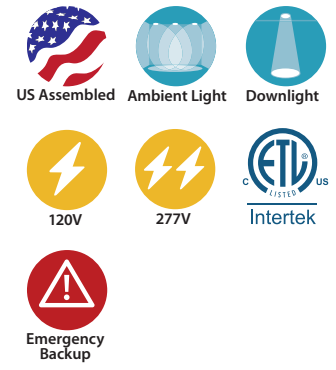
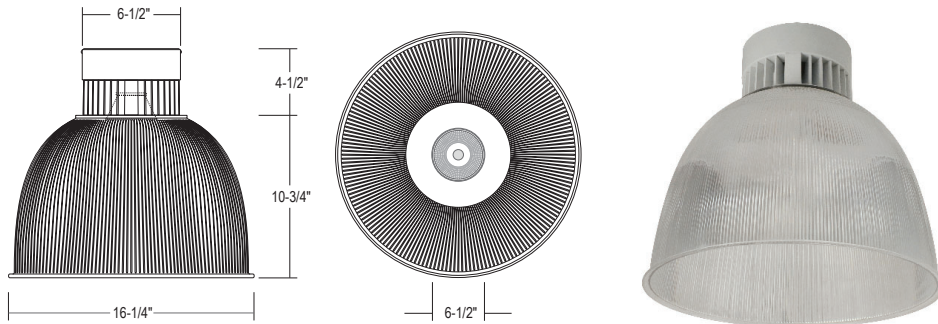


## LCALD6H50 : 16" LED REFRACTOR

SURFACE & PENDANT MOUNT 1100LM - 6000LM (10W-58W)



- 120V/277V Input Standard, 347V Available
- Exclusive UniDim™ Universal LED Dimming Option Works with 0-10V, ELV and Incandescent Controls
- 1% Dimming available with 120VAC, 0-10V, DALI, DMX AND Lutron Ecosystem
- Sturdy Steel Fixture Housing, <8lbs
- Pendant mounting available for flat and sloped ceilings
- Shock Absorbent Acrylic Refractor

### ORDERING : LCALD6H50W101-B30UE-DUN-C90

#### LCALD6H50

Fixture	Finish	Lumens	Beam Spread	Control	CCT
<b>Finish</b>		<b>Beam Spread</b>		<b>Control</b>	<b>CCT<sup>4</sup></b>
All Black	<b>B</b>	30° Narrow	<b>-B30</b>	Non-Dimming	3000K (80 CRI) <b>Blank</b>
All White	<b>W</b>	70° Wide	<b>-B70</b>	Triac/ELV (120V)	3000K (90 CRI) <b>-C90</b>
Silver/ Black Fins	<b>S</b>			Triac/ELV 1% Dimming (120V)	3000K (97 CRI) <b>-C97<sup>2</sup></b>
<b>Lumens<sup>1</sup></b>				0-10V Dimming (120V/277V)	2700K (80 CRI) <b>-T27</b>
1100lm (10W)	<b>101</b>			0-10V, 1% Dimming (120V/277V)	2700K (90 CRI) <b>-T27-C90</b>
1500lm (15W)	<b>151</b>			UniDim™ 0-10V, ELV and Triac Dimming	2700K (97 CRI) <b>-T27-C97<sup>2</sup></b>
2100lm (20W)	<b>210</b>			DMX 0.1% Dimming	3500K (80 CRI) <b>-T35</b>
2900lm (30W)	<b>320</b>			DALI Dimming	3500K (90 CRI) <b>-T35-C90</b>
3700lm (38W)	<b>350</b>			Lutron Hi-lume 1% Dimming	4000K (80 CRI) <b>-T40-C80</b>
4300lm (44W)	<b>450</b>			Ecosystem 5% Dimming	4000K (90 CRI) <b>-T40-C90</b>
6000lm (58W)	<b>550</b>				5000K (80 CRI) <b>-T50</b>

<sup>1</sup> Lumens are nominal delivered lumens. See Photometry page for exact values.  
<sup>2</sup> Special Order. Minimum order quantity (MOQ), extended lead time may apply. Consult Factory.  
<sup>3</sup> (UE-DEC) & (UE-DHL) not available for (550) lumen package.  
<sup>4</sup> (1) Blank: 3000K, 80CRI not available with (350) or (450) lumen package. (2) -T27: 2700K, 80CRI not available with (101), (151), (210) or (320). (3) -T27-C97: 2700K, 97CRI not available with (550). (4) -T35: 3500K, 80CRI not available with (350), (450), or (550). (5) -T40-C80: 4000K, 80CRI not available with (550).

347 Input with 0-10V available. Consult Factory for details and lead time.  
 Energy Efficient Chip-On-Board (COB) Singular LED Light source provides for smooth uniform light output, eliminating the multiple shadow effect seen by multiple LED source products. Binned with 3-Step MacAdam Ellipses as recommended by Ansi Standard. Available in 2700k, 3000k, 3500k, 4000k, 5000k.  
 Custom RAL Color: Please note that we appreciate custom finishes. Custom finishes are subject to a special paint setup fee for the quantity ordered. Extended lead times may apply. Consult Factory.

### MOUNTING ACCESSORIES



See p. 4 for ordering and more detailed information on Mounting Accessories.

## SPECIFICATION

### Application

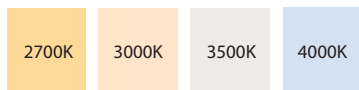
With its contemporary and modern design the 16" shade allows for proper blending for high ceilings in retail, commercial, and worship installations. The prismatic refractor surrounds the source, reducing glare and providing comfortable ambient light level with horizontal and vertical lumen distribution. Commercial grade ACRYLIC shade absorbs shock and impact. Perfect for low and mid-bay applications.

### Housing

Available in All Black, All White, and Silver with Black Fins.

### Color Temperature (CCT)

Available in 2700K, 3000K, 3500K, 4000K, 80 CRI and 90 CRI; 2700K and 3000K, 97 CRI.



COLOR TEMP: 2700K	3000K	3500K	4000K
CRI: 80, 90, 97	80, 90, 97	80, 90	80, 90

### Control

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 the ceiling. Consult Factory for dimming options and compatible dimmers.

### Thermal Management

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

### Thermal Temperature

Heat dissipation facilitated by a large exposed integral aluminum heat sink to maximize heat dissipation in an open-air environment. The recommended ambient temperature should be below 35°C to achieve a minimum L70 life of 50,000 hours according to the LM80 standard.

### Lumen Maintenance

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

### Certifications and Listings



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

## SPECIFICATION (Continued)

### Dimming Options

#### ELV and TRIAC Driver 120V (-DIN):

Compatible with electronic low voltage, and 2-Wire incandescent dimmers. Also known as leading edge, Reverse Phase, Forward Phase dimming. Allows smooth dimming down to 5% depending upon the dimmer's limitations.

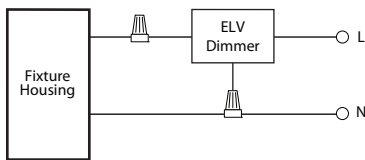
#### 0-10V Driver 120V/277V (UE-D10):

Compatible with most existing 0-10V systems. Also known as fluorescent or 5-Wire dimming. Allows smooth dimming down to 5% depending upon the dimmer's limitations. Compatible with daylight harvesting controls.

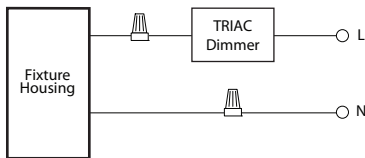
#### UniDim™ Driver 120V/277V (UE-DUN):

All in one ELV and TRIAC phase dimming (120V only), and 0-10V dimming (120V/277V). Works with most 3-Wire ELV, 2-Wire incandescent and 120V/277V 5-Wire 0-10V fluorescent dimmers.

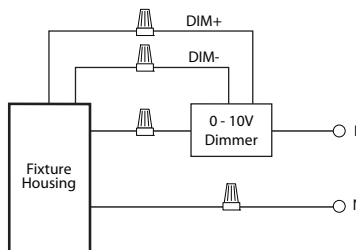
Incandescent/Phase Wiring  
ELV



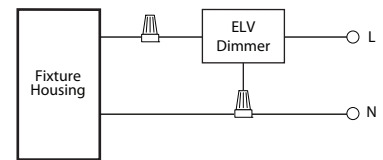
TRIAC



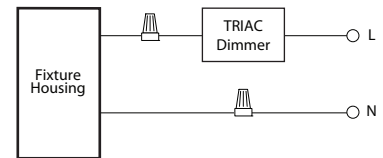
0 - 10V Wiring



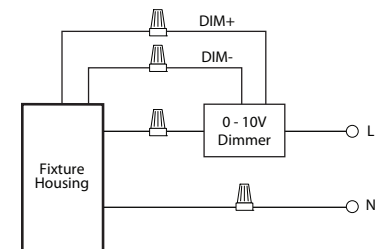
Incandescent/Phase Wiring  
ELV



TRIAC



0 - 10V Wiring



### Warranty

Covered by a 5-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.

## Mounting Accessories

### ORDERING : LPCM12W

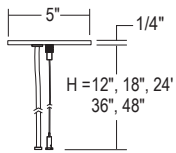
Ordering      Fixture Finish      Options

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" <b>LPCM672</b>	White <b>W</b>	None <b>Blank</b>
120" <b>LPCM6120</b>	Black <b>B</b>	2-Circuit <b>-2CCT</b>
250" <b>LPCM6250</b>		Wall Plug Adapter <b>-PI</b>

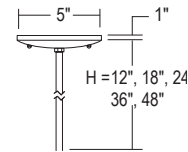
5° Max Slope Ceiling



Mounts to standard electrical J-Box.

#### Pendant Accessory for Flat Ceilings

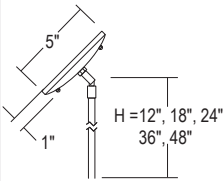
Ordering	Fixture Finish	Options
12" Extension <b>LPCM612</b>	White <b>W</b>	None <b>Blank</b>
18" Extension <b>LPCM618</b>	Black <b>B</b>	2-Circuit <b>-2CCT</b>
24" Extension <b>LPCM624</b>	Natural <b>N</b>	Wall Plug Adapter <b>-PI</b>
36" Extension <b>LPCM636</b>		
48" Extension <b>LPCM648</b>		



Mounts to standard electrical J-Box.

#### Pendant Accessory for Sloped Ceilings

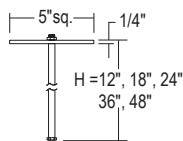
Ordering	Fixture Finish
12" Extension <b>LPCM612</b>	White <b>W</b>
18" Extension <b>LPCM618</b>	Black <b>B</b>
24" Extension <b>LPCM624</b>	Natural <b>N</b>
36" Extension <b>LPCM636</b>	
48" Extension <b>LPCM648</b>	



Mounts to standard electrical J-Box.

#### Square Ceiling Adapter

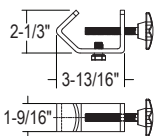
Ordering	Fixture Finish
12" Extension <b>LPCM612</b>	White <b>W</b>
18" Extension <b>LPCM618</b>	Black <b>B</b>
24" Extension <b>LPCM624</b>	
36" Extension <b>LPCM636</b>	
48" Extension <b>LPCM648</b>	



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

#### Clamp Mount

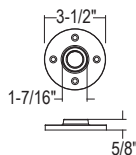
White <b>LPCM-CLAMPW</b>
Black <b>LPCM-CLAMPB</b>



Thread Hub for Pipe Mounting for LCALD4 and LCALD6.

#### Thread Hub for Pipe Mounting

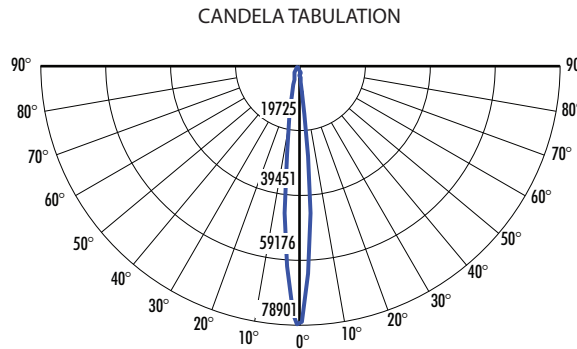
Ordering	
1/2" <b>LPCM-HUB-1/2</b>	
3/4" <b>LPCM-HUB-3/4</b>	
1" <b>LPCM-HUB-1</b>	



## PHOTOMETRY

### LCALD6H50-B10-T40 (6000LM, 10° Spot, 4000K)

System Power:	61W	<b>MULTIPLIERS</b>	
Test Date:	4/2024	<b>CCT MULTIPLIERS</b>	
Beam Angle 50%:	11.2°	<b>4000K:</b>	<b>1.00</b>
Field Angle 10%:	22.4°	3500K:	0.96
Color Temperature:	4132K	3000K:	0.94
CRI :	92.0	2700K:	0.88
R9 Value:	67.0	<b>LUMEN MULTIPLIERS</b>	
Lumens Delivered:	6117	<b>6000lm:</b>	<b>1.00</b>
CBCP:	78901	4300lm:	0.72
Power Factor:	>0.9	3700lm:	0.62
		2900lm:	0.48
		2100lm:	0.35
		1500lm:	0.25
		1100lm:	0.18
		<b>CRI MULTIPLIERS</b>	
		97CRI:	0.86
		<b>90CRI:</b>	<b>1.00</b>
		80CRI:	1.08
		<b>OPTION MULTIPLIER</b>	
		Frosted Lens	0.75
		(-FR):	
		Louver (-LVR):	0.85

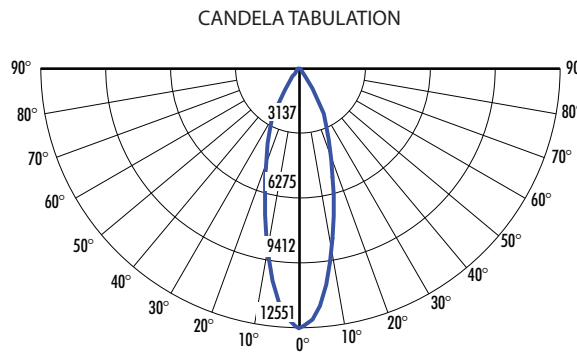


#### FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
10.0'	2.0'	832.9
20.0'	3.9'	208.2
30.0'	11.9'	92.54
40.0'	15.8'	52.06
91.0'	25.6'	10.06

### LCALD6H50-B30-T40 (6000lm, 30° Narrow, 4000K)

System Power:	61W	<b>MULTIPLIERS</b>	
Test Date:	4/2024	<b>CCT MULTIPLIERS</b>	
Beam Angle 50%:	30.3°	<b>4000K:</b>	<b>1.00</b>
Field Angle 10%:	65.7°	3500K:	0.96
Color Temperature:	4132K	3000K:	0.94
CRI :	92.0	2700K:	0.88
R9 Value:	66.0	<b>LUMEN MULTIPLIERS</b>	
Lumens Delivered:	5550	<b>6000lm:</b>	<b>1.00</b>
CBCP:	12551	4300lm:	0.72
Power Factor:	>0.9	3700lm:	0.62
		2900lm:	0.48
		2100lm:	0.35
		1500lm:	0.25
		1100lm:	0.18
		<b>CRI MULTIPLIERS</b>	
		97CRI:	0.86
		<b>90CRI:</b>	<b>1.00</b>
		80CRI:	1.08
		<b>OPTION MULTIPLIER</b>	
		Frosted Lens	0.75
		(-FR):	
		Louver (-LVR):	0.85

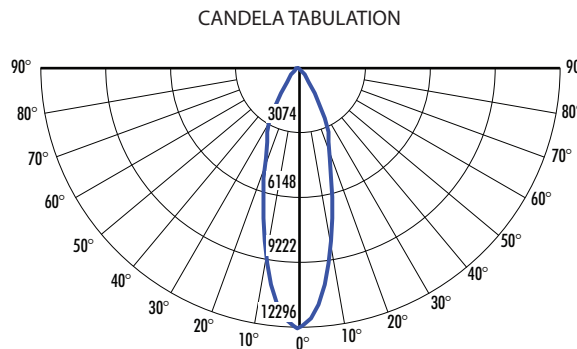


#### FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
10.0'	5.4'	132.49
15.0'	8.1'	58.88
20.0'	10.8'	33.12
25.0'	13.5'	21.20
36.0'	19.5'	10.22

### LCALD6H50-T40 (6000lm, Flood, 4000K)

System Power:	61W	<b>MULTIPLIERS</b>	
Test Date:	4/2024	<b>CCT MULTIPLIERS</b>	
Beam Angle 50%:	30.7°	<b>4000K:</b>	<b>1.00</b>
Field Angle 10%:	69.0°	3500K:	0.96
Color Temperature:	4132K	3000K:	0.94
CRI :	92.0	2700K:	0.88
R9 Value:	65.0	<b>LUMEN MULTIPLIERS</b>	
Lumens Delivered:	5767	<b>6000lm:</b>	<b>1.00</b>
CBCP:	12296	4300lm:	0.72
Power Factor:	>0.9	3700lm:	0.62
		2900lm:	0.48
		2100lm:	0.35
		1500lm:	0.25
		1100lm:	0.18
		<b>CRI MULTIPLIERS</b>	
		97CRI:	0.86
		<b>90CRI:</b>	<b>1.00</b>
		80CRI:	1.08
		<b>OPTION MULTIPLIER</b>	
		Frosted Lens	0.75
		(-FR):	
		Louver (-LVR):	0.85



#### FOOTCANDLE DISTRIBUTION

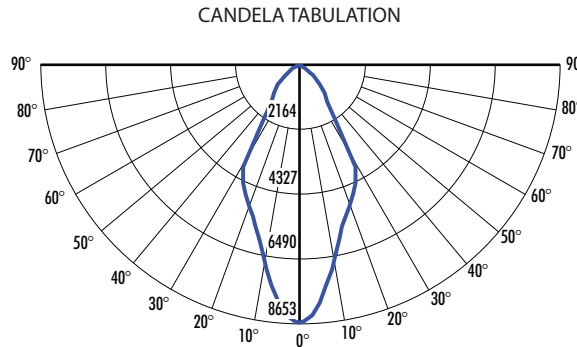
Height	Beam Diameter	FC
10.0'	5.49'	129.80
16.0'	8.78'	50.70
22.0'	12.08'	26.82
28.0'	15.37'	16.56
36.0'	19.76'	10.02

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## PHOTOMETRY (Continued)

### LCALD6H50-B70-T40 (6000lm, 70° Wide, 4000K)

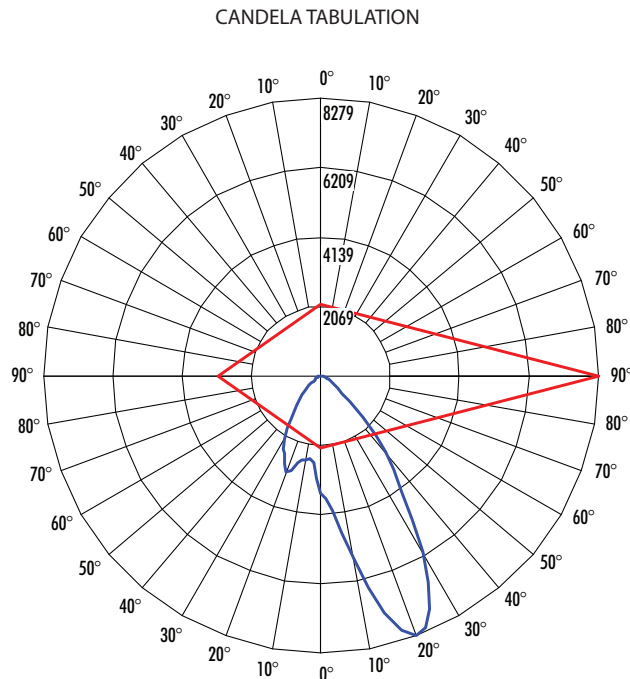
System Power:	61W	MULTIPLIERS
Test Date:	4/2024	CCT MULTIPLIERS
Beam Angle 50%:	54.9°	<b>4000K:</b> 1.00
Field Angle 10%:	100.6°	3500K: 0.96
Color Temperature:	4132K	3000K: 0.94
CRI :	92.0	2700K: 0.88
R9 Value:	66.0	LUMEN MULTIPLIERS
Lumens Delivered:	6085	<b>6000lm:</b> 1.00
CBCP:	6687	4300lm: 0.72
Power Factor:	>0.9	3700lm: 0.62
		2900lm: 0.48
		2100lm: 0.35
		1500lm: 0.25
		1100lm: 0.18
		CRI MULTIPLIERS
		97CRI: 0.86
		<b>90CRI:</b> 1.00
		80CRI: 1.08
		OPTION MULTIPLIER
		Frosted Lens 0.75
		(-FR):
		Louver (-LVR): 0.85



Height	Beam Diameter	FC
10.0'	10.54'	47.14
14.0'	14.76'	24.05
18.0'	18.98'	14.55
20.0'	21.09'	11.79
21.7'	22.88'	10.01

### LCALD6H50-BWW-T40 (6000lm, Wall Wash, 4000K)

System Power:	60W	MULTIPLIERS
Test Date:	4/2024	CCT MULTIPLIERS
Color Temperature:	4132K	<b>4000K:</b> 1.00
CRI :	92.0	3500K: 0.96
R9 Value:	65.0	3000K: 0.94
Lumens Delivered:	5223	2700K: 0.88
CBCP:	8279	LUMEN MULTIPLIERS
Power Factor:	>0.9	<b>6000lm:</b> 1.00
		4300lm: 0.72
		3700lm: 0.62
		2900lm: 0.48
		2100lm: 0.35
		1500lm: 0.25
		1100lm: 0.18
		CRI MULTIPLIERS
		97CRI: 0.86
		<b>90CRI:</b> 1.00
		80CRI: 1.08
		OPTION MULTIPLIER
		Frosted Lens 0.75
		(-FR):
		Louver (-LVR): 0.85



2024.04.25