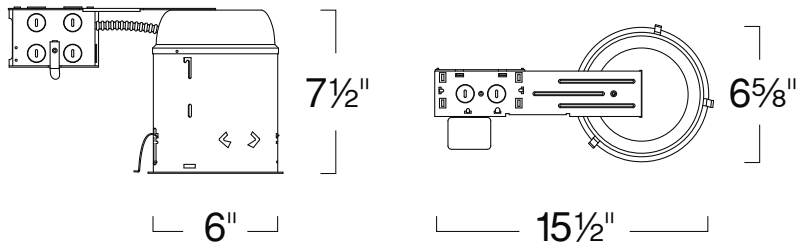


LHLDH6R - 6" IC REMODEL LED HOUSING (16W)

6" LED HOUSINGS (1200 LUMEN SERIES) - 90 CRI



FEATURE:



SPECIFICATION

Ceiling cut-out: 6 1/4"

120V 16W LED

Application: This energy efficient general purpose recessed LED housing is perfect for low to medium height ceilings in residential and light commercial applications. A variety of trim styles, finishes, beam spreads and wattages are available to achieve a desired look and lumen output.

Housing: Pre-wired dedicated L.E.D. housing adjusts up to a 1 1/2" ceiling thickness. L.E.D. trim is secured with torsion wing springs/standard coil springs or serrated clips.

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

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.

Driver: Electronic Direct Current U.L. Listed driver mounted away from LED Array for cool operation and end-of-life modularity. Comes standard with 120VAC input and available with optional 120V/277V universal voltage input.

Dimming: 'DIN' dimming option smoothly dims down to 5% of initial light output with flicker-free performance. Works with standard incandescent dimmers. Factory qualified for use with Lutron brand dimmers: S600PR, DVSCCL-153P & DV600PR as well as Leviton IP106-600W. Works with standard electronic low voltage (ELV) dimmers. Factory qualified for use with Lutron brand dimmers: SELV300P, DVELV-300P, MAELV-600 and NELV-450. 'D10' dimming option works with most 0-10V DC 5-wire 120V or 277V dimming systems and wall box dimmers.

Emergency Option: Remote Emergency Battery Back-up for minimum 90 minute operation. Mounted adjacent to fixture during installation. Remote test switch, plate cover and junction box included. See ordering guide for battery operated wattage. Damp location rated. 120V/277V AC operation.

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: Energy Efficient LED housing comes standard with IC rating for direct contact with loosefill blown and rolled 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).

COMPATIBILITY



LRLDH621
6" 1200 LUMEN DEEP LED REFLECTOR



LRLDH671
6" 1200 LUMEN LED WALL WASH



LRLDH678
6" 1200 LUMEN ADJUSTABLE LED GIMBAL

Note: Wattage limitations on compatible items must be met.

Safety Labels: ETL/CETL listed. Suitable for damp locations. NYC approved: Calendar #41937.

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.

Ceiling Type: Suitable for flat and sloped ceilings.

Label: cETL Listed

Assembled in USA

ORDERING

ORDERING EXAMPLE : LHLDH6R16C35UE-DHL-EM

LHLDH6R	VOLTAGE	OPTIONS
LHLDH6R	16C35 :120V Non-Dimming	Blank: None
	16C35-DIN :120V Dimming	-EM :Emergency Back-Up (8W)
	16C35UE :120V/277V	-EM2 :Emergency Back-Up (14W)
	16C35UE-D10 :120V/277V (0-10V Dimming)	
	16C35UE-DHL :Hilume Dimming (120V/277V)	

2014.5.13

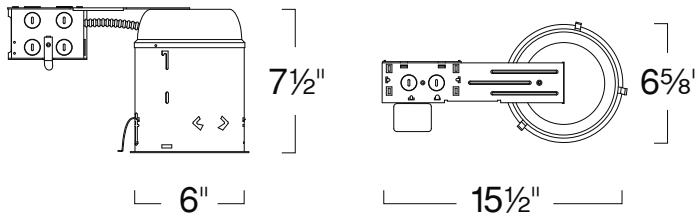
6" LED HOUSINGS (1200 LUMEN SERIES) - 90 CRI

File Located online www.litron.com/spec

ID#: 2462



6" IC Remodel LED Housing (16W) w/ 6" 1200 Lumen Deep LED Reflector 6" 16W (1200 LUMEN 1 LED SERIES)



SPECIFICATION

Ceiling cut-out: 6 1/4"

Application: This energy efficient general purpose recessed LED housing is perfect for low to medium height ceilings in residential and light commercial applications. A variety of trim styles, finishes, beam spreads and wattages are available to achieve a desired look and lumen output.

Housing: Pre-wired dedicated L.E.D. housing adjusts up to a 1 1/2" ceiling thickness. L.E.D. trim is secured with torsion wing springs/standard coil springs or serrated clips.

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

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.

Driver: Electronic Direct Current U.L. Listed driver mounted away from LED Array for cool operation and end-of-life modularity. Comes standard with 120VAC input and available with optional 120V/277V universal voltage input.

Dimming: 'DIN' dimming option smoothly dims down to 5% of initial light output with flicker-free performance. Works with standard incandescent dimmers. Factory qualified for use with Lutron brand dimmers: S600PR, DVSCCL-153P & DV600PR as well as Leviton IP106-600W. Works with standard electronic low voltage (ELV) dimmers. Factory qualified for use with Lutron brand dimmers: SELV300P, DVELV-300P, MAELV-600 and NELV-450. 'D10' dimming option works with most 0-10V DC 5-wire 120V or 277V dimming systems and wall box dimmers.

Emergency Option: Remote Emergency Battery Back-up for minimum 90 minute operation. Mounted adjacent to fixture during installation. Remote test switch, plate cover and junction box included. See ordering guide for battery operated wattage. Damp location rated. 120V/277V AC operation.

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: Energy Efficient LED housing comes standard with IC rating for direct contact with loosefill blown and rolled 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: ETL/CETL listed. Suitable for damp locations. NYC approved: Calendar #41937.

FEATURE:



Application: This energy efficient LED Reflector Trim produces over 1200 lumens and is suited for medium to high ceilings in light commercial and residential applications. The LED has been deeply recessed for minimal glare. A variety of trim finishes are available.

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

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 apply.

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.

Label: cETL Listed

Limitation: Not for use w/Shallow Housings.

Assembled in USA

6" IC REMODEL LED HOUSING (16W) LHLDH6R 120V 16W LED

VOLTAGE	OPTIONS
LHLDH6R16C35 :120V Non-Dimming	Blank :None
LHLDH6R16C35-DIN :120V Dimming	-EM :Emergency Back-Up (8W)
LHLDH6R16C35UE :120V/277V	-EM2 :Emergency Back-Up (14W)
LHLDH6R16C35UE-D10 :120V/277V (0-10V Dimming)	
LHLDH6R16C35UE-DHL :Hilume Dimming (120V/277V)	

6" 1200 LUMEN DEEP LED REFLECTOR LRLDH621 16W LED

Ordering example: LHLDH6R16C35UE-DHL-EM/LRLDH621SSF-B60

REFLECTOR FINISH	BEAM SPREAD
LRLDH621WWF :All White	-B25:Narrow Flood
LRLDH621SSF :All Satin Haze	-B45:Flood
LRLDH621CWF :Clear Reflector/White Ring	-B60:Wide Flood
LRLDH621BBF :All Black	

2014.5.13

File Located online www.litron.com/spec

ID#: 2462_2459

6" Downlight Deep Reflector

Test Procedure: LM-79-08

Total Rated Fixture Lumens :1153

Total Luminaire Efficacy :75 Lm/W

Luminous Diameter :0.50"

By:

Light Laboratory, Inc.

16W 60° Optic

LRLDH621

LED DETAILS

Light Source Specification

Input Power (W) :15.47W

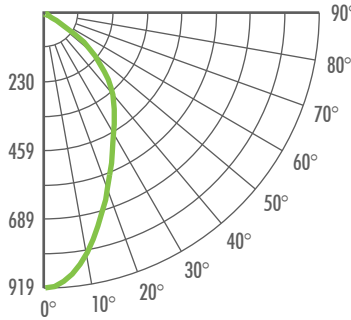
Color Rendering Index (CRI) :88

Color Temperature :3,000K

ZONAL LUMEN SUMMARY

CD./SQ.M (FOOTLAMBERTS)

Zone	Lumens
0 - 10	82.39
10 - 20	199.54
20 - 30	245.05
30 - 40	253.53
40 - 50	223.33
50 - 60	120.48
60 - 70	18.88
70 - 80	6.48
80 - 90	3.01
90 - 100	0.00
100 - 110	0.00
110 - 120	0.00
130 - 140	0.00
140 - 150	0.00
150 - 160	0.00
160 - 170	0.00
170 - 180	0.00



ZONAL LUMENS SUMMARY

Zone	Lumens	% Fixt
0 - 30	526.98	24.50
0 - 40	780.51	67.70
0 - 60	1124.32	97.50
0 - 90	1152.69	100.00
10 - 90	1070.3	92.90
20 - 40	498.58	43.30
40 - 70	362.69	31.50
60 - 80	25.35	2.20
0 - 180	1152.69	100.00

HORIZONTAL FOOT CANDLES: FC VALUES

Height (ft.)	Beam Diameter	Foot Candle
4.0'	26.0'	57.43 fc
6.0'	34.0'	25.52 fc
8.0'	39.0'	14.36 fc
10.0'	46.0'	9.19 fc

CANDELA TABULATION

CD./SQ.M (FOOTLAMBERTS)

Angle	Luminance
0	918.88
2	914.38
4	899.82
6	876.79
8	847.15
10	811.39
12	772.73
14	733.27
16	694.33
18	655.84
20	617.11
22	580.84
24	547.22
26	516.19
28	487.38
30	460.64
32	436.60
34	415.00
36	394.92
38	374.95
40	353.17
42	331.73
44	306.52
46	278.28

LUMINANCE SUMMARY CD./SQ.M.

LUMINANCE DATA (CD./SQ.M)

Angle	Avg. 0-Deg	Avg. 45-Deg	Avg. 90-Deg
45	22648	22648	22648
55	13417	13417	13417
65	2058	2058	2058
75	1151	1151	1151
85	1967	1967	1967

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80				70				50			30			10			0	
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0	
RW																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	112	109	106	103	110	106	104	101	102	100	98	99	97	95	95	94	92	91	
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81	
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	72	
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65	
5	85	75	68	62	83	74	67	62	72	66	62	70	65	61	68	64	60	59	
6	80	69	61	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53	
7	75	63	56	51	73	63	56	51	61	55	51	60	54	50	59	54	50	48	
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44	
9	66	55	48	43	65	54	47	43	53	47	43	52	46	42	51	46	42	41	
10	62	51	44	39	61	50	44	39	50	43	39	49	43	39	48	43	39	37	