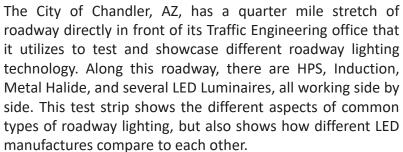
## **Case Study:**

# City of Chandler -Luminaire Test Site

#### **Roadway Lighting**







PLG Fixture Installed: SBX Series Retrofit



Part No. PLG-SBX-02-II-50-60



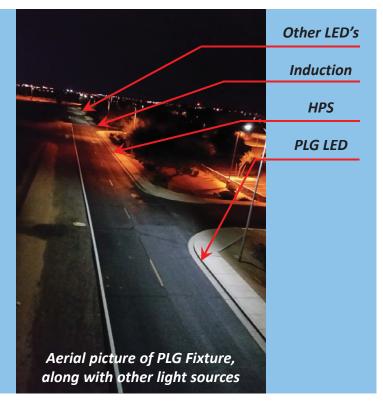
Aerial Picture of PLG 56W Fixture, along with 2 different LED Competitors fixtures

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# **Specifications:**

	Chandler Spec	PLG Rating
Warranty	5 Year	5 Year
Construction	Corrosion-Resistant	Aluminum
	Aluminum	5250 Alloy
<b>BUG Rating</b>	B2-U0-B2	B1-U0-B1
Minimum Lumens	4,500	5,286
<b>Maximum Watts</b>	70	56
Serviceability	Replaceable	Replaceable
	Modules	Modules
Cooling	Passive Heatsink	Aluminum
Ambient Temp.	-10 to +50 C	-30 to 50 C
CCT	4,000 to 5,000 K	5,000 K
L-70	> 90,000 Hours	> 100,000 Hours
Power Factor	>.90	> .90
THD	< 20%	< 20%
LM-80, LM-79	Available	Available
Environment	> IP-65	IP-66
Input Voltage	120V to 277V	120V to 277V



When viewed side by side, PLG's light performance far exceeds other competitors on the test strip. While all of the local LED's have essentially the same power consumption (54 to 56 Watt), the PLG light fixture has more illumination, better color rendering, and uniform distribution. Below are some of the light readings taken from the test strip:

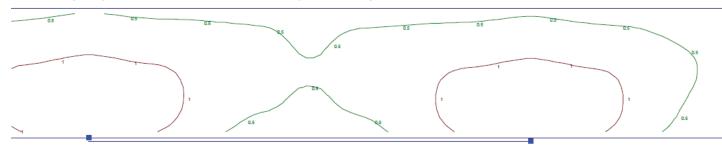
PLG LED A LED B
Illumination 30', 0° .69 FC .3 FC .89 FC
Illumination 40', 90° .43 FC .32 FC .36 FC

"PLG's fixture was visually brighter than other fixtures of similar wattage. It had a superior light distribution, with a wider coverage area."

- Hector Peralta,Traffic Signal &Streetlight Supervisor

### **Typical Residential Street:**

Road Width:	35'	City of Chandler Standard	Chandler Spec	PLG Performance
Pole Spacing:	130'	Min Average Foot-candles	.7	.8
Mounting Height:	30'	Uniformity Ration (Avg-to-Min)	6:1	4:1



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