

Project		Catalog #		Type	
Prepared by		Notes		Date	



HALO

LT4 Selectable CCT – Smooth Splay

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 JAB.

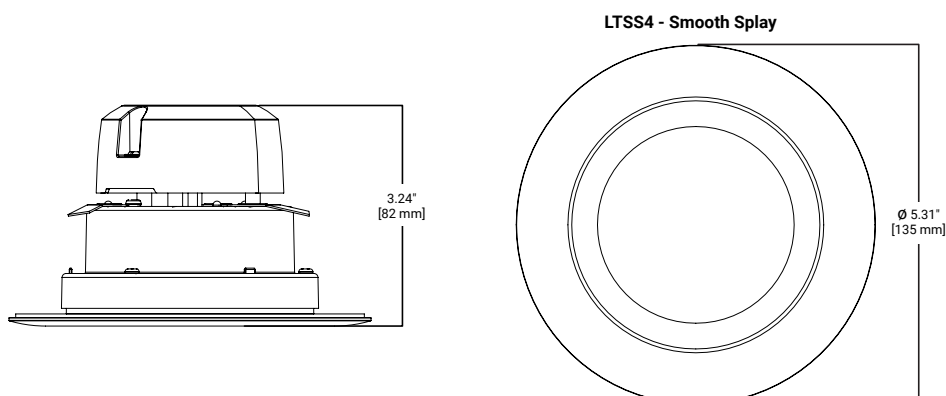
Product Features



Top Product Features

- Selectable CCT: 2700K, 3000K, 3500K or 3000K, 4000K, 5000K
- Smooth splay
- 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: **LTSS4069FS351EWHWR**

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

Module	Lumens	CRI/CCT	Driver	Finish	Packaging
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	WHW = Matte white flange, white splay	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 H245ICAT = 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 H995ICAT = 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
- 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
- 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

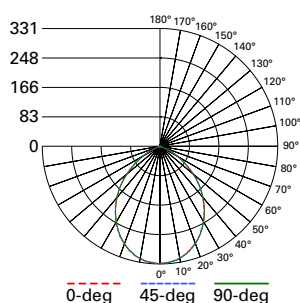
Warranty

- 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
**LTSS4069FS231EWHWR - 2700K**

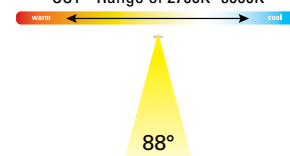
Spacing criterion: (0-180) 1.12
(90-270) 1.13
(Diagonal) 1.21

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

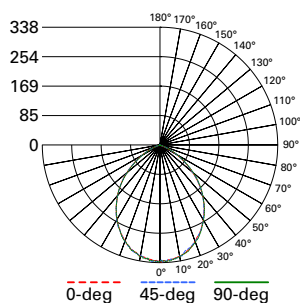
CCT - Range of 2700K- 5000K

**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)	3000K
Correlated Color Temperature (CCT)	
	
2700K 3000K 4500K 6500K	

**LTSS4069FS351EWHWR - 3000K**

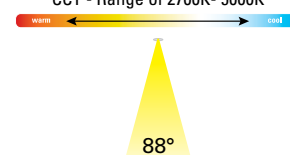
Spacing criterion: (0-180) 1.12
(90-270) 1.12
(Diagonal) 1.2

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)	3000K
Correlated Color Temperature (CCT)	
	
2700K 3000K 4500K 6500K	