



## DESCRIPTION

The CDL4 and CDL6 are recessed downlights designed for new construction or retrofit applications. Each downlight is offered in 3000K color temperature, with a CRI of 90 for exceptional color rendering. The dimming range is from 100 - 10%. The CDL series is designed to meet Energy Star and California Title 24 standards for residential and non-residential applications.



CDL4



CDL6

tradeSELECT®

## FEATURES

- Highly reflective matte white finish with baffle
- 3000K color temperature LED
- 90 CRI
- 120V
- Dimming range from 100% through 10%
- Wet Location rated
- Title 24
- Lighting Facts Listed
- Energy Star® Qualified

## PRODUCT AVAILABILITY TABLE

	VAC	Lumens	Watts	LpW
<b>CDL4-7L30KA WH</b>	120	705	9	81
<b>CDL6-8L30KA WH</b>	120	763	10	76

## APPLICATION

The CDL Series is designed to be a cost competitive downlight for retrofit or new construction applications. The CDL6 has a telescoping retention bracket that allows it to be used in both 5" and 6" recessed housings. The CDL4 is designed to fit into 4" recessed housings.

## STANDARDS, CERTIFICATIONS & COMPLIANCE

California Title 24 residential and non-residential  
UL Listed to UL 1598  
Energy Star® Qualified

## WARRANTY

5 year limited warranty

**Single Carton Weight CDL4:** .52 lbs.

**Single Carton Weight CDL6:** .96 lbs.

**Master Carton Quantity:** 8 each

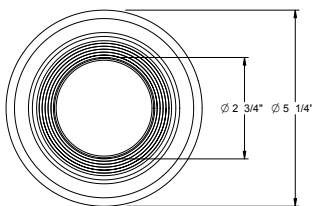
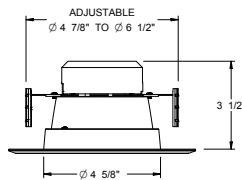
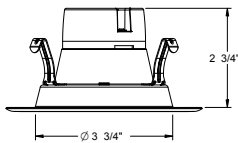
Note:

Photometric files available for download at [www.hubbellighting.com](http://www.hubbellighting.com)

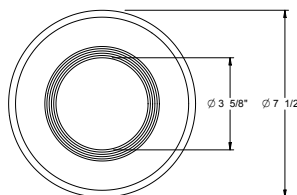
## ORDERING GUIDE

Catalog Number	Description
<b>CDL4-7L30KA WH</b>	4" Downlight, 700 Lumen, 3000K, 90 CRI, White
<b>CDL6-8L30KA WH</b>	5" or 6" Downlight, 800 Lumen, 3000K, 90 CRI, White

## DIMENSIONS



CDL4



CDL6

## ELECTRICAL DATA

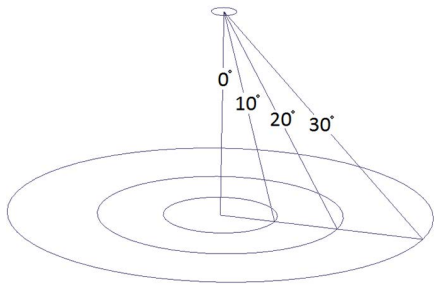
	4"	5" & 6"
Input Voltage	120V AC	120V AC
Input Frequency	50/60 Hz	50/60 Hz
Input Current	0.08A	0.09A
Input Power	8.7W	10.0W
Power Factor	>0.90	>0.90
THD	<20%	<20%
EMI Filtering	FCC 47CFR Part 15, Class B	FCC 47CFR Part 15, Class B
Operating Temperature	-30°C to 40° C	-30°C to 40° C
Dimming	Yes*	Yes*

Over-voltage, over-current, short-circuit protected

\*See Dimming Notes for more information

# PHOTOMETRIC DATA

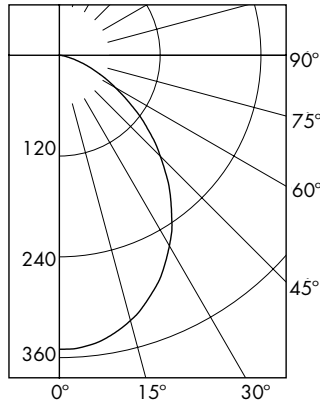
## INITIAL FOOTCANDLES (fc) DATA CHART



Single Unit, fc on 30" Work Plane							Ceiling to Floor Height (ft)	Multiple Units, Average fc on 30" Work Plane			
0° (nadir)	10°		20°		30°	Fixture Spacing (ft)		RCR 2	RCR 5	RCR 7	
fc	fc	Illuminated Dia (ft)	fc	Illuminated Dia (ft)	fc			Illuminated Dia (ft)	footcandles (fc)		
<b>CDL4 7L30KAWH</b>											
12	11	2	8	4	6	6	<b>8</b>	6 x 6	18	13	11
8	8	2	6	5	4	8	<b>9</b>	7 x 7	13	10	8
5	5	3	4	6	3	9	<b>10.5</b>	9 x 9	9	6	5
4	4	3	3	7	2	11	<b>12</b>	10 x 10	6	4	4
<b>CDL6 8L30KAWH</b>											
12	12	2	9	4	6	6	<b>8</b>	7 x 7	17	12	10
9	8	2	7	5	5	8	<b>9</b>	8 x 8	12	9	7
6	5	3	4	6	3	9	<b>10.5</b>	10 x 10	8	6	5
4	4	3	3	7	2	11	<b>12</b>	11 x 11	6	4	3

### CDL4 7L30KAWH

LED Light Engine: 3000K 90 CRI  
 System Wattage: 8.7  
 Fixture delivered lumens: 705  
 Fixture Efficacy: 81.0  
 Spacing Criteria: 1.1



### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	257	36.5
0-40	403	57.2
0-60	629	89.3
0-90	705	100.0

### CANDELA DISTRIBUTION

DEG	CANDELA
0	350
5	348
15	327
25	288
35	233
45	170
55	106
65	53
75	17
85	3
90	0

### COEFFICIENTS OF UTILIZATION

#### Zonal Cavity Method

Room Cavity Ratio	% Effective Ceiling Cavity Reflectance				20% Effective Floor Cavity Reflectance				% Wall Reflectance			
	<b>80%   70%   50%   30%</b>											
	70	50	30	10	70	10	50	30	50	30		
<b>1</b>	111	107	103	100	108	98	100	98	97	94		
<b>3</b>	94	85	78	72	92	72	81	75	78	73		
<b>5</b>	81	69	61	55	79	55	66	59	64	58		
<b>7</b>	70	57	49	44	68	44	55	48	54	48		
<b>9</b>	61	49	41	36	60	36	47	40	46	40		

CDL4 7L30KAWH

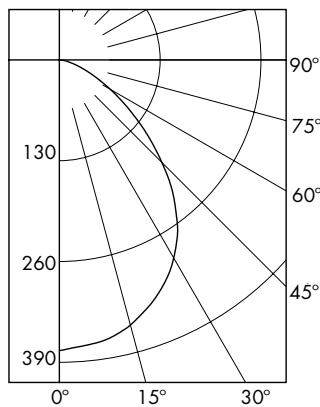
Test No. P17.00229

Test No. P17.00229

Tested at 25°C Ambient in accordance to IESNA LM-79-2008

### CDL6 8L30KAWH

LED Light Engine: 3000K 90 CRI  
 System Wattage: 10.1  
 Fixture delivered lumens: 763  
 Fixture Efficacy: 75.5  
 Spacing Criteria: 1.2



### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	281	36.9
0-40	447	58.5
0-60	688	90.1
0-90	763	100.0

### CANDELA DISTRIBUTION

DEG	CANDELA
0	375
5	370
15	354
25	319
35	266
45	187
55	108
65	50
75	18
85	4
90	0

### COEFFICIENTS OF UTILIZATION

#### Zonal Cavity Method

Room Cavity Ratio	% Effective Ceiling Cavity Reflectance				20% Effective Floor Cavity Reflectance				% Wall Reflectance			
	<b>80%   70%   50%   30%</b>											
	70	50	30	10	70	10	50	30	50	30		
<b>1</b>	111	107	103	100	108	99	101	98	97	95		
<b>3</b>	95	85	78	73	92	72	81	76	78	74		
<b>5</b>	81	70	62	56	79	55	67	60	65	59		
<b>7</b>	70	58	50	44	69	44	56	49	54	48		
<b>9</b>	62	49	41	36	60	36	47	41	46	40		

CDL6 8L30KAWH

Test No. P17.00238

Test No. P17.00238

Tested at 25°C Ambient in accordance to IESNA LM-79-2008

**DIMMING NOTES:**

Prescolite's recessed LED modules are designed to be compatible with many dimmer controls. Electronic low-voltage rated dimmer controls may offer favorable dimming performance. Incandescent type dimmers are not recommended. The following is a list of known compatible dimmer controls:

Manufacturer	Series	Part Number	Dimmer Type
Lutron	Nova T	NTELV-300	ELV
Lutron	Spacer	SPSELV-600	ELV
Lutron	Maestro	MAELV-600	ELV
Lutron	Diva	DVELV-300P	ELV

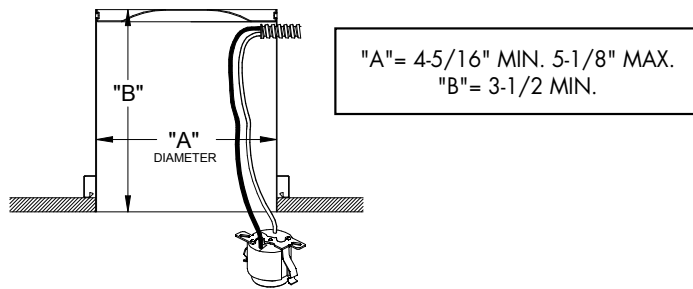
Dimming capabilities will vary depending on the dimmer control, load, and circuit installation. Always refer to dimmer manufacturer instructions or a controls specialist for specific requirements.

Dimmer control brand names where identified above are tradenames or registered trademarks of each respective company.

**HOUSING CAPABILITY:**

**CDL4** modules are UL certified for use with Prescolite and most competitive recessed cans with the following "A" and "B" dimensions:

- Prescolite**  
 Capri  
 Commercial Electric  
 Elco  
 Emerald  
 Halo  
 Intense  
 Jimway



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- Prescolite**  
 Capri  
 Commercial Electric  
 Elco  
 Emerald  
 Halo  
 Intense  
 Jimway  
 Juno  
 Lithonia  
 Lumapro  
 Luminaire
- Nora  
 Progress  
 Sea Gull  
 WAC

