

Project		Catalog #		Type	
Prepared by		Notes		Date	



## HALO

### LT56 Selectable CCT – Smooth Splay

5”/6” All-Purpose LED Retrofit Module  
600 Lumen Series

#### Typical Applications

Residential

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#### Product Certification



Refer to ENERGY STAR® Certified Products List.  
Can be used to comply with California Title 24 High Efficacy requirements.  
Certified to California Appliance Efficiency Database under JAS.

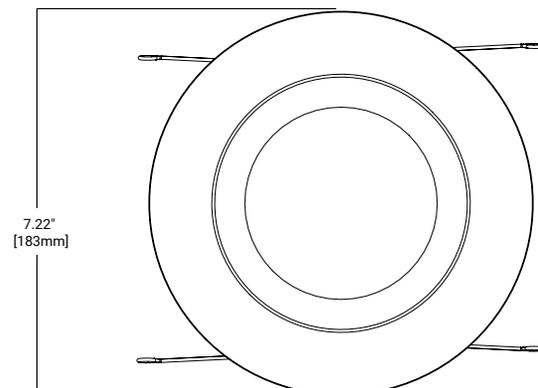
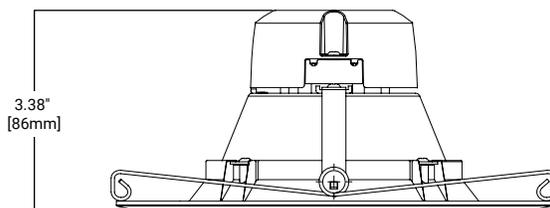
#### Product Features



#### Top Product Features

- Selectable CCT: 2700K, 3000K, 3500K or 3000K, 4000K, 5000K
- Smooth splay
- Dimmable down to 10%
- Retrofits into existing 5” or 6” housings
- Use with Halo 5” or 6” LED housings - new construction and remodel
- Wet location listed and “dead front”

#### Dimensional and Mounting Details



## Order Information

SAMPLE ORDER NUMBER: **LTSS56069FS351EWHWR**

A complete luminaire consists of a housing and a LED integrated trim, order separately.

Module	Lumens	CRI/CCT	Driver	Finish	Packaging
<b>LTSS56</b> = 5/6-inch LED retrofit module, smooth splay	<b>06</b> = 600 lumens (nominal)	<b>9FS23</b> = 90 CRI min, 2700K, 3000K, 3500K selectable CCT <b>9FS35</b> = 90 CRI min, 3000K, 4000K, 5000K selectable CCT	<b>1E</b> = 120V 60Hz, LE & TE phase cut 10% dimming	<b>WHW</b> = Matte white flange, white splay	<b>R</b> = Recyclable 4-color unit carton

### Accessories

#### Accessories

**HE26LED** = Replacement medium base (E26) screw base adapter (one included with unit)

### Housings

#### Housings

##### Halo LED 5-inch

**H550ICAT** = 5" LED, Insulated Ceiling, Air-Tite, New Construction Housing  
**H550RICAT** = 5" LED, Insulated Ceiling, Air-Tite, Remodel Housing  
**E550ICAT** = 5" LED, Insulated Ceiling, Air-Tite, New Construction Housing  
**E550RICAT** = 5" LED, Insulated Ceiling, Air-Tite, Remodel Housing  
**H550FR2ICATD010** = 6" IC, airtight, 2 hour fire rated, new construction housing, LED, 120 - 277V

##### Halo LED 6-inch

**H750ICAT** = 6" LED, Insulated Ceiling, Air-Tite, New Construction Housing  
**H750RICAT** = 6" LED, Insulated Ceiling, Air-Tite, Remodel Housing  
**H750T** = 6" LED, Non-IC, Air-Tite, New Construction Housing  
**H750TCP** = 6" LED, Non-IC, New Construction/Remodel Chicago Plenum Housing  
**H2750ICAT** = 6" LED, Shallow, Insulated Ceiling, Air-Tite, New Construction (use with 691X, 694X, 696X trims only)  
**H2750RICAT** = 6" LED, Shallow, Insulated Ceiling, Air-Tite, Remodel (use with 691X, 694X, 696X trims only)  
**E750ICAT** = 6" LED, Insulated Ceiling, Air-Tite, New Construction Housing  
**E750RICAT** = 6" LED, Insulated Ceiling, Air-Tite, Remodel Housing  
**H750FR2ICAT** = 6" IC, airtight, 2 hour fire rated, new construction housing, LED, 120 - 277V

##### Halo LED retrofit

**ML7E26RFK** = 6" Retrofit Enclosure, Non-IC, E26 Screw base Interface  
**ML7BXFK** = 6" Retrofit Enclosure, Non-IC, BX Whip

##### Halo Shallow Housings 5-inch

**H25ICAT** = 5" Shallow, Insulated Ceiling, Air-Tite New Construction  
**H25RICAT** = 5" Shallow, Insulated Ceiling, Air-Tite Remodel  
**H25ICATNB** = 5" Shallow, Insulated Ceiling, Air-Tite New Construction, No Socket Bracket

##### Halo Shallow Housings 6-inch

**H27ICAT** = 6" Shallow, Insulated Ceiling, Air-Tite New Construction  
**H27RICAT** = 6" Shallow, Insulated Ceiling, Air-Tite Remodel Housing  
**H27T** = 6" Shallow, Non-IC, New Construction Housing  
**H27RT** = 6" Shallow, Non-IC, Remodel Housing  
**E27ICAT** = 6" Shallow, Insulated Ceiling, Air-Tite New Construction  
**E27RICAT** = 6" Shallow, Insulated Ceiling, Air-Tite Remodel Housing  
**E27TAT** = 6" Shallow, Non-IC, New Construction Housing  
**E27RTAT** = 6" Shallow, Non-IC, Remodel Housing

##### Halo Standard Housings 5-inch

**H5ICAT** = 5" Insulated Ceiling, Air-Tite New Construction Housing  
**H5RICAT** = 5" Insulated Ceiling, Air-Tite Remodel Housing  
**H5ICATNB** = 5" Insulated Ceiling, Air-Tite New Construction Housing, No Socket Bracket  
**H5T** = 5" Non-IC, New Construction Housing  
**H5RT** = 5" Non-IC, Remodel Housing  
**H5TNB** = 5" Non-IC, New Construction Housing, No Socket Bracket  
**ESICAT** = 5" Insulated Ceiling, Air-Tite New Construction Housing  
**ESRICAT** = 5" Insulated Ceiling, Air-Tite Remodel Housing  
**ESICATNB** = 5" Insulated Ceiling, Air-Tite New Construction Housing, No Socket Bracket  
**ESTAT** = 5" Non-IC, New Construction Housing  
**ESTATNB** = 5" Non-IC, Remodel Housing  
**ESTATNB** = 5" Non-IC, New Construction Housing, No Socket Bracket

##### Halo Standard Housings 6-inch

**H7ICAT** = 6" Insulated Ceiling, Air-Tite New Construction Housing  
**H7RICAT** = 6" Insulated Ceiling, Air-Tite Remodel Housing  
**H7ICT** = 6" Insulated Ceiling, New Construction Housing  
**H7RICT** = 6" Insulated Ceiling, Remodel Housing  
**H7ICATNB** = 6" Insulated Ceiling, Air-Tite New Construction Housing, No Socket Bracket  
**H7ICTNB** = 6" Insulated Ceiling, New Construction Housing, No Socket Bracket  
**H7T** = 6" Non-IC, New Construction Housing  
**H7RT** = 6" Non-IC, Remodel Housing  
**H7TNB** = 6" Non-IC, New Construction Housing, No Socket Bracket  
**H7TCP** = 6" Non-IC, Chicago Plenum, New Construction/Remodel Housing  
**H7UICAT** = 6" Insulated Ceiling, Universal, Air-Tite, New Construction Housing  
**H7ICAT** = 6" Insulated Ceiling, Air-Tite New Construction Housing  
**E7RICAT** = 6" Insulated Ceiling, Air-Tite Remodel Housing  
**E7ICATNB** = 6" Insulated Ceiling, Air-Tite New Construction Housing, No Socket Bracket  
**E7TAT** = 6" Non-IC, New Construction Housing  
**E7RTAT** = 6" Non-IC, Remodel Housing  
**E7TATNB** = 6" Non-IC, New Construction Housing, No Socket Bracket

#### Notes

**LT56 Series LED Retrofit is UL Classified for retrofit in the following 5/6" recessed housings:**

The LT Series LED light module - trim combination is cULus Listed or UL Classified for use with any 5"/6" diameter recessed housing constructed of steel or aluminum with an internal volume that exceeds 107.9 in3 in addition to those noted above.

## Specification Features

### Module

- LED module consists of LED array, optical assembly, driver and self-flanged trim
- Smooth splay
- Achieving L70 at 35,000 hours in IC and non-IC applications

### Gaskets

- Closed cell gasket achieves restrictive airflow requirements without additional caulking

### LED Array

- A plurality of low power LEDs provide a uniform source with high efficiency and long life
- Available in 90 CRI minimum, R9 greater than 50 and color accuracy within 4 SDCM provide color accuracy and uniformity
- Available in 3-color selectable CCT: choose 2700K, 3000K, 3500K or 3000K, 4000K, 5000K

### Optical Assembly

- Optical assembly provides wide distribution useful for general and task lighting
- Diffuse injection molded lens with contoured profile provides uniformity and a familiar lamp like appearance
- Meets ENERGY STAR® color angular uniformity requirements

### Driver

- Integral 120V 60 Hz constant current driver provides high efficiency operation
- Continuous, flicker-free dimming from 100% to 10% with select leading or trailing edge 120V phase cut dimmers – consult dimming guide for more information
- Consult dimmer manufacturer for compatibility and conditions of use
- Inline electrical quick connect and E26 adapter (provided) provides mains connection
- A separate ground wire and mounting hardware insures proper ground connection to housing

### Retention

- Heat treated friction blades hold module securely to the housing
- Torsion springs are pre-installed and adjust to fit 5" and 6" compatible housings

### Trim

- One-piece smooth splay or step baffle and self-flanged trim ring provides lens regression and reduces light leaks
- Injection molded plastic construction is impact resistant and non-corrosive
- Non-conductive construction meets most local code 'dead front' requirements

### Compliance

- UL Certified for US and Canada for use with Halo housings, classified for use with other's housings, see instruction sheet for conditions of acceptability
- Wet location listed
- Air-tite per ASTM-E283
- Suitable for use in clothes closets when installed in accordance with the NEC 410.16 spacing requirements
- EMI/RFI emissions per FCC 47CFR Part 15 consumer limits
- Contains no mercury or lead and RoHS compliant
- Photometric testing in accordance with IES LM79-08
- Lumen maintenance projections in accordance with IES LM-80-08 and TM-21-11
- Can be used for State of California Title 24 high efficacy luminaire compliance, reference the California Energy Commission Title 20 Appliance Efficiency Database for current listings
- ENERGY STAR® listed, reference database for current listings
- Meets State of California voluntary lamp standards

### Warranty

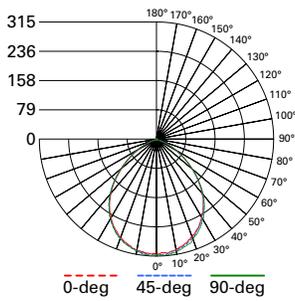
- Five year limited warranty, consult website for details. [www.cooperlighting.com/legal](http://www.cooperlighting.com/legal)

## Energy Data

Energy Data	
Lumens	600 Series
Input Voltage	120V
Input Current	0.06 (A)
Input Power	6.97 (W)
Efficiency	Up to 88 (LPW)
Inrush	2 (A)
THD: ≤ 17.2%	
PF: ≥ 0.960	
T Ambient -30 - +40°C	
Sound Rating ≤ 23dba	

## Photometric Data

View IES files



### LTSS56069FS231EWHWR - 2700K

Spacing criterion: (0-180) 1.17  
(90-270) 1.19  
(Diagonal) 1.25

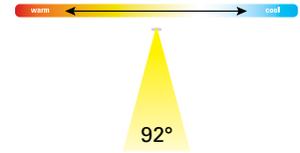
Beam Angle: 92°  
Lumens: 649  
Input Watts: 6.94 W  
Efficacy: 93.6 LPW  
UGR: 17

Test Report:  
LTSS56069FS231EWHWR.ies

Zonal Lumen	Lumens	% Lumens
0-30	236	36.3
0-40	375	57.7
0-60	586	90.2
0-90	645	99.3

TM-30-15	Rf = 92
	Rg = 99
CRI/CIE	Ra = 94
	R9 = 62

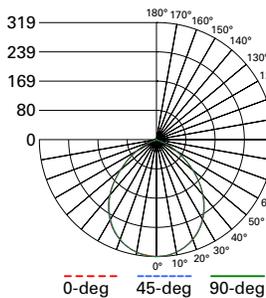
CCT - Range of 2700K- 5000K



LT56 3CCT Splay - 2700K / 3000K / 3500K				
CCT	Watts	lumens	LPW	CRI
2700K	7.1	635	89.3	92
3000K	6.8	695	102.2	93
3500K	7.1	690	97.2	91

### LTSS56069FS231EWHWR - 3000K

PRODUCT SPECIFICATIONS	
Lumens	695
Watts	6.8
Lumens Per Watt (Efficacy)	102.2
Color Accuracy (CRI)	93
Light Color (CCT)	3000K
Correlated Color Temperature (CCT)	
warm white	soft white
2700K	3000K
4500K	6500K



### LTSS56069FS351EWHWR - 3000K

Spacing criterion: (0-180) 1.18  
(90-270) 1.18  
(Diagonal) 1.25

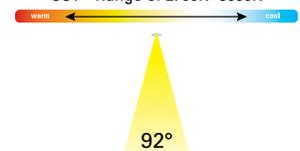
Beam Angle: 92°  
Lumens: 666  
Input Watts: 6.94 W  
Efficacy: 96 LPW  
UGR: 17

Test Report:  
LTSS56069FS351EWHWR.ies

Zonal Lumen	Lumens	% Lumens
0-30	241	36.2
0-40	383	57.6
0-60	600	90.1
0-90	662	99.3

TM-30-15	Rf = 92
	Rg = 99
CRI/CIE	Ra = 94
	R9 = 63

CCT - Range of 2700K- 5000K



LT56 3CCT Splay - 3000K / 4000K / 5000K				
CCT	Watts	lumens	LPW	CRI
3000K	7.2	645	89.6	92
4000K	7.0	695	100.0	93
5000K	7.3	675	92.5	92

### LTSS56069FS351EWHWR - 3000K

PRODUCT SPECIFICATIONS	
Lumens	645
Watts	7.2
Lumens Per Watt (Efficacy)	89.6
Color Accuracy (CRI)	92
Light Color (CCT)	3000K
Correlated Color Temperature (CCT)	
warm white	soft white
2700K	3000K
4500K	6500K