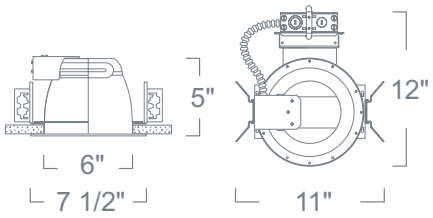
TYPE PROJECT

CATALOG#

6" Architectural Housing (1-Lamp) w/ Reflector

LFH6 SERIES - 6" HORIZONTAL CFL RECESSED LIGHTING



SPECIFICATION

Ceiling cut-out: 6 3/4"

Application: Architectural-grade recessed downlight housing for low to medium height ceilings and commercial installations. A variety of trims, compatible styles and finishes are available to achieve the proper décor and illumination.

Housing Frame: 16 gauge galvanized plaster ring with powder coat finish, six friction clips secure trim to housing for ceilings up to 1 3/4" thick. Triple slot bat-wing hanger brackets accommodate multiple bar hanger systems.

Mounting: Housing suitable for new construction installations only, Bat-Wing bar hanger brackets adjust vertically 3 1/4" for multiple ceiling types and accepts 1/2" EMT, 26" C-Channel Strut (C260) for T-bar ceilings and 27" linear hanger bars (L270) for wood joists. Heavy duty 16-gauge, die-formed galvanized steel. 1 1/4" maximum ceiling thickness.

Ballast: Electronic Class P 60Hz Ballast with Inherent thermal protection. For Double Twin Tube (DTT) or Triple Twin Tube Lamps (TTT). Sound A rated. Micro-Processor controlled. Min. starting temperature -10°C. Accessible from above or below the ceiling. Contact factory for detailed technical information on ballast specifications. Note: For dimming applications must use compatible dimmer switch. Consult specific ballast manufacturer for up-to-date compatibility list.

Socket Cap: Heavy-Duty steel socket enclosure with built-in ventilations. Die-cast aluminum fittings. Accepts compatible reflector trims.

Socket: Thermo-plastic socket UL Listed rated for high temperature and provides nickel plated contacts. Accepts 4-Pin lamps with electronic ballast selection.

Junction Box: 16 gauge pre-wired galvanized steel double Junction Box, 64 cubic-inch for a maximum of (8) #12 AWG wires. Furnished with (10) 3/4", (2) 1" and (8) Romex knock-outs. Strain clamps to install or remove covers for easy access and ground wire. Equipped with safety standard die-cast aluminum fitting for flex-conduit.

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

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

Emergency Option: Emergency back-up operates one lamp for a minimum of 90 minutes at 750 Lumens in case of power outage. Unit is remotely mounted. It includes battery, charger, and test switch with indicator light. Consult Factory for 1300 Lumen Package.

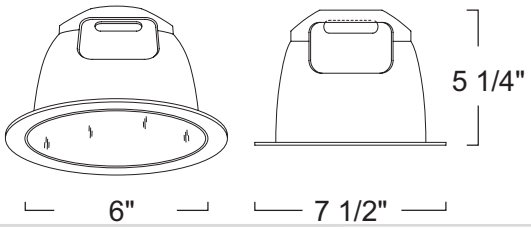
FEATURE:

U.S. Assembled

Application: Light commercial recessed downlight housing for medium to high ceilings for commercial and high-end residential installations. A variety of compatible trim styles and finishes are available to achieve the proper illumination.

Mounting: Pre-punched key holes allow mounting of socket cap assembly for housing, with vertically adjustable socket cap. Reflector held in place with 6 steel pressure springs mounted on housing frame.

Label: UL Listed, cETL Listed



6" ARCHITECTURAL HOUSING

LFH6 *CFL (1)42W/(2)26W Max*

WATTAGE		BALLAST		OPTIONS	
LFH6113	:(1) 13W	UE	:120V/277V Electronic	Blank	:None
LFH6113-126	:(1) 13W/18W/26W	UD	:0-10V Dimming (120V/277V)	-EM	:Emergency (Remote)
LFH6118	:(1) 18W	ADV-SM	:120V/277V Smart Mate	-EMA	:Emergency (Trim)
LFH6126	:(1) 26W	ADV-M7	:120V/277V Mark VII Dimming	-FS	:Fuse
LFH6132	:(1) 32W	ADV-M10	:120V Mark X Dimming*		
LFH6142	:(1) 42W	ADV-M10-277	:277V Mark X Dimming**		
		LUT-HL	:120V Lutron 3-Wire Dimming		
		LUT-TW	:120V Tu-wire Dimming		
		LUT-HL-277	:277V Lutron 3-Wire Dimming		
		UE-347	:347V Electronic		
		E	:120V Electronic		

* Not available for 13W option.
**18W only

REFLECTOR

LR661 *CFL (2) 26W DTT, (1) 32W TTT*

Ordering example: LFH6132E/LR661BB

REFLECTOR FINISH		RING FINISH	
LR661W	:White	Blank	:White
LR661BB	:Black Reflector/Black Finish		
LR661S	:Satin		

2016.8.29

File Located online www.liton.com/spec

ID#: 427_1498

6” Clear Specular HighZak Reflector
Lamp: (2)CF26DD/E/841
Total Rated Lamp Lumens : 3600
Total Luminaire Efficiency : 43.7%
CIE Type: Direct
Spacing Ratio: 1.50

Report File # LLI070307E.IES
By: Light Laboratory, Inc.
LM-63-2002

LUMINANCE DATA

6” Horizontal Housing : **LFH6226UE**
6” HighZak Reflector : **LR661CCF**
32W Applications : **LR651CCF**

HOUSING		WATT.	LUMEN*	
1-LAMP	2-LAMP		1-LAMP	2-LAMP
LFH6113	LFH6213	13W	900	1800
LFH6118	LFH6218	18W	1200	2400
LFH6126UE	LFH6226UE	26W	1800	3600
LFH6132UE		32W	2400	

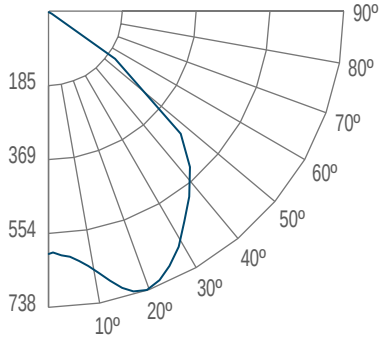
* Lumens may vary upon lamp types/manufacturers.

PROJECT INFORMATION

TYPE :
VOLTAGE :
PROJECT :
ITEM # :
DATE :

CANDLE POWER DISTRIBUTION

DEGREES VERTICAL	AVERAGE
0	605
1	602
3	610
5	615
7	628
9	643
11	666
13	691
15	715
17	731
19.5	738
22.5	726
25.5	703
29	672
33	625
37.5	581
42.5	526
47.5	450
55	203
65	9
75	4
85	3
90	0



LUMINANCE

Angle in Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	37798	37798	37798
55	19384	19384	19384
65	1166	1166	1166
75	846	846	846
85	1885	1885	1885

MULTIPLIERS**

FINISHES		WATTAGES	
Gold	0.90	13W	0.50
White	0.95	18W	0.66
Black	0.70	32W	1.33
Satin Haze	0.80	42W	1.78
Copper	0.75		

** Based on Clear reflector (26W).

INITIAL FOOTCANDLES

(Beam angle : 106º)

Footcandles at center	Circle Diameter	Footcandles at edge	Mounting Height (Feet)
151.3	5.3	15.1	2
37.8	10.6	3.8	4
16.8	15.9	1.7	6
9.5	21.2	0.9	8
6.1	26.5	0.6	10
4.2	31.8	0.4	12
3.1	37.2	0.3	14
2.4	42.5	0.2	16
1.9	47.8	0.2	18
1.5	53.1	0.2	20

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	52	52	52	52	51	51	51	51	49	49	49	47	47	47	45	45	45	44
1	49	47	45	44	47	46	45	43	44	43	42	43	42	41	41	40	40	39
2	45	42	40	37	44	41	39	37	40	38	36	38	37	35	37	36	35	34
3	41	38	35	32	40	37	34	32	36	33	31	35	32	31	33	32	30	29
4	38	34	30	28	37	33	30	28	32	29	27	31	29	27	30	28	27	26
5	35	30	27	24	35	30	27	24	29	26	24	28	26	24	27	25	23	23
6	33	27	24	21	32	27	24	21	26	23	21	26	23	21	25	23	21	20
7	30	25	21	19	30	25	21	19	24	21	19	23	21	19	23	20	19	18
8	28	23	19	17	28	23	19	17	22	19	17	21	19	17	21	19	17	16
9	27	21	18	15	26	21	18	15	20	17	15	20	17	15	19	17	15	14
10	25	19	16	14	24	19	16	14	19	16	14	18	16	14	18	15	14	13

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0 - 30	550.85	15.30	35.00
0 - 40	869.02	24.10	55.20
0 - 60	1462.46	40.60	92.90
0 - 90	1574.29	43.70	100.00
90 -120	0.00	0.00	0.00
90 -130	0.00	0.00	0.00
90 -150	0.00	0.00	0.00
90 -180	0.00	0.00	0.00
0 -180	1574.29	43.70	100.00

CHP6.081004