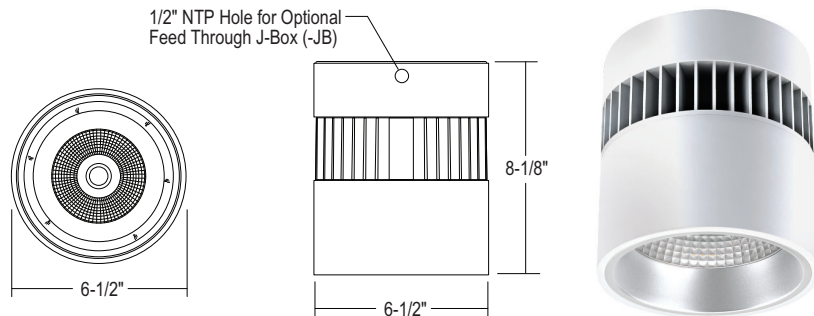


LCALD6 : 6" LUMEN CANNON

LED PENDANT/ CEILING MOUNT 1100LM - 6000LM (18W-60W)



- 120V/277V Input Standard, 347V Available
- Exclusive UniDim™ Universal LED Dimming Option Works with 0-10V, ELV and Incandescent Controls
- Smart DALI, DMX and 0-10V 1% Dimming
- New Uplight Option with 120° Beam Spread

ORDERING : LCALD6W101-LU10-B30-DUN-C90

LCALD6

Fixture	Finish	Lumen	Uplight	BeamSpread	Dimming	CCT	Options
Finish		Uplight		Dimming		CCT	
All Black	B	None	Blank	Non-Dimming	Blank	3000K	Blank
All White	W	Up to 905lm, 11W (90 CRI)	-LU10⁶	UniDim™	-DUN¹	3000K, 90 CRI	-C90⁶
Dark Gray/Black Fins	DG			0-10V, 1% Dimming	-D10P1⁵	3000K, 97 CRI	-C97
Lumens²		Beam Spread		DMX 0.1% Dimming	-DMX	1700K	-T17^{3,4}
1100lm	101	Flood	Blank	DALI Dimming	-DLI⁵	2500K	-T25^{3,4}
1500lm	151	10° Spot	-B10	2-Wire 1% Dimming (120V)	-DINP1	2700K	-T27
2600lm	320	25° Narrow	-B25	0-10V 10% Dimming	-D10	2700K, 90 CRI	-T27-C90
3700lm	350	30° Narrow	-B30	Hilume 1% Dimming	-DHL	2700K, 97 CRI	-T27-C97
4300lm	450	70° Wide	-B70	Ecosystem 5% Dimming	-DEC⁵	3500K	-T35⁶
6000lm	550	Wall Wash	-BWW			4000K	-T40⁶
						Options	
						None	Blank
						Frosted Lens	-FR
						Feed Through J-Box	-JB

¹(-DUN) UniDim™ is not available for 6000lm.

²Lumens are nominal delivered lumens. See photometry page for exact values.

³On (-T17), and (-T25), extended lead time may apply. Consult factory.

⁴(-T17), and (-T25) are not available for (350), (450), and (550) lumen packages.

⁵(-D10P1), (-DLI), and (-DEC) are not available for (550) lumen package.

⁶Uplight is for pendant option only, and is available in 3000K, 3500K, or 4000K to match corresponding downlight color temperature option. ELV - Dimmable.

NOTE: For LCALD6 with Integral Emergency Back-up, see LCALD6EM on www.liton.com. Consult Factory for Remote driver options.

MOUNTING ACCESSORIES

LPCMC6/LPCMCJ6
Cable Extension Kit
for flat or sloped ceilings

LPCM6/LPCMJ6⁶
Pendant Accessory
for flat or sloped ceilings

LPCM6Q6⁶
Square Ceiling
Adapter

LPTM6-3C1N
Track Mount

LPCMC-CLAMP
Clamp Mount

LPCMC-HUB
Thread Hub
for pipe mounting



See p. 3 for ordering and more detailed information on Mounting Accessories.

SPECIFICATION

Application

Architectural-grade surface mount LED downlight housing for medium to high ceilings combines energy efficiency with powerful lumen output. Perfect for atriums, churches, lobbies, and airports that have high ceilings.

Housing

Stamped steel with die-cast aluminum heat sink. Weighs less than 4lb.

Mounting - Universal mounting hardware allows mounting to all standard electrical junction boxes. Optional 6" to 48" Stem, 120" Pendant Cable and other accessories are also available. See page 3.

Reflector

Multifaceted Specular Reflector.

Optics

LED Light Engine - COB (Chip on Board) Meets CA Title 24 Requirements and other standards restricting the use of Medium Base or Bi-Pin Sockets.

Lumens - Available in 1100lm, 1500lm, 2600lm, 3700lm, 4300lm and 6000lm.

Color Temperature - Available in 1700K, 2500K, 2700K, 3000K, 3500K and 4000K, 80 CRI. 1100lm and 1500lm lumen packages are 90 CRI. 2700K and 3000K are also available in 90 and 97 CRI.

Beam Spread - Standard Flood.

Also available in B10 - 10° Spot, B25 - 25° Narrow, B30 - 30° Narrow, B70 - 70° Wide, and BWW - Wall Wash.

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

Optional Uplight - ELV dimmable

120V/277V Universal voltage AC engine mounts to top of fixtures with pendant option only. Provides uplight with 120° beam spread. Available in 3000K, 3500K or 4000K to match corresponding downlight color temperature option.

Electrical Components

Thermal Management - Heat dissipation facilitated by exposed integral aluminum black heat sink to maximize heat rejection in an open air environment. Recommended ambient temperature is below 35°C to achieve minimum L70 life of 50,000 hours according to LM80 standard.

Driver - 120V/277V AC 50/60Hz Electronic Direct Current Class 2 driver integrally mounted on large access Junction Box. Power Factor > 0.90. Operating Temperature: -10°C to +80°C. Accessible from above or below ceiling. Consult Factory for dimming options and compatible dimmers.

Dimming - 0-10V dimming option (-D10) works with most 5-Wire 0-10V dimmers. Available with 1% Deep Dimming option (-D10P1). Factory qualified for use with Leviton IP710-DLX and Lutron NTFTV-WH.

The Lutron Hi-Lume (-DHL) and Ecosystem (-DEC) dimming options designed for use with LUTRON Ecosystem Controls. Uni-Dim™ dimming option (-DUN) is a universal dimming system that works with most 3-Wire ELV, 2-Wire Incandescent and 5-Wire 0-10V fluorescent dimmers.

DMX dimming option (-DMX) dims down to 0.1%. DMX in/out ports via RJ45 connector.

Finishes

High quality powder coat finish for maximum durability. Available in all Black (B), all White (W), Dark Gray with Black Fins (DG). Consult factory for Custom Color.

Certifications and Listings

ETL/cETL listed to UL1598 and UL8750. Suitable for dry locations. NYC approved: Calendar #41937. For Wet Location, see DL series. Assembled in USA.

Caution

Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

Warranty

Covered by a 5-Year Warranty to be free of defects in materials and craftsmanship. Fixture should not be installed in applications with ambient temperature above 60°C. Doing so will result in reduced lamp life and voided warranty.

Energy Star Qualified Items

- LCALD6_320_-DUN-T35
- LCALD6_350_-DUN-T35

Quick Ship Items

- -DUN is the only dimming option available for quickship
- 101, -B10, -B30, -B70, -T27, -T35 not available for Quickship.

Mounting Accessories

ORDERING : LPCM12W

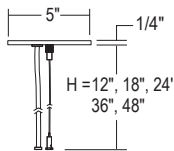
Ordering Fixture Finish Options

Mounts to standard electrical J-Box. Field adjustable.
4-Wire electrical cable for dimming and non-dimming
installations. Aircraft-grade cable.

Cable Extension Kit

Ordering		Fixture Finish		Options	
72"	LPCM672	White	W	None	Blank
120"	LPCMJC6120	Black	B	2-Circuit	-2CCT
250"	LPCMJC6250			Wall Plug Adapter	-PI

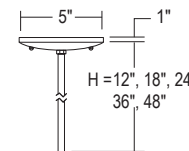
5° Max Slope Ceiling



Mounts to standard electrical J-Box.

Pendant Accessory for Flat Ceilings

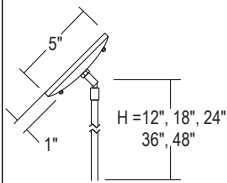
Ordering		Fixture Finish		Options	
12" Extension	LPCM612	White	W	None	Blank
18" Extension	LPCM618	Black	B	2-Circuit	-2CCT
24" Extension	LPCM624	Natural	N	Wall Plug Adapter	-PI
36" Extension	LPCM636				
48" Extension	LPCM648				



Mounts to standard electrical J-Box.

Pendant Accessory for Sloped Ceilings

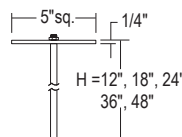
Ordering		Fixture Finish	
12" Extension	LPCMJ612	White	W
18" Extension	LPCMJ618	Black	B
24" Extension	LPCMJ624	Natural	N
36" Extension	LPCMJ636		
48" Extension	LPCMJ648		



Mounts to standard electrical J-Box.

Square Ceiling Adapter

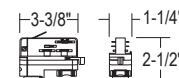
Ordering		Fixture Finish	
12" Extension	LPCMQ612	White	W
18" Extension	LPCMQ618	Black	B
24" Extension	LPCMQ624		
36" Extension	LPCMQ636		
48" Extension	LPCMQ648		



Mounts to LITON 3C/1M Multi-circuit
Architectural Track for easy installation.

Track Mount for 6" Lumen Cannon

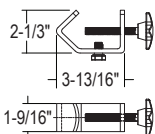
Ordering	
White	LPTM6W-3C1N
Black	LPTM6B-3C1N



Mounts to Piping and Truss systems up to 2" side. Power
Cable not Included. Consult factory for wiring options.

Clamp Mount

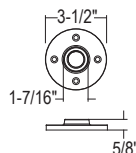
Ordering	
White	LPCMCLAMPW
Black	LPCMCLAMPB



Thread Hub for Pipe Mounting for LCALD4 and LCALD6.

Thread Hub for Pipe Mounting

Ordering	
1/2"	LPCMCHUB-1/2
3/4"	LPCMCHUB-3/4
1"	LPCMCHUB-1



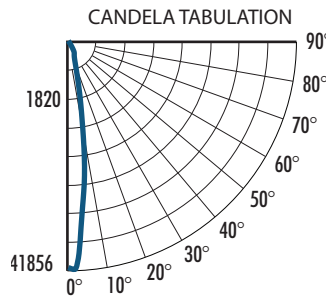
PHOTOMETRY

LUMEN PACKAGE	101	151	320	350	450	550
NOMINAL LUMENS	1100lm	1500lm	2600lm	3700lm	4300lm	6000lm
SYSTEM POWER	24.5W	30.3W	29.0W	43.6W	42.5W	62.3W

LCALD6550-B10-T40, 6000lm, 10° Spot, 4000K

System Power: 63.2W
 Test Date: 7/2016
 Beam Angle 50%: 16.4°
 Field Angle 10%: 36.6°
 Color Temperature: 4,000K
 CRI : 80.0
 R9 Value: 33.0
 Lumens Delivered: 6576lm
 CBCP: 41185cd
 Power Factor: >0.9

MULTIPLIERS	
CCT MULTIPLIERS	
3500K:	0.99
3000K:	0.97
2700K:	0.95
LUMEN MULTIPLIERS	
4300lm:	0.79
3700lm:	0.61
2600lm:	0.47
OPTION MULTIPLIER	
Frosted Lens (-FR) : 0.75	

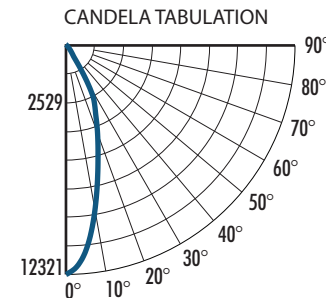


FOOTCANDLE DISTRIBUTION		
Height	Beam Diameter	FC
10'	2.9'	418.6
20'	5.9'	104.6
30'	8.6'	46.5
40'	11.5'	26.2
64.7'	18.6'	10.0

LCALD6550-B30-T40, 6000lm, 30° Narrow, 4000K

System Power: 63.0W
 Test Date: 7/2016
 Beam Angle 50%: 33.6°
 Field Angle 10%: 66.7°
 Color Temperature: 4,000K
 CRI : 80.0
 R9 Value: 33.0
 Lumens Delivered: 6080lm
 CBCP: 12321cd
 Power Factor: >0.9

MULTIPLIERS	
CCT MULTIPLIERS	
3500K:	0.99
3000K:	0.97
2700K:	0.95
LUMEN MULTIPLIERS	
4300lm:	0.81
3700lm:	0.61
2600lm:	0.46
OPTION MULTIPLIER	
Frosted Lens (-FR) : 0.75	

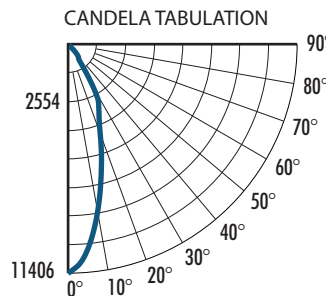


FOOTCANDLE DISTRIBUTION		
Height	Beam Diameter	FC
10'	6.0'	123.2
15'	9.1'	54.8
20'	12.1'	30.8
25'	15.1'	19.7
35'	21.1'	10.1

LCALD6550-T40, 6000lm, Flood, 4000K

System Power: 62.3W
 Test Date: 6/2016
 Beam Angle 50%: 33.6°
 Field Angle 10%: 67.6°
 Color Temperature: 4,000K
 CRI : 80.0
 R9 Value: 33.0
 Lumens Delivered: 6576lm
 CBCP: 41185cd
 Power Factor: >0.9

MULTIPLIERS	
CCT MULTIPLIERS	
3500K:	0.99
3000K:	0.97
2700K:	0.95
LUMEN MULTIPLIERS	
4300lm:	0.79
3700lm:	0.61
2600lm:	0.47
OPTION MULTIPLIER	
Frosted Lens (-FR) : 0.75	

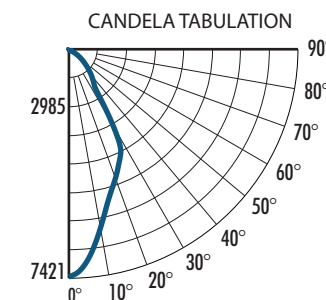


FOOTCANDLE DISTRIBUTION		
Height	Beam Diameter	FC
10'	6.0'	114.1
16'	9.7'	44.6
22'	13.3'	23.6
28'	16.9'	14.5
33.7'	20.3'	10.0

LCALD6550-B70-T40, 6000lm, 70° Wide, 4000K

System Power: 62.2W
 Test Date: 7/2016
 Beam Angle 50%: 54.5°
 Field Angle 10%: 97.6°
 Color Temperature: 4,000K
 CRI : 80.0
 R9 Value: 33.0
 Lumens Delivered: 6610lm
 CBCP: 7421cd
 Power Factor: >0.9

MULTIPLIERS	
CCT MULTIPLIERS	
3500K:	0.99
3000K:	0.97
2700K:	0.95
LUMEN MULTIPLIERS	
4300lm:	0.81
3700lm:	0.63
2600lm:	0.46
OPTION MULTIPLIER	
Frosted Lens (-FR) : 0.75	



FOOTCANDLE DISTRIBUTION		
Height	Beam Diameter	FC
10'	10.3'	74.2
14'	14.4'	37.9
18'	18.5'	22.9
22'	22.7'	15.5
27.2'	28.0'	10.0