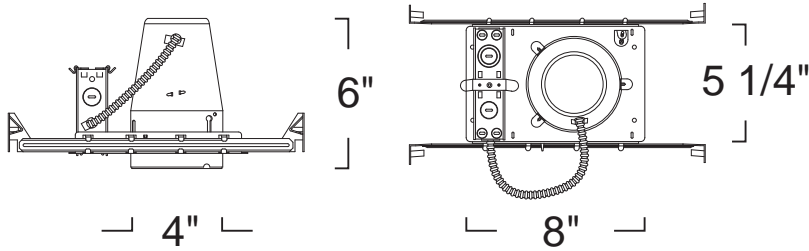


Standard E26 Housing w/ 4" 120V Basic Reflector Retrofit (Non-Dimming) LH99 SERIES - 4" LINE VOLTAGE RECESSED LIGHTING (PAR20/PAR30)



SPECIFICATION

Ceiling cut-out: 4 1/2"

Application: General purpose recessed downlight housing for low to medium height ceilings for residential and light commercial applications. A variety of trims, compatible styles and finishes are available to achieve the desired décor 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. Housing provides an adjustable socket plate which allows for use of different lamp types. Trim is secured with torsion wing springs.

Mounting: Housing suitable for new construction installations only, supplied with (2) 24" adjustable hanger bars with 90 degrees repositioning ability. Hanger bars equipped with nail-less install 3/4" serrated barbed studs and with captive nails, for faster and easier secure mounting in wood joists. Set-screws lock into position and prevent shifting after installation. Earthquake structural cable compatible for drop panel ceiling or any other mounting that requires direct support from structural ceilings.

Socket: Standard porcelain medium screw base socket with high temperature leads.

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.

Airflow: Airtight option is designed to restrict air flow from room into plenums in compliance to the WSEC - Washington State Energy Code, (Less than 2.0 CFM -Cubic Feet per Minute). Complies to Title24 air flow requirements (Air-tight).

Safety Labels: UL/CUL listed for through-branch wiring (8) No.12 AWG 90°C and suitable for damp locations. NYC approved: Calendar #41937.

Label: UL Listed, cETL Listed

FEATURE:



Gasket: Supplied with gasket to prevent light leakage and unsightly heat streaks on ceiling surface.

Power Connection: LED heat sinked lamp module is replaceable via onboard quick exclusionary disconnect terminal. No tools required. Meets CA Title 24 Requirements and other standards restricting the use of Medium Base or Bi-Pin Sockets.

Lumen Maintenance: Minimum 35,000 hours L70 life based on ANSI TM-21 calculations from LM80 standardized test results.

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

Color Temperature: Comes standard with 3,000K Warm White LED's binned according to ANSI C78 377A for color temperature and chromaticity ranges. Available with other color temperatures with ANSI binning of 2,700K, 3,500K & 4,000K. To order use "-T" Suffix followed by color temperature. Example 4000K= T40. Consult factory as extended lead times and minimum order quantities apply.

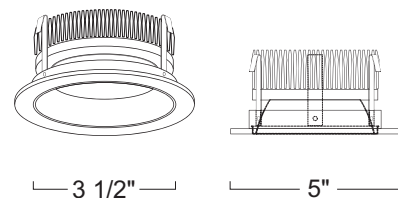
Retrofit: Designed for use with existing 4" Line Voltage housings like LITON Brand LH99, LH99R and LH99ICA

Warranty: Covered by a 3 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.

Certification: This LED product is certified as compliant with California's Title 24 Energy Code by the California Energy Commission.

Label: cETL Listed

Assembled in USA



STANDARD E26 HOUSING
LH99 120V 75W Max PAR30/PAR20 MED E26, 40W A19

4" 120V BASIC REFLECTOR RETROFIT (NON-DIMMING)
LRLD402 120V 10W LED

Ordering example: LH99A/LRLD402W-B45-R10V120

RATING
LH99A: Airtight

REFLECTOR FINISH	BEAM SPREAD
LRLD402BB : All Black	-B25-R10V120 : Narrow Flood
LRLD402C : Clear Reflector/White Ring	-B45-R10V120 : Flood
LRLD402W : All White	-B80-R10V120 : Super Wide Flood (SOL Lens)

Lamp: (6)LED w/40° Optics Lens
 Total Rated Fixture Lumen :490.85
 Total Luminaire Efficacy :44.10 Lm/W
 Luminous Diameter :2.76"
 Input Power (W) :11.13
 Input Current (Amp) :0.10
 Color Rendering Index (CRI) :83.77
 Color Temperature :2,933K

4" LED Downlight
 Luminaire
 IESNA Standard
 LM-79-2008
 Test # L09111703
 By:
 Light Laboratory, Inc.
 10W LRLD4

Lamp: (6)LED w/60° Optics Lens
 Total Rated Fixture Lumen :493.28
 Total Luminaire Efficacy :41.70 Lm/W
 Luminous Diameter :2.76"
 Input Power (W) :11.83
 Input Current (Amp) :0.11
 Color Rendering Index (CRI) :85.35
 Color Temperature :2,820K

4" LED Downlight
 Luminaire
 IESNA Standard
 LM-79-2008
 Test # L09111704
 By:
 Light Laboratory, Inc.
 10W LRLD4

ZONAL LUMEN SUMMARY

Zone	Lumens Beam Spread	
	40°	60°
0 - 10	174.15	90.10
10 - 20	182.76	201.40
20 - 30	48.04	107.24
30 - 40	19.42	36.12
40 - 50	17.32	18.90
50 - 60	12.18	10.90
60 - 70	15.18	12.33
70 - 80	12.35	9.26
80 - 90	9.46	7.03

Zone	Beam Spread: 40°		Beam Spread: 60°	
	Lumens	% Fixt	Lumens	% Fixt
0 - 30	404.95	82.50	398.74	80.80
0 - 40	424.37	86.50	434.86	88.20
0 - 60	453.86	92.50	464.66	94.20
0 - 90	490.85	100.00	493.28	100.00

HORIZONTAL FOOT CANDLES: FC VALUES

Distance	Beam Spread FC 25°		Beam Spread FC 40°		Beam Spread FC 60°	
	FC 25°	∅	FC 40°	∅	FC 60°	∅
3.0'	305.9	1.3'	154.0	2.2'	144.0	3.3'
6.0'	76.3	2.7'	58.0	4.4'	36.0	6.6'
9.0'	34.3	4.0'	29.0	6.6'	16.0	9.9'
12.0'	18.9	5.3'	11.0	8.7'	9.0	13.2'
19.0'	10.0	6.5'				

CANDELA TABULATION

Zone	Luminance (CD) Beam Spread	
	40°	60°
0.0	3370	1293
1.0	3301	1286
3.0	2974	1253
5.0	2501	1204
7.0	1992	1139
9.0	1518	1056
11.0	1115	946
13.0	790	821
15.0	546	698
17.0	373	581
19.5	232	445
22.5	134	307
25.5	83	204
29.0	53	123
33.0	37	67
37.5	28	36
42.5	23	24
47.5	20	19
55.0	18	15
65.0	14	11
75.0	10	7
85.0	5	4
90.0	0	0

LUMINANCE DATA (CD./SQ.M.)

Angle	Beam Spread: 40°		
	Avg. 0-Deg	Avg. 45-Deg	Avg. 90-Deg
45	7870	7870	7870
55	8123	8123	8123
65	8574	8574	8574
75	10000	10000	10000
85	14849	14849	14849

Angle	Beam Spread: 60°		
	Avg. 0-Deg	Avg. 45-Deg	Avg. 90-Deg
45	7870	7870	7870
55	6769	6769	6769
65	6737	6737	6737
75	7000	7000	7000
85	11879	11879	11879

