

## Colorado Springs Utilities NE Gravel Staging Area

### Lighting Plan

Lighting will be installed on poles in two different locations at the staging area site as well as on each corner of the scale house. All lighting at the site will be on from dusk until dawn for the safety of employees and for security of the site. Please refer to the attached Lighting Plan drawing and specification sheets for additional details.

Include the following:

Owner name, contact telephone number, and email

Applicant name (if not owner), contact telephone number, and email

Plan preparer contact telephone number and email

Property address

Date, north arrow, and a graphic scale

Vicinity map showing the property in relation to major roadways, if not otherwise provided with the associated site plan

The building footprint for all structures depicted and labeled.

The location and height of all existing and proposed illuminating devices, including but not limited to, all parking area lights and external structural lights.

Detailed description of illuminating devices, fixtures, lamps, supports, reflectors, installation, and electrical details and other devices to include an elevation drawing. The description may include, but is not limited to, manufacturers specifications and catalog cuts sheets, and drawings. A key and legend may be required at the discretion of the PCD.

Photometric data and plan, including maps and diagrams furnished by manufacturers or similar showing the angle of the cut off or light emission.

Photometric plan depicting the lighting levels (foot candles) throughout the property, at property lines, and along any adjacent rights-of-way.

Location of all existing and proposed easements

Please review lighting standards in LDC Sec. 6.2.3 and ensure compliance.

Max lighting levels shall not exceed 10 foot candles and lighting shall be measured at not more than 0.1 foot candles at property boundaries where adjacent to residential property or public right of way.

Max height of all lighting fixtures is 15 feet, except in parking lots, where 20 feet may be permissible.

LEGEND

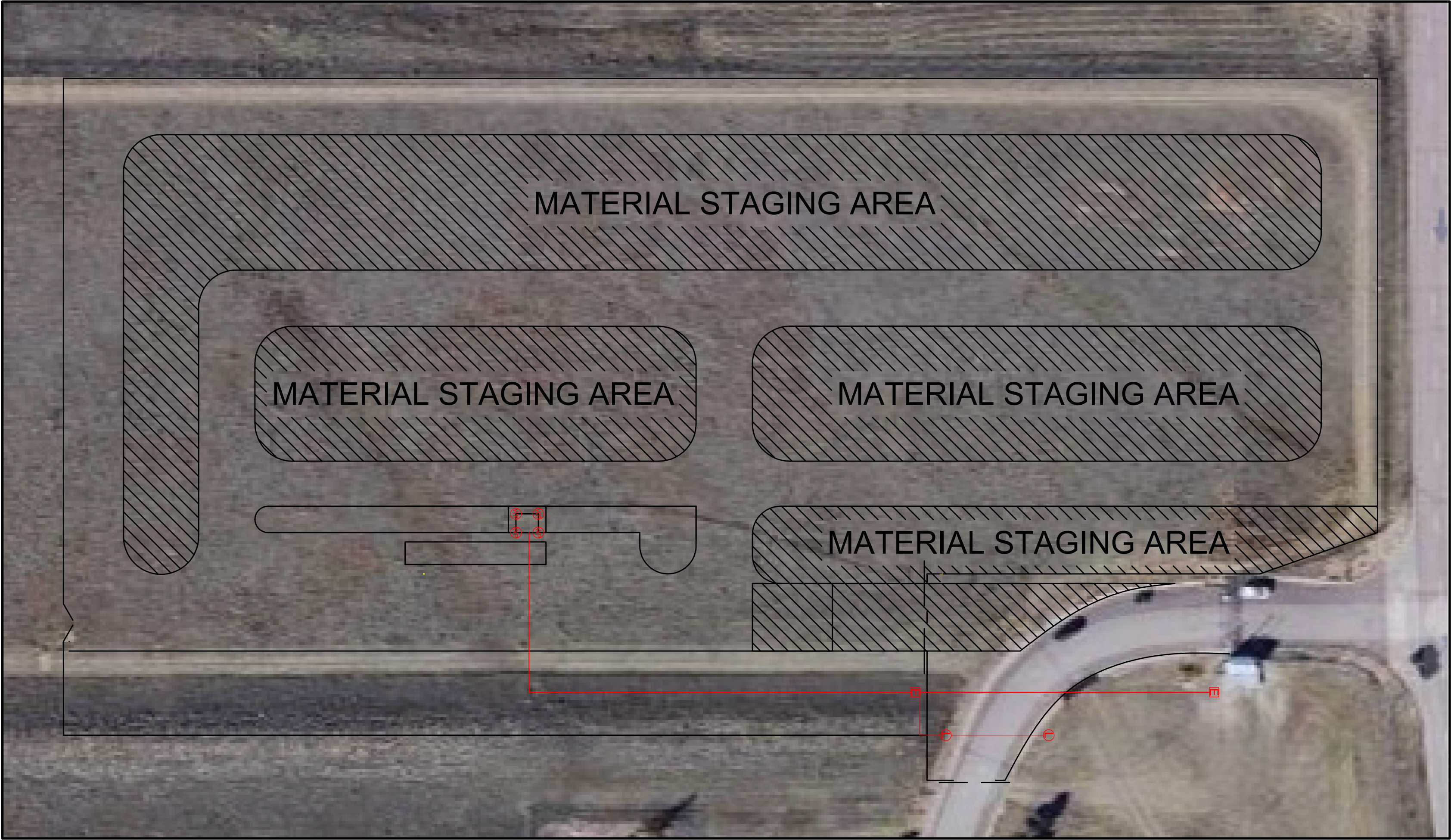
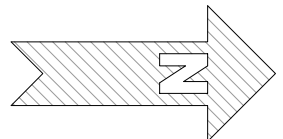
UNDERGROUND ELECTRICAL

SYMBOLS

E ELECTRICAL PANEL

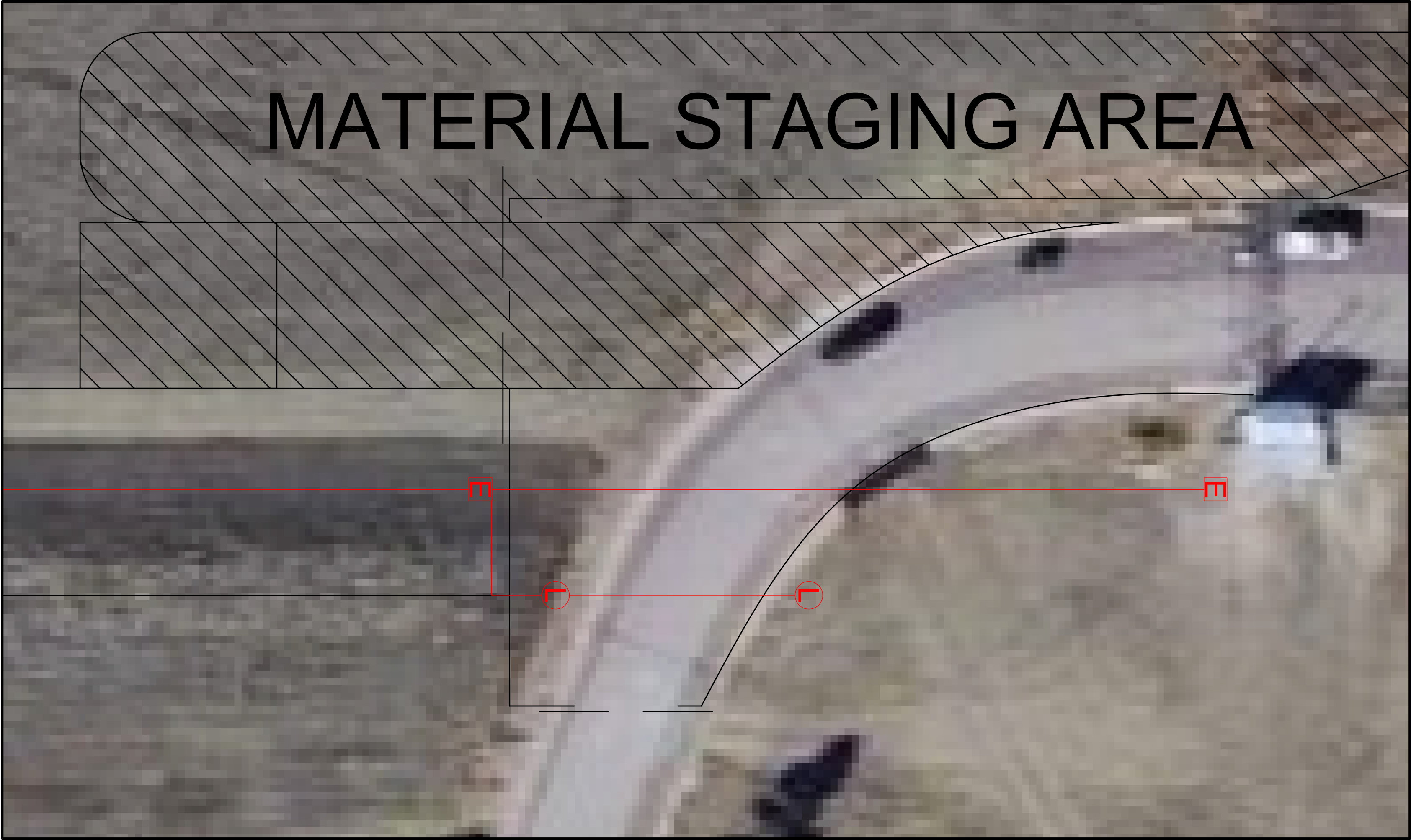
L LIGHT POLE

WP WALL PACK



PROPOSED STAGING AREA

SCALE: NONE



PROPOSED ENTRY GATES

SCALE: NONE



PROPOSED SCALE HOUSE

SCALE: NONE



SUBMITTALS FOR REVIEW

**Project: Carpenter Shop**  
**Contractor: Green Electric**

### Submittal Review

☐ APPROVED    ☐ APPROVE WITH CHANGES NOTED  
☐ REVISE AND RESUBMIT    ☐ REJECTED

Reviewed by:

Signature:

Date:

  
**GraybaR<sup>SM</sup>**





Color: Bronze

Weight: 218.3 lbs

Project:

Type:

Prepared By:

Date:

## Technical Specifications

### Listings

#### CSA Listed:

Suitable for wet locations

### Construction

#### Description:

Steel pole 4" round 7 gauge 25 foot welded tenon square base

#### Shaft:

46,000 p.s.i. minimum yield.

#### Hand Holes:

Reinforced with grounding lug and removable cover

#### Base Plates:

36,000 p.s.i. minimum yield.

#### Color:

Bronze powder coating

#### Height:

25 FT

#### Gauge:

7

#### Wall Thickness:

3/16"

#### Shaft Size:

4"

### Anchor Bolt Templates:

WARNING Template must be printed on 11" x 17" sheet for actual size. CHECK SCALE BEFORE USING. Templates shipped with anchor bolts and available [online](#).

### Max EPA's/Max Weights:

70MPH 9.5 ft./380 lb.  
 80MPH 6.3 ft./230 lb.  
 90MPH 4.1 ft./150 lb.  
 100MPH 2.6 ft./120 lb.  
 110MPH 1.4 ft./70 lb.  
 120MPH 0.5 ft./60 lb

### Accessories:

Base/Cap: [BASE-R4](#)  
 Anchor Bolts: [BOLT4/7](#)

### Other

### Terms of Sale:

Pole Terms of Sale is available [online](#).

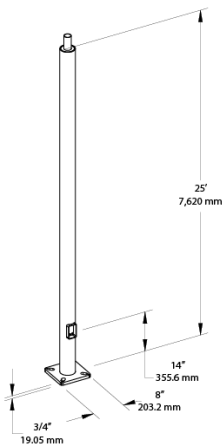
Technical Specifications (continued)

Other

Buy American Act Compliance:

RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

Dimensions



Features

- Designed for ground mounting
- Heavy duty TGIC polyester coating
- Reinforced hand holes with grounding lug and removable cover for easy wiring access
- Pole caps, base covers & bolts are sold separately
- Custom manufactured for each application

Ordering Matrix

Family	Shape	Size	Gauge	Height	Drilled/Welded Tenon
P	R	4	7	25	WT
R = Round		4 = 4"	7 = 7	10 = 10'	D2 = Drilled
TR = Taped Round		5 = 5"	11 = 11	15 = 15'	WT = Welded Tenon
		6 = 6"		20 = 20'	
		7 = 7"		25 = 25'	
		8 = 8"		30 = 30'	

## Table of Contents - LED High Mast

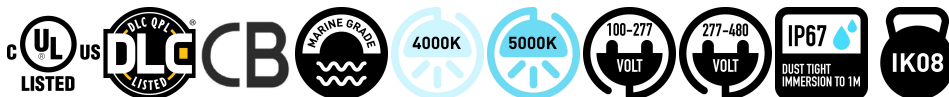
450W LED Outdoor High Mast - Pole Mount - MLLG-AX-LED-HM-450-[Color]-[Mount]

1



## 450W LED Outdoor High Mast - Pole Mount

Replaces: 1000W Metal Halide



### Models and Specifications

Part Number	Watts	Lumens
MLLG-AX-LED-HM-450-[Color]-[Mount]	450	62235

<b>Replaces</b>	1000W Metal Halide
<b>Lumens Per Watt</b>	138
<b>Voltage</b>	100V-277V   277V-480V
<b>Frequency</b>	50-60Hz
<b>Power Factor</b>	> .95
<b>THD</b>	< 20%
<b>Life Hours</b>	100,000 (L70) hours
<b>Color Temp</b>	4000K   5000K
<b>CRI</b>	75+
<b>Beam Angle</b>	Type 1,2,3,4,5 (15 distribution patterns)
<b>Operating Temp</b>	-40°F to +122°F
<b>IP Rating</b>	IP67
<b>IK Rating</b>	IK08
<b>Dimmable</b>	1-10V
<b>Housing</b>	Aluminum Alloy and PC Lens
<b>Mounting</b>	Pole   Trunnion
<b>Dimensions</b>	30.16 X 24.98 X 2.76
<b>Weight</b>	46.9 lbs
<b>Warranty</b>	10 years

LDC Sec. 6.2.3(B)(1) - Light fixtures shall be arranged and positioned such that the light sources are concealed and fully shielded so that no direct light or reflection creates a nuisance or hazard to any adjacent ownership or right-of-way and that up-light, spill-light, glare, and unnecessary diffusion are minimized. Light fixtures, except as otherwise permitted herein, are required to be full cutoff as defined by the Illuminating Engineers Society of North America (IESNA) The cut-off angle of an exterior light source shall not exceed 90 degrees. Full cut-off fixtures may not be tilted or aimed in a manner that results in light distribution above the horizontal plane. The use of semi-cutoff or cutoff (as opposed to full cutoff) fixtures shall be permitted to illuminate areas other than parking lots provided the pole or mounting point is no more than 10' in height and the maximum lumen output does not exceed 1800 lumens per lamp.

### Features

**OVERVIEW.** 450 Watt LED HIGH MAST / AREA LIGHT produces 62 235 lumens at 138 lumens / watt and is finished with a corrosion resistant white polyester powder paint. Certified according to 1000 hours salt spray testing standard. Over 20 optical lenses are available for virtually any application. It comes with either 120-277V or 277-480V 1-10V dimmable driver. Color temperature options include 4000K and 5000K. 10 kVa or 20 kVA Surge Protection optional.

**INSTALL.** The fixture mounts on a pole using an adjustable spigot that mounts to a horizontal or vertical 2 3/8 (60mm) O.D. tenon. Trunnion Mount is also available.

**UTILIZATION.** These fixtures can operate in temperatures between -40 122 F allowing them to be utilized in a wide variety of applications and climates. Fixture is IP67 rated and UL Listed for Wet Locations. This makes them perfect for outdoor spaces such as: ports rail yards container yards highways DOT corridors security lights and large open field storage locations.

**ENERGY SAVINGS.** This fixture provides a lumen output equal to 1000 Watt MH/HPS and can reduce your lighting bill between 50% and up to 80%. With a lifespan of 100 000 (L70) hours these lights/fixtures will last 10 years under normal conditions. This LED light/fixture will save you a lot of money with lowered lighting bills and maintenance costs over its lifetime.

**WARRANTY / CERTIFICATIONS.** Buy with confidence: LED Lighting Supply provides a 10 year limited warranty along with UL certifications to provide long lasting LED Lighting with safe operation!




**XFit**
**TRADITIONAL  
WALL PACK FIXTURES**

## KT-WPLED55-M1-8CSB-VDIM-W

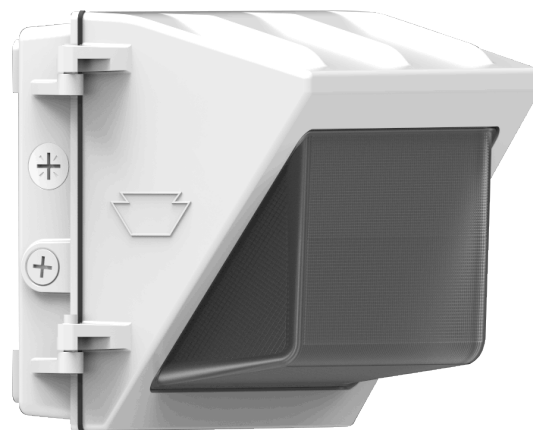
### TRADITIONAL 55W NON-CUTOFF LED WALL PACK

#### DESCRIPTION

Traditional 55W Non-Cutoff LED Wall Pack | 120–277V Input |  
3000–5000K | Medium-Size White Housing | Glass Lens

#### APPLICATION

Building Mount for exterior illumination (perimeters, pathways,  
loading docks, and other general security lighting  
requirements)


**5 YEAR  
WARRANTY**


#### PRODUCT FEATURES

- Traditional design matches appearance and light distribution pattern of legacy HID, optimized for one-for-one replacements
- Heavy-duty, die-cast aluminum housing with (5) available 1/2" threaded conduit hubs: (1) on back and (1) on all four sides
- Powered by Keystone 0–10V dimming LED drivers
- Keystone Color Select Technology: Adjustable CCT (3000K, 4000K, or 5000K)
- Built-in dusk-to-dawn photocell behind translucent 3/4" threaded plug with anti-yellowing agent
- Borosilicate glass lens diffuses light source and provides uniform distribution
- Covers footprint of mid-size HID wallpacks
- Ambient operating temperature: –40°C/–40°F to 50°C/122°F
- UL listed for wet locations, IP65
- 0–10V dimming, 10% min
- Power Factor: >0.95
- THD: <20%
- LED chip lifetime: L70 >100,000 hrs @ 25°C/77°F ambient fixture temp
- Meets FCC Part 15, Part B, Class A standards for conducted and radiated emissions
- Fixture impact rating IK06
- Compatible with Keystone LED Emergency Backups

#### ELECTRICAL SPECIFICATIONS

Catalog Number	Wattage	Lumens	Lumens Below 90°	Dimming	CCT*	Efficacy	CRI	Housing Color	Input Voltage	Rated Life	Legacy Equivalent
KT-WPLED55-M1-8CSB-VDIM-W	55W	7200 lm	6480 lm	0–10V	3000K	131 lm/W	>80	White	120–277V	50,000 hrs	175–250W MH
		7690 lm	6895 lm		4000K	140 lm/W					
		7450 lm	6705 lm		5000K	135 lm/W					

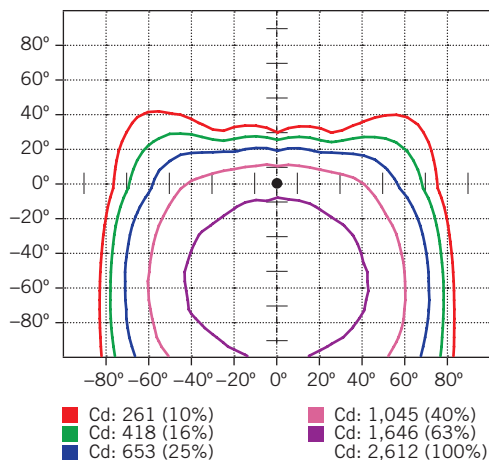
\* Color Uniformity: CCT (Correlated Color Temperature) range as per guidelines outlined in ANSI C78.377-2017

# KT-WPLED55-M1-8CSB-VDIM-W

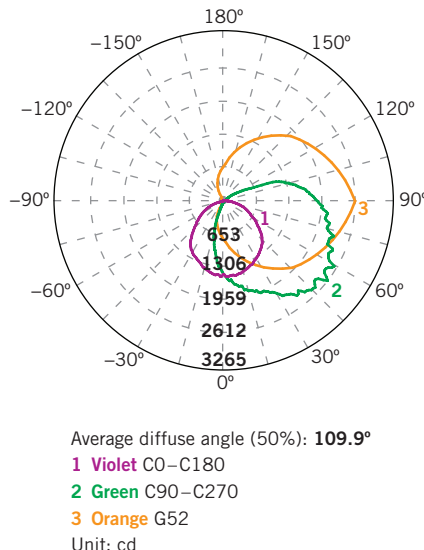
## TRADITIONAL 55W NON-CUTOFF LED WALL PACK

### PHOTOMETRIC SPECIFICATIONS

#### ISOCANDELA PLOT



#### LUMINOUS INTENSITY DISTRIBUTION



#### FLUX DISTRIBUTION

Zone	Lumens	% Luminaire
<b>Forward Light</b>	6,006 lm	81.9%
0°-30°	734 lm	10.0%
30°-60°	2,633 lm	35.9%
60°-80°	1,981 lm	27.0%
80°-90°	658 lm	9.0%
<b>Back Light</b>	629 lm	8.6%
0°-30°	241 lm	3.3%
30°-60°	294 lm	4.0%
60°-80°	80 lm	1.1%
80°-90°	15 lm	0.2%
<b>Up Light</b>	691 lm	9.5%
90°-100°	313 lm	4.3%
100°-180°	378 lm	5.2%

#### BUG\* Rating

#### Asymmetrical Luminaire Types

Type I, II, III, IV B1 U3 G4

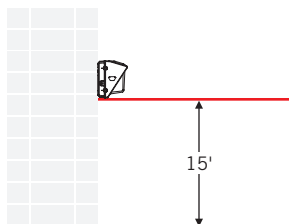
#### Quadrilateral Symmetrical Luminaire Types

Type V, Area Light B1 U3 G4

\* Backlight, Uplight, Glare

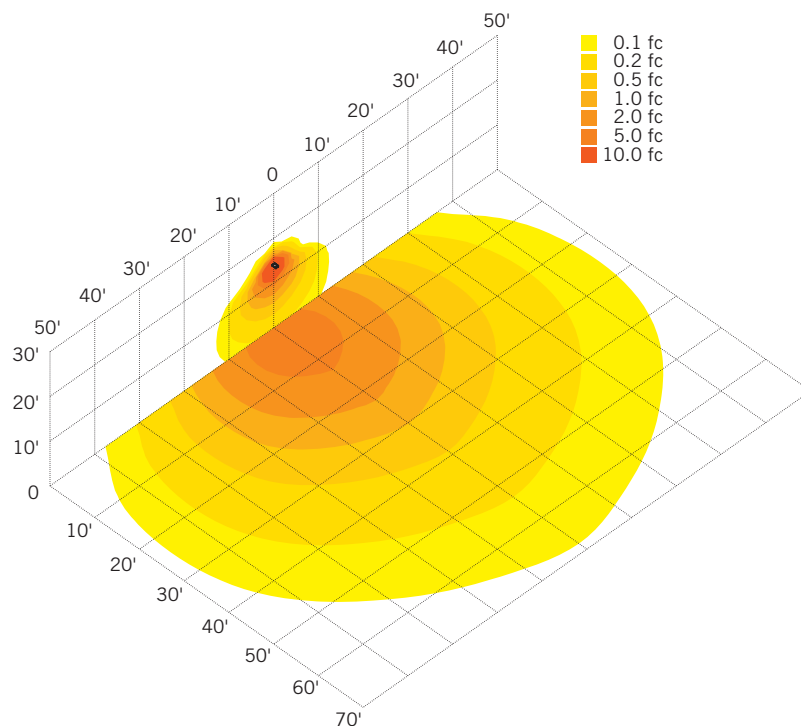
#### MOUNTING

Side view



#### LIGHT DISTRIBUTION PATTERN

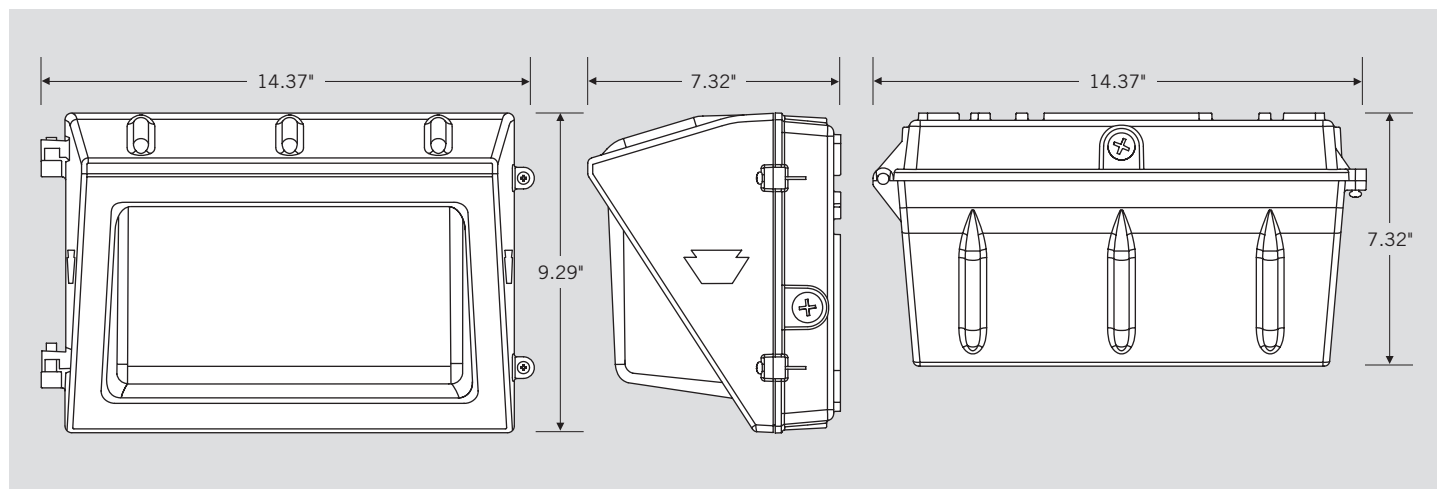
Isometric view from above; Luminaire mounted at 15'



## KT-WPLED55-M1-8CSB-VDIM-W

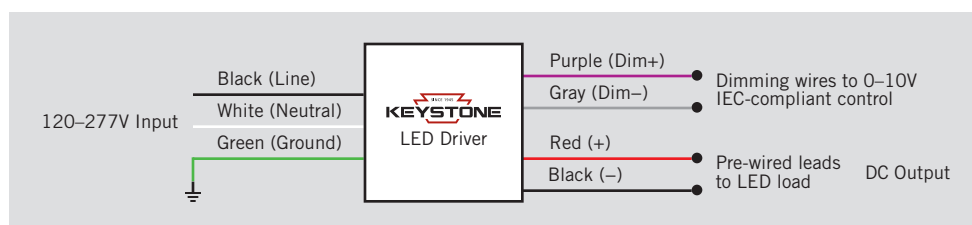
### TRADITIONAL 55W NON-CUTOFF LED WALL PACK

#### PHYSICAL SPECIFICATIONS



#### GENERAL SETUP INSTRUCTIONS

##### GENERAL WIRING DIAGRAM



**Caution:** Before installing, make certain that AC power to the fixture is off.

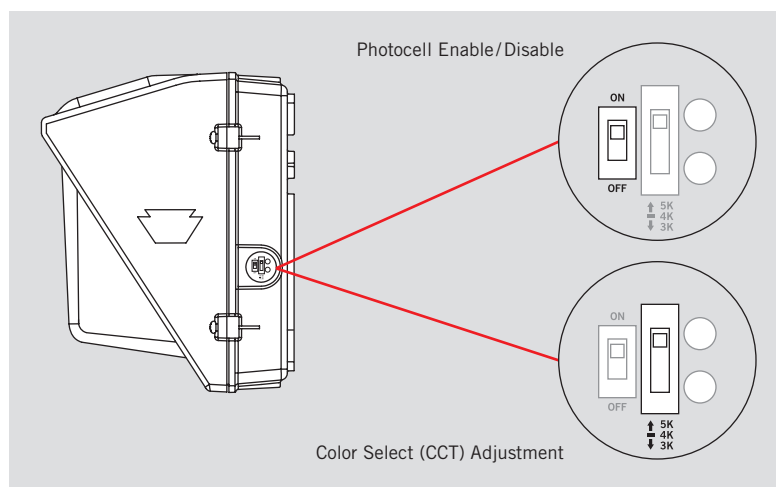
**Caution:** The electrical rating of this product is 120-277V. Installer must confirm that there is 120-277V at the fixture before installation.

##### PHOTOCELL ENABLE/DISABLE

This fixture is equipped with a dusk-to-dawn photocell behind the translucent knock-out (KO) cover. Adjust the dip switch to enable (ON) or disable (OFF) the photocell function (see illustrations to the right). Fixture comes preset with photocell enabled unless otherwise noted.

##### COLOR SELECT (CCT) ADJUSTMENT

This fixture is equipped with Color Select technology. There is an adjustable dip switch behind the translucent knock-out (KO) cover to change CCT between 5000K, 4000K, and 3000K (see illustrations to the right). Fixture comes preset at 5000K unless otherwise noted.




**XFit**
**TRADITIONAL  
WALL PACK FIXTURES**

# KT-WPLED55-M1-8CSB-VDIM-W

TRADITIONAL 55W NON-CUTOFF LED WALL PACK

## ACCESSORY (SOLD SEPARATELY)

Catalog Number	Description
KTSP-10KV-C	Wallpack 10kV Surge Protector, Compact Design

## ORDERING INFORMATION

CATALOG NUMBER	PACK QTY.	EASY CODE	UPC
KT-WPLED55-M1-8CSB-VDIM-W	1	JSU-88	843654133683

## CATALOG NUMBER BREAKDOWN

# KT-WPLED55-M1-8CSB-VDIM-W

1	2	3	4	5	6	7	8	9	10	11	12
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- 1 Keystone Technologies
- 2 Fixture Type
- 3 LED Lamp
- 4 Max Wattage
- 5 Size
- 6 Style
- 7 CRI
- 8 Color
- 9 Color Select Designation
- 10 Dimming
- 11 Housing Color
- 12 Sensor Options

### 2 Fixture Type

F	Flood
WP	Wallpack

### 5 Size

S	Small
M	Medium
L	Large

### 6 Style

1	Non-Cutoff
2	Full-Cutoff

### 7 CRI

8	>80
9	>90

### 8 Color

40	4000K
50	5000K
CS	Color Select

### 9 Color Select Designation

A	3500K, 4000K, 5000K
B	3000K, 4000K, 5000K
C	3000K, 3500K, 4000K, 5000K
D	TBD

### 10 Dimming

VDIM	0-10V
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### 11 Housing Color

	Bronze
B	Black
W	White

### 12 Sensor Options

	No option
/MW	Microwave occupancy Sensor Installed