

## Pre-Release Product Notification ASTRO

The Brilliant Entry Level Street Light



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This document contains pre-release information on an entry-level street lighting product that will serve the highly reliable, no frills competitive market. The ASTRO series is likely to gradually replace the lower Galaxy models with its more efficient cost structure and better performance.

The broad characteristics of the ASTRO series street lights are:

- 1. The ASTRO will available in three configurations:
  - a. AST18 18 Rebel ES LED
  - b. AST24 24 Rebel ES LED
  - c. AST36 36 Rebel ES LED
- 2. All will be equipped with ambient sensors that will be factory pre-set to turn the lights on/off and provide two levels of dimming at 40% and 70% based on the ambient light levels. The dimming levels are fixed and not changeable.
- 3. The sensors can be disabled upon order
- 4. The maximum tilt on the light will be 45 degrees.
- 5. The product will be launched initially using a 700MAmp drive current and Philips Lumileds REBEL ES V-Bin chips that will produce around 200 lumens per LED for a total:
  - a. AST18 3600 Lm
  - b. ASY24 4800 Lm
  - c. AST36 7200 Lm



- 6. Over the following months, Philips Lumileds will introduce an enhanced LED die that will raise performance to around 220 lumens per LED totaling:
  - a. AST18 4000 Lm
  - b. AST24 5280 Lm
  - c. AST36 7920 Lm
- 7. ASTRO LEDs will be available in cool white (6K) and neutral white (4K) color temperature.
- 8. Preliminary data sheet follows:



Parameter	Value			Compliance		
Electrical Parameters						
Input Voltage	90VAC - 277VA (Phase-Neutral,					
Frequency Range	50/60Hz >0.9 <10%			aETI Contified Driver		
Power Factor(PF)						
Total Harmonic Distortion (THD)				cETL Certified - Driver cETL Certified – Luminary RoHS Compliant		
Driver Efficiency	>0.85 +/- 3%			TOTIS Compliant		
LED Forward Voltage	2.87 Vdc/Led +/	- 5%				
LED Forward current	700 mAmps +/-	5%				
System Wattage	2.45 W/Led +/- 1	10%		]		
Optical						
Light source	Philips Lumiled,	Rebel ES (V-Bin)				
L70 Hours	60,000 hours					
Initial Lumens (LED Chip)	210 Im/Led @ 700mA @ 25degC +/- 5%  > 75  > 72 Im/W +/- 5%  60deg (Medium angle) or 120deg (Wide Angle)			LM-80 (LED Source) LM-79 (Luminary)		
CRI						
Light Efficacy						
Beam angle						
Smart Feature						
Operation	Manual / Auto ON OFF (Factory Set)					
Dimming	3 stage ambient based dimming (Factory Programmed 40%, 70%, 100%)					
Environmental						
Operating temperature	-25°C to +40°C					
Operating humidity	10% to 90% (Suitable for Wet Location)		n)	ETL (UL1598)		
Storage temperature	10°C to 55°C			<u> </u>		
Mechanical						
Dimensions	34.68" (L) x 7.08" (H) x 11.02" (W)			RoHS Compliant		
Weight	Approx 10kg (20 lbs)					
Casing material	AL alloy & PC					
Available Models						
No of LED		18		24	36	
System Wattage (in Watts) +/- 10% 46				60	90	











