Maximum Candela = 9688
Located At Horizontal Angle = 280; Vertical Angle = 62.5
#1 - Vertical Plane Through Horizontal Angles (280-100)*
#2 - Horizontal Cone Through Vertical Angle (62.5)*
* Through Max. Cd.

DS770FC-4M-T3-4K



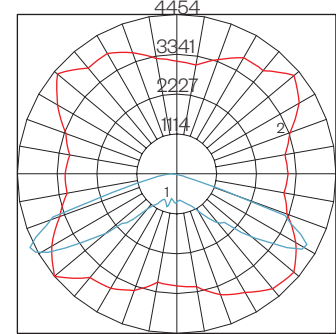
Maximum Candela = 6439
Located At Horizontal Angle = 70; Vertical Angle = 70
#1 - Vertical Plane Through Horizontal Angles (70-250)*
#2 - Horizontal Cone Through Vertical Angle (70)*
* Through Max. Cd.

DS770FC-4M-T4-4K



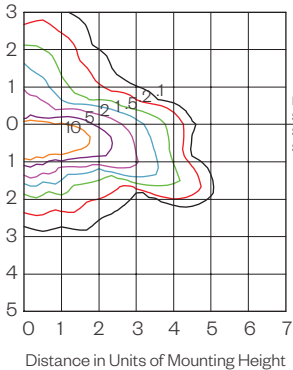
Maximum Candela = 7301
Located At Horizontal Angle = 40; Vertical Angle = 70
#1 - Vertical Plane Through Horizontal Angles (40-220)*
#2 - Horizontal Cone Through Vertical Angle (70)*
* Through Max. Cd.

DS770FC-4M-T5-4K

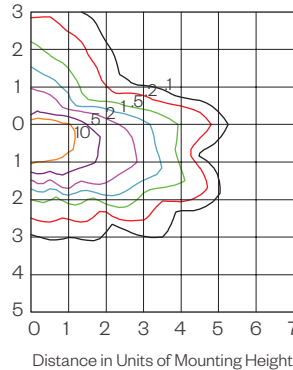


Maximum Candela = 4454
Located At Horizontal Angle = 220; Vertical Angle = 62.5
#1 - Vertical Plane Through Horizontal Angles (220-40)*
#2 - Horizontal Cone Through Vertical Angle (62.5)*
* Through Max. Cd.

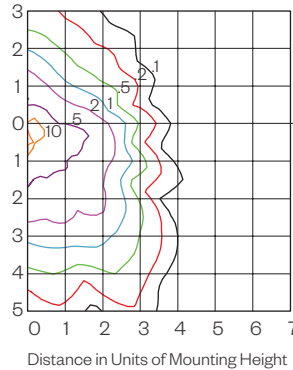
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



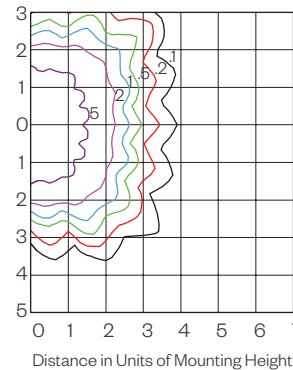
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



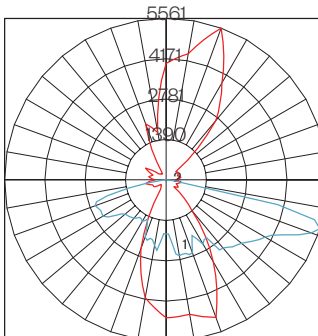
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Customizable Performance

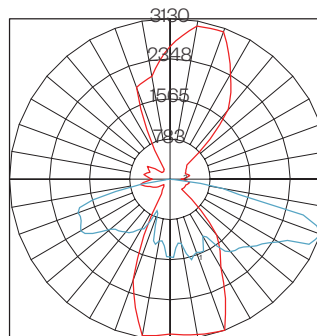
Photometry can be modified using different drive currents and a combination of lenses. Consult factory. See examples below.

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.

