



2019 FACILITIES FORUM



Pasterfield Community Centre – 9th November 2019

A new era in illumination



Sports Lighting Types



Asymmetrical LED Floodlight



Standard LED Floodlight



HPS Floodlight

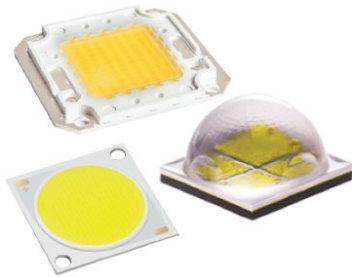


MH Floodlight



Lighting Performance

- 1000w Metal Halide light has an AVG life of **6000-15000** hours
- 1000w LED has an AVG life of **50,000** hours
- Metal Halide can depreciate up to 20% in the first year

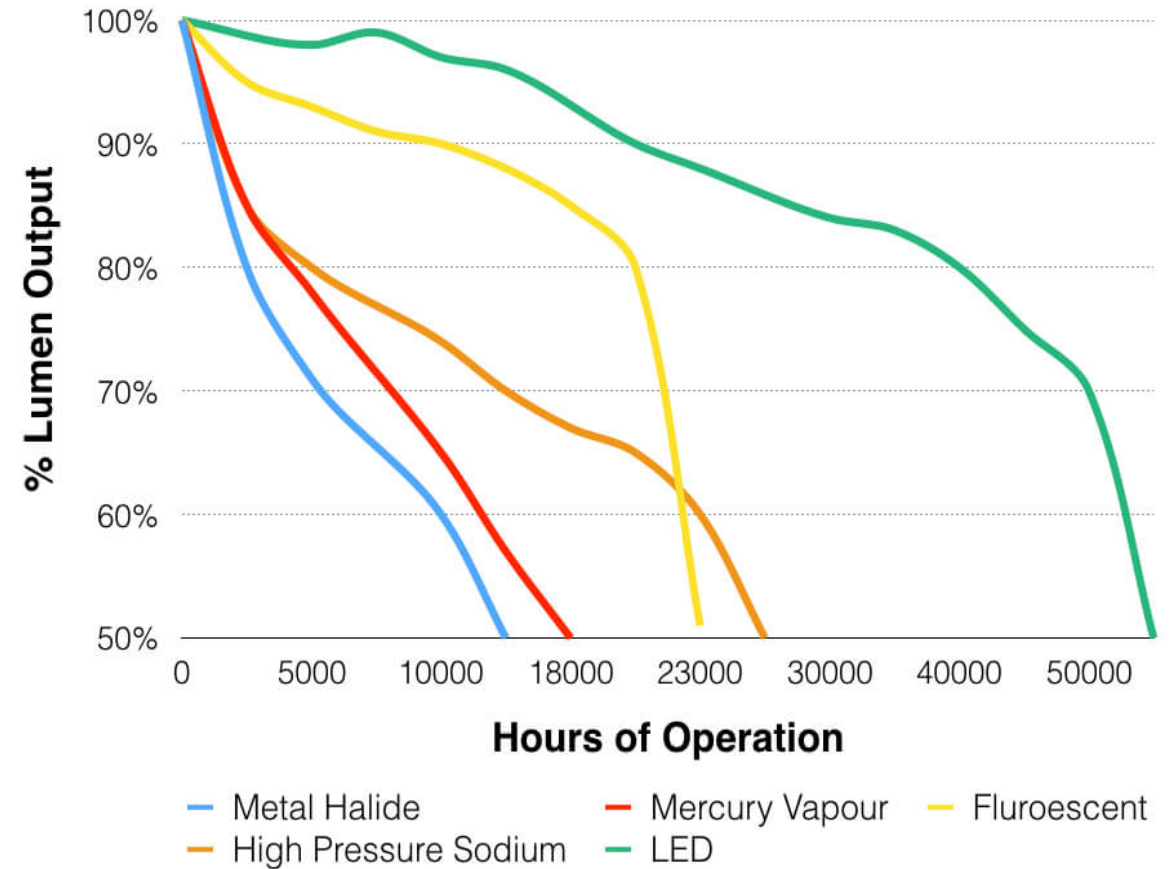


LED



Metal Halide

Estimated lumen depreciation over time





LED Life Test

- 4 hours a day | 7 days a week | 52 weeks a year

4hrs/day	1 year	5 years	10 years	15 years	20 years	25 years
Hours	1460 hrs	7300 hrs	14600 hrs	21900 hrs	29200 hrs	36500 hrs
Total days	60.83 days	304.17 days	608.33 days	912.50 days	1216.67 days	1520.83 days
% of original output	97%	95%	92%	88%	85%	79%



Lighting



Asymmetrical LED Floodlight



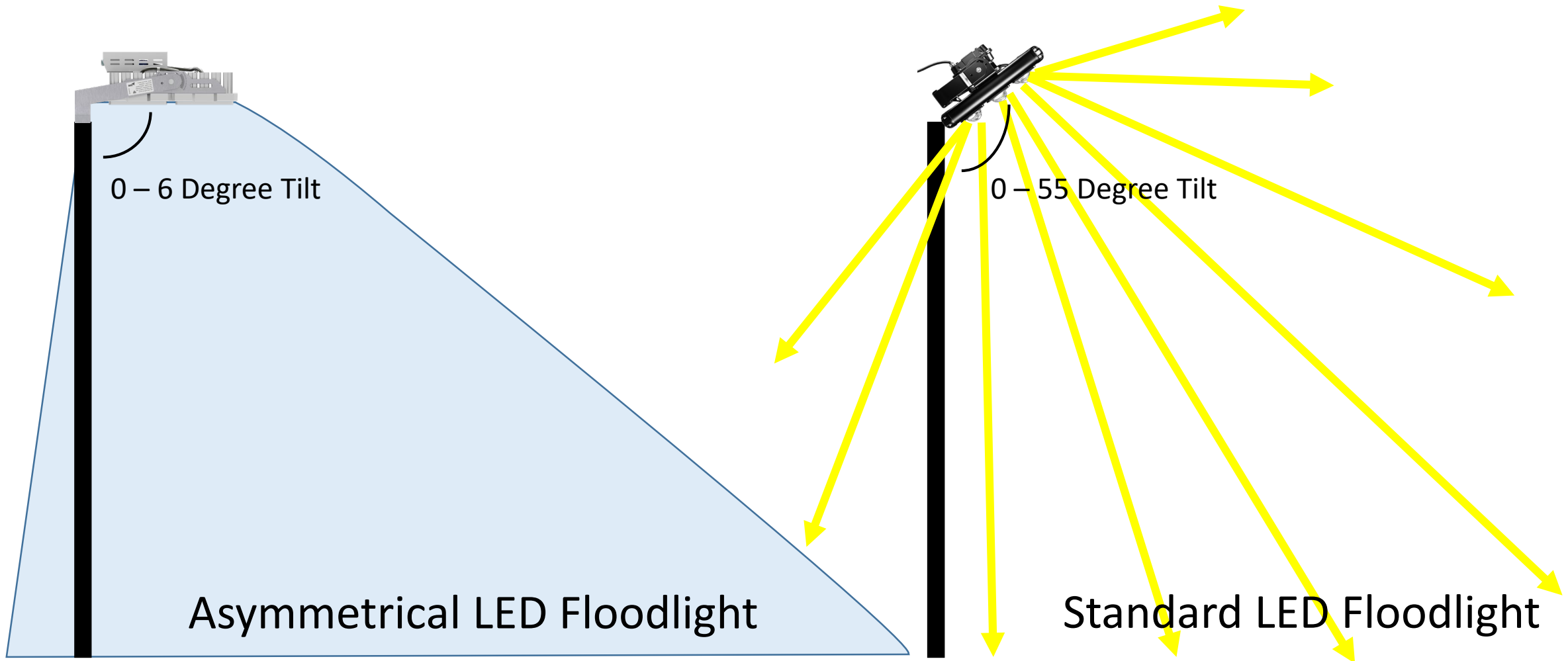
Standard LED Floodlight



Shielded Standard LED Floodlight



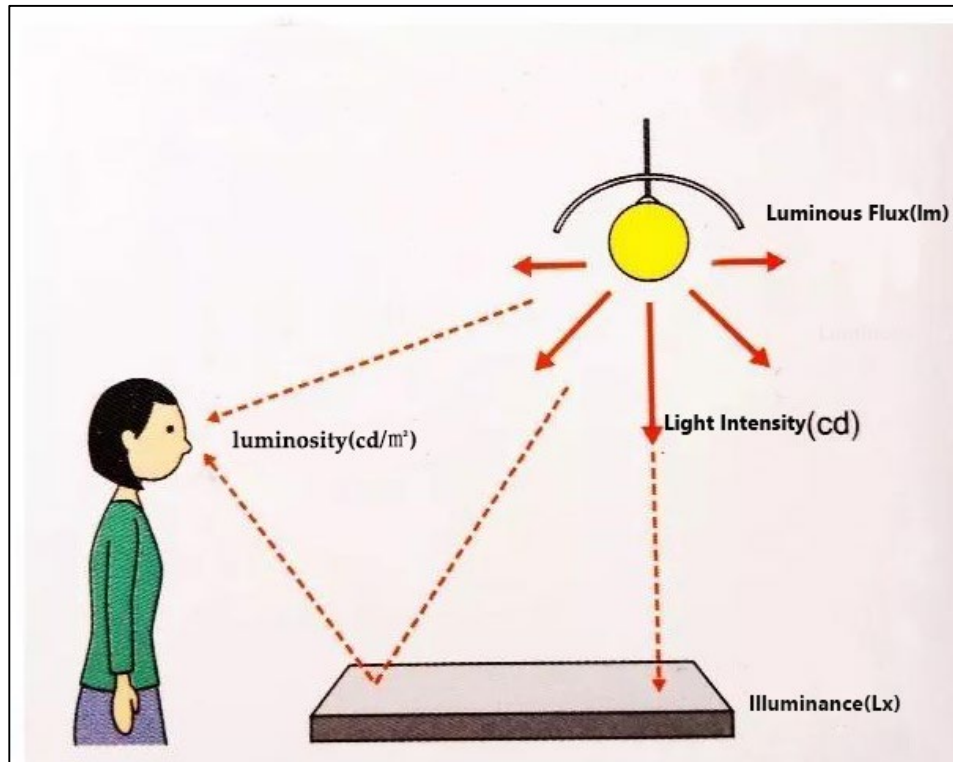
Light Distribution Comparison



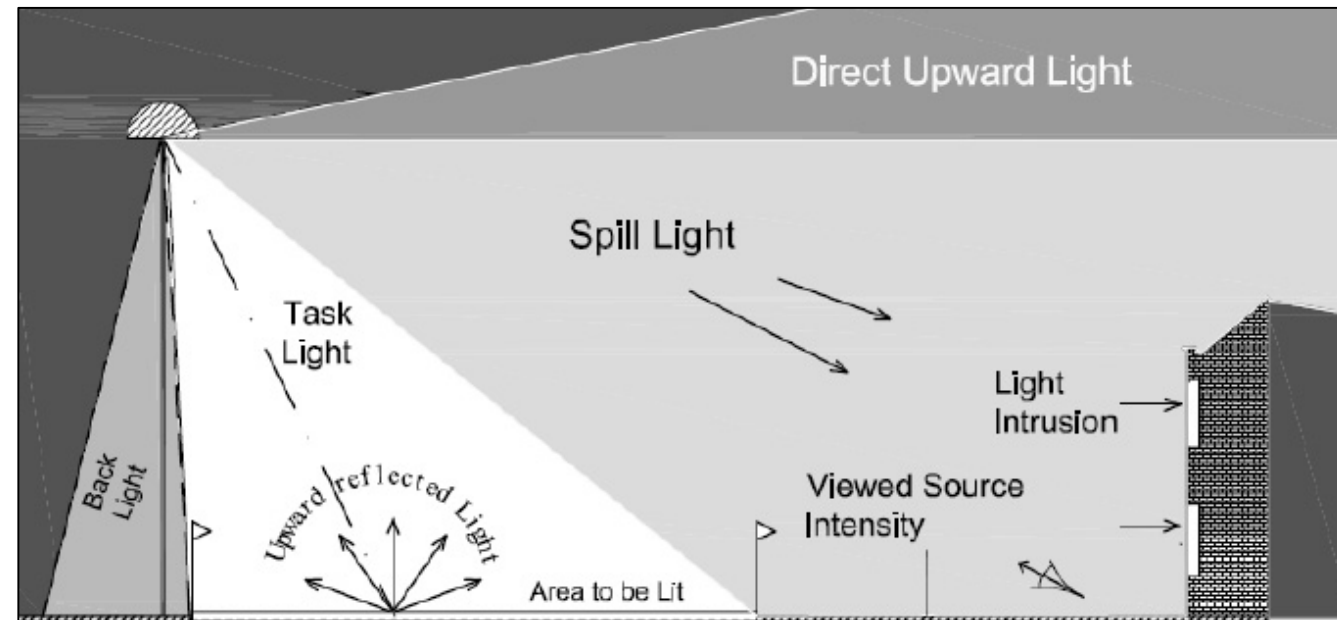


Luminous Intensity & Light Spill

Luminous Intensity



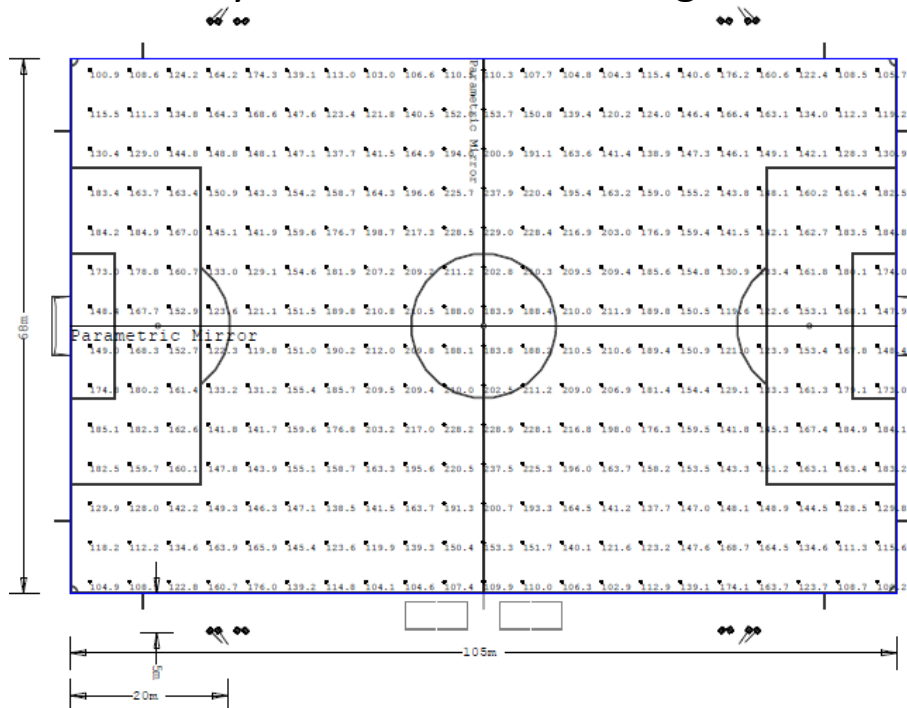
Light Spill





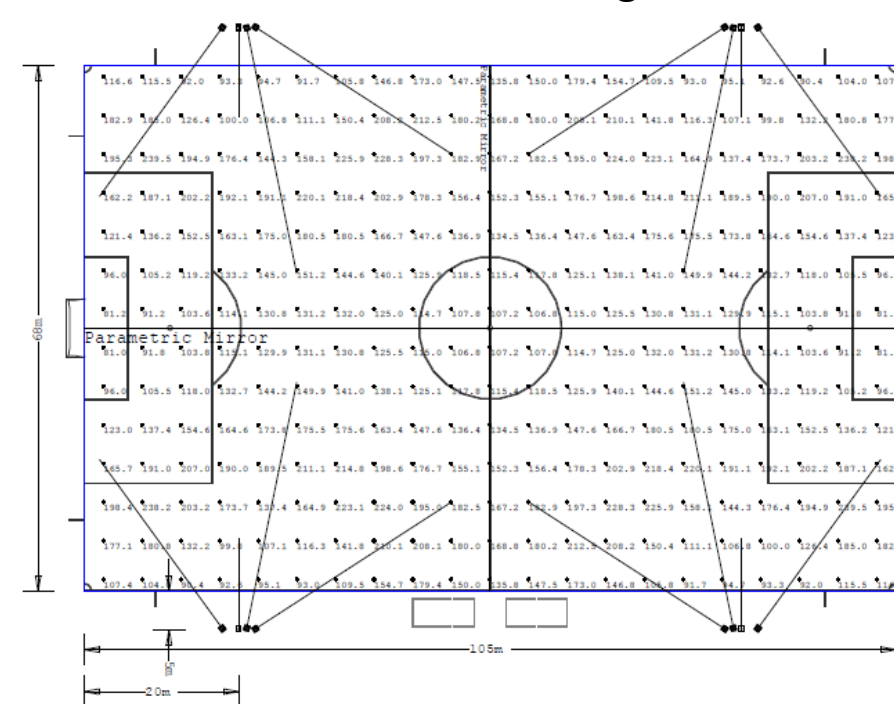
Football Field 100 Lux, 0.5 Uniformity Light Design Comparison

Asymmetrical LED Floodlight



- ✈ 16 x IWE-P4Z-1280w Eclipse LED Fittings
- ✈ 158 Avg Lux
- ✈ .63 Uniformity
- ✈ 3 lux Max Light Spill
- ✈ 10189 CD Luminous Intensity

Standard LED Floodlight



- ✈ 16 x IWE-PL20F-1200 LED Fittings
 - ✈ 196 Avg Lux
 - ✈ .54 Uniformity
 - ✈ 12.2 lux Max Light Spill
 - ✈ 41370 CD Luminous Intensity
- A new era in illumination

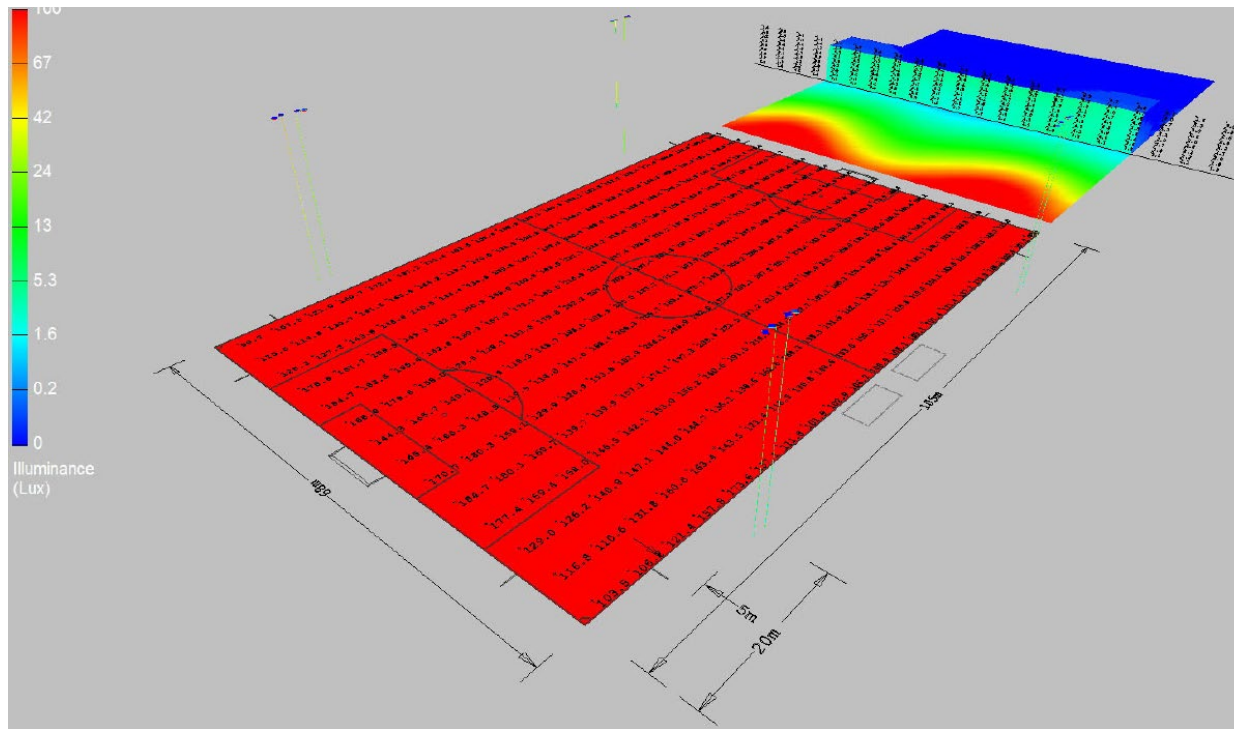
Football Field 100 Lux, 0.5 Uniformity Light Spill Comparison



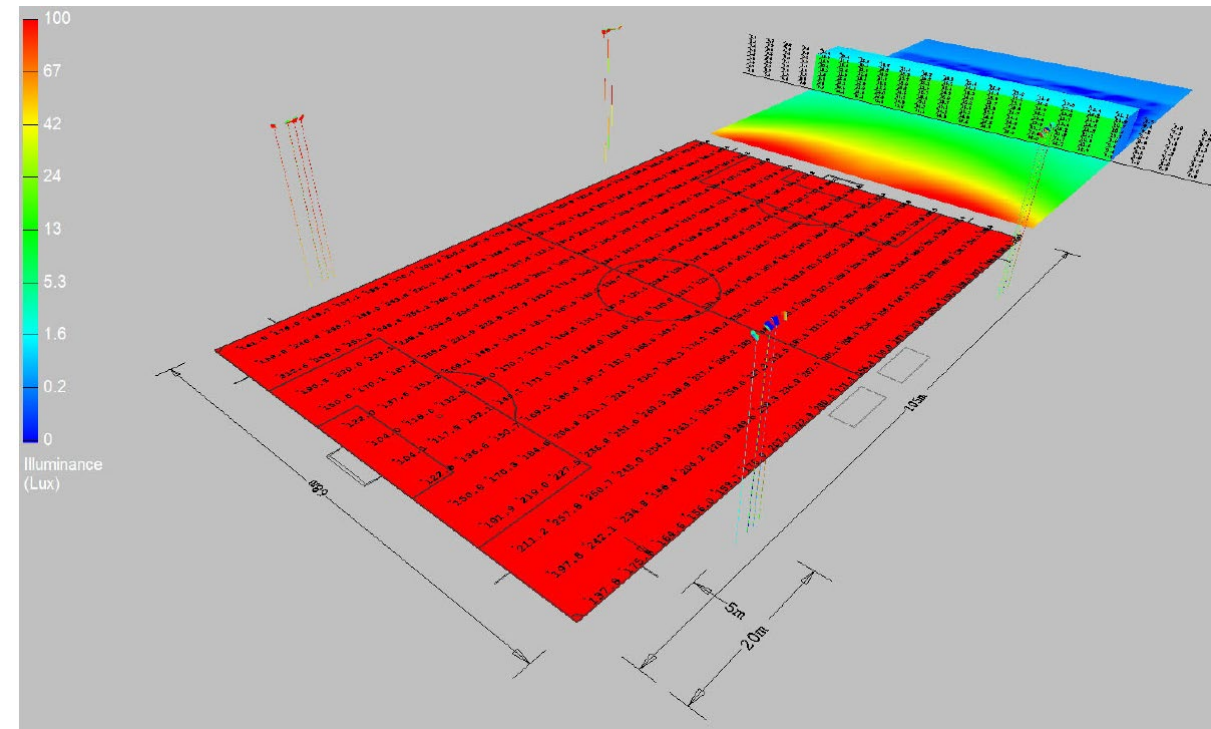
Asymmetrical LED Floodlight



Standard LED Floodlight



- ✈ 16 x IWE-P4Z-1280w Eclipse LED Fittings
- ✈ 158 Avg Lux
- ✈ 3 Lux Maximum Light Spill

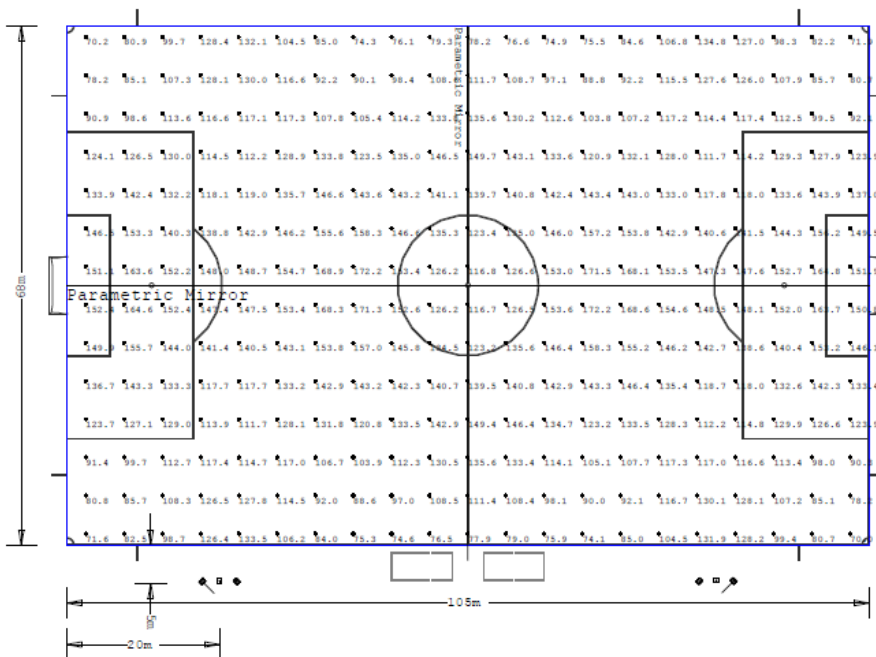


- ✈ 16 x IWE-PL20F-1200 LED Fittings
- ✈ 196 Avg Lux
- ✈ 12.2 lux Maximum Light Spill A new era in illumination



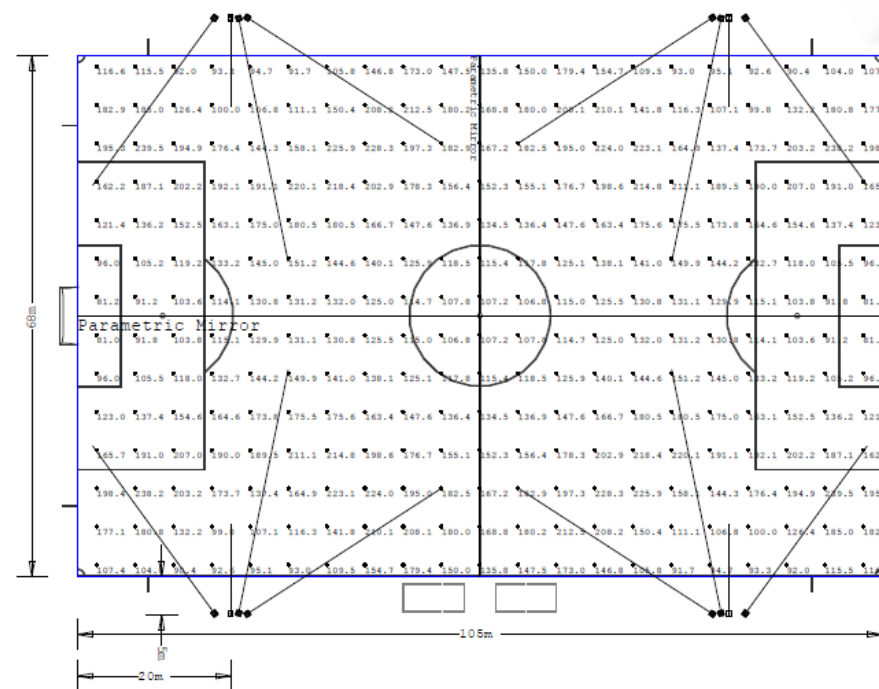
Football Field 100 Lux, 0.5 Uniformity Light Design Comparison

Asymmetrical LED Floodlight



- ✈ 12 x IWE-P4Z-1280w Eclipse LED Fittings
- ✈ 124 Avg Lux
- ✈ .56 Uniformity
- ✈ 2.6 lux Max Light Spill
- ✈ 10189 CD Luminous Intensity

Standard **Shielded** LED Floodlight

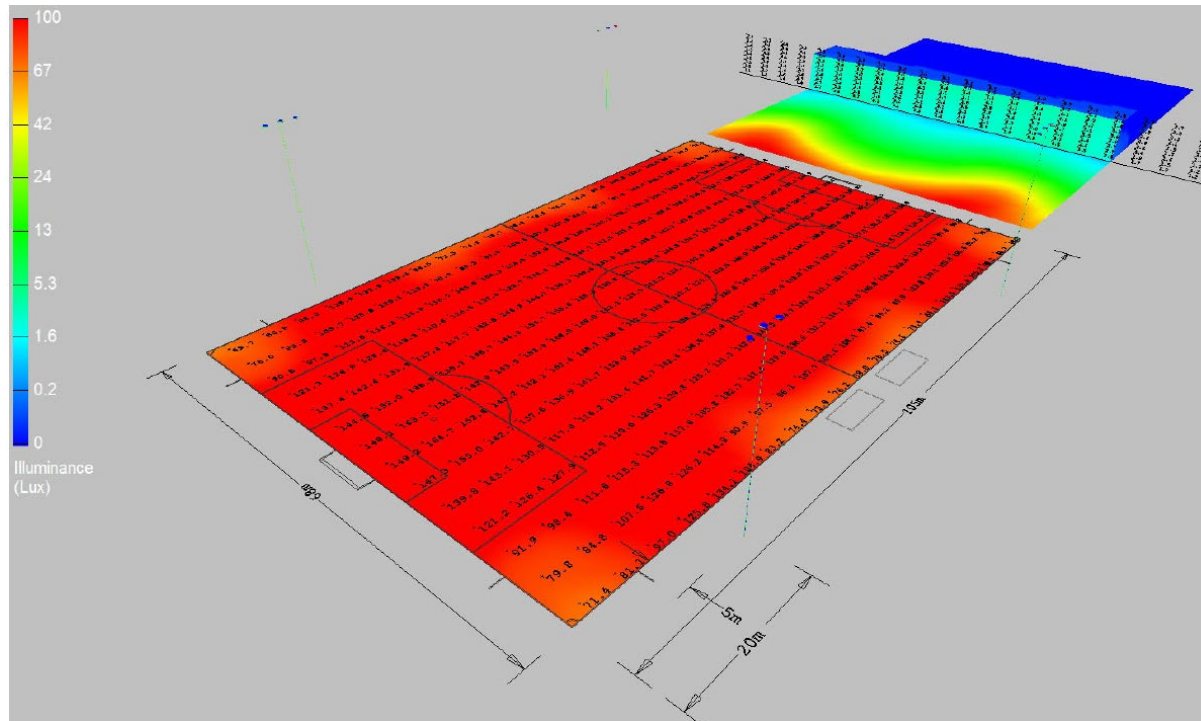


- ✈ 16 x Shielded IWE-PL20F-1200 LED Fittings
 - ✈ 150 Avg Lux
 - ✈ .54 Uniformity
 - ✈ 9.8 lux Max Light Spill
 - ✈ 30417 CD Luminous Intensity
- A new era in illumination

Football Field 100 Lux, 0.5 Uniformity Light Spill Comparison



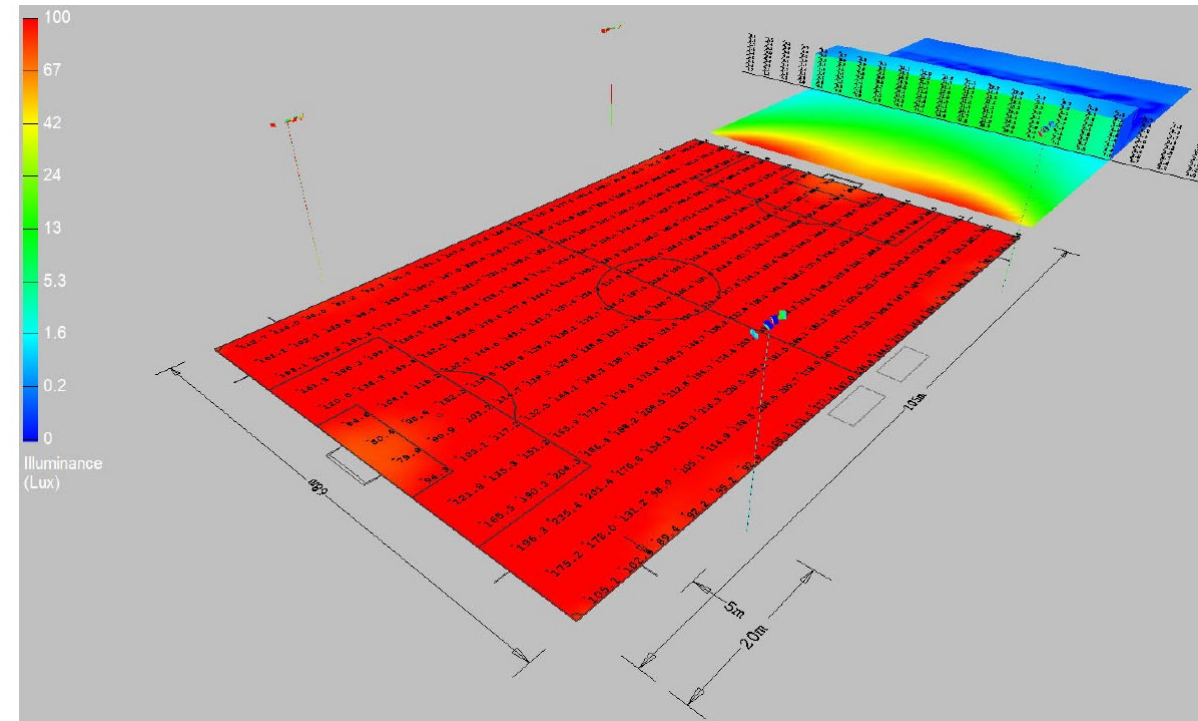
Asymmetrical LED Floodlight



- ✈ 12 x IWE-P4Z-1280w Eclipse LED Fittings
- ✈ 124 Avg Lux
- ✈ 2.6 Lux Maximum Light Spill



Standard Shielded LED Floodlight

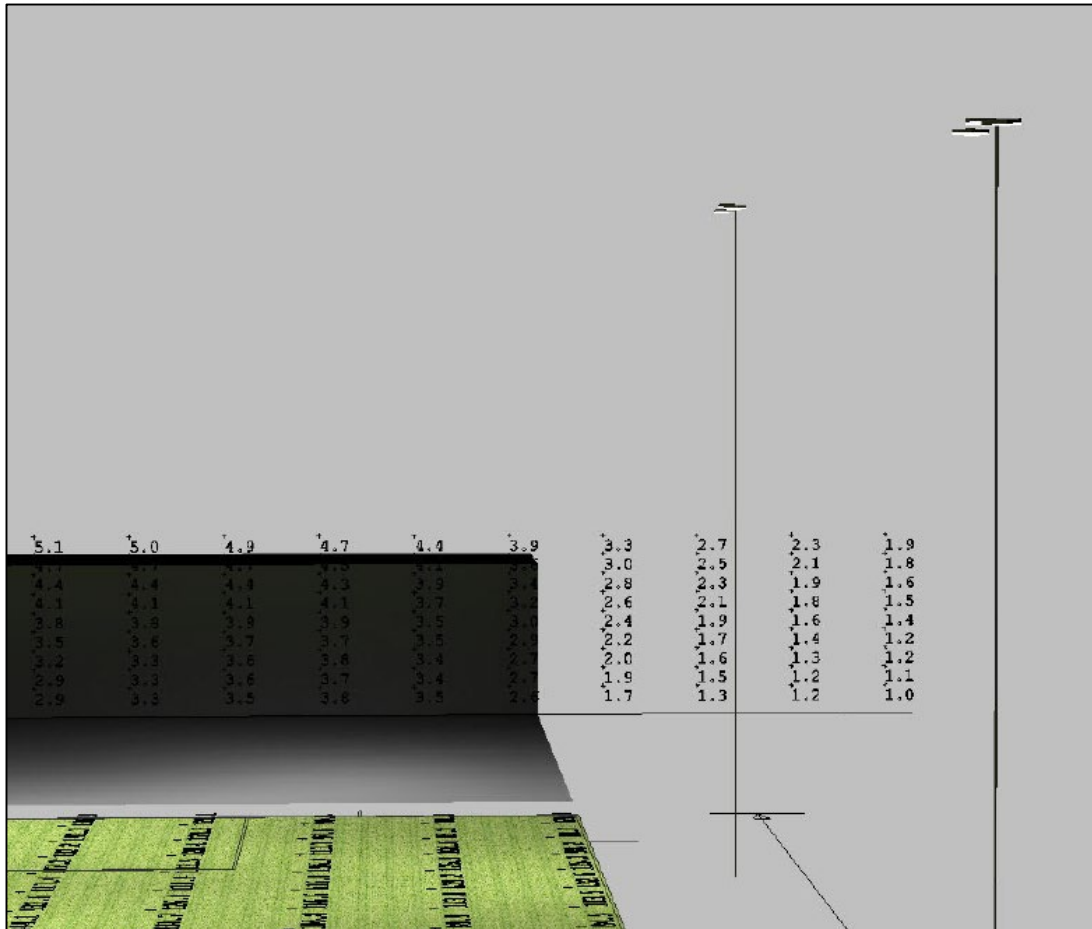


- ✈ 16 x Shielded IWE-PL20F-1200 LED Fittings
 - ✈ 150 Avg Lux
 - ✈ 9.8 lux Maximum Light Spill
- A new era in illumination

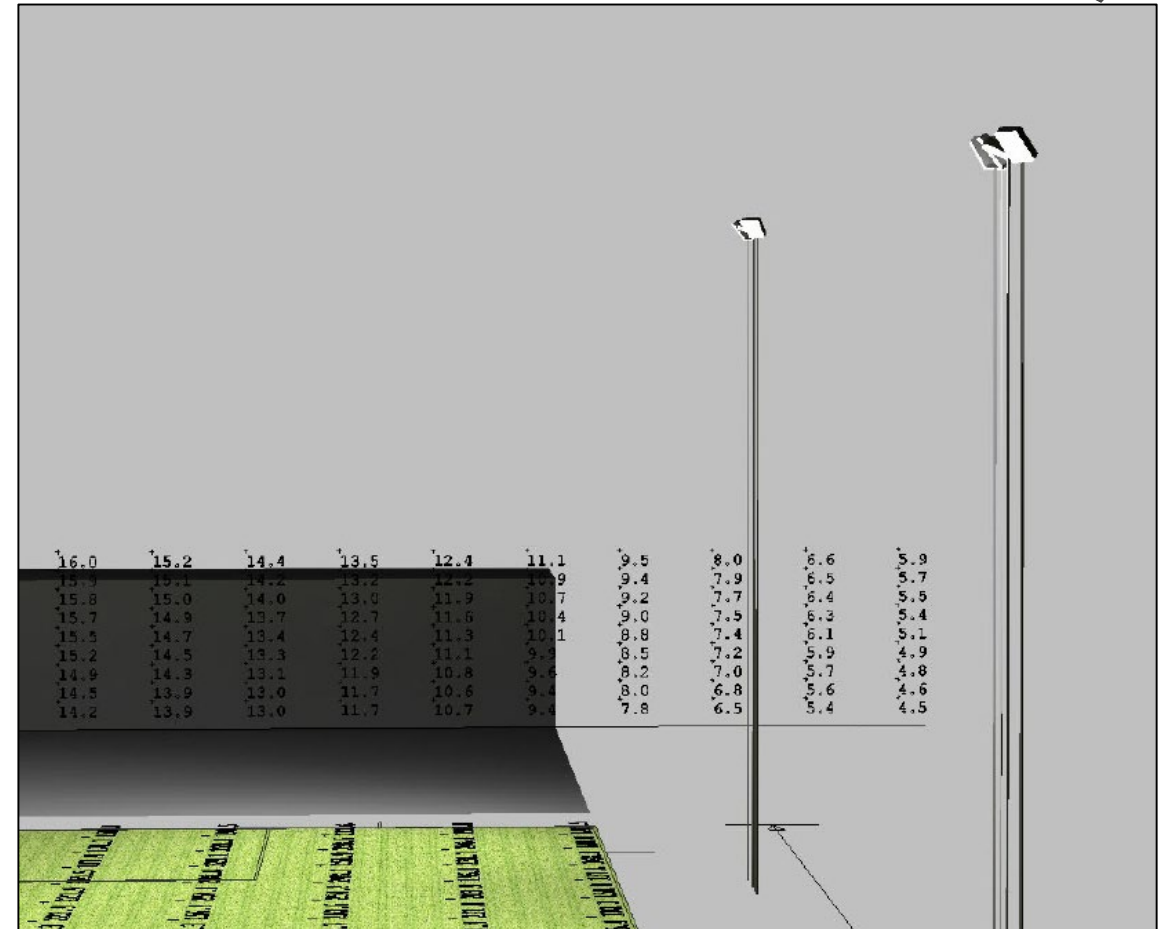
Light Tilt and Spill Comparison



Asymmetrical LED Floodlight



Standard LED Floodlight





Asymmetrical Vs Standard LED Floodlight

Asymmetrical LED Floodlight



- ✧ Low wind sail area
- ✧ Remote mount drivers
- ✧ Less weight
- ✧ Better control of Luminous Intensity and Light Spill
- ✧ Direct light for better lux and uniformity

Standard LED Floodlight



- ✧ Less expensive LED fitting
- ✧ Integral drivers
- ✧ More flexible in pole configurations and heights
- ✧ Quicker install



Thank You



A new era in illumination