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# **APPENDIX D**

## LIGHTING PERFORMANCE SUMMARY RESULTS

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# IDA Community Friendly Outdoor Sports Lighting

## Lighting Performance Summary

**Project:** Carmel High School Football  
**Location:** Carmel, CA  
**Curfew:** 10:30pm  
**Submitted:** 27 October 21 - 10:36 AM PDT

**Field: Football**  
 Field type: Football - Class IV  
 Environmental Zone: E2

### Applicable Lighting Standard

	Standard	Measured	Result
Meets IES or HS Standard	—	Yes	PASS

### Applied BUG Analysis

	Standard	Measured	Result
Total Fixture Lumens	—	5,446,744 lumens	—
Backlight: Lumens	15% or less	1.95%	PASS
Backlight: Spill	2.0 lux or less	0.17 lux	PASS
Uplight: Lumens	8% or less	7.7%	PASS
Glare: Max Candela	1000 candela or less	789 candela	PASS
Glare: 80° - 90°	250 lumens	0 lumens	PASS

### Application Efficiency

	Standard	Measured	Result
Total Fixture Watts	—	46,160 watts	—
Applied Lumens	—	4,776,326 lumens	—
Application Efficiency	70+ (lumens per watt)	103	PASS

## Lighting Performance Result

**PASS**



# IDA Community Friendly Outdoor Sports Lighting

## Lighting Performance Summary

**Project:** Carmel Pool Retrofit  
**Location:** Carmel,CA  
**Curfew:** 10:30pm  
**Submitted:** 15 July 22 - 3:10 PM PDT

**Field: Pool**  
Field type: Unknown - Class IV  
Environmental Zone: E2

### Applicable Lighting Standard

	Standard	Measured	Result
Meets IES or HS Standard	—	Yes	PASS

### Applied BUG Analysis

	Standard	Measured	Result
Total Fixture Lumens	—	962,008 lumens	—
Backlight: Lumens	15% or less	0%	PASS
Backlight: Spill	2.0 lux or less	0 lux	PASS
Uplight: Lumens	8% or less	0%	PASS
Glare: Max Candela	1000 candela or less	22 candela	PASS
Glare: 80° - 90°	250 lumens	0 lumens	PASS

## Lighting Performance Result

# PASS