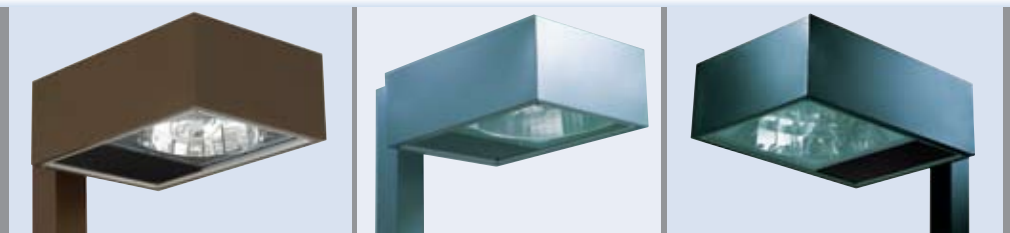


# SPAULDING LIGHTING

High Performance  
Area/Site Lighting

## **RAVEN** FULL CUTOFF AREA LIGHT

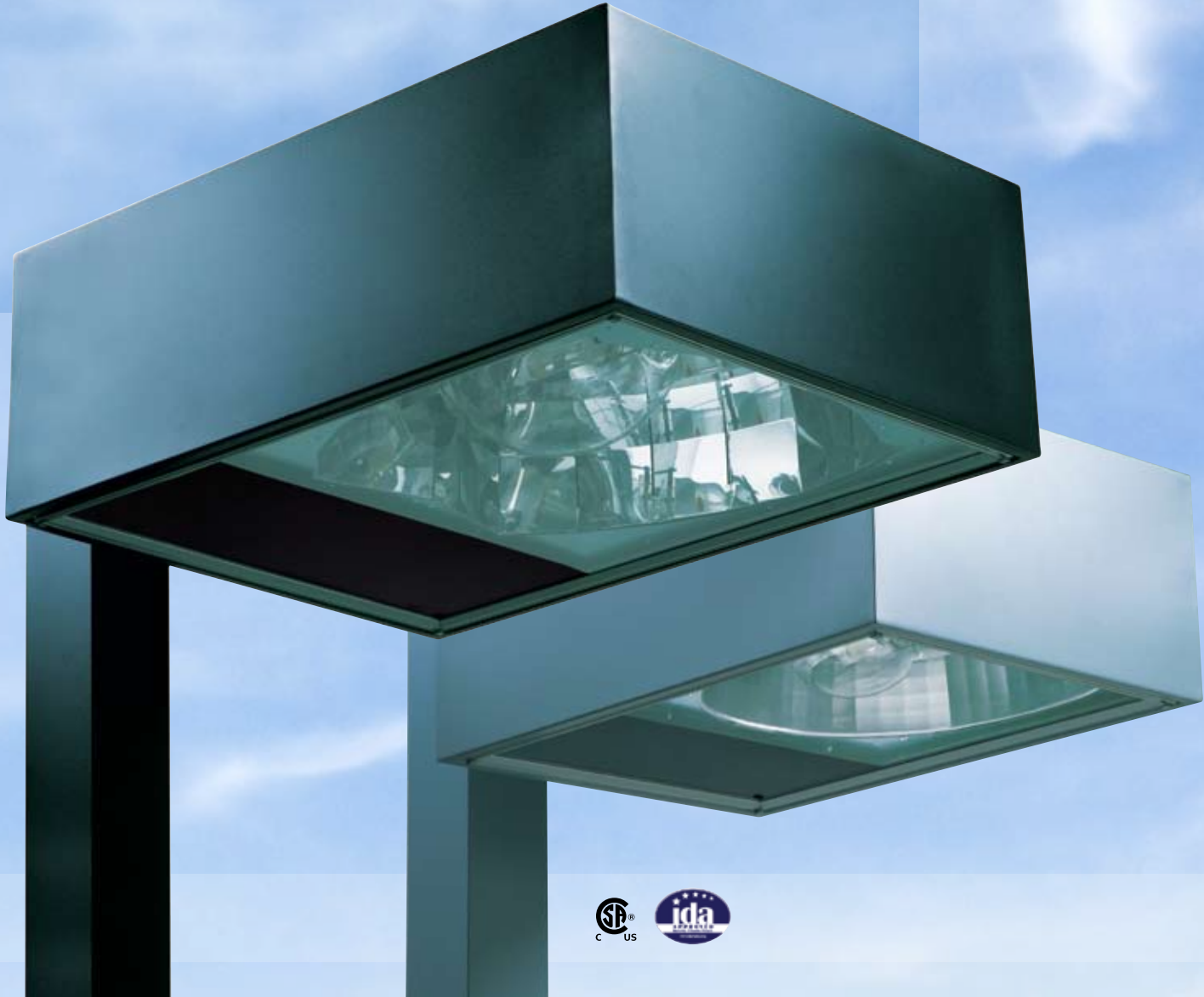


High Performance Reflectors

# RAVEN

## FULL CUTOFF AREA LIGHT

Clean lines, classic good looks, and sound construction prevail in the Raven family allowing the luminaire to blend seamlessly with many architectural designs and applications.



**MOUNTING** The luminaire housing attaches to all mounting hardware via two 1/2" diameter bolts/rods. Mounting options include rigid arm assemblies, knuckled arm assemblies for flat surfaces, knuckled arm assemblies for 2 3/8" O.D. tenon, wall bracket adapter, and round pole adapters ensuring maximum luminaire versatility. All mounting accessories provided with gasket between the housing and accessory.

**DOOR** Corrosion-resistant extruded aluminum door frame when closed, compresses the Raven's extruded silicone gasket against the housing, ensuring the optical assembly and electrical components are protected from moisture and contaminants, providing years of trouble-free service. Tempered flat glass lens includes internal coating of temperature resistant black silk-screening to hide electrical compartment.

**HOUSING** Available in two sizes, the Raven Series luminaire has a traditional rectilinear geometric shape that remains a staple of design. Clean lines, classic good looks, and sound construction prevail in the Raven family allowing the luminaire to blend seamlessly with many architectural designs and applications.

# Raven RCS/RCL Features and Options



PHOTO BUTTON OPTION  
(INSTALLED ON THE SIDE OF THE LUMINAIRE)



REVEAL AND EMBOSSED BAND  
OPTION



REMOTE POWR-PANL® OPTION WITH  
BALLAST AND SOCKET DISCONNECT



PHOTOCELL RECEPTACLE OPTION  
(INSTALLED AT THE TOP OF THE LUMINAIRE)



EMBOSSED BAND OPTION



INTERNAL HOUSE-SIDE SHIELDING  
OPTION



QUARTZ RESTRIKE LAMP OPTION



TOOL-FREE ENTRY, ZINC DOOR  
LATCH (STANDARD)



**ELECTRICAL** Energy efficient HID ballasts up to 1000 watts (housing dependent) from Metal Halide, Pulse Start Metal Halide, High Output Super Metal Halide, and High Pressure Sodium sources. Optional removable Powr-Panl® provided with quick connects on both ballast and socket leads. Additional options include fusing, photocell control, and quartz restrike lamp.

**FINISH** Durable Lektrocote® TGIC thermoset polyester powder paint finish assures long life and maintenance-free service. Standard finishes include Dark Bronze, Black, White, Gray, and Platinum Silver. Premium colors (Red, Forest Green) and custom colors available (see page 6).

# RAVEN

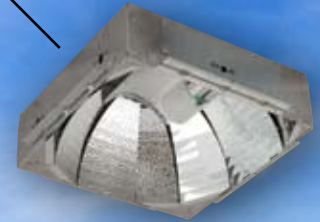
## FULL CUTOFF AREA LIGHT

Spaulding high performance segmented optics meet demanding specifications where uniformities of better than 4 to 1 and spill light control beyond the pole are important.

Design optimized for the horizontal 400w pulse start metal halide (ED28) lamp



Precision-engineered, field-rotatable high performance reflectors available in IESNA type II, III, IV and V (type III Shown)



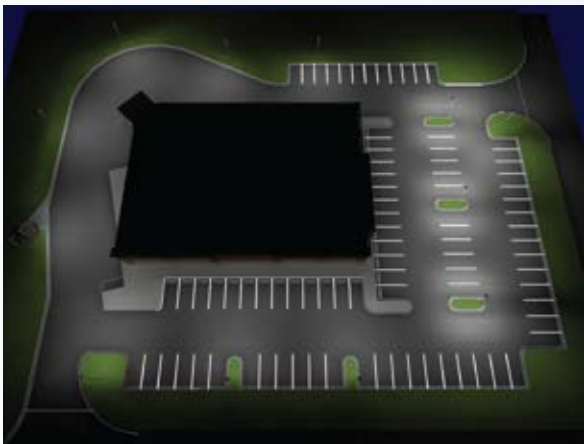
Rigid aluminum enclosure ensures repeatability and precise optical performance

## High Performance Reflectors

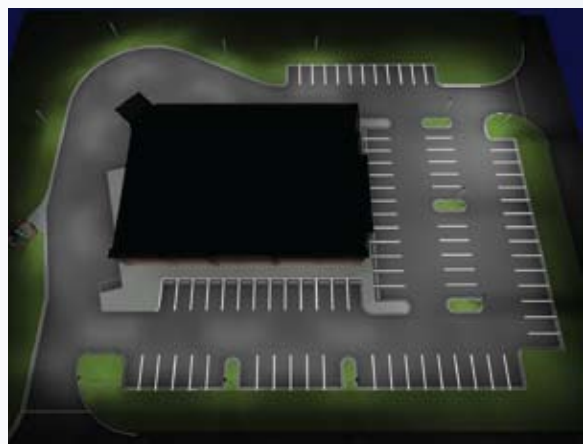
The Raven is available in eight different IDA approved optical selections, each uniquely designed to deliver different levels of performance to meet any budget or demanding lighting requirements. New high performance segmented optics in IESNA type III, IV and V offer the latest in reflector design, while producing industry leading uniformity in HID technology and excellent spill control behind the pole. These precision engineered reflectors are housed in a rugged aluminum enclosure to ensure proper alignment and long lasting durability so you can be sure you are getting maximum lighting performance.

The illustrations below are computer simulations of a typical retail store parking lot comparing the 400w Raven with high performance optics against a leading competitor's equivalent product mounted at 25 feet. The Raven with high performance optics produces an average fc reading of 2.5 with a better than 4 to 1 uniformity, while the leading competitor's segmented optics produced the same average foot-candle reading, however with a 5 to1 uniformity. Spaulding High Performance Optics deliver the right light exactly where it's needed!

### Competitor 400w

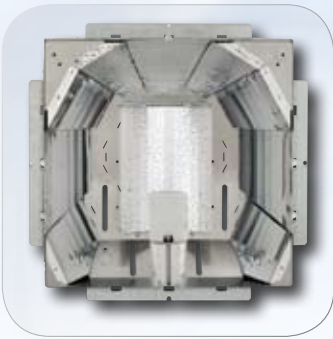


### RAVEN 400w High Performance Reflectors

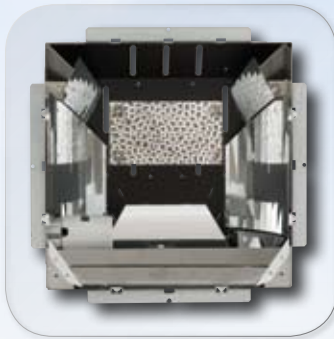


# High Performance Reflectors

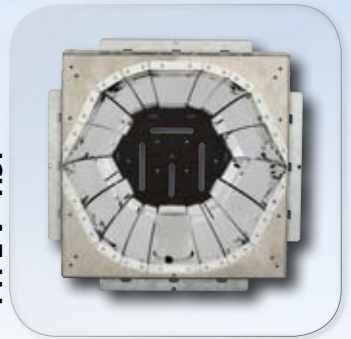
TYP III - H3P



TYPE IV - H4P



TYPE V - H5P

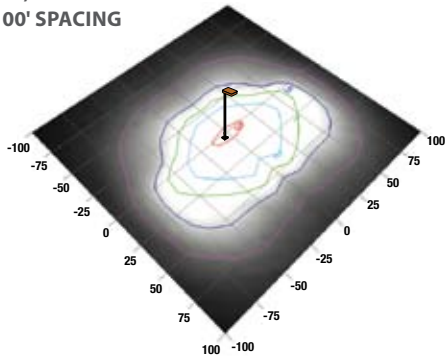


400 WATT METAL HALIDE LAMP  
31,000 LUMENS  
LLF = .65 (apply appropriate factor)  
25' mounting height

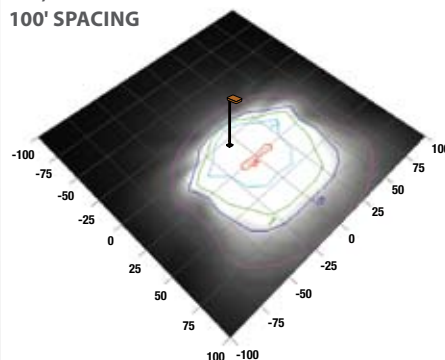
400 WATT METAL HALIDE LAMP  
31,000 LUMENS  
LLF = .65 (apply appropriate factor)  
25' mounting height

400 WATT METAL HALIDE LAMP  
31,000 LUMENS  
LLF = .65 (apply appropriate factor)  
25' mounting height

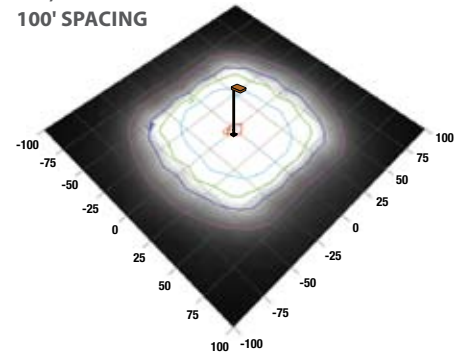
ISO, ONE LUMINAIRE  
100' SPACING



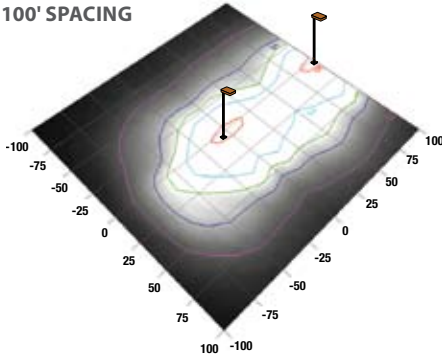
ISO, ONE LUMINAIRE  
100' SPACING



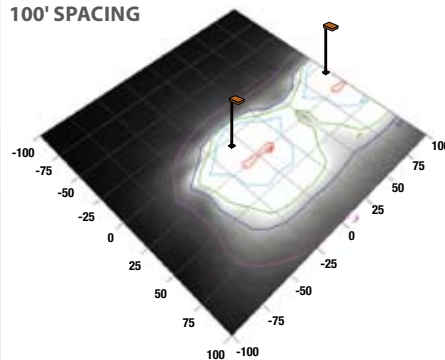
ISO, ONE LUMINAIRE  
100' SPACING



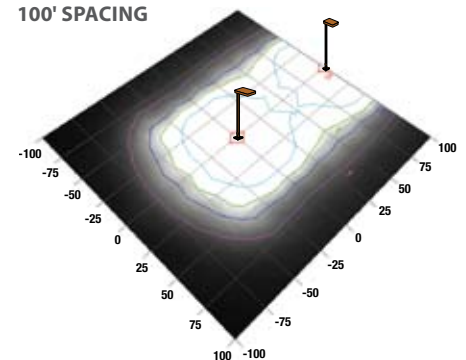
ISO, TWO LUMINAIRES  
100' SPACING



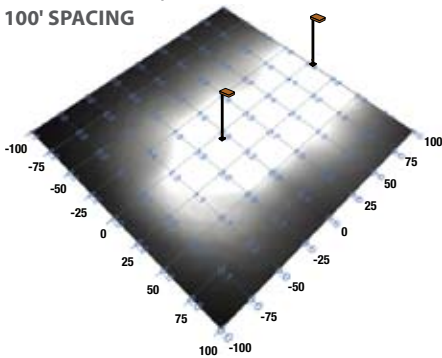
ISO, TWO LUMINAIRES  
100' SPACING



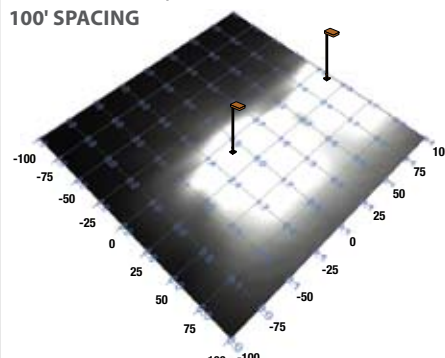
ISO, TWO LUMINAIRES  
100' SPACING



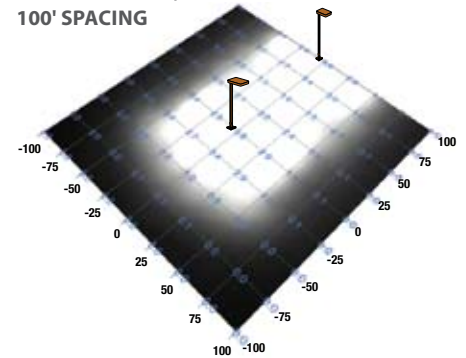
POINT TO POINT, TWO LUMINAIRES  
100' SPACING



POINT TO POINT, TWO LUMINAIRES  
100' SPACING



POINT TO POINT, TWO LUMINAIRES  
100' SPACING



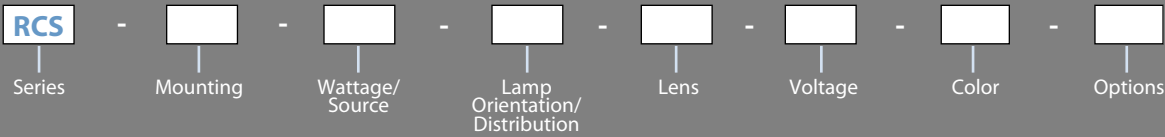
## MOUNTING HEIGHT CORRECTIONS FACTORS

MOUNTING HEIGHT (FEET)	15	20	25	30	35	40
MOUNTING HEIGHT (METERS)	4.6	6.1	7.6	9.1	10.7	12.2
FACTOR	2.78	1.56	1.00	0.69	0.51	0.39

NOTE: The distance between grid lines changes to equal the mounting height when using this correction factor table.

# ORDERING INFORMATION

## ORDERING EXAMPLE



### SERIES

**RCS** Raven Small (100-400w)

### MOUNTING

**A4** Arm Mount (includes 4" rigid arm)  
**A10<sup>2</sup>** Arm Mount (includes 10" rigid arm)  
**WB<sup>3</sup>** Wall Bracket (arm not required or included)  
**WBA4** Wall Bracket with 4" rigid arm  
**WB10** Wall Bracket with 10" rigid arm  
**0** No arm or wall bracket accessory

### WATTAGE/SOURCE

**PULSE START METAL HALIDE**  
**P10** 100w (ED-17)  
**P12** 125w (ED-17)  
**P15** 150w (ED-28)  
**P20** 200w (T-15)  
**P25** 250w (ED-28)  
**P32** 320w (ED-28)  
**P35** 350w (ED-28)  
**P40** 400w (ED-28)  
**HIGH PRESSURE SODIUM**  
**S10** 100w (ED-23 1/2)  
**S15** 150w (ED-23 1/2)  
**S25** 250w (ED-18)  
**S40** 400w (ED-18)

### LAMP ORIENTATION/DISTRIBUTION

**H2** Horizontal II  
**H2P** Horizontal II – High Performance Series (multi-faceted hydroformed)  
**H3** Horizontal III (hydroformed)  
**H3P** Horizontal III – High Performance Series (segmented)

### LAMP ORIENTATION/DISTRIBUTION CONT.

**H4** Horizontal IV (multi-piece)  
**H4P** Horizontal IV – High Performance Series (segmented) with integrated house-side shield  
**H5** Horizontal V (hydroformed)  
**H5P** Horizontal V – High Performance Series (segmented)

### LENS

**F** Flat

### VOLTAGE

**Q<sup>1</sup>** Quad-Tap<sup>®</sup> 120/208/240/277V  
**5** 480V  
**T<sup>1</sup>** Tri-Tap<sup>®</sup> 120/277/347V  
**E** 50Hz 220/240V (250, 400 & 1000w MH, PSMH & HPS only)  
**V<sup>1</sup>** Five-Tap - 120/208/240/277/480V (250 & 400w MH, SMH & HPS only)  
**0** No Ballast

### COLOR

**DB** Dark Bronze  
**BL** Black  
**WH** White  
**GR** Gray  
**PS** Platinum Silver  
**RD** Red (premium color)  
**FG** Forest Green (premium color)  
**CC** Custom Color (premium color)

### OPTIONS

**W1** 120V Wiring Prep  
**W2** 208V Wiring Prep

### OPTIONS CONT.

**W3** 240V Wiring Prep  
**W4** 277V Wiring Prep  
**W5** 480V Wiring Prep  
**W6** 347V Wiring Prep  
**RPA2** Round Pole Adapter (2¾"-3½")  
**RPA3** Round Pole Adapter (3¼"-3¾")  
**RPA4** Round Pole Adapter (3⅞"-4½")  
**RPA5** Round Pole Adapter (5")  
**RPA6** Round Pole Adapter (6")  
**F(X)** Fusing (replace X with voltage: 1-120, 2-208, 3-240, 4-277, 5-480, 6-347)  
**P(X)** Photo Button (replace X with voltage: 1-120, 2-208, 3-240, 4-277, 5-480, 6-347)  
**PR(X)** Photo Cell Receptacle (replace X with voltage: 1-120, 2-208, 3-240, 4-277, 5-480, 6-347)  
**RP** Power Panel  
**QZ** Quartz Restrike with 150w DC bayonet lamp  
**HS<sup>4</sup>** Internal House Side Shield (all except Type V distributions)  
**VG** Polycarbonate Vandal Guard  
**R(XX)** Reveal (replace XX with color designation) EB option must be chosen with reveal option  
**EB** Embossed Band  
**L** Lamp

- 1 Factory wired for highest voltage unless specified.
  - 2 Required for 90° configurations.
  - 3 FDMHL direct mount hardware kit required.
  - 4 Not needed with H4P optics.
- Note: All poles to be drilled with #2 pattern.**

### PHOTOCONTROL EQUIPMENT

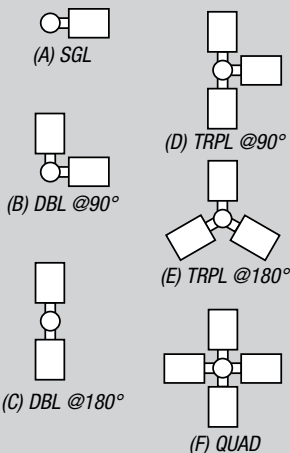
Catalog Number	Description
<b>PTL-1</b>	Photocontrol - Twist-Lock <sup>®</sup> Cell (120V)
<b>PTL-8</b>	Photocontrol - Twist-Lock <sup>®</sup> Cell (120-277V)
<b>PTL-5</b>	Photocontrol - Twist-Lock <sup>®</sup> Cell (480V)
<b>PTL-6</b>	Photocontrol - Twist-Lock <sup>®</sup> Cell (347V)
<b>PSC</b>	Shorting Cap - Twist-Lock <sup>®</sup>

### ACCESSORIES

(Must be ordered separately. For field installation.)

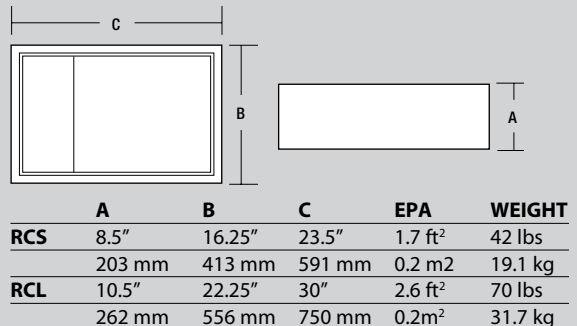
Catalog Number	Description
<b>RCS-HS-23</b>	Internal Lamp Shielding (RCS - H2 & H3 distributions)
<b>RCS-HS-2P</b>	Internal Lamp Shielding (RCS - H2P distributions)
<b>RCS-HS-4</b>	Internal Lamp Shielding (RCS - H4 distribution)
<b>RCS-PVG</b>	1/8" Polycarbonate Vandal Guard suspended 3" below door frame
<b>RCS-HS-3P</b>	Internal Lamp Shielding (RCS-H3P distribution)

### EPA VALUES



	RCS 4" ARM	RCS 10" ARM	RCL 4" ARM	RCL 10" ARM
<b>A</b>	1.9 ft <sup>2</sup>	2.1 ft <sup>2</sup>	2.8 ft <sup>2</sup>	3.0 ft <sup>2</sup>
<b>B</b>	N/A	3.1 ft <sup>2</sup>	N/A	4.7 ft <sup>2</sup>
<b>C</b>	3.8 ft <sup>2</sup>	4.2 ft <sup>2</sup>	5.6 ft <sup>2</sup>	6.0 ft <sup>2</sup>
<b>D</b>	N/A	5.0 ft <sup>2</sup>	N/A	7.6 ft <sup>2</sup>
<b>E</b>	4.6 ft <sup>2</sup>	4.8 ft <sup>2</sup>	N/A	7.4 ft <sup>2</sup>
<b>F</b>	N/A	5.0 ft <sup>2</sup>	N/A	7.6 ft <sup>2</sup>

### DIMENSIONS

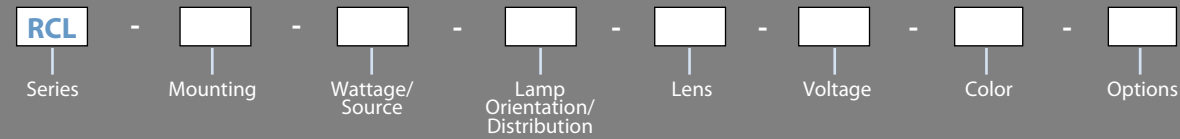


**NOTE: EPA and weight values do not include mounting arm.**  
 Four inch arm adds 0.2 ft<sup>2</sup> EPA. Ten inch arm adds 0.4 ft<sup>2</sup> EPA.



# ORDERING INFORMATION

## ORDERING EXAMPLE



### SERIES

**RCL** Raven Large (400-1000w)

### MOUNTING

**A4** Arm Mount (includes 4" rigid arm)  
**A10<sup>2</sup>** Arm Mount (includes 10" rigid arm)  
**WB<sup>3</sup>** Wall Bracket (arm not required or included)  
**WBA4** Wall Bracket with 4" rigid arm  
**WB10** Wall Bracket with 10" rigid arm  
**0** No arm or wall bracket accessory

### WATTAGE/SOURCE

#### METAL HALIDE

**H1K** 1000w (BT-56)

#### SUPER METAL HALIDE

**MS1K** 1000w (BT-56)

#### PULSE START METAL HALIDE

**P40** 400w (BT-37)

**P75** 750w (BT-37)

**P1K** 1000w (BT-37)

#### HIGH PRESSURE SODIUM

**S40** 400w (ED-18)

**S60** 600w (T-14)

**S75** 750w (BT-37)

**S1K** 1000w (E-25)

### LAMP ORIENTATION/DISTRIBUTION

**H2P<sup>4</sup>** Horizontal II

**H3P** Horizontal III – Performance Series (segmented)

**H4** Horizontal IV (multi-piece)

**H4P** Horizontal IV – Performance Series (multi-piece)

**H5<sup>4</sup>** Horizontal V (square)

**H5P** Horizontal V – High Performance Series (segmented)

### LENS

**F** Flat

### VOLTAGE

**Q<sup>1</sup>** Quad-Tap<sup>®</sup> 120/208/240/277V

**5** 480V

**T<sup>1</sup>** Tri-Tap<sup>®</sup> 120/277/347V

**E** 50Hz 220/240V (400W PSMH & HPS only)

**V<sup>1</sup>** Five-Tap 120/208/240/277/480V

**0** No Ballast

### COLOR

**DB** Dark Bronze

**BL** Black

**WH** White

**GR** Gray

**PS** Platinum Silver

**RD** Red (premium color)

**FG** Forest Green (premium color)

**CC** Custom Color (premium color)

### OPTIONS

**W1** 120V Wiring Prep

**W2** 208V Wiring Prep

**W3** 240V Wiring Prep

**W4** 277V Wiring Prep

**W5** 480V Wiring Prep

**W6** 347V Wiring Prep

**RPA2** Round Pole Adapter (2<sup>3</sup>/<sub>4</sub>"-3<sup>1</sup>/<sub>8</sub>"

**RPA3** Round Pole Adapter (3<sup>1</sup>/<sub>4</sub>"-3<sup>3</sup>/<sub>4</sub>"

**RPA4** Round Pole Adapter (3<sup>7</sup>/<sub>8</sub>"-4<sup>1</sup>/<sub>2</sub>"

**RPA5** Round Pole Adapter (5")

**RPA6** Round Pole Adapter (6")

**F(X)** Fusing (replace X with voltage: 1-120, 2-208, 3-240, 4-277, 5-480, 6-347)

**P(X)<sup>5</sup>** Photo Button (replace X with voltage: 1-120, 2-208, 3-240, 4-277)

### OPTIONS CONT.

**PR(X)** Photo Cell Receptacle (replace X with voltage: 1-120, 2-208, 3-240, 4-277, 5-480, 6-347)

**QZ** Quartz RS with lamp

**HS** Internal House-side Shield

**VG** Polycarbonate Vandal Guard

**R(XX)** Reveal (EB option must be chosen also)

**EB** Embossed Band

**L** Lamp

- 1 Factory wired for highest voltage unless specified.
  - 2 Required for 90° configurations.
  - 3 FDMLH direct mount hardware kit required.
  - 4 Housing requires compact 1000w lamp.
  - 5 400W Max. Not available in 480V.
- Note: All poles to be drilled with #2 pattern.**

### PHOTOCONTROL EQUIPMENT

Catalog Number	Description
<b>PTL-1</b>	Photocontrol - Twist-Lock <sup>®</sup> Cell (120V)
<b>PTL-8</b>	Photocontrol - Twist-Lock <sup>®</sup> Cell (120-277V)
<b>PTL-5</b>	Photocontrol - Twist-Lock <sup>®</sup> Cell (480V)
<b>PTL-6</b>	Photocontrol - Twist-Lock <sup>®</sup> Cell (347V)
<b>PSC</b>	Shorting Cap - Twist-Lock <sup>®</sup>

### ACCESSORIES

(Must be ordered separately. For field installation.)

Catalog Number	Description
<b>RCL-HS-23P</b>	Internal Lamp Shielding (RCL - H2P & H3P distributions)
<b>RCL-HS-4</b>	Internal Lamp Shielding (RCL - H4 distribution)
<b>RCL-HS-4P</b>	Internal Lamp Shielding (RCL - H4P distribution)
<b>RCL-PVG</b>	1/8" Polycarbonate Vandal Guard suspended 3" below door frame

## LEKTROCOTE<sup>®</sup> FINISH PROCESS

Lektrocote<sup>®</sup> is a proprietary process where the thermosetting, acid-functional polyester powder resin is electrostatically applied only after a thorough cleaning process. Luminaires receive a five-step wash with both acid and alkaline based liquid cleaners followed by the deposit of a thin layer of proprietary compound to promote maximum corrosion-resistance and paint adhesion. Finally, the decorative finish coat is applied.

Lektrocote<sup>®</sup> meets or exceeds the following standards:

- ASTM B-117** 1000 hour salt spray test
- ASTM B-2247** 1000 hour humidity test
- ASTM D-2794** Impact test resistant to 160 inch pounds
- ASTM D-522** Flexibility test
- AAMA 603** Blister/adhesion test

## COLOR SELECTIONS

- 5 standard (Bronze, Black, White, Gray, Platinum Silver)
- 2 premium (Red, Forest Green) and custom colors (consult factory) are available
- Actual colors may vary due to printing process
- All colors are textured except Platinum Silver and Red



- Shoebox & shoebox-pole combos are in stock for immediate shipment (contact factory)
- Quick-Ship (10 days) Made-to-order items available (contact factory)

# Hubbell Lighting Outdoor & Industrial Solutions

## WAREHOUSE, RETAIL, HAZARDOUS



[www.hubbellindustrial.com](http://www.hubbellindustrial.com)

## FLOODLIGHTING/WALL/LANDSCAPE



[www.hubbelloutdoor.com](http://www.hubbelloutdoor.com)

## LOW LEVEL PEDESTRIAN



[www.devine-ltg.com](http://www.devine-ltg.com)

## PRECISION FLOODLIGHTING/SITE LIGHTING



[www.sternerlighting.com](http://www.sternerlighting.com)

## SPORTS LIGHTING



[www.sportslighting.com](http://www.sportslighting.com)

## AREA LIGHTING



[www.spauldinglighting.com](http://www.spauldinglighting.com)

### Hubbell Lighting Inc. Distinguished Lighting Brands

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 Architectural Area Lighting  
 Beacon Products  
 Columbia Lighting  
 Compass Products  
 Devine Lighting  
 Dual-Lite  
 HomeStyle Lighting  
 Hubbell Building Automation  
 Hubbell Outdoor Lighting  
 Hubbell Industrial Lighting  
 Kim Lighting



Kurt Versen  
 Paragon Lighting  
 Precision Lighting  
 Prescolite  
 Progress Lighting  
 Security Lighting  
 Spaulding Lighting  
 Sportsliter Solutions  
 Sterner Lighting Systems  
 Thomasville Lighting  
 Whiteway

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 864-678-1000

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[www.hubbell.com.mx](http://www.hubbell.com.mx)

[www.spauldinglighting.com](http://www.spauldinglighting.com)