



## IRVINE UNIFIED SCHOOL DISTRICT

100 Nightmist  
Irvine, CA 92618

### ADDENDUM NO. 2

**Project:** RFQ/RFP No. 16/17-01MO, Clean Energy Jobs Act Proposition 39  
Lighting Retrofit Services at Nine District Sites

**Date:** February 16, 2017

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#### To any and all concerned parties:

This addendum adds to or modifies the contract documents for the above project. This addendum shall supersede all previously issued specifications, addenda and any other written or verbal direction. The modifications within this addendum shall be made part of the contract documents and shall be subject to all applicable requirements thereto:

#### CHANGES TO THE BID:

##### Item No. 1.1

Specification Reference: Attachment C Detailed Lighting Audit  
Description: Project material changes that affects two (2) school sites

#### ALTERATIONS:

##### *Materials:*

1. Scope changes at Canyon View Elementary School. This addendum makes alterations to Attachment C - Detailed Lighting Audit. Line item 14 at the Canyon View Exterior has been added to the scope of work. The District would like to include the twelve (12) 250W metal halide shoebox fixtures in the scope of work. In your bid pricing, please include material and labor for the new solutions. Please use the 'Detailed Lighting Audit Amended' found on the district website as your source of site information for bidding.
2. Scope change at University High School Exterior Pool Lights. This addendum makes alterations to Attachment C - Detailed Lighting Audit. Line item 14 has been amended on the scope of work. The District would like to remove the 100W Flood light solution. The proposed solution the District has selected is a 445W LED Floodlight replacing 1000W metal halide fixtures, approved part number is TLED-XPF-440-50K-15. Please submit substitutions to Angel Ayala at [aayala@ccorpusa.com](mailto:aayala@ccorpusa.com) for District approval. The spec sheet for the approved solution is included in this addendum. Please use the attached Detailed Lighting Audit Amended as your source of site information for bidding.

**Item No. 1.2**

Specification Reference: Estimated project savings and estimated project costs  
Description: Project material changes that affects two (2) school sites

**ESTIMATED PROJECT COST**

1. The Irvine Unified School District will provide funding for this project through Proposition 39, the California Clean Energy Jobs Act. The estimated cost for this project is \$1.92M.
2. Projected Energy Savings for the project is 1,060,987.75 kWh per year.

**ATTACHMENTS:**

1. **ATTACHMENT C DETAILED LIGHTING AUDIT AMENDED**
2. **TRACE LITE LED FLOODLIGHT SPEC SHEET - TLED-XPf-440-50K-15**

END OF DOCUMENT

**DESCRIPTION**

TRACE\*LITE's TLED-XPF Extreme Performance series floodlight combines the significant energy savings of solid state (SSL) LED lighting and the precise beam control needed for high performance lighting applications. Equipped with 0-10V dimming drivers for optimized control and savings, the elegant and aerodynamic low profile aluminum housing incorporates a unique, efficient heat sink that provides excellent thermal management required by the high wattage LED light engine. Precision optical lenses combined with a high performance, high wattage LED light engines provide a leading edge, energy saving alternative to traditional HID floodlights. The TLED-XPF series has been engineered to provide an LED luminaire that delivers concise and consistent optical performance, significant energy savings and over a tenfold increase in longevity over traditional MH lamps, all in an attractive and durable housing. Applications include area and site lighting, or floodlighting in any area where a durable, reliable fixture is demanded, including natatorium.

**SPECIFICATIONS**

**Construction:**

The TLED-XPF series has a precision designed aluminum housing with integrated thermal management, integrally mounted drivers and stainless steel hardware which facilitates optimum performance and durability of the LED light engine. The low profile of the luminaire provides flexibility for mounting and targeting at the application site, which adds to the savings already created by the reduced power consumption. The TLED-XPF is completely sealed and gasketed, ideal for wet locations, and is driven by IP65 rated, switching mode, dimmable drivers. The LED light engine and optic lenses are protected by a sturdy aluminum frame with clear tempered glass lenses that are secured with stainless steel hardware. The TLED-XPF also incorporates a UV resistant, long lasting, polyester based powder coated finish.

**Optics:**

The TLED-XPF series delivers exceptional light quality, with 5000K or 5700K CCT, a CRI of ≥70 and a projected color shift of less than 1%. The TLED-XPF LED light engine and optical lens combinations are specifically designed to distribute light in both the vertical and horizontal angles with a very specific beam pattern. Tight control of the light distribution not only puts light where it is needed in the most efficient way possible, but it also eliminates the need for glare visors and spill control reflectors. Optical options include lenses with either 15°, 30°, 60°, 90° or 135° beam angles to customize performance for the application.

**Electrical:**

A choice of performance levels is available in the TLED-XPF series. Available performance packages include 220W (100 LEDs), 440W (200 LEDs) and 600W (300 LEDs) units delivering up to 91 lumens per watt depending on optics selections. Utilizing Luxeon Rebel ES modules, the 600 watt unit generates as high as 53,887 initial delivered lumens utilizing a tight 15° beam focus. See chart on page 2 for additional performance examples. The TLED-XPF LED light engine wattages are powered by industry leading Meanwell IP65 rated enclosed constant current control dimmable drivers. LED modules provide a 50,000 hour rated life with 70% lumen maintenance, a 5000K or 5700K CCT, and a CRI of ≥70 (Tj 135C). All drivers are Class 2 switching power supplies with voltage sensing input (90~305VAC), 50/60Hz, a Class B EMI rating and a high power factor of ≥0.95. The TLED-XPF is suitable for operation in -40°F to 104°F (-40°C to 40°C) ambient conditions. Derating can be provided for alternative operating temperature ranges.

**Thermal Management:**

LED light engines and drivers are securely mounted directly to the die-cast aluminum housing which has an integrated, finned heatsink, optimizing thermal management. LEDLITE<sup>logic</sup> heat sinking technology moves heat away from the LEDs, maximizing system performance and delivering 50,000+ hour life with >70% lumen maintenance.

**Environmentally Friendly Design:**

TLED-XPF luminaires consume very little energy and provide long life in comparison to traditional lamp technologies. The TLED-XPF is RoHS compliant and provides a significant reduction in KW load and carbon emissions.

**Installation:**

The TLED-XPF series features a heavy duty mounting yoke with angle indicators standard to allow for easy installation and aiming. A high quality slipfitter is also available. Drivers are mounted within a wet location enclosure compartment integral to the fixture.

**Corrosion Resistant Option (CR):**

Unit will be supplied with corrosion resistant paint, stainless steel hardware and LED boards & gaskets are treated with a chlorine inhibitor. Suitable for natatorium applications.

Model: \_\_\_\_\_ Date: \_\_\_\_\_  
 Accessories: \_\_\_\_\_  
 Job Name: \_\_\_\_\_ Type: \_\_\_\_\_



Show with optional Heavy Duty Slipfitter (SF)



Specs at a Glance			
<b>Wattage (Nominal)</b>	220W	440W	600W
<b>Ingress Protection</b>	Suitable for Wet Locations		
<b>Lumens (5000K)</b>	20217	39205	53887
<b>Efficacy (5000K)</b>	91	88	88
<b>CCT</b>	5000K or 5700K		
<b>Input Voltage</b>	120~277 Voltage Sensing		
<b>Optics</b>	15°, 30°, 60°, 90°, 135° Beam Angles		
<b>CRI</b>	≥70		
<b>Warranty</b>	5 Years		
<b>Ambient Temp</b>	-40°F to 104°F (-40°C to 40°C)		

**Testing & Compliance:**

The reliability and performance of the TLED-XPF is evaluated in accordance with the parameters outlined and reported by LM-79 and LM-80 documents. Photometric data is tested to IESNA LM-79-08 standard by an independent testing laboratory. Lumen maintenance, or L70, a measure of long term reliability, is determined for the light source, which consists of the LED and PSB sub-assembly as installed in the luminaire, using LM-80 in-situ thermal and reliability data as provided by the LED manufacturer in accordance with DOE/EPA standards.

**Warranty:**

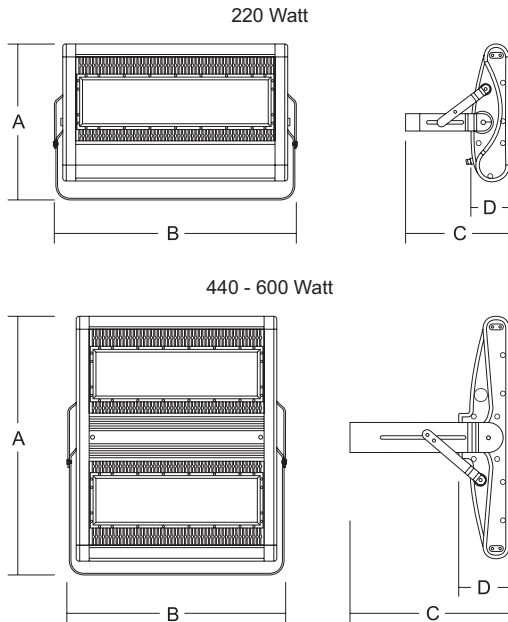
Any component that fails due to manufacturer's defect is guaranteed for 5 years. The warranty does not cover physical damage, abuse or acts of God. Manufacturer reserves the right to charge for such repairs if deemed necessary.

## Fixture Performance

Part Number	Lumens (15° Optics)	Lumens Per Watt (LPW)	Total Watts
TLED-XPF-220-50K-15	20217	91	222.9
TLED-XPF-440-50K-15	39205	88	445.3
TLED-XPF-600-57K-15	53887	88	613.8

NOTE: Lumen maintenance and life (part of LM-80 data) are per published information from primary LED suppliers and is based on design operation at their specified thermal management and electrical design parameters.

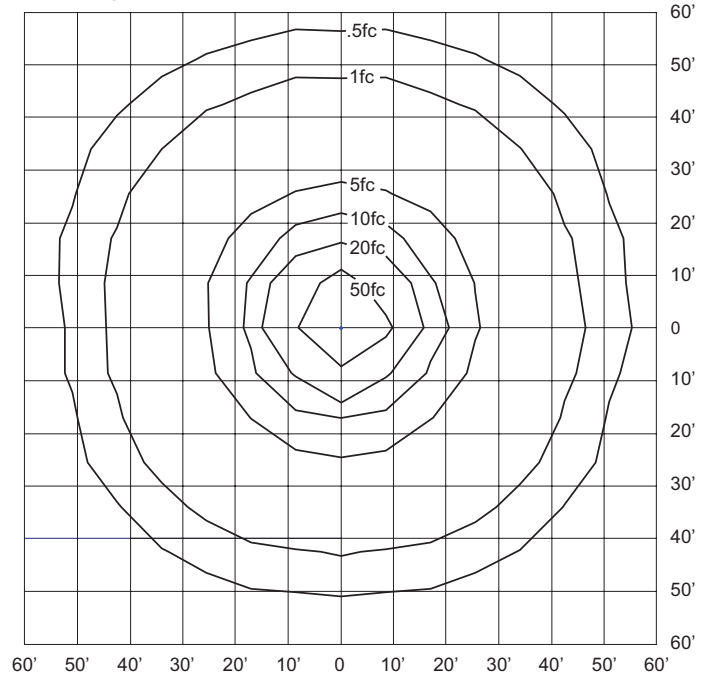
## Dimensions



Wattage	A	B	C	D	Weight	EPA
220W	14.41"	20.00"	9.6"	3.58"	19.38 lbs	0.5
440W	23.86"	22.50"	14.53"	4.61"	44 lbs	0.9
600W	23.86"	31.93"	14.53"	4.61"	62.63 lbs	1.2

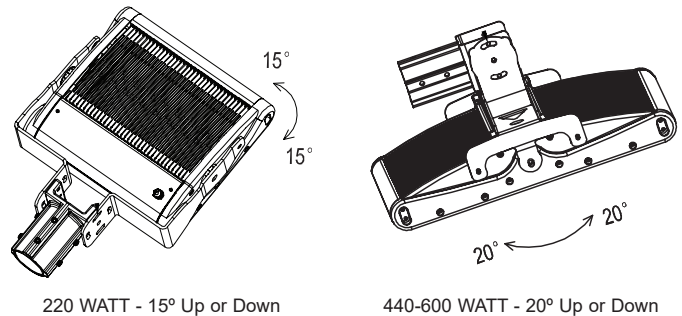
## Sample Photometrics

TLED-XPF-600-57K-15D  
MOUNTING HEIGHT: 50 FEET  
TILT: ZERO



Optic	15D	30D	60D	135DS/135DA
IES NEMA Type	3H x 3V	4H x 4V	6H x 6V	7H x 7V

## Tilt Adjustment With Heavy Duty Slipfitter



## Ordering Information

Example: TLED-XPF-600-57K-15D-VS

Series	Nominal Wattage	CCT	Optical	Input Voltage	Options (Factory Installed)
TLED-XPF	220 = 220 Watts	50K <sup>1</sup> = 5000K	15D = 15° Beam Angle	VS = Voltage Sensing (90VAC ~ 305VAC)	BLANK = Heavy Duty Yoke
	440 = 440 Watts	57K <sup>2</sup> = 5700K	30D = 30° Beam Angle	347 <sup>4</sup> = 347VAC	SF <sup>5</sup> = Heavy Duty Slipfitter
	600 = 600 Watts	XXK <sup>3</sup> = XXXXX	60D = 60° Beam Angle	480 <sup>4</sup> = 480VAC	CR <sup>6</sup> = Corrosion Resistant
			90D = 90° Beam Angle		
<b>Notes</b>			135DS = 135° x 60° Symmetric		
<sup>1</sup> 220 and 440 watt units only			135DA = 135° x 85° Asymmetric		
<sup>2</sup> 600 watt units only					
<sup>3</sup> Custom CCT available, consult factory					
<sup>4</sup> Mounted in weatherproof box on the back of the unit. No 0-10V dimming with this input voltage. Not a UL listed option.					
<sup>5</sup> Replaces heavy duty yoke, factory installed					
<sup>6</sup> Corrosion resistant option suitable for natatorium applications					

Specifications are subject to change without notice. Installation must be performed in accordance with Barron Lighting Group installation instructions.

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