

Project		Catalog #		Type	
Prepared by		Notes		Date	



HALO

LT4 Selectable CCT

4" 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 JA8.

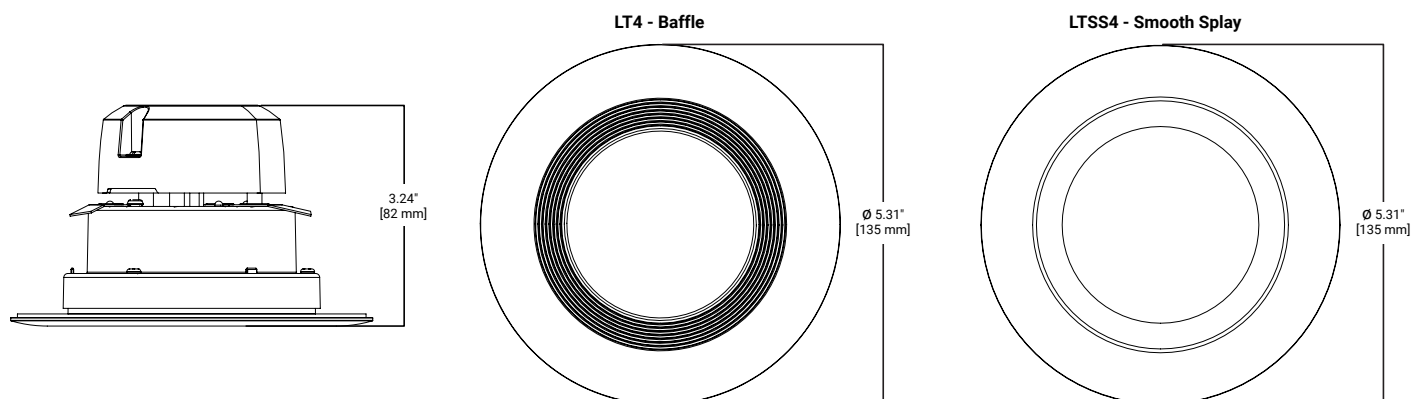
Product Features



Top Product Features

- Selectable CCT: 2700K, 3000K, 3500K or 3000K, 4000K, 5000K
- Options for smooth splay or baffle trim
- Dimmable down to 10%
- Retrofits into existing 4" housings
- Use with Halo 4" LED housings - new construction and remodel
- Wet location listed and "dead front"

Dimensional and Mounting Details



Order Information

SAMPLE ORDER NUMBER: **LT4069FS351EWHR**

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

Module	Lumens	CRI/CCT	Driver	Finish	Packaging
LT4 = 4-inch LED retrofit module, baffle trim LTSS4 = 4-inch LED retrofit module, smooth splay	06 = 600 lumens (nominal)	9FS23 = 90 CRI min, 2700K, 3000K, 3500K selectable CCT 9FS35 = 90 CRI min, 3000K, 4000K, 5000K selectable CCT	1E = 120V 60Hz, LE & TE phase cut 10% dimming	WH = Matte White flange	R = Recyclable 4-color unit carton

Accessories

Accessories

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

Housings

Housings

Halo Ultra-shallow LED Housings

H2451CAT = 4" IC, airtight ultra-shallow new construction housing, LED, 120 - 277V
H245RICAT = 4" IC, airtight ultra-shallow remodeler housing, LED, 120 - 277V

Halo LED Housings

H9951CAT = 4" IC, airtight shallow new construction housing, LED, 120 - 277V
H995RICAT = 4" IC, airtight shallow remodeler housing, LED, 120 - 277V
H450FR2ICATD010 = 4" fire safe new construction housing for phase-cut and 0-10V LED retrofit modules, 120-277V

Halo Housings

H99TAT = 4" non-IC, airtight shallow new construction housing, E26, 120V
H99RTAT = 4" non-IC, airtight shallow remodeler housing, E26, 120V
H99ICAT = 4" IC, airtight shallow new construction housing, E26, 120V
E4TATSB = 4" non-IC, airtight shallow new construction housing, adjustable socket bracket, E26, 120V
E4RTATSB = 4" non-IC, airtight shallow remodeler housing, adjustable socket bracket, E26, 120V
E4ICATSB = 4" non-IC, airtight shallow new construction housing, adjustable socket bracket, E26, 120V

LT4 Series LED Retrofit is UL Classified for retrofit in the following 4" recessed housings:

The LT Series LED light module - trim combination is UL/cUL Listed or UL Classified for use with any 4" diameter recessed housing constructed of steel or aluminum with an internal volume that exceeds 62.3 in³ in addition to those noted above.

Specification Features

Module

- LED module consists of LED array, optical assembly, driver and self-flanged trim
- Available in smooth splay or baffle style trim
- 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
- Push-n-Twist feature pulls housing tight to ceiling by rotating clockwise
- Friction blades swing out of position by rotating counter-clockwise from below the ceiling for service or replacement

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

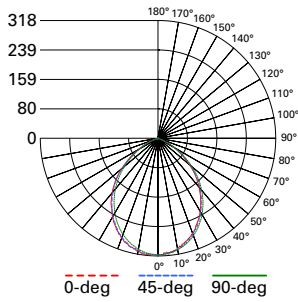
- Five year limited warranty, consult website for details. www.cooperlighting.com/legal

Energy Data

Energy Data	
Lumens	600 Series
Input Voltage	120V
Input Current	0.06 (A)
Input Power	6.97 (W)
Efficiency	Up to 84 (LPW)
Inrush	2 (A)
THD: ≤ 17.2%	
PF: ≥ 0.960	
T Ambient -30 - +40°C	
Sound Rating ≤ 23dba	

Photometric Data

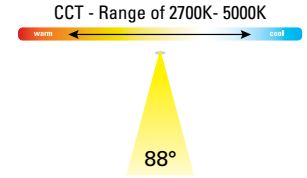
[View IES files](#)



LT4069FS231EWHR - 2700K
 Spacing criterion: (0-180) 1.13
 (90-270) 1.13
 (Diagonal) 1.21
 Beam Angle: 88°
 Lumens: 622
 Input Watts: 6.84 W
 Efficacy: 91 LPW
 UGR: 19
 Test Report:
 LT4069FS231EWHR.ies

Zonal Lumen	Lumens	% Lumens
0-30	233	37.4
0-40	365	58.7
0-60	565	90.8
0-90	619	99.4

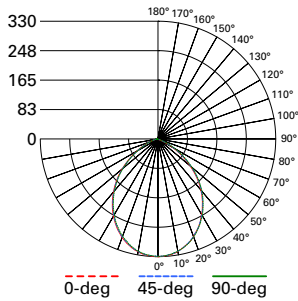
TM-30-15	Rf = 92
	Rg = 99
CRI/CIE	Ra = 94
	R9 = 61



LT4 3CCT Baffle - 2700K / 3000K / 3500K				
CCT	Watts	lumens	LPW	CRI
2700K	7.2	605	83.8	92
3000K	6.8	665	98.1	92
3500K	7.1	655	92.4	93

LT4069FS231EWHR - 3000K

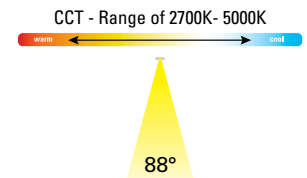
PRODUCT SPECIFICATIONS			
Lumens	665		
Watts	6.8		
Lumens Per Watt (Efficacy)	97.8		
Color Accuracy (CRI)	92		
Light Color (CCT)	3000K		
Correlated Color Temperature (CCT)			
warm white	soft white	bright white	
2700K	3000K	4500K	6500K



LT4069FS351EWHR - 3000K
 Spacing criterion: (0-180) 1.13
 (90-270) 1.13
 (Diagonal) 1.21
 Beam Angle: 88°
 Lumens: 645
 Input Watts: 6.81 W
 Efficacy: 94.8 LPW
 UGR: 19
 Test Report:
 LT4069FS351EWHR.ies

Zonal Lumen	Lumens	% Lumens
0-30	242	37.5
0-40	379	58.7
0-60	586	90.8
0-90	642	99.4

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



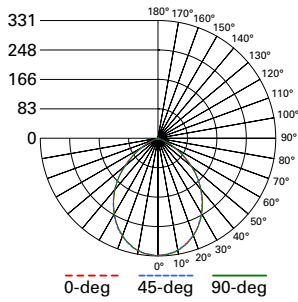
LT4 3CCT Baffle - 3000K / 4000K / 5000K				
CCT	Watts	lumens	LPW	CRI
3000K	7.2	630	88.1	92
4000K	6.8	680	99.4	93
5000K	7.2	655	91.6	93

LT4069FS351EWHR - 3000K

PRODUCT SPECIFICATIONS			
Lumens	630		
Watts	7.2		
Lumens Per Watt (Efficacy)	87.5		
Color Accuracy (CRI)	92		
Light Color (CCT)	3000K		
Correlated Color Temperature (CCT)			
warm white	soft white	bright white	
2700K	3000K	4500K	6500K

Photometric Data

[View IES files](#)



LTSS4069FS231EWHWR - 2700K

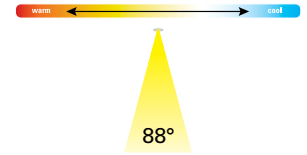
Spacing criterion: (0-180) 1.12
(90-270) 1.13
(Diagonal) 1.21

Beam Angle: 88°
Lumens: 635
Input Watts: 6.9 W
Efficacy: 92 LPW
UGR: 19
Test Report:
LTSS4069FS231EWHWR.ies

Zonal Lumen	Lumens	% Lumens
0-30	241	37.9
0-40	376	59.3
0-60	578	91.1
0-90	631	99.5

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

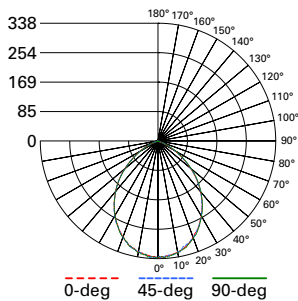
CCT - Range of 2700K- 5000K



LT4 3CCT Splay - 2700K / 3000K / 3500K				
CCT	Watts	lumens	LPW	CRI
2700K	7.1	605	85.2	93
3000K	6.8	665	97.7	93
3500K	7.1	660	93.0	92

LTSS4069FS231EWHWR - 3000K

PRODUCT SPECIFICATIONS	
Lumens	665
Watts	6.8
Lumens Per Watt (Efficacy)	97.7
Color Accuracy (CRI)	93
Light Color (CCT) Correlated Color Temperature (CCT)	3000K



LTSS4069FS351EWHWR - 3000K

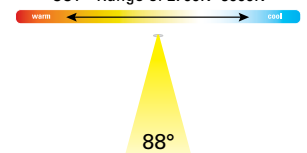
Spacing criterion: (0-180) 1.12
(90-270) 1.12
(Diagonal) 1.2

Beam Angle: 88°
Lumens: 646
Input Watts: 6.95 W
Efficacy: 93 LPW
UGR: 19
Test Report:
LTSS4069FS351EWHWR.ies

Zonal Lumen	Lumens	% Lumens
0-30	245	37.9
0-40	383	59.2
0-60	589	91.1
0-90	643	99.5

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

CCT - Range of 2700K- 5000K



LT4 3CCT Splay - 3000K / 4000K / 5000K				
CCT	Watts	lumens	LPW	CRI
3000K	7.1	640	90.1	92
4000K	6.8	680	100.0	93
5000K	7.1	655	92.3	92

LTSS4069FS351EWHWR - 3000K

PRODUCT SPECIFICATIONS	
Lumens	640
Watts	7.1
Lumens Per Watt (Efficacy)	90.1
Color Accuracy (CRI)	92
Light Color (CCT) Correlated Color Temperature (CCT)	3000K