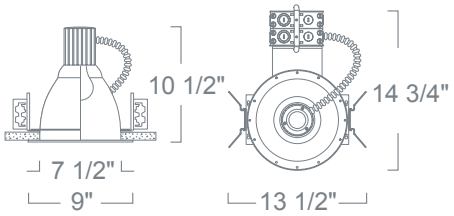
TYPE PROJECT

CATALOG#

Architectural Housing w/ Reflector

LH800 SERIES - 8" ARCHITECTURAL INCANDESCENT RECESSED LIGHTING



SPECIFICATION

Ceiling cut-out: 8 1/8"

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 1/2" 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 for T-bar ceilings and 27" adjustable linear hanger bars for plaster ceilings or wood/metal joists. Heavy duty 16-gauge, die-formed galvanized steel. Bar hangers optional.

Socket Cap: Extruded aluminum socket cap, 1 1/4" vertically adjustable socket arm with set screw which enables the use of multiple lamp types and repositioning to optimize lamp performance. Furnished with heat sink fins to vent lamp heat and extend lamp life. Accepts compatible reflector trims.

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

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 (16) No.12 AWG 90°C and suitable for damp locations. NYC approved: Calendar #41937.

Label: UL Listed, cETL Listed

Assembled in USA

FEATURE:

U.S. Assembled

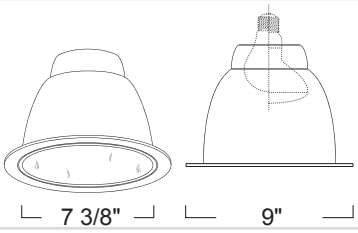
Application: Architectural-grade recessed downlight reflector in high ceilings for commercial and architectural installations. Reflector designed for minimal glare from lamp without sacrificing lumen output.

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.

Warranty: Covered by a 3 Year Warranty to be free of defects in materials and craftsmanship.

Label: UL Listed, cETL Listed

Assembled in USA



ARCHITECTURAL HOUSING

LH800 *120V 250W Max PAR38/ A19/ A21 MED E26*

WATTAGE	OPTIONS	HANGER OPTIONS
LH800:250W	**Blank** :None	**Blank** :No Hanger
	-FS :Fuse	**/C260** :(2)26" C- Channel Hanger Bars

REFLECTOR

LR871 *120V 250W Max PAR38/ A19/ A21*

REFLECTOR / FLANGE FINISH	
LR871CNF	:Clear Reflector/Natural Flange
LR871CWF	:Clear Reflector/White Flange
LR871SSF	:Satin Haze Reflector/Satin Haze Flange
LR871WWF	:White Reflector/White Flange
LR871CCF	:Clear Reflector/Clear Flange

Ordering example: LH800/C260/LR871CCF

2020.07.28

File Located online www.liton.com/spec

ID#: 561_563

8" Clear Specular HighZak Reflector
Lamp: (1)150W A21
Total Rated Lamp Lumens : 2780
Total Luminaire Efficiency : 79.1%
CIE Type: Direct
Spacing Ratio: 1.06

Report File # LLI090306B.IES
By: Light Laboratory, Inc.
LM-63-2002

LUMINANCE DATA

8" Incandescent Housing : **LH800**
8" HighZak Reflector : **LR871CCF**

HOUSING	LAMP	MAX. WATT	LUMEN*
LH800	A21	150W	2780
	A23	200W	4000
	PAR38	150W	---

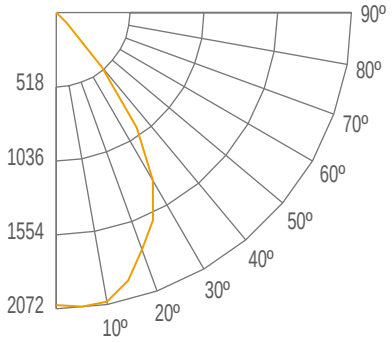
* Lumens may vary upon lamp types/manufacturers.

PROJECT INFORMATION

TYPE :
VOLTAGE :
PROJECT :
ITEM # :
DATE :

CANDLE POWER DISTRIBUTION

DEGREES VERTICAL	AVERAGE
0	2053
5	2072
10	2057
15	1942
20	1763
25	1605
30	1359
35	979
40	495
45	98
50	16
55	7
60	2
65	1
70	0
75	0
80	0
85	0
90	0



LUMINANCE

Angle in Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4227	4227	4227
55	372	372	372
65	72	72	72
75	0	0	0
85	0	0	0

MULTIPLIERS**

FINISHES	
Gold	0.90
White	0.95
Black	0.70
Satin Haze	0.80
Copper	0.75

** Based on Clear reflector

INITIAL FOOTCANDLES

(Beam angle : 82º)

Footcandles at center	Circle Diameter	Footcandles at edge	Mounting Height (Feet)
513.3	3.5	51.3	2
128.3	7.0	12.8	4
57.0	10.4	5.7	6
32.1	13.9	3.2	8
20.5	17.4	2.1	10
14.3	20.9	1.4	12
10.5	24.3	1.0	14
8.0	27.8	0.8	16
6.3	31.3	0.6	18
5.1	34.8	0.5	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	94	94	94	94	92	92	92	92	88	88	88	84	84	84	81	81	81	79
1	90	88	86	84	88	86	84	82	83	81	80	80	79	78	77	76	75	74
2	85	81	78	75	83	80	77	75	77	75	73	75	73	71	73	71	70	69
3	81	76	72	68	79	75	71	68	72	69	67	71	68	66	69	67	65	64
4	77	70	66	63	75	70	65	62	68	64	62	66	63	61	65	62	60	59
5	73	66	61	58	71	65	61	57	64	60	57	62	59	56	61	58	56	55
6	69	62	57	53	68	61	56	53	60	56	53	59	55	52	58	54	52	51
7	65	58	53	49	64	57	52	49	56	52	49	55	51	49	54	51	48	47
8	62	54	49	46	61	54	49	46	53	49	46	52	48	45	51	48	45	44
9	59	51	46	43	58	50	46	43	50	46	43	49	45	42	48	45	42	41
10	56	48	43	40	55	48	43	40	47	43	40	46	42	40	46	42	40	39

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0 - 30	1467.92	52.80	66.80
0 - 40	2058.13	74.00	93.60
0 - 60	2198.05	79.10	100.00
0 - 90	2199.03	79.10	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	2199.03	79.10	100.00