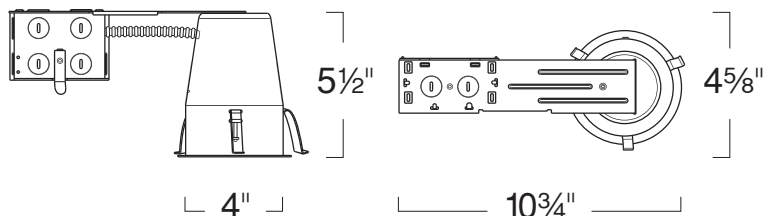


3.5" 12W Remodel LED Housing w/ 3.5" LED 12W Reflector Downlight 3.5" MINI-ARC LED LIGHTING



SPECIFICATION

Ceiling cut-out: 4 1/2"

Application: High-output architectural-grade miniature recessed LED downlight housing is perfect for remodel applications. Designed for low to medium height ceilings in commercial and architectural applications. A variety of trims, styles and finishes are available to achieve desired decor and illumination.

Housing: Pre-wired housing adjusts up to a 1 1/4" ceiling thickness. Integral thermal protector to guard against improper lamping and installation. Trim is secured with torsion wing springs.

Mounting: Housing suitable for existing or new construction installations, supplied with high tension remodeling clips, designed to secure the housing to an existing sheetrock ceiling for fast and easy installation.

Driver: Electronic Direct Current LED driver integrally mounted in electric junction box.

Power Connection: LED lamp array is replaceable via on board quick disconnect terminal. Meets CA Title 24 Requirements and other standards restricting the use of Medium Base or Bi-Pin Sockets.

Lumen Maintenance: Minimum 50,000 hours L70 life based on ANSI TM-21 calculations from LM80 standardized test results.

Thermal Management: Effective thermal dissipation facilitated by integral cast-aluminum, heat sink design for maximum heat rejection to provide long LED life.

Junction Box : 16 gauge pre-wired galvanized steel Junction Box, 32 cubic-inch for a maximum of (8) #12 AWG wires. Furnished with (7) 3/4" and (4) Romex knock-outs. Strain clamps to install or remove covers for easy access and ground wire. Equipped with safety standard fitting for flex-conduit.

Insulation Contact: Non-IC rated housing must be kept 3" from insulation.

Dimming: 0-10V dimming option (-D10) works with most 5-Wire 0-10V dimmers. UniDim™ (-DUN) option is a universal dimming system that works with most 3-Wire ELV, 2-Wire Incandescent and 5-Wire 0-10V fluorescent dimmers.

Caution: LITON recommends use of surge protectors on the power entering LED Housings. Surge damage is not covered by warranty.

Label: cETL Listed

FEATURE:



Application: High-output miniature architectural-grade LED reflector trim for commercial and high-end residential installations. Designed for low to medium height ceilings. Trim ring constructed of heavy-duty die-cast aluminum.

Lumen Maintenance: Minimum 50,000 hours L70 life based on ANSI TM-21 calculations from LM80 standardized test results.

Thermal Management: Effective thermal dissipation facilitated by integral cast-aluminum, heat sink design for maximum heat rejection to provide long LED life.

Warm Dimming: With this new technology, you can create the warm glow of traditional incandescent dimming while offering extraordinary energy efficiency and service life of LED Lighting. Allow for fixture start at a full 2700K when at full-brightness and smoothly dim down to 5% level with the warm glow of 1850K using dimming option the frame-in kit.

Mounting: Steel pressure springs mounted on trim to ensure positive retention inside housing.

Safety Labels: Suitable for dry and damp locations. NYC approved: Calendar #41937

Power Connection: LED lamp array is replaceable via on board quick disconnect terminal. Meets CA Title 24 Requirements and other standards restricting the use of Medium Base or Bi-Pin Sockets.

Warranty: Covered by a 5 Year Warranty to be free of defects in materials and craftsmanship. Recommended for applications where ambient temperatures do not exceed 35°C, installations exceeding this temperature will result in reduced LED lamp life and a voided warranty.

Label: cETL Listed

Made in USA

3.5" 12W REMODEL LED HOUSING LHBLD4R 12W Max LED

WATTAGE	OPTION	EMERGENCY
LHBLD4R12C35 :12W	Blank :120V Non-Dimming	Blank :None
	UE :120V/277V	-EM :Remote 5W Emergency*
	UE-D10 :120V/277V 0-10V	
	UE-DHL :Hi-Lume Dimming (120V/277V)	
	UE-DUN :120V-277V (ELV/0-10V Universal Dimming)	
	-DIN :120V Incandescent Dimming	
	-347-D10 :0-10V 10% Dimming	

*Above ceiling access required for EM option.

LED 12W REFLECTOR DOWNLIGHT LR4LH21 12W Max LED Ordering example: LHBLD4R12C35UE-DUN/LR4LH21N-B25-T40

REFLECTOR FINISH	BEAM SPREAD	LED	OPTIONS
LR4LH21W :All White	Blank :45° Narrow Flood	Blank :3000K	Blank :Damp Location
LR4LH21BB :All Black	-B25 :Spot*	-C90 :3000K, 90CRI	-WL :Wet Location
LR4LH21N :All Natural Metal	-B60 :60° Wide Flood	-C97 :3000K, 97CRI	
LR4LH21SW :Satin Haze Reflector/White Ring		-T17 :1700K*	
		-T25 :2500K*	
		-T27 :2700K	
		-T27-C90 :2700K 90+ CRI	
		-T27-C97 :2700K, 97CRI	
		-T35 :3500K	
		-T40 :4000K	
		-TWD :1850K-2700K Warm Dimming	

* Extended Lead Time may apply. Consult Factory.

3.5" LED Downlight Luminaire

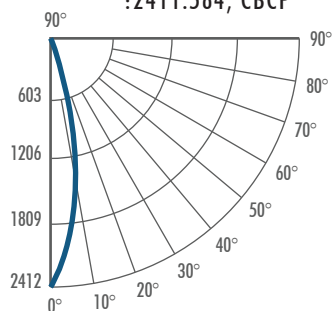
Total Luminaire Watts	:12W
Color Redering Index(CRI)	:84.19
Color Temperature	:3,072K
Estimated Life	:50,000 + hrs. -L70

MULTIPLIERS

FINISHES		COLOR TEMP	
Black	0.70	2,700K	0.97
White	0.87	3,000K	1.00
Satin	0.90	3,500K	1.01
Clear	1.00	4,000K	1.03

LR4LH21SW-B25 LED LUMINAIRE**CANDELA TABULATION**

:2411.584, CBCP

**ZONAL LUMENS SUMMARY**

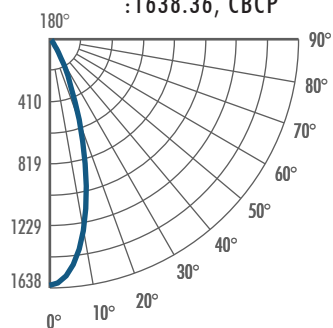
Zone	Lumens	% Fixt
0 - 20	416.62	55.00
0 - 30	592.65	78.20
0 - 40	695.95	91.90
0 - 60	742.61	98.00
0 - 80	755.48	99.70
0 - 90	757.63	100.00

RECOMMENDED LAYOUT

Height	Spacing	FC	Min/Max
8'	4 X 4	53	1.1:1
8'	6 X 6	25	1.8:1
10'	4 X 4	53	1.1:1
10'	6 X 6	25	1.6:1
12'	6 X 6	23	1.4:1

LR4LH21SW LED LUMINAIRE**CANDELA TABULATION**

:1638.36, CBCP

**ZONAL LUMENS SUMMARY**

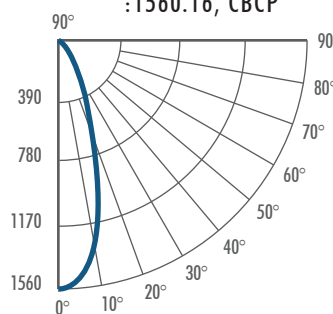
Zone	Lumens	% Fixt
0 - 20	394.92	64.00
0 - 30	543.24	88.00
0 - 40	593.17	96.10
0 - 60	615.91	99.80
0 - 90	617.44	100.00

RECOMMENDED LAYOUT

Height	Spacing	FC	Min/Max
8'	4 X 4	43	1.2:1
8'	6 X 6	21	2.1:1
10'	4 X 4	43	1.0:1
10'	6 X 6	20	1.4:1

LR4LH21SW-B60 LED LUMINAIRE**CANDELA TABULATION**

:1560.16, CBCP

**ZONAL LUMENS SUMMARY**

Zone	Lumens	% Fixt
0 - 20	393.31	55.10
0 - 30	571.60	80.10
0 - 40	650.79	91.20
0 - 60	699.00	98.00
0 - 80	709.39	99.40
0 - 90	713.47	100.00

RECOMMENDED LAYOUT

Height	Spacing	FC	Min/Max
8'	4 X 4	49	1.3:1
8'	6 X 6	23	1.7:1
10'	4 X 4	49	1.1:1
10'	6 X 6	23	1.3:1
12'	6 X 6	22	1.1:1