

4" ECO Downlights



ProLED® ECO Downlights are a long life and energy efficient replacement for traditional lamps. The 4" platform is easy to install and delivers a maintenance-free environment for its 35,000 hour useful rated life. With its superior LED technology and performance, the ProLED ECO Downlights deliver consistent color and uniform illumination in a budget-friendly design. Applications include: home, office, lobby, hospitality, retail, and conference rooms. ProLED ECO Downlights are backed by a 5-year limited warranty.

Performance Specifications

CRI _____	82	Min. Start Temp. _____	-20°C (-4°F)
Rated Life _____	35,000 hours	Max. Operating Temp. _____	45°C (113°F)
Watt _____	9W	Power Factor _____	>95%
Lumens _____	650lm	Warranty _____	5-Year Limited
Lumens per Watt (LPW) _____	72	Control _____	Dimmable (10%)
Input Line Voltage _____	120V	Weight _____	0.4 lb
Input Line Frequency _____	60 Hz		

Energy Savings	Traditional Incandescent	Replacement LED	Energy Savings
	50W	9W	82%

Construction

- Spun aluminum housing and thermoplastic trim ring
- 35,000 hour life results in lower maintenance costs over time
- Frosted lens for smooth, even and comfortable light distribution
- Luminaire is UL approved for damp locations
- RoHS Compliant

Installation

- Friction clips secure strongly into 4" recessed housing
- Pre-wired E26 socket assembly included, GU24 adapter available
- Connects directly to dedicated LED-ready luminaires
- Rated for indoor use only

Electrical

- 120V Input
- 50/60 Hz Frequency
- Dimmable (10%)
- Power Factor >95%

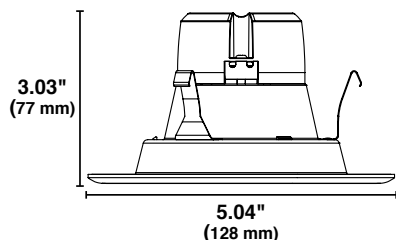
Ordering Information



Watt	Product #	Product Code	Volts	Color Temp.	CRI	Lumen Output	Useful Life*	Dimmable	Fixture Size	Equivalent Wattage
9	83058	DL4FR9/827/ECO/LED	120	2700K	82	650	35,000	Yes	4"	50
9	83059	DL4FR9/830/ECO/LED	120	3000K	82	650	35,000	Yes	4"	50
9	83060	DL4FR9/840/ECO/LED	120	4000K	82	650	35,000	Yes	4"	50
9	83061	DL4FR9/850/ECO/LED	120	5000K	82	650	35,000	Yes	4"	50
	91003	ADP/DL/GU24/LED	GU24 Socket Adapter							

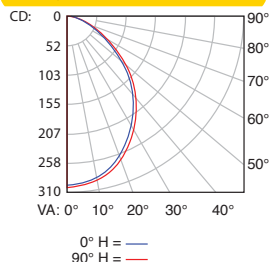
* Useful Life is defined as the duration of time which the lamp will maintain at least 70% of its initial lumens.

Dimensions



Photometrics

83058, DL4FR9/827/ECO/LED

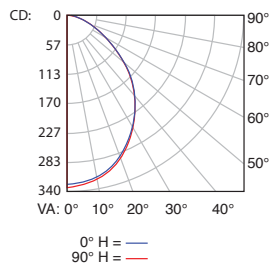


ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	218.8	35.1%	35.1%
0-40	344.8	55.3%	55.3%
0-60	546.4	87.6%	87.7%
60-90	76.3	12.2%	12.2%
70-100	25.4	4.1%	4.1%
90-120	0.4	0.1%	0.1%
0-90	622.7	99.9%	99.9%
90-180	0.7	0.1%	0.1%
0-180	623.4	100%	100%

Total Luminaire Efficiency = 100.00%

LUMENS PER ZONE			
ZONE	LUMENS	% TOTAL	ZONE LUMENS % TOTAL
0-10	27.9	4.5%	90-100 0.2 0%
10-20	78.2	12.5%	100-110 0.1 0%
20-30	112.8	18.1%	110-120 0.1 0%
30-40	126.0	20.2%	120-130 0.1 0%
40-50	115.1	18.5%	130-140 0.1 0%
50-60	86.5	13.9%	140-150 0.1 0%
60-70	51.0	8.2%	150-160 0.0 0%
70-80	19.7	3.2%	160-170 0.0 0%
80-90	5.6	0.9%	170-180 0.0 0%

83059, DL4FR9/830/ECO/LED

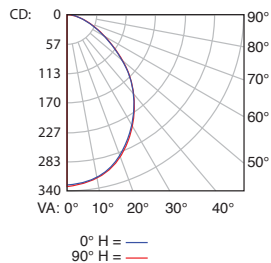


ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	241.8	34.8%	34.8%
0-40	382.1	55%	55%
0-60	608.2	87.6%	87.6%
60-90	85.2	12.3%	12.3%
70-100	27.9	4%	4%
90-120	0.3	0%	0%
0-90	693.4	99.9%	99.9%
90-180	0.6	0.1%	0.1%
0-180	694.1	100%	100%

Total Luminaire Efficiency = 100.00%

LUMENS PER ZONE			
ZONE	LUMENS	% TOTAL	ZONE LUMENS % TOTAL
0-10	30.8	4.4%	90-100 0.1 0%
10-20	86.3	12.4%	100-110 0.1 0%
20-30	124.8	18.0%	110-120 0.1 0%
30-40	140.2	20.2%	120-130 0.1 0%
40-50	128.8	18.6%	130-140 0.1 0%
50-60	97.4	14.0%	140-150 0.1 0%
60-70	57.4	8.3%	150-160 0.0 0%
70-80	21.6	3.1%	160-170 0.0 0%
80-90	6.1	0.9%	170-180 0.0 0%

83060, DL4FR9/840/ECO/LED

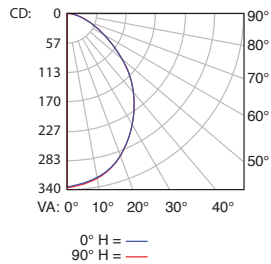


ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	243.2	34.9%	34.9%
0-40	384.1	55.1%	55.1%
0-60	611.1	87.6%	87.6%
60-90	85.7	12.3%	12.3%
70-100	28.1	4%	4%
90-120	0.3	0%	0%
0-90	696.7	99.9%	99.9%
90-180	0.6	0.1%	0.1%
0-180	697.3	100%	100%

Total Luminaire Efficiency = 100.00%

LUMENS PER ZONE			
ZONE	LUMENS	% TOTAL	ZONE LUMENS % TOTAL
0-10	30.9	4.4%	90-100 0.1 0%
10-20	86.8	12.4%	100-110 0.1 0%
20-30	125.5	18.0%	110-120 0.1 0%
30-40	140.9	20.2%	120-130 0.1 0%
40-50	129.3	18.5%	130-140 0.1 0%
50-60	97.6	14.0%	140-150 0.1 0%
60-70	57.6	8.3%	150-160 0.0 0%
70-80	21.8	3.1%	160-170 0.0 0%
80-90	6.2	0.9%	170-180 0.0 0%

83061, DL4FR9/850/ECO/LED



ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	246.0	35%	35%
0-40	388.2	55.2%	55.2%
0-60	616.5	87.7%	87.7%
60-90	85.8	12.2%	12.2%
70-100	28.1	4%	4%
90-120	0.3	0%	0%
0-90	702.3	99.9%	99.9%
90-180	0.6	0.1%	0.1%
0-180	703.0	100%	100%

Total Luminaire Efficiency = 100.00%

LUMENS PER ZONE			
ZONE	LUMENS	% TOTAL	ZONE LUMENS % TOTAL
0-10	31.3	4.5%	90-100 0.1 0%
10-20	87.8	12.5%	100-110 0.1 0%
20-30	126.9	18.0%	110-120 0.1 0%
30-40	142.2	20.2%	120-130 0.1 0%
40-50	130.2	18.5%	130-140 0.1 0%
50-60	98.1	14.0%	140-150 0.1 0%
60-70	57.8	8.2%	150-160 0.0 0%
70-80	21.8	3.1%	160-170 0.0 0%
80-90	6.2	0.9%	170-180 0.0 0%