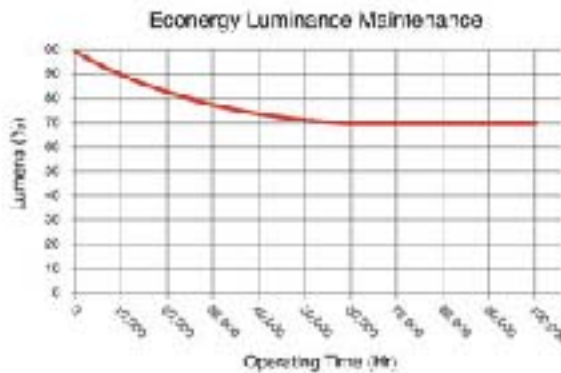




## Acorn Top Decorative Post Light & Replacement ADG Eco Lighting Products

Available through **Factory Programs & Authorized Resellers**

### Induction Light Fixtures Exclusive Solution Manufacturing 40w - 150 w



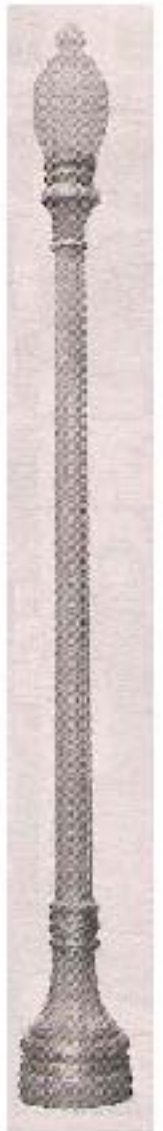
ADG Eco electrode-less induction lighting leverages new technology developments to provide a high-efficiency, low-maintenance, long-term lighting solution. With a 100,000-hour rated life, ADG Eco induction lamps are ideal for outdoor applications where re-lamping is expensive or cumbersome, as in parking lots, street lighting, tunnels, or indoors for high bay fixtures. Versatile mounting options make them

the ideal choice for a variety of pole, ceiling and wall-mounted applications.

In addition, ADG Eco Induction Light provides much higher level of luminous efficacy (lumen/watt) due to scotopic factors: high color temperature (K) combined with high color rendering index (CRI). The resulting clean, crisp white light is better to read, work and sell under. Colors are truer and merchandise looks real. This better visual acuity is achieved using less energy than with other, higher-wattage lamps.

Gradual, minimal light depreciation ensures predictable, uniform illumination over many years.

ADG Eco electrode-less induction lighting leverages new technology: developments to provide a high-efficiency, low-maintenance, long-term lighting solution. 100,000-hour rated life.



Architectural Detail Group, inc.

[www.adgEcoLP.com](http://www.adgEcoLP.com)

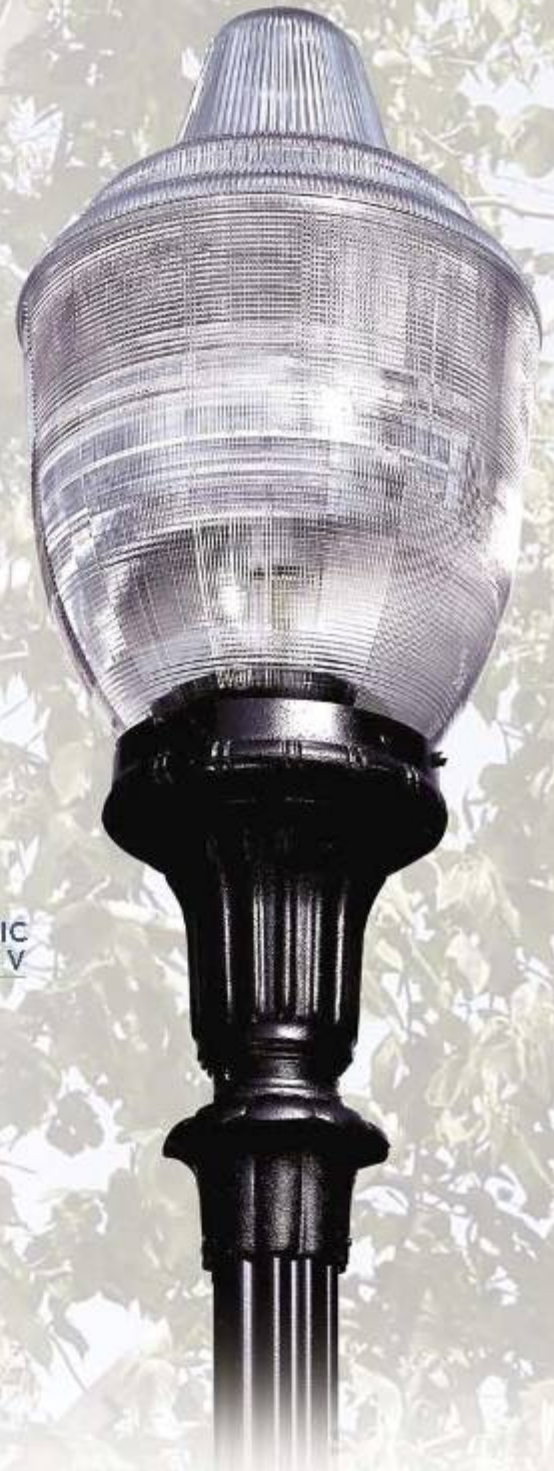
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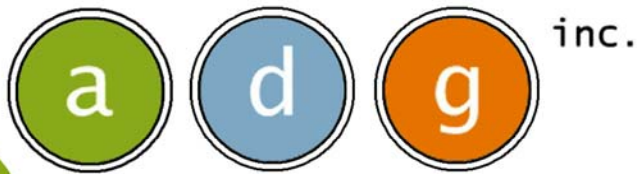


# THE LINDY™ ASSEMBLY

LexaLite's Lindy Assembly is designed for retrofit and replacement post top lighting applications



High Performance Acorns Available Through  
Architectural Detail Group, Inc  
[www.adgEcoLightingProducts.com](http://www.adgEcoLightingProducts.com)







**LUMINAIRE TESTING LABORATORY, INC.**

SUSTAINING  
MEMBER  
of the  
IESNA

905 Harrison Street • Allentown, PA 18103 • 610-770-1044 • Fax 610-770-8912 • www.LuminaireTesting.com

LTL NUMBER: 16223

DATE: 07-24-2009

CATALOG NUMBER: 150W INDUCTION LAMP

LAMP: ONE VBU 150 WATT INDUCTION LAMP WITH EXTRUDED ALUMINUM HEATSINK.

LAMP CATALOG NUMBER: ONE K MH EC-F-150W/85C (QT)

HIGH FREQUENCY GENERATOR: ONE K MH KERL150WV

MOUNTING: SURFACE

ELECTRICAL VALUES: 120.0VAC, 1.2305A, 147.52W

NOTE: THIS TEST WAS PERFORMED USING THE CALIBRATED  
PHOTODETECTOR METHOD OF ABSOLUTE PHOTOMETRY.\*

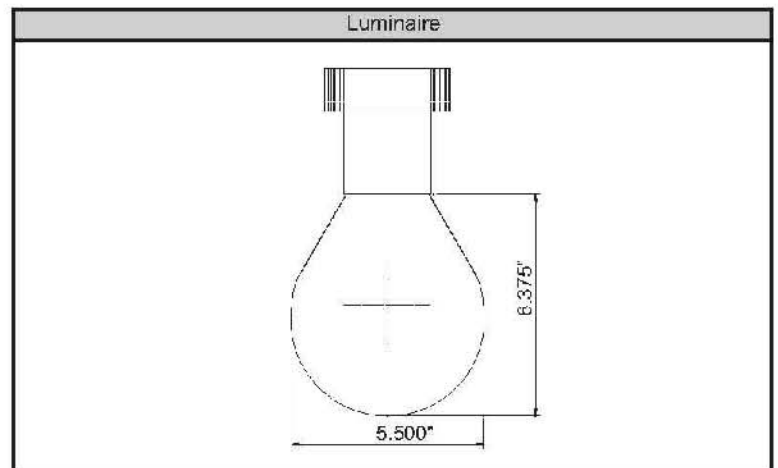
Candela Distribution

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5	Flux
0	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	
5	769	769	769	769	769	769	769	769	769	769	769	769	769	769	769	769	73.3
15	768	768	768	768	768	768	768	768	768	768	768	768	768	768	768	768	218.0
25	776	776	776	776	776	776	776	776	776	776	776	776	776	776	776	776	359.5
35	798	798	798	798	798	798	798	798	798	798	798	798	798	798	798	798	502.5
45	838	838	838	838	838	838	838	838	838	838	838	838	838	838	838	838	650.1
55	888	888	888	888	888	888	888	888	888	888	888	888	888	888	888	888	796.9
65	934	934	934	934	934	934	934	934	934	934	934	934	934	934	934	934	927.1
75	969	969	969	969	969	969	969	969	969	969	969	969	969	969	969	969	1024.7
85	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	1077.7
90	991	991	991	991	991	991	991	991	991	991	991	991	991	991	991	991	
95	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	1078.4
105	969	969	969	969	969	969	969	969	969	969	969	969	969	969	969	969	1024.6
115	930	930	930	930	930	930	930	930	930	930	930	930	930	930	930	930	922.3
125	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872	782.6
135	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	620.3
145	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	453.5
155	640	640	640	640	640	640	640	640	640	640	640	640	640	640	640	640	297.5
165	557	557	557	557	557	557	557	557	557	557	557	557	557	557	557	557	158.5
175	287	287	287	287	287	287	287	287	287	287	287	287	287	287	287	287	33.6
180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Zonal Lumen Summary

Zone	Lumens	% of Lamp	% of Luminaire
0-30	650.8	N/A	5.9%
0-40	1153.3	N/A	10.5%
0-60	2600.3	N/A	23.6%
0-90	5629.8	N/A	51.2%
90-180	5371.3	N/A	48.8%
0-180	11001.1	N/A	100.0%

Total lumen Output: 11001.1 Lumens  
 Luminaire efficacy: 74.6 Lumens per Watt  
 CIE Type: Direct/Indirect  
 Spacing Criterion: 1.62



Approved By: \_\_\_\_\_

**THIS REPORT BASED ON LM-41 AND OTHER PERTINENT IESNA PROCEDURES.**



ADG Eco Lighting

Advanced Lighting Technologies

ADGEco™ Induction Lighting

## Ask ADG Eco Lighting

All projects are built made to order in the USA

This enables each project to be fabricated to specific needs

Item call out: Lamping, Lenses, IP ratings, Color, Ornamental detail

Not every fixture will have an IES file or IP rating

Each fixture can be designed and manufactured to your specifications. Tell us your needs.

ADG Eco is a Solution Based Manufacturer



## COMPARE MATERIALS

---

We offer The Lindy in the finest lighting grade acrylic and polycarbonate materials available in the market today.

### Acrylic:

- excellent clarity and appearance.
- used in lighting applications where breakage is not a concern.

### Polycarbonate:

- lasting durability

### Ultraviolet Protection:

- LexaLite materials feature enhanced UV packages for long term performance.

### For applications requiring diffusion:

- we now offer The Lindy in a new acrylic Moon Glow™ option. All of our acrylic and polycarbonate materials feature enhanced ultraviolet packages for long term performance



## INFERIOR MATERIALS COST YOU MONEY AND INCREASE MAINTENANCE COSTS

---

Does this picture remind you of any of your lights? Think about how much money you will spend in replacement and maintenance costs to replace acorns every three years.

Blow molded acorns are made of polycarbonate, which provides strength, but does not offer the long term clear appearance of acrylic. Polypropylene is another material offering; it yellows very quickly, requiring replacement every two to three years.

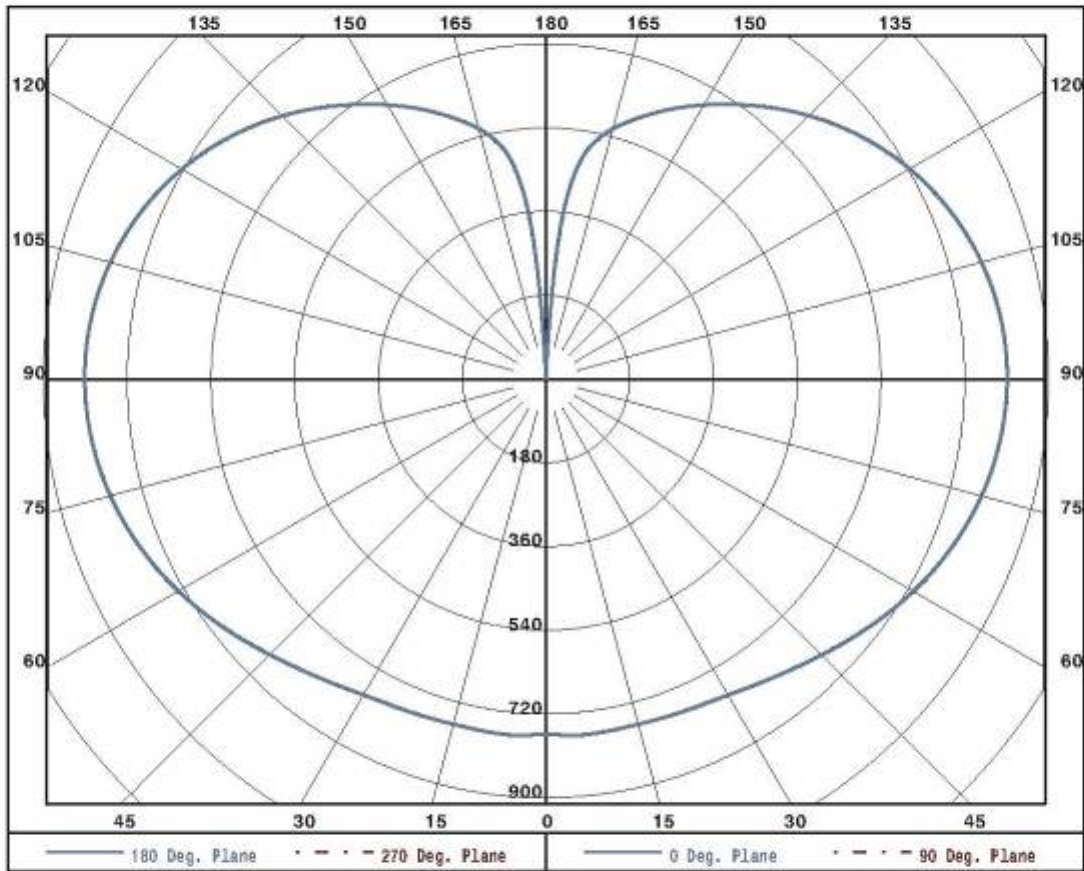


Continual replacement of inferior, nonperforming globes and acorns means you are spending more money than you need to.

## DO YOU FEEL LIKE YOU MIGHT BE GETTING ONLY HALF OF WHAT YOU PAID FOR?

---

Isn't it time to get your money's worth with true performance from The Lindy???







# LUMINAIRE TESTING LABORATORY, INC.

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Candela Tabulation (5 degree Vertical Increments)

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5
0	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764
5	769	769	769	769	769	769	769	769	769	769	769	769	769	769	769	769
10	769	769	769	769	769	769	769	769	769	769	769	769	769	769	769	769
15	768	768	768	768	768	768	768	768	768	768	768	768	768	768	768	768
20	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771	771
25	776	776	776	776	776	776	776	776	776	776	776	776	776	776	776	776
30	784	784	784	784	784	784	784	784	784	784	784	784	784	784	784	784
35	798	798	798	798	798	798	798	798	798	798	798	798	798	798	798	798
40	817	817	817	817	817	817	817	817	817	817	817	817	817	817	817	817
45	838	838	838	838	838	838	838	838	838	838	838	838	838	838	838	838
50	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863
55	888	888	888	888	888	888	888	888	888	888	888	888	888	888	888	888
60	912	912	912	912	912	912	912	912	912	912	912	912	912	912	912	912
65	934	934	934	934	934	934	934	934	934	934	934	934	934	934	934	934
70	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953
75	969	969	969	969	969	969	969	969	969	969	969	969	969	969	969	969
80	981	981	981	981	981	981	981	981	981	981	981	981	981	981	981	981
85	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989
90	991	991	991	991	991	991	991	991	991	991	991	991	991	991	991	991
95	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989
100	982	982	982	982	982	982	982	982	982	982	982	982	982	982	982	982
105	969	969	969	969	969	969	969	969	969	969	969	969	969	969	969	969
110	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952
115	930	930	930	930	930	930	930	930	930	930	930	930	930	930	930	930
120	903	903	903	903	903	903	903	903	903	903	903	903	903	903	903	903
125	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872
130	838	838	838	838	838	838	838	838	838	838	838	838	838	838	838	838
135	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800
140	761	761	761	761	761	761	761	761	761	761	761	761	761	761	761	761
145	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720
150	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680
155	640	640	640	640	640	640	640	640	640	640	640	640	640	640	640	640
160	599	599	599	599	599	599	599	599	599	599	599	599	599	599	599	599
165	557	557	557	557	557	557	557	557	557	557	557	557	557	557	557	557
170	496	496	496	496	496	496	496	496	496	496	496	496	496	496	496	496
175	287	287	287	287	287	287	287	287	287	287	287	287	287	287	287	287
180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Zonal Lumen Tabulation (5 degree zones)

Zone	Lumens	Zone	Lumens	Zone	Lumens	Zone	Lumens
0-5	18.3	45-50	343.7	90-95	542.6	135-140	289.2
5-10	55.0	50-55	380.7	95-100	535.9	140-145	247.2
10-15	91.1	55-60	416.1	100-105	522.2	145-150	206.3
15-20	126.8	60-65	449.0	105-110	502.4	150-155	167.3
20-25	162.2	65-70	478.1	110-115	476.6	155-160	130.2
25-30	197.3	70-75	502.7	115-120	445.7	160-165	95.5
30-35	233.0	75-80	522.0	120-125	410.6	165-170	63.0
35-40	269.5	80-85	535.4	125-130	372.0	170-175	30.7
40-45	306.4	85-90	542.3	130-135	331.2	175-180	2.9



Utilization of Lumens - Zonal Cavity Method												
Effective Floor Cavity Reflectance 20%												
Ceiling Cavity Reflectance	90				80				70			
Wall Reflectance	70	50	30	10	70	50	30	10	70	50	30	10
Room Cavity Ratio (RCR)	** Values are expressed as Lumens delivered to the task surface **											
0	12761	12761	12761	12761	11818	11818	11818	11818	10918	10918	10918	10918
1	11169	10367	9653	9014	10255	9550	8919	8350	9386	8769	8212	7708
2	9993	8765	7762	6925	9138	8061	7170	6421	8329	7386	6598	5929
3	9012	7538	6414	5529	8223	6929	5927	5129	7478	6344	5454	4737
4	8178	6566	5406	4531	7456	6037	4999	4206	6774	5529	4602	3885
5	7460	5778	4625	3784	6800	5317	4280	3515	6179	4873	3944	3249
6	6837	5131	4008	3213	6236	4726	3713	2986	5669	4336	3424	2762
7	6295	4593	3513	2765	5746	4236	3257	2572	5228	3891	3007	2380
8	5818	4140	3105	2404	5317	3823	2883	2237	4844	3516	2664	2071
9	5400	3755	2768	2110	4941	3472	2573	1965	4507	3198	2380	1821
10	5029	3425	2484	1865	4608	3171	2311	1739	4208	2924	2140	1613

Ceiling Cavity Reflectance	50				30			10		0	
Wall Reflectance	70	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio (RCR)	** Values are expressed as Lumens delivered to the task surface **										
0	9239	9239	9239	9239	7703	7703	7703	6293	6293	6293	5630
1	7776	7306	6877	6484	5963	5637	5336	4724	4482	4256	3648
2	6835	6119	5508	4980	4951	4484	4074	3871	3521	3209	2666
3	6107	5243	4547	3974	4225	3688	3237	3280	2874	2526	2043
4	5522	4569	3837	3258	3678	3109	2648	2848	2414	2055	1626
5	5037	4032	3292	2725	3249	2669	2214	2519	2072	1714	1331
6	4628	3595	2864	2319	2904	2326	1884	2256	1808	1457	1115
7	4277	3234	2520	2000	2620	2051	1626	2042	1598	1259	951
8	3972	2931	2238	1744	2381	1826	1420	1865	1428	1101	823.5
9	3706	2673	2004	1535	2180	1640	1253	1714	1288	974.6	722.4
10	3471	2452	1807	1363	2007	1484	1115	1586	1170	870.5	640.7

Average Luminance Table (cd/m<sup>2</sup>)

	0	45	90
0	49826	49826	49826
45	54698	54698	54698
55	57923	57923	57923
65	60945	60945	60945
75	63229	63229	63229
85	64491	64491	64491

THIS TEST WAS CONDUCTED USING PHOTOMETRY TECHNIQUES ACCORDING TO STANDARD IESNA PROCEDURES. THE USER MUST THEREFORE USE CAUTION IN THE FOLLOWING SITUATIONS: 1) THIS TEST WAS PERFORMED USING A SPECIFIC BALLAST/LAMP COMBINATION. EXTRAPOLATION OF THESE DATA FOR OTHER BALLAST/LAMP COMBINATIONS MAY PRODUCE ERRONEOUS RESULTS. 2) THIS TEST WAS CONDUCTED IN A CONTROLLED LABORATORY ENVIRONMENT WHERE THE AMBIENT TEMPERATURE WAS HELD AT 25°C ±1°C. FIELD PERFORMANCE MAY DIFFER PARTICULARLY IN REGARDS TO CHANGE IN LUMINOUS OUTPUT AS A RESULT OF DIFFERENCE IN AMBIENT TEMPERATURE AND METHOD OF MOUNTING THE LUMINAIRE.



# ADG Ecolighting

Advanced Lighting Technologies

## ADGEco™ Induction Lighting

ADG Eco Lighting electrode-less induction lighting leverages new technology developments to provide a high-efficiency, low-maintenance, long-term lighting solution. With a 100,000-hour rated life, ADG's induction lamps are ideal for outdoor applications where re-lamping is expensive or cumbersome, as in parking lots, street lighting, tunnels, or indoors for high bay fixtures. Versatile mounting options make them the ideal choice for a variety of pole, ceiling and wall-mounted applications.

### How do Econergy Lamps Save Energy?

Typical HID lighting has steep lumen depreciation curves, losing as much as half its initial light output by the time it reaches midlife. ADG Ecolighting is manufactured with technology developed for the back light panel display industry, which reduces lumen depreciation to less than 30% over the 100,000-hour life of the lamp.

Since HID lamps tend to be over-designed, providing higher initial lumens to compensate for fast degradation, wattage is being wasted due to expected light loss. High lumen maintenance levels makes this over-compensation unnecessary.

In addition, ADG Ecolighting provides much higher level of luminous efficacy (lumen/watt) due to scotopic factors: high color temperature (K) combined with high color rendering index (CRI). The resulting clean, crisp white light is better to read, work and sell under. Colors are truer and merchandise looks real. This better visual acuity is achieved using less energy than with other, higher-wattage lamps.

As a result, ADG Eco lamps are over 50% more efficient than the typical HID lighting they replace. Depending on the application, one 150 - watt induction lamp may replace a 360 or even a 400 watt HID lamp. Moreover, it will provide more consistent illumination over a much longer period of time.



Gradual, minimal light depreciation ensures predictable, uniform illumination over many years.

### Slashing Maintenance Costs

Re-lamping outdoor or high-bay fixtures is both costly and cumbersome, involving specialized equipment and maintenance crews. Since Induction lamps have a rated life of 100,000 or longer than 10 years(\*), they can be expected to last four to five times longer than typical HID lamps. This means the frequency of replacement goes down to virtually zero. ADG's induction lighting will pay for itself with energy and labor savings on spot replacement and re-lamping costs alone.

\* assuming a burn rate of 12-14 hours a day

NOTES:

- Four components make up the induction system: lamp, power coupler, heat sink and generator
- Approximate lumen values listed are for vertical operation of the lamp
- Mean lumens is the approximate output at 40% of rated average life

### Unparalleled Warranty

The quality and durability of this product is so outstanding that ADG Ecolighting is offering the strongest, most comprehensive warranty program in the industry. We back our fixtures for 10 years and our bulbs and ballasts for 5 years.



The European Community



ISO 14001



USA Federal Communications Commission



ISO9001



North America Industry Standard



High Energy Efficient Equipment Label

## Features & Benefits

- Very long life – 100,000 hours rated life translates to significant savings in maintenance costs
- High lumen output – 2,800 initial lumens (40W lamp) to 18,750 initial lumens (250W lamp)
- Range of input voltage – each lamp has the ability to operate on voltages ranging from 120 to 277
- Gradual, minimal lumen depreciation – still at 70% luminosity at end of life means fewer replacements, more efficient lighting
- Outstanding color rendering – CRI of >85 provides for vivid, natural colors
- Range of color temperatures – choice of warm or cool light for desired effect and particular applications
- Stable output – relatively unaffected by fluctuations in line voltage, the Induction lamp output remains constant over wide ranges of inputs
- Instant-ON capability – because it does not require warm-up time to come to full luminescence, it can be controlled by occupancy sensors to provide further energy savings
- Hot and cold operation – performs on a wide range of environments -- from -20° to 60°
- No flickering or noise – a distraction-free option for indoor or outdoor applications
- Low mercury – uses only 6 mgs of mercury, a much more environmentally-friendly product than other alternatives



## Product Comparison Chart

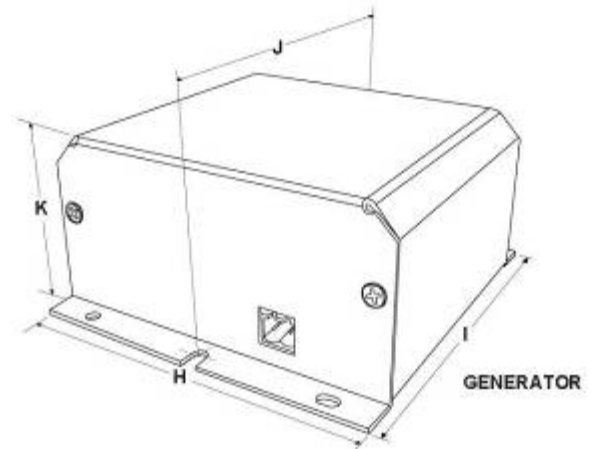
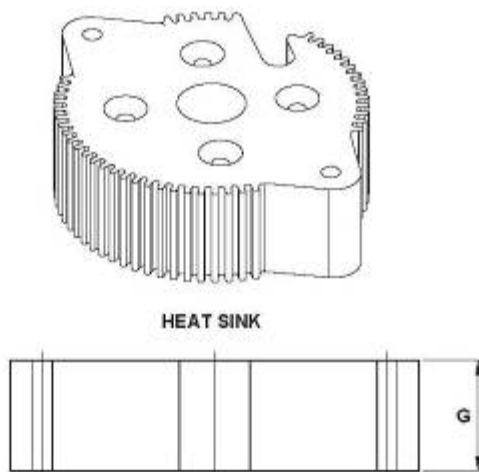
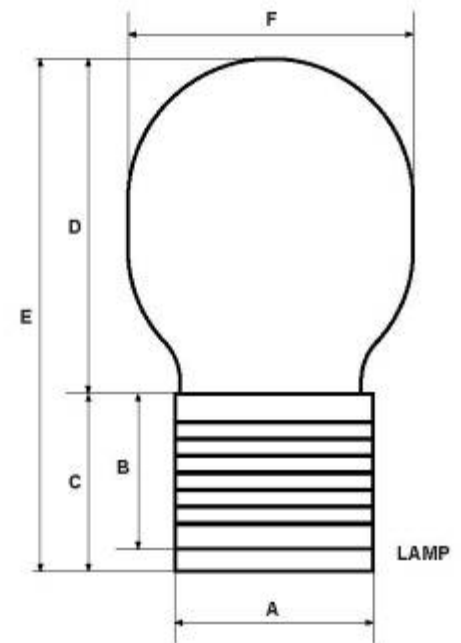
	Econergy	High Press Sodium	Metal Halide	Pulse Start
Power consumption (W)	70W	150W	175W	150W
Luminous flux (Lm)	7,500	14,000	14,000	14,000
Luminous efficacy (Lm/W)	90	93.3	80	93.3
Color temperature (K)	3000-6500	2,000	4000-6500	4000-6500
Color rendering index (CRI)	85	28	65	65
Initial/re-start time	Instant	8~10min	8~10min	3~4min
Set weight	1kg	6kg	6kg	6kg
Heated temperature	100 C	300~400 C	300~400 C	300~400 C
Lumen depreciation	Slow	Medium	Fast	Fast
Average rated life hours	100,000	24,000	10,000	10,000
Mercury content/watt	5 mg	30 mg	30 mg	30 mg



Description	Order Code	Watts (W)	Input Voltage (V)	Average Rated Life (Hrs)	Lumens (Lm)	Color Temp Kelvin (K)	CRI
ADGEco 40W	10140	40	120 - 277	100,000	2,800	5000	>85
ADGEco 70W	10170	70	120 - 277	100,000	5,250	5000	>85
ADGEco 100W	101100	100	120 - 277	100,000	7,500	5000	>85
ADGEco 150W	101150	150	120 - 277	100,000	11,250	5000	>85
ADGEco 200W	101200	200	120 - 277	100,000	15,000	5000	>85
ADGEco 250W	101250	250	120 - 277	100,000	18,750	5000	>85

Description	Luminous Flux (Lm)	Luminous Efficacy (Lm/W) (Calculated Value)	Luminous Efficacy (Lm/W) (Tested Value)	Operating Temp	MOL (in) Lamp Height [mm]	MOL (in) Heat Sink Height [mm]
ADGEco 40W	2,400	<70	63~64	Less than 60°C	152	min 15
ADGEco 70W	4,900	<75	70~72	Less than 60°C	180	min 15
ADGEco 100W	7,500	<75	72~74	Less than 60°C	207	min 20
ADGEco 150W	10,500	<75	72~74	Less than 60°C	230	min 30
ADGEco 200W	14,000	<80		Less than 60°C	330	min 40
ADGEco 250W	17,500	<80		Less than 60°C	330	TBD

	40W	70W	100W	150W	200W
A	58.0	58.0	58.0	67.0	120.0
B	45.5	45.5	45.5	55.0	75.0
C	52.0	52.0	52.0	62.0	95.0
D	100.0±2.0	128±2.0	155.0±2.0	168±2.0	235.0±2.0
E	152.0±2.0	180.0±2.0	207.0±2.0	230±2.0	330.0±2.0
F	85.0	110.0	130.0	140.0	180.0
G	20	20	25	30	N/A
H	108	108	108	108	108
I	113	113	141	192	192
J	99	99	127	175	175
K	45	54	54	54	58



# THIS STREET LAYOUT ILLUSTRATES THAT THE LINDY™ PROVIDES NEARLY TWICE AS MUCH LIGHT AS A BLOW MOLDED ACORN

## STREET LAYOUT DETAILS

This street features a road width of 75 feet, 10-foot sidewalks, 20-foot building facades and a 70-foot spacing. Fifteen foot poles have been used with a 1 1/4 foot spacing between poles. The lamp used in The Lindy and in the acorn are 170W metal halide with a 3'00 light foot beam. The Lindy beam used both 80 Type II and Type V components and the acorn beam used Type I.

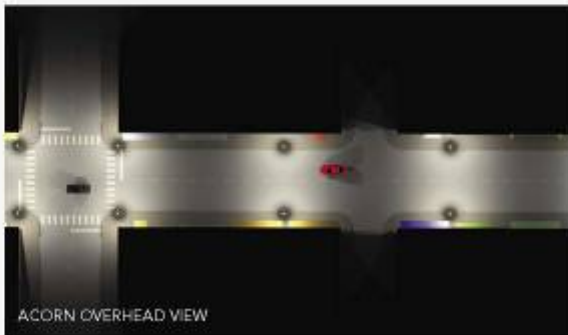
### ACORN STREET

YOU CAN SEE THAT TYPICAL BLOW MOLDED ACORNS:

- WASTE LIGHT BY ILLUMINATING IN ALL DIRECTIONS. WASTED UPLIGHT PUTS TOO MUCH LIGHT ON BUILDING FACADES
- THE LACK OF UNIFORMITY AND POOR DISTRIBUTION IS SHOWN BY DARK SPOTS ON SIDEWALK, STREET AND UNDER POLES
- WASTE ENERGY - HIGHER WATTAGE LAMPS ARE NEEDED OR MORE POLES ARE NEEDED
- MATERIALS - YELLOW WITH AGE REQUIRING MORE FREQUENT MAINTENANCE



ACORN PEDESTRIAN VIEW



ACORN OVERHEAD VIEW

### LIGHT LEVELS (Measured in Footcandles)

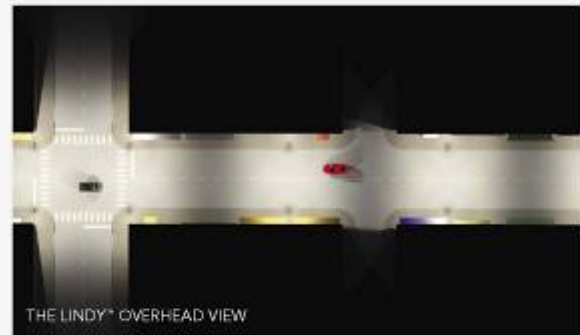
AVERAGE 0.87  
MINIMUM 0.30  
MAXIMUM 1.76

### SO, HOW MANY ACORNS WOULD IT TAKE TO MATCH THE LINDY?

Just out of curiosity, we created another streetscape with acorns and tried to match the performance of **The Lindy**. Our layout program calculated it would take 22 poles with acorns to match the 12 poles with **The Lindy**. (Give us a call, we'll be happy to share a copy with you.) So again, with acorns you could be spending nearly twice as much money on electricity, poles and components as you need.



THE LINDY™ PEDESTRIAN VIEW



THE LINDY™ OVERHEAD VIEW

### THE LINDY STREET

YOU CAN SEE THAT THE LINDY PROVIDES:

- MORE EFFICIENT LIGHT DISTRIBUTION AND UNIFORMITY TO ILLUMINATE SIDEWALKS AND STREETS
- REDUCED LIGHT WITH DARK SKY FRIENDLY LITELIDS
- MORE EFFICIENT ENERGY USAGE - LOWER WATTAGE LAMPS CAN BE USED
- YEARS OF SUPERIOR PERFORMANCE AND APPEARANCE

### LIGHT LEVELS (Measured in Footcandles)

AVERAGE 1.76  
MINIMUM 0.60  
MAXIMUM 3.16