

# 8" High Performance Commercial Downlight



ProLED® LED High Performance Commercial Downlights are a long life and energy efficient replacement for traditional lamps. Dimmable and easy to install, they deliver a maintenance-free experience with a 50,000-hour useful rated life. With its superior LED technology and performance, the LED High Performance Commercial Downlight deliver consistent color, uniform illumination, and a long life for your lighting design. Applications include: office, hallway, bathroom, lobby, hospitality, conference room. ProLED® LED High Performance Commercial Downlights are backed by a 5-year warranty.

## Performance Specifications

<b>CRI</b> _____	80	<b>Min. Start Temp.</b> _____	0°C (-32°F)
<b>Rated Life</b> _____	50,000 hours	<b>Max. Operating Temp.</b> _____	40°C (104°F)
<b>Watt</b> _____	30W, 40W	<b>Power Factor</b> _____	>0.95%
<b>Lumens</b> _____	2810-3995 lm	<b>Warranty</b> _____	5-Year Limited
<b>Lumens per Watt (LPW)</b> _____	90-100	<b>Control</b> _____	Dimmable to 10% (0-10V)
<b>Input Line Voltage</b> _____	120-277V	<b>Weight</b> _____	6.0 lbs
<b>Input Line Frequency</b> _____	50/60 Hz		

## Energy Savings

Traditional lamp	Replacement LED	Energy Savings
(2) 32 CFL	30W	53%

## Construction

- 50,000 hour life results in lower maintenance costs over time
- Highly specular reflector
- Frosted lens for smooth, even and comfortable light distribution
- ETL approved for damp locations
- RoHS Compliant
- Dimmable to 10% (0-10V)
- ENERGY STAR® Certified

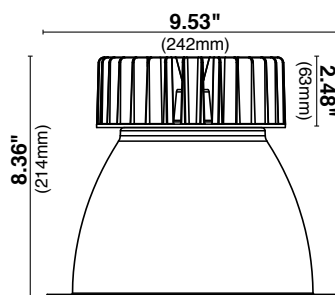
## Installation

- Open frame commercial housing (provided by others)
- Universal mounting clips for varying ceiling thickness
- IC rated
- Easy to install
- Emergency battery options for all color temperatures
- Special design driver box mounts directly to junction box

## Electrical

- 120-277V Input
- 50/60 Hz Input frequency
- Dimmable to 10% (0-10V)
- Power Factor >0.95%

## Dimensions



Universal Mounting Clips



Driver Box

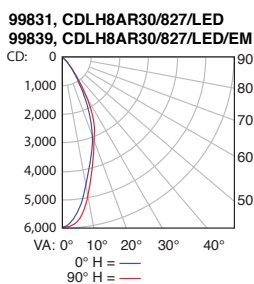
## Ordering Information



Watt	Product #	Product Code	Volts	Color Temp.	CRI	Lumen Output	Useful Life*	Dimmable	Aperture Size	EQ. Wattage
30W	99831	CDLH8AR30/827/LED	120-277V	2700K	80	2810	50,000	Yes (0-10V)	8"	(2) 32W CFL
30W	99832	CDLH8AR30/830/LED	120-277V	3000K	80	2810	50,000	Yes (0-10V)	8"	(2) 32W CFL
30W	99833	CDLH8AR30/840/LED	120-277V	4000K	80	2810	50,000	Yes (0-10V)	8"	(2) 32W CFL
30W	99834	CDLH8AR30/850/LED	120-277V	5000K	80	2810	50,000	Yes (0-10V)	8"	(2) 32W CFL
40W	99835	CDLH8AR40/827/LED	120-277V	2700K	80	3615	50,000	Yes (0-10V)	8"	(2) 42W CFL
40W	99836	CDLH8AR40/830/LED	120-277V	3000K	80	3615	50,000	Yes (0-10V)	8"	(2) 42W CFL
40W	99837	CDLH8AR40/840/LED	120-277V	4000K	80	3995	50,000	Yes (0-10V)	8"	(2) 42W CFL
40W	99838	CDLH8AR40/850/LED	120-277V	5000K	80	3995	50,000	Yes (0-10V)	8"	(2) 42W CFL
30W	99839	CDLH8AR30/827/LED/EM	120-277V	2700K	80	2810	50,000	Yes (0-10V)	10"	(2) 32W CFL
30W	99840	CDLH8AR30/830/LED/EM	120-277V	3000K	80	2810	50,000	Yes (0-10V)	10"	(2) 32W CFL
30W	99841	CDLH8AR30/840/LED/EM	120-277V	4000K	80	2810	50,000	Yes (0-10V)	10"	(2) 32W CFL
30W	99842	CDLH8AR30/850/LED/EM	120-277V	5000K	80	2810	50,000	Yes (0-10V)	10"	(2) 32W CFL
40W	99843	CDLH8AR40/827/LED/EM	120-277V	2700K	80	3615	50,000	Yes (0-10V)	10"	(2) 42W CFL
40W	99844	CDLH8AR40/830/LED/EM	120-277V	3000K	80	3615	50,000	Yes (0-10V)	10"	(2) 42W CFL
40W	99845	CDLH8AR40/840/LED/EM	120-277V	4000K	80	3995	50,000	Yes (0-10V)	10"	(2) 42W CFL
40W	99846	CDLH8AR40/850/LED/EM	120-277V	5000K	80	3995	50,000	Yes (0-10V)	10"	(2) 42W CFL

\* Useful Life is defined as the point in time at which the lamp will maintain at least 70% of its initial lumens.

## Photometrics

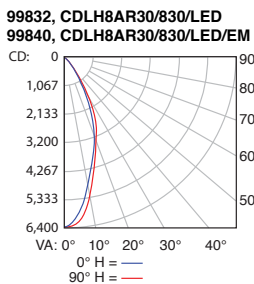


### LUMENS PER ZONE

ZONE	LUMENS	% TOTAL	ZONE	LUMENS	% TOTAL
0-10	505.3	18.0%	90-100	0.000	0%
10-20	1,040.4	37.1%	100-110	0.000	0%
20-30	965.7	34.5%	110-120	0.000	0%
30-40	283.4	10.1%	120-130	0.000	0%
40-50	7.3	0.3%	130-140	0.000	0%
50-60	0.000	0.0%	140-150	0.000	0%
60-70	0.000	0.0%	150-160	0.000	0%
70-80	0.000	0.0%	160-170	0.000	0%
80-90	0.000	0.0%	170-180	0.000	0%

### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% LUM NAIRE
0-30	2,511.4	89.6%	89.6%
0-40	2,794.8	99.7%	99.7%
0-60	2,802.1	100%	100%
60-90	0.000	0%	0%
70-100	0.000	0%	0%
90-120	0.000	0%	0%
0-90	2,802.1	100%	100%
90-180	0.000	0%	0%
0-180	2,802.1	100%	100%

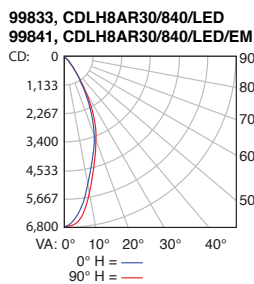


### LUMENS PER ZONE

ZONE	LUMENS	% TOTAL	ZONE	LUMENS	% TOTAL
0-10	536.4	18.0%	90-100	0.000	0%
10-20	1,104.4	37.1%	100-110	0.000	0%
20-30	1,025.1	34.5%	110-120	0.000	0%
30-40	300.8	10.1%	120-130	0.000	0%
40-50	7.7	0.3%	130-140	0.000	0%
50-60	0.000	0.0%	140-150	0.000	0%
60-70	0.000	0.0%	150-160	0.000	0%
70-80	0.000	0.0%	160-170	0.000	0%
80-90	0.000	0.0%	170-180	0.000	0%

### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% LUM NAIRE
0-30	2,511.4	89.6%	89.6%
0-40	2,794.8	99.7%	99.7%
0-60	2,802.1	100%	100%
60-90	0.000	0%	0%
70-100	0.000	0%	0%
90-120	0.000	0%	0%
0-90	2,802.1	100%	100%
90-180	0.000	0%	0%
0-180	2,802.1	100%	100%

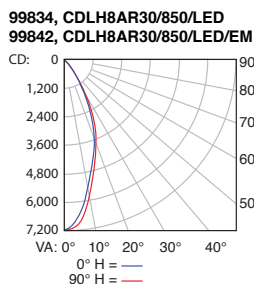


### LUMENS PER ZONE

ZONE	LUMENS	% TOTAL	ZONE	LUMENS	% TOTAL
0-10	569.6	18.0%	90-100	0.000	0%
10-20	1,172.7	37.1%	100-110	0.000	0%
20-30	1,088.4	34.5%	110-120	0.000	0%
30-40	319.4	10.1%	120-130	0.000	0%
40-50	8.2	0.3%	130-140	0.000	0%
50-60	0.000	0.0%	140-150	0.000	0%
60-70	0.000	0.0%	150-160	0.000	0%
70-80	0.000	0.0%	160-170	0.000	0%
80-90	0.000	0.0%	170-180	0.000	0%

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ZONE	LUMENS	% LAMP	% LUM NAIRE
0-30	2,511.4	89.6%	89.6%
0-40	2,794.8	99.7%	99.7%
0-60	2,802.1	100%	100%
60-90	0.000	0%	0%
70-100	0.000	0%	0%
90-120	0.000	0%	0%
0-90	2,802.1	100%	100%
90-180	0.000	0%	0%
0-180	2,802.1	100%	100%



### LUMENS PER ZONE

ZONE	LUMENS	% TOTAL	ZONE	LUMENS	% TOTAL
0-10	604.9	18.0%	90-100	0.000	0%
10-20	1,245.3	37.1%	100-110	0.000	0%
20-30	1,155.8	34.5%	110-120	0.000	0%
30-40	339.2	10.1%	120-130	0.000	0%
40-50	8.7	0.3%	130-140	0.000	0%
50-60	0.000	0.0%	140-150	0.000	0%
60-70	0.000	0.0%	150-160	0.000	0%
70-80	0.000	0.0%	160-170	0.000	0%
80-90	0.000	0.0%	170-180	0.000	0%

### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% LUM NAIRE
0-30	2,511.4	89.6%	89.6%
0-40	2,794.8	99.7%	99.7%
0-60	2,802.1	100%	100%
60-90	0.000	0%	0%
70-100	0.000	0%	0%
90-120	0.000	0%	0%
0-90	2,802.1	100%	100%
90-180	0.000	0%	0%
0-180	2,802.1	100%	100%

## Ordering Information

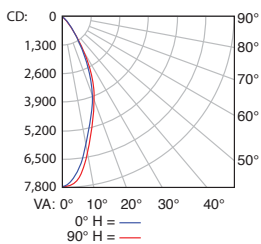


Watt	Product #	Product Code	Volts	Color Temp.	CRI	Lumen Output	Useful Life*	Dimmable	Aperture Size	EQ. Wattage
30W	99831	CDLH8AR30/827/LED	120-277V	2700K	80	2810	50,000	Yes (0-10V)	8"	(2) 32W CFL
30W	99832	CDLH8AR30/830/LED	120-277V	3000K	80	2810	50,000	Yes (0-10V)	8"	(2) 32W CFL
30W	99833	CDLH8AR30/840/LED	120-277V	4000K	80	2810	50,000	Yes (0-10V)	8"	(2) 32W CFL
30W	99834	CDLH8AR30/850/LED	120-277V	5000K	80	2810	50,000	Yes (0-10V)	8"	(2) 32W CFL
40W	99835	CDLH8AR40/827/LED	120-277V	2700K	80	3615	50,000	Yes (0-10V)	8"	(2) 42W CFL
40W	99836	CDLH8AR40/830/LED	120-277V	3000K	80	3615	50,000	Yes (0-10V)	8"	(2) 42W CFL
40W	99837	CDLH8AR40/840/LED	120-277V	4000K	80	3995	50,000	Yes (0-10V)	8"	(2) 42W CFL
40W	99838	CDLH8AR40/850/LED	120-277V	5000K	80	3995	50,000	Yes (0-10V)	8"	(2) 42W CFL
30W	99839	CDLH8AR30/827/LED/EM	120-277V	2700K	80	2810	50,000	Yes (0-10V)	10"	(2) 32W CFL
30W	99840	CDLH8AR30/830/LED/EM	120-277V	3000K	80	2810	50,000	Yes (0-10V)	10"	(2) 32W CFL
30W	99841	CDLH8AR30/840/LED/EM	120-277V	4000K	80	2810	50,000	Yes (0-10V)	10"	(2) 32W CFL
30W	99842	CDLH8AR30/850/LED/EM	120-277V	5000K	80	2810	50,000	Yes (0-10V)	10"	(2) 32W CFL
40W	99843	CDLH8AR40/827/LED/EM	120-277V	2700K	80	3615	50,000	Yes (0-10V)	10"	(2) 42W CFL
40W	99844	CDLH8AR40/830/LED/EM	120-277V	3000K	80	3615	50,000	Yes (0-10V)	10"	(2) 42W CFL
40W	99845	CDLH8AR40/840/LED/EM	120-277V	4000K	80	3995	50,000	Yes (0-10V)	10"	(2) 42W CFL
40W	99846	CDLH8AR40/850/LED/EM	120-277V	5000K	80	3995	50,000	Yes (0-10V)	10"	(2) 42W CFL

\* Useful Life is defined as the point in time at which the lamp will maintain at least 70% of its initial lumens.

## Photometrics

99835, CDLH8AR40/827/LED  
99843, CDLH8AR40/827/LED/EM



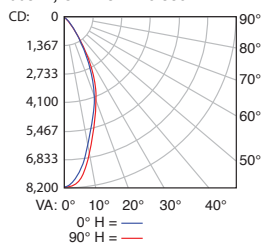
### LUMENS PER ZONE

ZONE	LUMENS	% TOTAL	ZONE	LUMENS	% TOTAL
0-10	657.8	18.0%	90-100	0.000	0%
10-20	1,354.2	37.1%	100-110	0.000	0%
20-30	1,257.0	34.5%	110-120	0.000	0%
30-40	368.8	10.1%	120-130	0.000	0%
40-50	9.5	0.3%	130-140	0.000	0%
50-60	0.000	0.0%	140-150	0.000	0%
60-70	0.000	0.0%	150-160	0.000	0%
70-80	0.000	0.0%	160-170	0.000	0%
80-90	0.000	0.0%	170-180	0.000	0%

### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	3,269.0	89.6%	89.6%
0-40	3,637.8	99.7%	99.7%
0-60	3,647.3	100%	100%
60-90	0.000	0%	0%
70-100	0.000	0%	0%
90-120	0.000	0%	0%
0-90	3,647.3	100%	100%
90-180	0.000	0%	0%
0-180	3,647.3	100%	100%

99836, CDLH8AR40/830/LED  
99844, CDLH8AR40/830/LED/EM



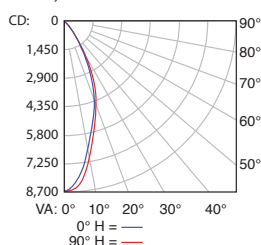
### LUMENS PER ZONE

ZONE	LUMENS	% TOTAL	ZONE	LUMENS	% TOTAL
0-10	690.1	18.0%	90-100	0.000	0%
10-20	1,420.8	37.1%	100-110	0.000	0%
20-30	1,318.7	34.5%	110-120	0.000	0%
30-40	387.0	10.1%	120-130	0.000	0%
40-50	9.9	0.3%	130-140	0.000	0%
50-60	0.000	0.0%	140-150	0.000	0%
60-70	0.000	0.0%	150-160	0.000	0%
70-80	0.000	0.0%	160-170	0.000	0%
80-90	0.000	0.0%	170-180	0.000	0%

### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	3,429.7	89.6%	89.6%
0-40	3,816.7	99.7%	99.7%
0-60	3,826.6	100%	100%
60-90	0.000	0%	0%
70-100	0.000	0%	0%
90-120	0.000	0%	0%
0-90	3,826.6	100%	100%
90-180	0.000	0%	0%
0-180	3,826.6	100%	100%

99837, CDLH8AR40/840/LED  
99845, CDLH8AR40/840/LED/EM



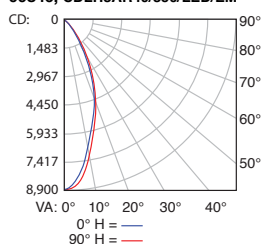
### LUMENS PER ZONE

ZONE	LUMENS	% TOTAL	ZONE	LUMENS	% TOTAL
0-10	733.5	18.0%	90-100	0.000	0%
10-20	1,510.1	37.1%	100-110	0.000	0%
20-30	1,401.6	34.5%	110-120	0.000	0%
30-40	411.3	10.1%	120-130	0.000	0%
40-50	10.6	0.3%	130-140	0.000	0%
50-60	0.000	0.0%	140-150	0.000	0%
60-70	0.000	0.0%	150-160	0.000	0%
70-80	0.000	0.0%	160-170	0.000	0%
80-90	0.000	0.0%	170-180	0.000	0%

### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	3,645.1	89.6%	89.6%
0-40	4,056.4	99.7%	99.7%
0-60	4,066.9	100%	100%
60-90	0.000	0%	0%
70-100	0.000	0%	0%
90-120	0.000	0%	0%
0-90	4,066.9	100%	100%
90-180	0.000	0%	0%
0-180	4,066.9	100%	100%

99838, CDLH8AR40/850/LED  
99846, CDLH8AR40/850/LED/EM



### LUMENS PER ZONE

ZONE	LUMENS	% TOTAL	ZONE	LUMENS	% TOTAL
0-10	745.2	18.0%	90-100	0.000	0%
10-20	1,534.3	37.1%	100-110	0.000	0%
20-30	1,424.1	34.5%	110-120	0.000	0%
30-40	417.9	10.1%	120-130	0.000	0%
40-50	10.7	0.3%	130-140	0.000	0%
50-60	0.000	0.0%	140-150	0.000	0%
60-70	0.000	0.0%	150-160	0.000	0%
70-80	0.000	0.0%	160-170	0.000	0%
80-90	0.000	0.0%	170-180	0.000	0%

### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	3,703.7	89.6%	89.6%
0-40	4,121.5	99.7%	99.7%
0-60	4,132.3	100%	100%
60-90	0.000	0%	0%
70-100	0.000	0%	0%
90-120	0.000	0%	0%
0-90	4,132.3	100%	100%
90-180	0.000	0%	0%
0-180	4,132.3	100%	100%