



Addendum No. 2

April 21, 2015

ADDENDUM NO. 2

TO

RED CLAY CONSOLIDATED SCHOOL DISTRICT  
SHORTLIDGE ELEMENTARY SCHOOL RENOVATIONS  
BID PACKAGE 'A'

This addendum is hereby made part of the Project Manual and Drawings dated February 17, 2015.

The Project Manual and Drawings shall be supplemented or amended as specified herein.

This Addendum contains changes to the requirement of the Project Manual. Such changes shall be incorporated into the Contract Documents and shall apply to work with the same meaning and force as if they had been included in the original Documents. Whenever this Addendum modifies a portion of a paragraph of the Project Manual, the remainder of the paragraph affected shall remain in force. Added information is shown as **Bold**, deleted information is shown as ~~striketrough~~.

This Addendum contains changes to the requirement of the Drawings. Such changes shall be incorporated into the Contract Documents and shall apply to work with the same meaning and force as if they had been included in the original Documents. Whenever this Addendum modifies a portion of any drawing, the remainder of the drawing affected shall remain in force. Added, deleted or revised information is shown as "clouded".

The conditions and terms of the basic Contract Documents shall govern work unless otherwise described in this Addendum. Whenever the conditions of work, and the quality or quantity of materials, or workmanship are not fully described in this Addendum, the conditions of work included in the basic Contract Documents for similar items of work shall apply to the work described in this Addendum.

If no similar items of work are included in the basic Contract Document, the best quality of material and workmanship shall apply and all work shall be subject to the written acceptance of the Architect.



EDiS COMPANY

TEL. (800) 995-EDiS • ediscompany.com

Addendum No. 2

April 21, 2015

**THE BID OPENING DATE REMAINS THE SAME. ALL BIDS ARE DUE AT THE RED CLAY CONSOLIDATED SCHOOL DISTRICT OFFICE 1798 LIMESTONE RD, WILMINGTON, DELAWARE 19804 UNTIL 2:00 P.M. LOCAL TIME ON APRIL 23, 2015.**

**THE LAST DAY FOR QUESTIONS WAS THURSDAY, APRIL 16, 2015**

**BIDDERS ARE ADVISED THAT THE ONLY RELIABLE SOURCE OF DOCUMENTS FOR THIS SOLICITATION IS THE EDIS FTP SITE AND THE GOVERNMENT SITE. BIDDERS THAT RELY ON INFORMATION PUBLISHED ON ANY OTHER COMMERCIAL WEBSITES DO SO AT THEIR OWN RISK.**



Addendum No. 2

April 21, 2015

Addendum No. 2 – Consists of the following:

- I. Response to Bidders' Questions
- II. Revisions to Project Manual/Specifications
- III. Clarifications



Addendum No. 2

April 21, 2015

**I. RESPONSES TO BIDDERS' QUESTIONS**

*The following clarification is requested for the construction documents:*

**A. None.**

**II. REVISIONS TO PROJECT MANUAL/SPECIFICATIONS**

**A. SECTION 26 56 00 – EXTERIOR LIGHTING** – The attached Substitutions for exterior lighting is acceptable.

**III. CLARIFICATIONS**

- A. In Addendum No. 1, regarding Clarifications #4 & 5 (Door 106 & 108):
  - a. General Works contractor is to supply and install all door hardware. General Works contractor to supply power supply with the hardware package. Contractor to assist electrician as needed for them to complete installation of electrical components.
  - b. Electrical contractor is to supply and install all electrical components and complete installation as indicated in clarification.
- B. All IT scope of work including voice, data, projector, smart board and associated cabling demolition and new construction to be completed by others and is NOT to be included in the contract.

END OF ADDENDUM NO. 2



## PERFORMANCE DATA

# OF LEDS	DRIVE CURRENT	SYSTEM WATTS	DIST. TYPE	5K (5000K nominal, 67 CRI)		4K (4000K nominal, 70 CRI)		3K (3000K nominal, 80 CRI)	
				LUMENS	LPW <sup>1</sup>	LUMENS	LPW <sup>1</sup>	LUMENS	LPW <sup>1</sup>
30	350mA	34w	2	3549	104	3161	93	2404	71
			3	3583	105	3191	94	2443	72
			4	3459	102	3081	91	2375	70
	525mA	53w	2	4935	93	4466	84	3420	65
			3	5062	96	4557	86	3452	65
			4	4887	92	4353	82	3352	63

Lumen values are from photometric tests performed at a NVLAP certified laboratory in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment, application and performance tolerances of the electrical components. Please consult IES files for BUG ratings.

## ELECTRICAL DATA

# OF LEDS	NUMBER OF DRIVERS	DRIVE CURRENT (mA)	INPUT VOLTAGE (V)	SYSTEM POWER (w)	CURRENT (Amps)
30	1	350mA	120	34	0.29
			277	34	0.12
		525mA	120	53	0.45
			277	53	0.18

## LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

AMBIENT TEMPERATURE	LUMEN MULTIPLIER
0° C	1.02
10° C	1.01
20° C	1.00
25° C	1.00
30° C	1.00
40° C	0.99
50° C	0.98

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

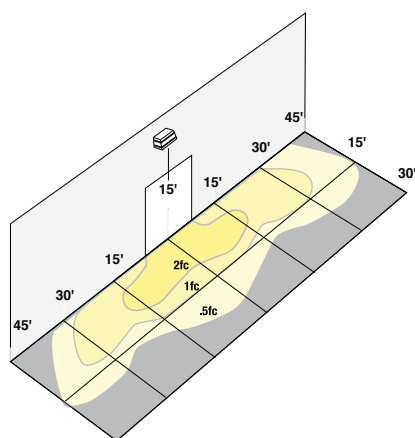
## PROJECTED LUMEN MAINTENANCE

Ambient Temp.	OPERATING HOURS					L70 (hours)
	0	25,000	50,000	TM-21-11 <sup>1</sup>	100,000	
25°C / 77°F	1.00	0.98	0.97	0.96	0.95	>774,000
40°C / 104°F	0.99	0.96	0.95	0.95	0.93	>625,000

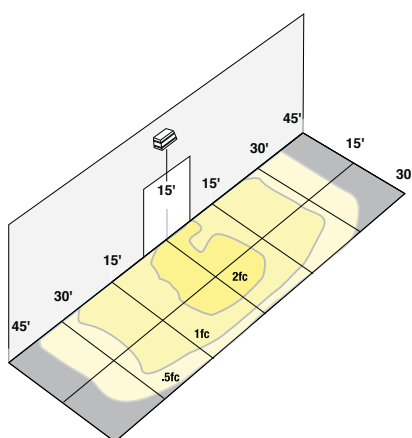
<sup>1</sup> Nichia 219B, 700mA, 85°C Ts, 10,000hrs

Data references the extrapolated performance projections for the TRP base model in 40°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.

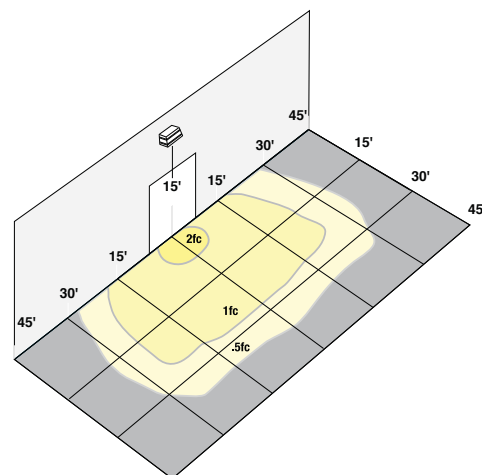
## PHOTOMETRIC REPORTS



TYPE II



TYPE III



TYPE IV (Forward throw)

## LED MULTI-PURPOSE LIGHT (XPG)



SHORTLIDGE SITE LIGHTING  
TYPE A & C (ALT)

US patent D603081 & D611188 & 7828456 and US & Int'l. patents pending

**EXPECTED LIFE** - Minimum 60,000 hours to 100,000 hours depending upon the ambient temperature of the installation location. See LSI web site for specific guidance.

**LEDS** - Two LED array choices; 50 and 68. Select high-brightness LEDs. 5300°K color temperature (nominal), 70 CRI nominal.

**DISTRIBUTION/PERFORMANCE** - Types 5 and S. Excellent uniformity projects light out to illuminate wheel stops and dark corners.

**HOUSING/OPTICAL UNIT** - The XPG features a slim 4-11/16" profile. Housing is die-formed aluminum with a gasketed clear tempered glass lens providing a water-resistant seal. Weather-tight aluminum enclosure contains factory prewired driver to ensure no water entry.

**MOUNTING** - Standard mounting is rigid 3/4" pendant mount or direct surface mount to 4" (102mm) octagon box (box by others). Optional mounting of a hook, cord and plug assembly with 3' cord. Optional mountings require specific voltage and are wired at factory. Pendant and direct mount standard with 48" leads and 8" leads respectively. Direct mount features standard quick mount plate with elongated key hole slots to allow alignment of fixtures.

**ELECTRICAL** - Universal voltage power supply (120-277 VAC, 50/60 Hz).

**DRIVER** - State-of-the-art driver technology designed specifically for LSI LED light sources provides unsurpassed system efficiency. Driver will operate with input of 120V thru 277V (50/60 Hz). Components are fully encased in potting material for moisture resistance. Driver complies with IEC and FCC standards.

**OPERATING TEMPERATURE** - -40°C to +50°C (-40°F to +122°F).

**FINISH** - Each fixture is finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling, and is guaranteed for five full years. Standard colors include black, white, and metallic silver.

**WARRANTY** - LSI LED fixtures carry a limited 5-year warranty.

**PHOTOMETRICS** - Application layouts are available upon request. Contact LSI Applications Group at [lighting.apps@lsi-industries.com](mailto:lighting.apps@lsi-industries.com)

**SHIPPING WEIGHT** - 14 lbs. (6.35kg)

**LISTING** - Listed to U.S. and International safety standards. Suitable for wet locations.

### LIGHT OUTPUT

Description		Output	
Cool White	# of LEDS	Lumens	Watts
XPG 5	50	3789	59
XPG S	50	5225	59
XPG 5	68	4815	79
XPG S	68	6224	79
350mA Drive Current			

This product, or selected versions of this product, meet the standards listed below.  
Please consult factory for your specific requirements.



IP67



**ARRA**  
Funding Compliant

Intertek  
Suitable for wet locations

# LED MULTI-PURPOSE (XPG)

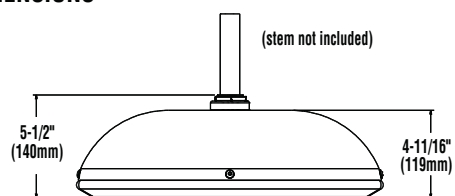
## PRODUCT ORDERING INFORMATION

TYPICAL ORDER EXAMPLE: **XPGD S LED 50 CW UE MSV**

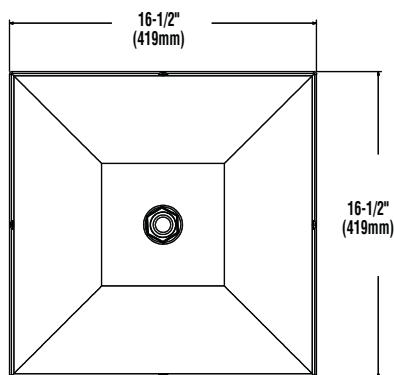
Prefix	Distribution	Light Source	Qty. LED's	Color Temp.	Line Voltage	Finish	Options
XPGD - Direct XPGP - Pendant	C S - Symmetrical A 5 - IES Type V	LED - Light Emitting Diode	50 68	CW - Cool White (5300° K nom.)	UE - Universal Electronic (120-277)	WHT - White BLK - Black MSV - Metallic Silver	HCPXXX <sup>1</sup> HCP120 HCP208 HCP240 HCP277  <b>ACCESSORIES</b> BG - Bird Guard XPG PCS - Polycarb Shield

1- Must specify voltage as fixture will be wired to specific voltage at factory.

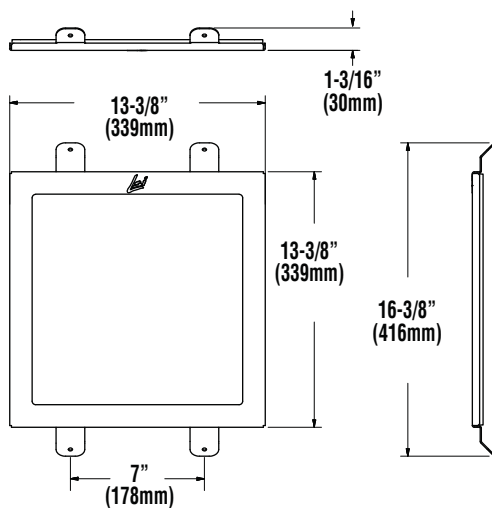
## DIMENSIONS



SIDE VIEW



TOP VIEW



POLY CARB SHIELD