

# E X T E R I O R L I G H T I N G P R O G R A M N O T E S

## **RODEO ARENA**

### **Proposed system:**

- (4) poles
- 60-ft pole height
- (28) 1500-watt metal halide luminaires, (7) in each array
- Design illumination = 30 fc avg. (per IESNA, Class III)
- Upper visor for luminaires

RECEIVED

FEB 24 2010



### **Design notes:**

- Vissors specified to reduce light spill and trespass.
- Pole height considerations:
  - Higher mounting height allows 'steeper' aiming angles, reduces glare and trespass, improves performance, comfort and safety – for competitors, spectators and neighbors.
  - Higher mounting height/steeper aiming angles would also reduce probability of glare problems for pilots.

## **PARKING/TRAFFIC AREAS:**

### **Proposed system – south/entry area:**

- (5) 17-ft poles
- (5) 175-watt metal halide luminaires, Type 2 ('Roadway') distribution
- Design illumination = 1.0 fc avg., 0.1 fc min., 20:1 max:min contrast (max.)

### **Proposed system – central parking area:**

- (8) 17-ft poles
- (8) 175-watt metal halide luminaires, Type 4 ('Forward Throw') distribution
- Design illumination = 1.0 fc avg., 0.1 fc min., 20:1 max:min contrast (max.)

### **Design notes:**

- Existing street lights at SH 75 intersection provide illumination at entry to complex.
- Extremely desirable to keep central parking area free of poles, to allow larger vehicles, stock trailer maneuvering/parking, etc.
- Pole height considerations:
  - City of Hailey Lighting Ordinance mandates a maximum fixture height of 17 feet; in complying with the ordinance, while avoiding a center row of fixtures in the central parking area, the recommended max:min contrast ratio is exceeded. The other IESNA recommended illumination criteria are satisfied.

---

### IESNA – Recommended Practices:

- RP-33-99: "Lighting for Exterior Environments"
- RP-6-01: "Sports and Recreation Area Lighting"
- RP-20-98: "Lighting for Parking Facilities"

<b>Project:</b>	Hailey Rodeo Complex	<b>Date:</b>	02.24.2010
<b>Reference:</b>	Exterior Lighting Program Notes		
Paul Stoops Associates • P.O. Box 1130 • Hailey, ID 83333 • 208-788-8993 • FAX: 788-7634 • email: paul@ps-assoc.com			

PRODUCT INFORMATION

**Intended Use**  
Ideal for recreational or competitive sports fields, parking areas and industrial yards.

**Construction**  
**Housing:** Heavy-gauge, hydroformed aluminum ballast housing mounted to integral die-cast monoframe with horizontal degree aiming scale and repositioning locator. Die-cast aluminum socket housing provides vertical aiming adjustment with degree aiming scale and repositioning stop.

**Finish:** Standard finish is dark bronze polyester powder. Ad-

ditional architectural colors available; see [www.lithonia.com/archcolors](http://www.lithonia.com/archcolors).

**Optics**  
Heavy-gauge anodized aluminum reflectors provide a range of NEMA beam spreads. Optical chamber sealed to inhibit entrance of contaminants. Hinged lens is heavy-duty, thermal-, shock- and impact-resistant tempered glass.

**Electrical**  
All electrical components are thermally isolated from optical assembly, promoting longer life. All bal-

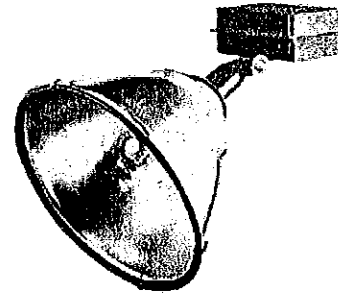
lasts are 100% factory tested. Constant wattage autotransformer 400W and above. Super CWA Pulse Start ballast, 88% efficient and EISA legislation compliant, is required for 400W (must order SCWA option) for U.S. shipments only. CSA, NOM or INTL required for probe start shipments outside the U.S.

**Socket:** Porcelain, mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V.

**Installation**  
Mounted by securing integral cross arm mounting bracket directly to cross arm. No additional adaptors are required. A 5/8" #1UNC mounting bolt provided. Exposed bolt length: 1-1/2".

**Listings**  
UL Listed (standard), CSA Certified or NOM Certified (see Options). UL Listed for 25°C ambient and wet locations.

TV



ORDERING INFORMATION For shortest lead times, configure products using **bolded options**.

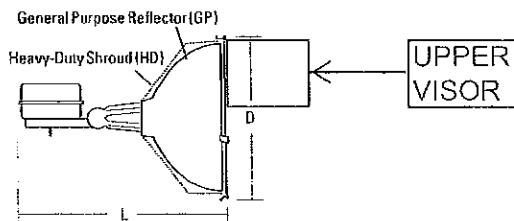
Example: TV 1000M GP4 TB

Series	Lamp type	Distribution	Voltage	Ballast	Mounting
TV	<b>High pressure sodium<sup>1</sup></b>	<b>General purpose</b>	120	<b>Ships installed</b>	<b>Ships separately<sup>2,8</sup></b>
	400S	GP2 <sup>2</sup>	208 <sup>4</sup>	(blank) Magnetic ballast	FRWB Radius wall bracket <sup>9</sup>
	1000S	GP3 <sup>2</sup>	240 <sup>4</sup>	CWI Constant wattage isolated <sup>6</sup>	TVTS Tenon slipfitter
	<b>Metal halide</b>	GP4	277	SCWA Super CWA ballast	FSAB Steel angle bracket
	400M	GP5	347	<b>Ships separately<sup>4,7</sup></b>	FCX2 2-Light wood pole crossarm
	1000M	GP6	480 <sup>4</sup>	HRBW HID remote ballast weatherproof (black)	FCX3 3-Light wood pole crossarm
	<b>1500M<sup>1</sup></b>		TB <sup>4</sup>	HRB HID-remote ballast (white)	FCX4 4-Light wood pole crossarm
			23050HZ <sup>6</sup>		

Options			Finish		
<b>Ships installed</b>			IBL Internal bottom louver	PE4 NEMA twist-lock PE (480V)	(blank) Dark bronze (std.)
SF Single fuse, 120V, 277V, 347V	G62 2' 16-3 cord prewired	CV3P 3' of 16-3 cord prewired with 3-prong plug for use with prewired cages <sup>12</sup>	CSA Meets Canadian standards	PE7 NEMA twist-lock PE (277V)	DBL Black
DF Double fuse, 208V, 240V, 480V	CF Charcoal filter <sup>13</sup>	SLR Stainless steel lens ring	NOM Meets Mexican standards (consult factory)	SC Shorting cap	DMB Medium bronze
QRS Quartz restrike system <sup>10</sup>	WC Mounting bolt for wooden crossarm	WC Mounting bolt for wooden crossarm	INTL Available for MH probe start shipping outside the U.S.	UV Upper visor <sup>4</sup>	DNA Natural aluminum
PER NEMA twist-lock receptacle only <sup>11</sup>	LS Lamp support	LS Lamp support	<b>Ships separately<sup>7</sup></b>		DWH White
C22 2' 12-3 cord prewired	AH Above horizontal aiming	AH Above horizontal aiming	PC1 NEMA twist-lock PE (120, 208, 240V)		CR Enhanced corrosion resistance
C42 2' 14-3 cord prewired			PE3 NEMA twist-lock PE (347V)		CRT Non-stick protective coating (black)

ADDITIONAL INFORMATION For additional product information, visit [www.lithonia.com](http://www.lithonia.com).

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.



	NEMA 2, 3	NEMA 4, 5, 6
EPA:	2.9 ft <sup>2</sup> (0.27m <sup>2</sup> )	2.5 ft <sup>2</sup> (0.23 m <sup>2</sup> )
Diameter:	23-1/8 (58.7)	21-1/2 (54.6)
Length:	30 (76.2)	31-1/2 (80.0)
Weight:	53 lbs (24.0 kg)	53 lbs (24.0 kg)

Notes

- Not available with SCWA.
- Not available with 1000S.
- Heavy-duty anodized aluminum shroud painted to match fixture.
- Must specify CWI for use in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- Consult factory for available wattages.
- May be ordered as an accessory.
- Must specify finish.
- For use with slipfitter.
- Maximum allowable wattage lamp included.
- Photocell not included. Not available 1500M.
- Must use mating receptacle, provided by others (n/a 1500M 120V).
- HD option must be ordered.

FLOODLIGHTING

LITHONIA OUTDOOR



## FEATURES & SPECIFICATIONS

**INTENDED USE** — For building- and wall-mounted applications.

**CONSTRUCTION** — Rugged, die-cast, single-piece aluminum housing. Die-cast doorframe has a 1/8" thick tempered glass lens. Doorframe is fully gasketed with one-piece solid silicone.

**FINISH** — Standard finish is textured dark bronze (DBT) corrosion-resistant polyester powder finish, with other architectural colors available.

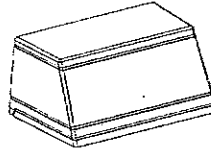
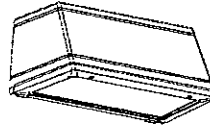
**OPTICAL SYSTEM** — Hydroformed reflector for superior uniformity and control. Medium throw (MD) full cutoff distribution only.

**ELECTRICAL SYSTEM** — HID utilizes a high-reactance, high-power factor ballast. Ballasts are copper-wound and 100% factory tested. Porcelain, medium-base socket with copper alloy, nickel-plated screw shell and center contact. Compact fluorescent utilizes an electronic, high frequency ballast. Compact fluorescent socket is four-pin positive latching thermoplastic. UL Listed. Quick-disconnect plug easily disconnects reflector from ballast and fixture from supply wires.

**INSTALLATION** — Easily installed using provided mounting strap. Mount to any non-combustible vertical surface or to a 4" round or square outlet box. Back access through slotted gasket.

**LISTING** — Listed and labeled to UL standards. Listed and labeled to CSA standards (see Options). NOM Certified (see Options). IP65 rated. Wet location listed.

Catalog Number	
Notes	Type



Decorative Wall-Mounted Lighting

# WSTM

TYPE "B"

**METAL HALIDE**  
50W-70W  
**HIGH PRESSURE SODIUM**  
35W-70W  
**COMPACT FLUORESCENT**  
26DTT, 26-42TRT

### Standard dimensions - WSTM

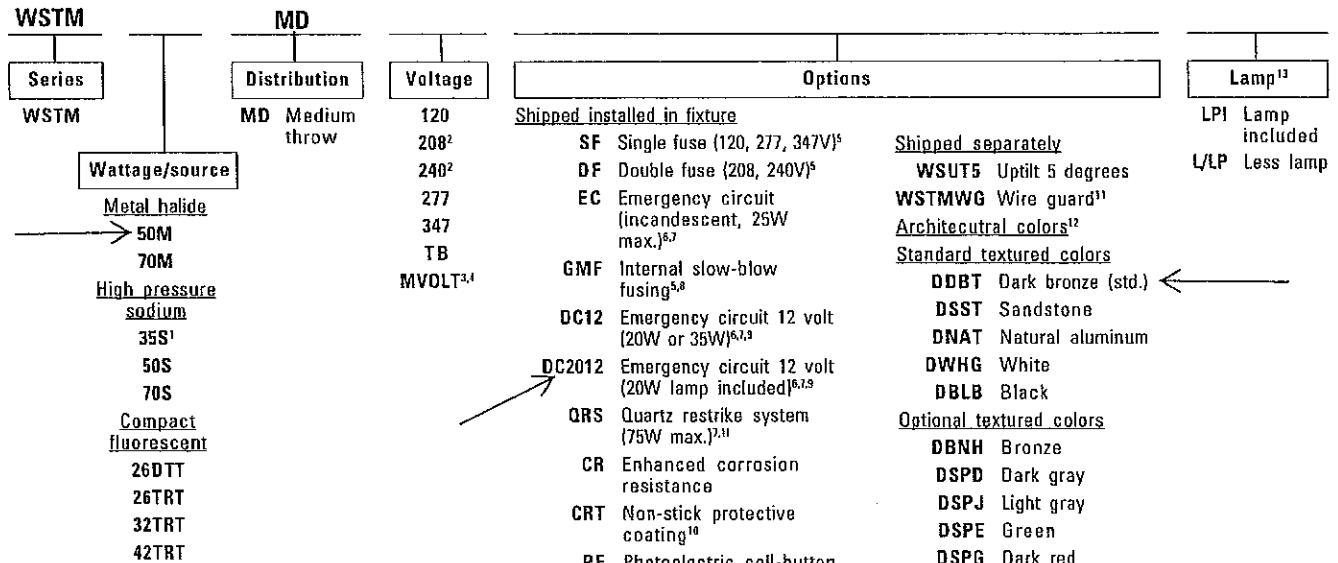
Length: 12.50" (31.75 cm)  
Depth: 7.50" (19.05 cm)  
Height: 5.75" (14.60 cm)  
Weight: 14.00lbs (6.35 kg)

All dimensions are inches (centimeters) unless otherwise specified.

## ORDERING INFORMATION

Choose the boldface catalog nomenclature that best suits your needs and write it on the appropriate line.

Example: **WSTM 70M MD 120 SF DNAT LPI**



### NOTES:

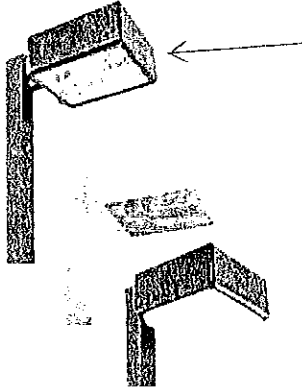
- 120V only.
- Consult factory for availability in Canada.
- Optional multi-tap ballast (120, 208, 240, 277V); (120/347V in Canada).
- Multi-volt electronic ballast (compact fluorescent lamps) capable of operating any line voltage between 120V and 277V.
- Must specify voltage. Not available with MVOLT or TB.
- Maximum wattage lamp included.
- Available for HID sources only.
- Available for compact fluorescent only.
- Not available with SF or DF.
- Black finish only.
- Must be ordered with fixture; can not be field installed.
- Additional architectural colors available; see www.lithonia.com for more information.
- Must be specified.

PRODUCT INFORMATION

General Purpose

**KAD  
KAC  
KADT**

Contour®



**Intended Use**  
For parking areas, street lighting, walkways and car lots.

**Construction**  
Housing: Rugged, die-cast, soft-corner aluminum housing with 0.12" nominal wall thickness.

Doorframe: KAD die-cast doorframe has impact-resistant, tempered glass lens that is fully gasketed with one-piece tubular silicone. KAC die-cast aluminum doorframe has prismatic, impact-resistant, tempered glass, drop dish acrylic lens or drop dish polycarbonate lens. Door frame is fully gasketed with one-piece silicone.

**Finish:** Dark bronze polyester powder finish. Additional architectural colors available; see [www.lithonia.com/acchcolors](http://www.lithonia.com/acchcolors).

**Optics**  
KAD: anodized aluminum hydro-formed or segmented reflectors. Four full cutoff distributions available: R2 (roadway), R3 (asymmetric), R4 (forward throw) and R5 (symmetric). High-performance, segmented reflectors are rotatable and field-interchangeable. KAC reflector is optical-quality aluminum that works in tandem with a light-diffusing prismatic lens.

**Electrical**  
All ballasts are 100% factory tested. High reactance, high power factor for 150W and below. Constant wattage autotransformer 175W and above. MH: 150W and below are standard with pulse-start ignitor technology. Super CWA Pulse Start ballasts, 88% efficient and EISA legislation compliant, are required for 151-400W (must order SCWA option) for US shipments only. CSA, NOM or IRTL required for probe start shipments outside the US.

Socket: Porcelain, horizontally oriented medium-base socket for 70-150W and mogul-base socket for 175W

and above with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W-600V, 4KV pulse rated.

**Installation**  
Extruded aluminum arm for square pole mounting. KADT mounts with SPD04 with an additional backing plate and receiver used to mount suspend tension rod. KADT mounts 11.27" lower than specified pole height.

**Listings**  
UL Listed (standard). CSA Certified or NOM Certified (see Options). KAD UL Listed for 25°C ambient and wet locations. IP65 Rated.



For shortest lead times, configure products using bolded options.

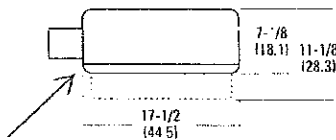
Example: KAD 400M R3 TB SCWA SPD09 LPI

Series	Lamp type		Distribution	Volume	Ballast	Mounting <sup>11</sup>	
KAC	<b>High pressure sodium<sup>1</sup></b>	100M <sup>1</sup>	<b>KAD/KADT</b>	120	(blank) Magnetic ballast	<b>Ships included<sup>12</sup></b>	<b>Ships separately<sup>12, 13</sup></b>
KAD	150M	<b>Metal halide ceramic</b>	R2 Type II roadway <sup>7</sup>	208 <sup>4</sup>	CWI Constant wattage isolated <sup>10</sup>	SPD04 4" contoured arm for square pole	KMA External mast arm adaptor
KADT	70S	70MH <sup>14</sup>	R3 Type III asymmetric <sup>7</sup>	240 <sup>9</sup>	SCWA Super CWA ballast	RPD04 4" contoured arm for round pole	DAD12P 12" contoured degree arm for pole
	100S	100MH <sup>1</sup>	R4 Type IV, FT <sup>7</sup>	277		WBD04 4" contoured arm for wall	DAD12WB 12" contoured degree arm for wall
	150S	150MH <sup>1</sup>	R5S Type V symmetric square	347		SPD09 9" contoured arm for square pole	XTMB Twin mounting bar
	250S	250MH <sup>1</sup>	SR2 Type II segmented <sup>7</sup>	480 <sup>9</sup>		RPD09 9" contoured arm for round pole	KADWBA Decorative wall bracket (up or down)
	400S	400MH <sup>1</sup>		TB <sup>8</sup>		WBD09 9" contoured arm for wall	
	<b>Metal halide</b>			23050Hz <sup>15</sup>			
	70M <sup>14</sup>						

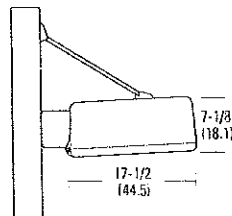
Options		Finish	Lamped
<b>Ships installed</b>	WTB Terminal block <sup>16</sup>	(blank) Dark bronze (std.)	LPI Lamp included
SF Single fuse, 120V, 277V, 347V	HS House-side shield	DBL Black	L/LP Less lamp
DF Double fuse, 208V, 240V, 480V	CSA Meets Canadian standards	DGC Charcoal gray	
EC Emergency circuit <sup>14</sup>	NOM Meets Mexican standards (consult factory)	DMB Medium bronze	
QRS Quartz restrike system <sup>14</sup>	IRTL Available for MH probe start shipping outside the U.S.	DNA Natural aluminum	
QRSTD QRS time delay <sup>14</sup>	<b>Ships separately<sup>17</sup></b>	DWK White	
PER NEMA twist-lock receptacle only <sup>14</sup>	PE1 NEMA twist-lock PE (120V-240V)	CR Enhanced corrosion resistance	
PD Power tray <sup>14</sup>	PE3 NEMA twist-lock PE (347V)	CRT Non-stick protective coating (black)	

For additional product information, visit [www.lithonia.com](http://www.lithonia.com).

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.



	KAD/KAC (flat)	KAC (drop)
EPA	1.2 ft <sup>2</sup> (0.11 m <sup>2</sup> )	1.4 ft <sup>2</sup> (0.13 m <sup>2</sup> )
Max. weight:	35.9 lbs (16.3 kg)	34 lbs (15.4 kg)



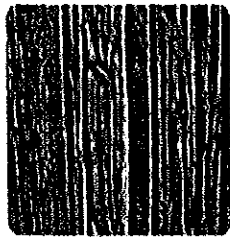
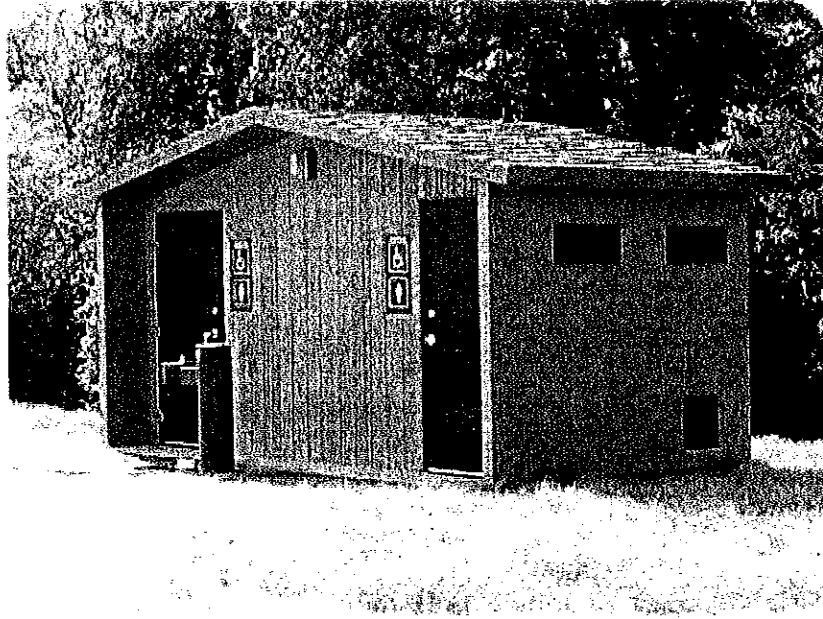
	KADT
EPA:	1.2 ft <sup>2</sup> (0.11 m <sup>2</sup> )
Max. weight:	35.9 lbs (16.3 kg)

Notes

- Not available with SCWA.
- Not available with 480V.
- Universal mogul base lamp allows KAD, KADT and KAC to be available with SCWA.
- Must be ordered with SCWA.
- Reduced jacket ED28 required for SR2, SR3, & SR4SC optics.
- Not applicable with L/LP.
- HS Option available
- Must specify CWI for us in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V
- Consult factory for available wattages.
- 9" arm required when two or more luminaires are oriented @90°. KADT only available with SPD04 and only available at 180° orientations
- May be ordered as accessory. Not available with KADT.
- Must specify finish.
- Maximum allowable wattage lamp included.
- Photocell not included.
- Only available with SR2, SR3, & SR4SC optics.
- May be ordered as accessory.
- Prefix with fixture name and size (e.g., KAD10G).

# PUBLIC RESTROOMS

EXTERIOR MATERIALS & COLORS



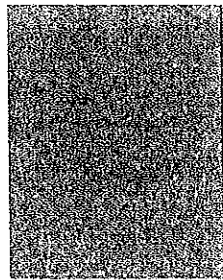
BARNWOOD

WALL TEXTURE



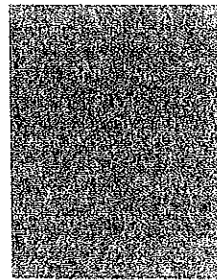
DELTA

ROOF TEXTURE



WESTERN  
WHEAT

WALL COLOR



WESTERN  
WHEAT

ROOF COLOR

RECEIVED

FEB 24 REC'D

# HAILEY RODEO PARK

RUSCITTO/LATHAM/BLANTON

ARCHITECTURA p.a.

P.O. BOX 419 SUN VALLEY, ID 83353  
(208) 726-5608