ATTACHMENT A
SOLE SOURCE FACILITY JUSTIFICATION TRANSMITTAL

Public Contract Code section 3400 provides, in pertinent part, that:

"(a) The Legislature finds and declares that it is the intent of this section to encourage contractors and manufacturers to develop and implement new and ingenious materials, products, and services that function as well, in all essential respects, as materials, products, and services that are required by a contract, but at a lower cost to taxpayers.

(b) No agency of the state, nor any political subdivision, municipal corporation, or district, nor any public officer or person charged with the letting of contracts for the construction, alteration, or repair of public works, shall draft or cause to be drafted specifications for bids, in connection with the construction, alteration, or repair of public works, (1) in a manner that limits the bidding, directly or indirectly, to any one specific concern, or (2) calling for a designated material, product, thing, or service by specific brand or trade name unless the specification is followed by the words "or equal" so that bidders may furnish any equal material, product, thing, or service. In applying this section, the specifying agency shall, if aware of an equal product manufactured in this state, name that product in the specification. Specifications shall provide a period of time prior to or after, or prior to and after, the award of the contract for submission of data substantiating a request for a substitution of "an equal" item. If no time period is specified, data may be submitted any time within 35 days after the award of the contract.

(c) Subdivision (b) is not applicable if the awarding authority, or its designee, makes a finding that is described in the invitation for bids or request for proposals that a particular material, product, thing, or service is designated by specific brand or trade name for any of the following purposes:

(2) In order to match other products in use on a particular public improvement either completed or in the course of completion."

McGraw-Edison Exterior Wall Packs

This is a sole source procurement because:

- ☐ This is a sole provider of a licensed, copyrighted or patented good or service.
- ☑ This is a sole provider of items compatible with existing equipment or systems.
- ☐ This is a sole provider of factory-authorized warranty service.
- ☐ This is a sole provider of goods or services that perform a unique function in order to meet the specialized needs of the District. Please provide specific detail below.

The McGraw-Edison Exterior Wall Packs, Model ISC Impact Elite are the District's current standard wall pack light fixture.

- ☑ There are overriding circumstances upon with the Board can find that the exception found in Public Contract Code section 3400 (c) (2) applies to the identified product(s). Please provide specific detail below as to what those circumstances are, and why this sole source procurement would be in the best interest of the District.

For aesthetics and consistency of parts and pieces having standard light fixtures on all campuses is highly recommended. The District has standardized on these fixtures for the past four (4) years. Use of other fixtures would interrupt uniformity throughout all of the campuses.

This is a restricted brand or trade name, and no substitutions are allowed because:

☑ The requested product is an integral repair part or accessory compatible with existing equipment or systems.

Existing Equipment/System: McGraw-Edison (Cooper Industries) Exterior Wall Packs
Manufacturer/Model Number: McGraw-Edison (Cooper Industries) ISC Impact Elite

☑ The District has standardized on the requested product, and use of another brand/model would require considerable time and funding to evaluate or implement. Please provide additional detail below.

Over the last four (4) years, the District has standardized on these exterior wall pack lights at all three campuses. Any change will impact the overall aesthetics around each campus and require additional storage and repair parts needed for on-hand inventory.

Supplier or Contractor Information:
Cooper Industries
600 Travis Street, Suite 5400
Houston, Texas 77002-1001
(713)209-8400

RECOMMENDATION
Sufficient evidence has been provided upon which the Board can find that the exception found in Public Contract Code section 3400 (c) (2) applies to the identified product(s). Approve a finding to authorize use of the above stated exception for Exterior Wall Packs in the MiraCosta Design Standards Manual for all the projects in the MM program. Require that said finding be included in all pertinent bid/proposal documents for those projects where such product(s) will be used.

SIGNATURE:

Tom Macias, Facilities Director — **Date** 9/14/18

Geoff Bachanas, PMO Director — **Date** 9/13/18

steinberg hart

ATTACHMENT B
SOLE SOURCE ARCHITECT/ENGINEERING JUSTIFICATION SUMMARY REPORT TRANSMITTAL

September 1, 2018

Re: McGraw-Edison Exterior Wall Packs

Within the Design & Construction Standards MiraCosta CCD has identified or designed various proprietary systems or products that meet specific District performance requirements, allow for seamless integration into existing systems, provide ease of maintenance, and afford a lower total cost of ownership. In these instances, the District is requesting that these systems and products shall be provided without substitution. The following Specification Section 26 56 00 is one that meets these special requirements.

Our experience working with other Colleges and Universities shows that single sources for some materials, products, equipment, and systems is a common approach to achieving best value.

We have reviewed the facility justification transmittal for the above-referenced item and believe that the District's sole-sourcing of this specification section meets the requirements for District's benefit as described above.

Sincerely,

Joe Sion
Associate Principal/Senior Manager

523 W 6th Street #245
Los Angeles CA 90014

MiraCosta College Design And Construction Standards

Item #4: Mcgraw Edison Exterior Wallpack

McGraw-Edison

SustainabLEDesign

Impact Elite Wall Series

Architectural Wall Mount Luminaires

Sole Source Item #6 McGraw Edison Exterior Wall Packs

COOPER Lighting

IMPACT ELITE WALL SERIES

FACADE | WALKWAY | EMERGENCY

ARCHITECTURAL WALL MOUNT LUMINAIRES

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ENVIRONMENTAL STEWARDSHIP
If energy reduction and resource conservation are a top priority, The Impact Elite Wall Series offers innovative sources and options to meet the specified need Incorporating Cooper Lighting's patent pending LightBAR™ technology, Impact Elite is tunable to exacting project requirements without compromising safety and security. Adding precise optical control, RoHS compliance, independently replaceable LightBARS and 100% component recyclability makes Impact Elite the most environmentally friendly wall product available.

PERFORMANCE + STYLE
The Impact Elite Wall Series of full cutoff wall luminaires provides a scaled family of energy efficient lighting solutions with classic architectural forms that marry performance and style. Offering traditional and LED sources, high performance optics and emergency egress options, the versatility of the Impact Elite Wall Series is unparalleled.

FLEXIBLE + RELEVANT FORMS
Offered in six [6] distinct optical distributions, five [5] unique sources and four [4] geometric shapes, Impact Elite provides a multitude of energy efficient lighting solutions for any architectural landscape. Small and medium forms are scaled proportionality to unify mounting requirements with design criteria.

Sole Source Item #6 McGraw Edison Exterior Wall Packs

LED LEADERSHIP

RELIABLE PRODUCTS THAT PERFORM TO EXPECTATION
From the exterior housing to the internal electrical components, Cooper Lighting selectively manufactures and qualifies premium grade components. Precision engineering practices and stringent testing standards generate superior performing luminaires with architectural design details and reliable quality that withstand the rigors of the outdoor environment.

INNOVATION IN ACTION
The Cooper name has stood for innovation, service and expertise for over 175 years. Today, Cooper Lighting's LED Innovation Center is home to the design, validation and manufacturing of proprietary LED technologies. Through changing times and technologies, Cooper answers the call to provide relevant, industry-leading solutions to evolving market needs.

BEST-IN-CLASS DESIGN + RELIABILITY
Precision design practices and rigorous reliability testing result in dependable luminaries that thrive in outdoor environments. The Impact Elite LED family is rated for operation in -30°C to 40°C ambient environments, comes equipped with 10kV transient surge protection and is backed by a five-year warranty from a world class manufacturer.

ENERGY SAVINGS + ENVIRONMENTAL STEWARDSHIP
The simplest and most effective way to reduce a lighting fixture's impact on the environment is to minimize its energy consumption. By incorporating Cooper Lighting's patent pending LED LightBAR™ technology, Impact Elite LED provides energy savings between 30-75% over standard HID sources.

SCALABLE ILLUMINATION
Each patented LED LightBAR™ optic renders the entirety of the pattern. As the number of LightBARs™ increases so too the application illuminance, allowing lumen and energy output to be scaled and optimized per application. Obtrusive spill light and glare is replaced by uniform, application specific illumination.

SUPERIOR EFFICIENCY + CONTROL
With efficiencies as high as 95%, patented AccuLED Optics™ are as much as 30% more efficient than traditional HID optical systems. Available in six [6] beam distributions, AccuLED Optics™ provide the flexibility and performance required for any outdoor application.

AccuLED Optics™

WARM WHITE COLOR
Lighting Designers, Architects and Specifying Engineers have long preferred light sources which provide a balanced spectral power distribution and warm white light. Typical LED solutions standardize on a cold blue 6000-6500K correlated color temperature [CCT] to maximize lumen output. Impact Elite LED provides warm white light at a standard 4000K CCT with no sacrifice in lumen output.

Sole Source Item #6 McGraw Edison Exterior Wall Packs

PERFORMANCE + VERSATILITY

DOWNLIGHTING APPLICATIONS
Architecturally designed wall mount luminaires illuminate pedestrian areas near the building without the visual interruption of poles or bulky fixture heads. Full cutoff, glare free optical performance ensures a safe and comfortable visual experience.

INVERTIBLE UPLIGHTING APPLICATIONS
The Impact Elite Wall Series is ideal for highlighting ceilings, canopies or building overhangs. High performance optical features deliver the visible feel of indirect illumination to damp location covered environments [Not available in LED configurations].

DOWNLIGHTING + UPLIGHT APPLICATION
Deliver compelling performance to the work plane while allowing architectural highlighting above with available 10%, 30% or 50% uplight options.

DARK SKY FRIENDLY ILLUMINATION
The Impact Elite Wall Series addresses the growing public concern over light trespass and sky glow [otherwise referred to as light pollution]. The Illuminating Engineering Society of North American [IESNA] classifies full cutoff illumination as zero light at or above the 90° plane. Full cutoff luminaires are recommended by the International Dark Sky Association [IDA] for their effectiveness in minimizing the effects of light pollution. A full cutoff rating for all forms, sizes and lamp combinations is achieved when the Impact Elite Wall Series is installed in downlighting applications.

DARK SKY COMPLIANT FCO

NOTE: In downlight applications only.

CURFEW COMPLIANCE
The Impact Elite Wall Series offers a broad selection of energy saving source solutions including triple tube compact fluorescent and LED technology. With heightened awareness on energy consumption, regulatory agencies are emphasizing the reduction of site lighting power consumption via power density limitations and curfew compliance mandates. Impact Elite rises to the challenge, when wired to independent utility building circuits, compact fluorescent models that incorporate the Circuit Switching [CSW] option or the Ballast Dimming [DIM-X] option, and LED luminaires equipped with the Bi-Level Switching [2L] option allow for maximum illumination at critical times and the flexibility to uniformly reduce levels during off-peak hours.

DIVERSE SOLUTIONS TO MEET DEMANDING MARKET NEEDS
Lighting legislation is on the rise with an increased focus on light pollution, safety and egress ordinances. Impact Elite Wall Series rises to the challenge offering more than fifteen [15] unique emergency egress solutions and a variety of dimming and shielding options to comply with rigid regulatory requirements.

UPLIGHT
[UPL10, UPL30, UPL50, ULG]
For uplight applications, a gasketed frosted lens provides up to 50% illumination to highlight building facades.

HOUSE-SIDE SHIELD [HS]
Silk screened house side tempered glass shield minimizes hot spots on wall surface.

WIRE GUARD [WG/IMT, WG/IMC]
Galvanized coated steel wire guard option prevents lens damage due to projected elements.

VANDAL SHIELD [VS/IMT, VS/IMC]
Door mounted 3/16" thick polycarbonate shield prevents lens damage from projectiles. Treated with a special UV inhibitor coating, UV degradation is minimized when exposed to UV emitting light sources.

SURFACE CONDUIT ENTRY [SC]
Two [2] 3/4" NPT threaded surface mount conduit side entry openings are a great solution where recessed wall box accessibility is not feasible. Thru-branch rated.

QUARTZ RESTRIKE
[Q, QMR, 2QMR, EM, EM/SC]
Quartz restrike [120V]. Single T4 or dual MR16 Halogen lamps allow adequate time for the HID lamp to re-ignite to full brilliance. EM option also lights at cold start. The emergency separate circuit [EM/SC] option allows for the quartz lamps to be wired to an independent emergency back-up power source.

MR16 RESTRIKE AND EMERGENCY OPTIONS
Impact Elite offers single or dual bi-pin MR16 lamps for emergency and restrike requirements. Low voltage emergency separate circuit [EM/SC/12V, 2EM/SC/12V] options utilize 12V DC lamps to provide illumination in emergency mode. For restrike configurations [2QMR/SC], one [1] MR16 illuminates upon the reactivation of the HID lamp while the secondary MR16 provides separate circuit emergency illumination upon loss of power.

COMPACT FLUORESCENT EMERGENCY BATTERY PACK
[CFEM, EMI40, 2CFEM, 2EMI40]
Integral UL924 emergency lighting NiCad battery pack provides emergency lighting illumination for one single lamp compact fluorescent light source. The CFEM battery pack is designed for 0°C / 32°F illumination for up to 57W. The EMI40 provides up to 57W of cold temperature -18°C / 0°F emergency back-up illumination. For dual 18W lamp operation use 2CFEM or 2EMI40.

OPTIONS [1]
[Factory installed and shipped complete with luminaire]
F=Single Fuse [120, 277, or 347V]
FF=Double Fuse [208, 240 or 480V]
P=Button Type Photocontrol [120, 208, 240 or 277V]
UPL10=10% Uplight
UPL30=30% Uplight
UPL50=50% Uplight
ULG=Uplight Glow [LED Only]
L=Lamp Included
TR=Tamper Resistant Fasteners
HS=House Side Shield
FR=Frosted Lens
2L=Bi-Level Switching Capable [LED Only]
7060=70 CRI / 6000K CCT [LED Only]
8030=80 CRI / 3000K CCT [LED Only]
CSW=Circuit Switching
DIM-X=CF Dimming Ballast [Must Specify # of Lamps]
SC=Surface Conduit Entry Taps [2] 3/4" NPT

EGRESS OPTIONS [1]
[Factory installed and shipped complete with luminaire]
Q=Quartz Restrike T4 Lamp
EM=Emergency Quartz Restrike T4 Lamp w/ Time Delay Relay
EM/SC=Emergency Separate Circuit T4 Lamp
QMR=Quartz Restrike MR16 Lamp
2QMR=Quartz Restrike w/ [2] MR16 Lamps
2QMR/SC=Quartz Restrike [1] MR16 and [1] MR16 Emergency Separate Circuit Lamp
EMMR=Emergency Quartz Restrike MR16 Lamp w/ Time Delay Relay
2EMMR=Emergency Quartz Restrike with [2] MR16 Lamps w/Time Delay Relay
2EMMR/SC=Emergency Quartz Restrike w/Time Delay Relay [1] MR16 and [1] MR16 Emergency Separate Circuit Lamp
EM/SC/MR=Emergency Separate Circuit MR16 Lamp
2EM/SC/MR=Emergency Separate Circuit with [2] MR16 Lamps
EM/SC/12V=Emergency Separate Circuit [12V]
2EM/SC/12V=[2] Emergency Separate Circuit MR16 Lamps [12V]
EMI40-XXX=CF Cold Weather Emergency Battery Pack [Must Specify 120 or 277V]
2EMI40-XXX=Emergency Cold Temperature UL924 Listed Power Pack, -18°C / 0°F, [2] CF Lamps
CFEM-XXX=Emergency Battery Pack [Must Specify 120 or 277V]
2CFEM-XXX=Emergency CF UL924 Listed Power Pack, 0°C / 32°F, [2] CF Lamps

NOTES: 1. Not all options and accessories are available with both the small and medium Impact Elite Wall Series. Consult the specification sheet for details.

Sole Source Item #6 McGraw Edison Exterior Wall Packs

SPECIFICATIONS + ENERGY SAVINGS

CONSTRUCTION
Two-piece die-cast aluminum housing and removable hinged door frame nest securely with precise tolerance control and repeatability. Hinged door frame inset for clean mating with housing surface and secured via two [2] captive stainless steel fasteners. Optional tamper resistant Torx™ head fasteners [TR] offer vandal resistant access to the electrical compartment.

HID + CF: Traditional source luminaires equipped with 1/8" clear, heat and impact resistant tempered flat glass lens combined with molded silicone gasket to seal the integrated optical assembly while ensuring peak optical performance.

LED: LED luminaires feature IP66 rated LightBARs, superior heat transfer and reliable operation in −30°C to 40°C ambient conditions.

OPTICAL
All Impact Elite Wall Series luminaires classify as IESNA full cutoff in downlight applications or are available with 10%, 30% or 50% uplight options for architectural highlighting of building details.

HID + CF: Traditional source luminaires offer custom engineered highly reflective anodized aluminum reflectors providing high efficiency Type II, Type III and Type IV distributions. Optional silk screened house side flat glass shield provides decreased wall brightness.

LED: LED luminaires incorporate AccuLED Optics, providing shaped distributions and scalability to meet exacting application requirements. Impact Elite LED is offered in 1–2 LightBAR configurations with a choice of six [6] high efficiency optical systems, including a family of back light control optics to decrease wall brightness.

ELECTRICAL
Integral hard mount electrical components are secured and grounded within the die-cast aluminum housing for optimal heat sinking and extended component life. All wiring is extended through a silicone grommet at the back of the housing to prevent entry of debris, moisture, dust and insects. Small fixtures available 50–175W HID, 26–84W CF and 1–2 LightBAR LED. Medium fixtures available 150–400W HID and 60–126W CF.

LED: Impact Elite LED is shipped standard with a replaceable circuit module [MA1253] incorporating internal fusing and MOV's rated to withstand 10kV of transient line surge.

MOUNTING
Gasketed and zinc plated rigid steel mounting attachment fits directly to 4" j-box or wall with the Impact Elite "Hook-N-Lock" system for fast installation and mounting in both traditional downlighting [wet location] or inverted uplighting [damp location only] mounting positions. Secured via two [2] captive corrosion resistant allen head set screws concealed from view, but accessible from bottom of fixture.

FINISH
Housing and door are protected with 5-stage Super TGIC polyester powder coat paint. Premium TGIC powder coat finishes withstand extreme climate changes while providing optimal color and gloss retention over the fixture's installed life. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult McGraw-Edison Architectural Colors Brochure for complete selection.

WARRANTY
Impact Elite LED feature a five-year limited warranty.

BK Black
AP Grey
BZ Bronze
WH White
DP Dark Platinum
GM Graphite Metallic

POWER AND LUMENS BY NUMBER OF LIGHTBARS

Number of LightBARs	Power [Watts]	DISTRIBUTION BL2	BL3	BL4	GZW	SLR/SLL
	7 LED LIGHTBAR					
C01	27	1,704	1,615	1,686	1,688	1,550
C02	54	3,408	3,230	3,372	3,375	3,099
	21 LED LIGHTBAR					
B01	27	1,770	1,625	1,720	1,725	1,571
B02	51	3,540	3,249	3,440	3,450	3,142

Sole Source Item #6 McGraw Edison Exterior Wall Packs

IMPACT ELITE SMALL—HID Ⓔ

ORDERING INFORMATION

SAMPLE NUMBER: IST-150-MP-MT-2S-GM

PRODUCT FAMILY	LAMP WATTAGE		LAMP TYPE	VOLTAGE [3]	Distribution	COLORS [add as suffix]	OPTIONS [see below]
ISC=Impact Elite Small Cylinder	MP	CF	MP=Pulse Start Metal Halide	120=120V	2S=Type II Segmented	AP=Grey	
ISS=Impact Elite Small Quarter Sphere	50=50W [1]	26=[1] 26W	HPS=High Pressure Sodium	208=208V		BZ=Bronze	
IST=Impact Elite Small Trapezoid	70=70W [1]	32=[1] 32W	MH=Metal Halide [2]	240=240V		BK=Black	
ISW=Impact Elite Small Wedge	100=100W	42=[1] 42W	CF=Compact Fluorescent	277=277V		DP=Dark Platinum	
	150=150W	52=[2] 26W		347=347V		GM=Graphite Metallic	
	HPS	64=[2] 32W		480=480V		WH=White	
	50=50W [1]	84=[2] 42W		DT=Dual-Tap [4]			
	70=70W [1]			MT=Multi-Tap [4]			
	100=100W			TT=Triple-Tap [4]			
	150=150W			E1=Electronic [120-277V] [5]			
	MH						
	175=175W [2]						

OPTIONS [Must be listed in the order shown and separated by a dash]

OPTIONS [add as suffix]
F=Single Fuse [120, 277 or 347V] [6]
FF=Double Fuse [208, 240 or 480V] [6]
P=Button Type Photocontrol [120, 208, 240 or 277V] [6]
UPL10=10% Uplight [7]
UPL50=50% Uplight [8]
L=Lamp Included
TR=Tamper Resistant Fasteners
HS=House Side Shield [9]
PL=Polycarbonate Lens [5, 9]

EMERGENCY OPTIONS [add as suffix]
Q=Quartz Restrike [1] T4 Lamp [10]
EM=Emergency Quartz Restrike [1] T4 Lamp with Time Delay Relay [10]
EM/SC=Emergency Separate Circuit [1] T4 Lamp [10, 11]
QMR=Quartz Restrike [1] MR16 Lamp [12, 13]
2QMR=Quartz Restrike [2] MR16 Lamps [12, 13]
2QMR/SC=Quartz Restrike [1] MR16 and [1] MR16 Emergency Separate Circuit Lamp [11, 12, 13]
EMMR=Emergency Quartz Restrike [1] MR16 Lamp with Time Delay Relay [12, 13]
2EMMR=Emergency Quartz Restrike [2] MR16 Lamps with Time Delay Relay [12, 13]
2EMMR/SC=Emergency Quartz Restrike with Time Delay Relay [1] MR16 and [1] MR16 Emergency Separate Circuit Lamp [11, 12, 13]
EM/SC/MR=Emergency Separate Circuit [1] MR16 Lamp [11, 13, 14]
2EM/SC/MR=Emergency Separate Circuit [2] MR16 Lamps [11, 13, 14]

12V DC EMERGENCY OPTIONS [add as suffix]
EM/SC/12V=Emergency Separate Circuit 12V Low Voltage [1] MR16 Lamp [13, 15]
2EM/SC/12V=Emergency Separate Circuit 12V Low Voltage [2] MR16 Lamps [11, 15]

COMPACT FLUORESCENT EMERGENCY OPTIONS [add as suffix]
EMI40-XXX=Emergency Cold Temperature UL924 Listed Power Pack, -18°C / 0°F, [1] CF lamp [6, 16]
CFEM-XXX=Emergency CF UL924 Listed Power Pack, 0°C / -32°F, [1] CF Lamp [6, 17]

DIMENSIONS

Trapezoid [IST]

Cylinder [ISC]

Wedge [ISW]

Quarter Sphere [ISS]

CERTIFICATIONS

25°C Ambient Temperature
UL and cUL Listed
ISO 9001
FCO [Full Cutoff] *

NOTE: * In downlight applications only.

WATTAGE TABLE

Lamp Type	Wattage
Pulse Start Metal Halide	50, 70, 100, 150W
High Pressure Sodium	50, 70, 100, 150W
Metal Halide	175W
Compact Fluorescent	[1] 26, [1] 32, [1] 42, [2] 26, [2] 32, [2] 42W

SHIPPING DATA

Approximate Net Weight	
Trapezoid	18 [8 kgs.]
Cylinder	18 [8 kgs.]
Wedge	18 [8 kgs.]
Quarter Sphere	18 [8 kgs.]

NOTE: 1 Lamp type not available in all wattages—see wattage table. HID lamps are medium-base. 480V not available in 50W or 70W. 2 175W is available for non-US markets only. 3 Products also available in non-US voltages and 50 Hz for international markets. Consult your Cooper representative for availability and ordering information. 4 Dual-tap ballast is 120/277V wire 277V. Multi-tap ballast is 120/208/240/277V wired 277V. Triple-tap ballast is 120/277/347V wired 347V. 5 Available with CF Option only. In cold temperatures compact fluorescent lamps produce lower illumination levels. 6 Must specify voltage. 7 Available on Trapezoid and Cylinder forms only. Not available with CF lamps. 8 Available on Cylinder form only. Not available with dual CF lamps. Not available with EMI40 or CFEM. 9 Down lighting position only. 10 [1] 120V Lamp, 100W maximum quartz lamp. Utility power may need to cycle to allow HID lamp to cool in warm climates. Not available with CF Option. Lamp supplied by others. 11 Leads out of the back of the unit for auxiliary 120V. 12 Not available with CF lamps. 13 [1] or [2] 120V Lamps, GU10 base, 50W maximum each. Lamps supplied by others. 14 Not available with S2, S4, 84W CF wattages. 15 [1] or [2] 12V bi-pin lamp, socket GU5.3 base, 35W maximum. Power supplied by low voltage DC source Lamps supplied by others. 16 Specify 120 or 277V, -18°C minimum temperature. Not available with UPL10. 17 Specify 120 or 277V, 0°C minimum. Not available with UPL10. 18 Specifications and dimensions subject to change without notice.

IMPACT ELITE MEDIUM—HID Ⓔ

ORDERING INFORMATION

SAMPLE NUMBER: IMT-150-MP-MT-3S-GM

PRODUCT FAMILY	LAMP WATTAGE [1]		LAMP TYPE	VOLTAGE [3]	Distribution	COLORS [add as suffix]	OPTIONS + ACCESSORIES [see below]
IMC=Impact Elite Medium Cylinder	MP	HPS	MP=Pulse Start Metal Halide	120=120V	HID	AP=Grey	
IMT=Impact Elite Medium Trapezoid	150=150W	250=250W	HPS=High Pressure Sodium	208=208V	3S=Type III Segmented	BZ=Bronze	
	175=175W	400=400W	MH=Metal Halide [2]	240=240V	4S=Type IV Segmented	BK=Black	
	200=200W	CF	CF=Compact Fluorescent	277=277V	CF	DP=Dark Platinum	
	250=250W	60=[1] 60W		347=347V	2S=Type II Segmented [6]	GM=Graphite Metallic	
	320=320W	70=[1] 70W		480=480V	4S=Type IV Segmented [6]	WH=White	
	350=350W	85=[1] 85W		DT=Dual-Tap [4]			
	400=400W	96=[3] 32W		MT=Multi-Tap [4]			
	MH	114=[2] 57W		TT=Triple-Tap [4]			
	175=175W [2]	120=[1] 120W		E1=Electronic [120-277V] [5]			
	250=250W [2]	126=[3] 42W					
	400=400W [2]						

OPTIONS + ACCESSORIES [Must be listed in the order shown and separated by a dash]

OPTIONS [add as suffix]
F=Single Fuse [120, 277 or 347V] [7]
FF=Double Fuse [208, 240 or 480V] [7]
P=Button Type Photocontrol [120, 208, 240 or 277V] [7]
UPL10=10% Uplight
UPL30=30% Uplight [8]
L=Lamp Included
HA=40°C Ambient [9]
FR=Frosted Lens [10]
TR=Tamper Resistant Fasteners
HS=House Side Shield [11]
CSW=Circuit Switching [12]
DIM-X=CF Dimming Ballast [Must Specify # of Lamps] [13]
SC=Surface Conduit Entry Taps [2] 3/4" NPT [14]

EMERGENCY OPTIONS [add as suffix]
Q=Quartz Restrike [1] T4 Lamp [15, 16]
EM=Emergency Quartz Restrike [1] T4 Lamp with Time Delay Relay [15, 16]
EM/SC=Emergency Separate Circuit [1] T4 Lamp [15, 16, 17]
QMR=Quartz Restrike [1] MR16 Lamp [16, 18]
2QMR=Quartz Restrike [2] MR16 Lamps [16, 18]
2QMR/SC=Quartz Restrike [1] MR16 and [1] MR16 Emergency Separate Circuit Lamp [16, 17, 18]
EMMR=Emergency Quartz Restrike [1] MR16 Lamp with Time Delay Relay [16, 18]
2EMMR=Emergency Quartz Restrike [2] MR16 Lamps with Time Delay Relay [16, 18]
2EMMR/SC=Emergency Quartz Restrike with Time Delay Relay [1] MR16 and [1] MR16 Emergency Separate Circuit Lamp [16, 17, 18]
EM/SC/MR=Emergency Separate Circuit [1] MR16 Lamp [16, 17, 18]
2EM/SC/MR=Emergency Separate Circuit [2] MR16 Lamps [16, 17, 18]

12V DC EMERGENCY OPTIONS [add as suffix]
EM/SC/12V=Emergency Separate Circuit 12V Low Voltage [1] MR16 Lamp [16, 17, 19]
2EM/SC/12V=Emergency Separate Circuit 12V Low Voltage [2] MR16 Lamps [16, 17, 19]

COMPACT FLUORESCENT EMERGENCY OPTIONS [add as suffix]
EMI40-XXX=Emergency Cold Temperature UL924 Listed Power Pack, -18°C / 0°F, [1] CF lamp [7, 20]
2EMI40-XXX=Emergency Cold Temperature UL924 Listed Power Pack, -18°C / 0°F, [2] CF Lamps [7, 21]
CFEM-XXX=Emergency CF UL924 Listed Power Pack, 0°C / 32°F, [1] CF Lamp [7, 22]
2CFEM-XXX=Emergency CF UL924 Listed Power Pack, 0°C / 32°F, [2] CF Lamps [7, 23]

ACCESSORIES [order separately]
WG/IMT=Wire Guard [Trapezoid Only] [24]
WG/IMC=Wire Guard [Cylinder Only] [24]
VS/IMT=Vandal Resistant Shield [Trapezoid Only] [25]
VS/IMC=Vandal Resistant Shield [Cylinder Only] [25]

DIMENSIONS

Trapezoid [IMT]

Cylinder [IMC]

CERTIFICATIONS

25°C Ambient Temperature
UL and cUL Listed
ISO 9001
FCO [Full Cutoff] *

NOTE: * In downlight applications only.

WATTAGE TABLE

Lamp Type	Wattage
Pulse Start Metal Halide	150, 175, 200, 250, 320, 350, 400W
High Pressure Sodium	175, 250, 400W
Metal Halide	250, 400W
Compact Fluorescent	[1] 57, [1] 60, [1] 70, [1] 85, [1] 120, [2] 57, [3] 32, [3] 42W

SHIPPING DATA

Approximate Net Weight	
Trapezoid	42 [19 kgs.]
Cylinder	48 [22 kgs.]

NOTE: 1 Lamp type not available in all wattages. See wattage table. All HID Metal Halide lamps are mogul-base, reduced envelope ED-28 except 200W Pulse Start Metal Halide is T15. All HID High Pressure Sodium lamps are mogul-base ED-18. 2 175, 250 and 400W available for non-US markets only. 3 Products also available in non-UL voltages and 50 HZ for international markets. Consult your Cooper representative for availability and ordering information. 4 Dual-tap ballast is 120/277V wired to 277V. Multi-tap ballast is 120/208/240/277V wired to 277V. Triple-tap ballast is 120/277/347V wired to 347V. 5 Available with CF option only. 6 Type II = 60, 70, 85, 96, 114 or 126W CF only. Type IV = 60, 85, 120W CF only. In cold temperatures compact fluorescent lamps provide lower illumination levels 7 Must specify voltage. 8 Type III only. Not available with CF lamps. 9 Rated for 40°C for 250W and below fixture. Not available with CF lamps. 10 Not available with 320W thru 400W or 114 or 126W CF option. 11 Not available with 320W thru 400W. 12 Each ballast independently wired. Available on 96, 114 or 126W CF wattages. 13 Specify CF option 96 or 126W, not available with HS, FR or VS options. Must specify number of lamps. 14 Trapezoid: Not available in Type IV 320W through 400W. Not available in Type III with F1, F2 with 320W through 400W. Cylinder: Not available in Type IV 320W through 400W. Not available in Type III with PE 320W through 400W. 175-250W requires thru-wire rating of 120°C. 320-400W requires rating of 140°C. 15 [1] 120V lamp, 150W maximum quartz lamp. Utility power may need to cycle to allow HID lamp to cool in warm climates. 16 Emergency lamps supplied by others. 17 Leads out of the back of the fixture to auxiliary power. 18 [1] or [2] 120V lamps, GU10 base, 50W maximum each. Lamp supplied by other. 19 Power supplied by low voltage DC source [supplied by others]. [1] or [2] 12V bi-pin socket GU5.3 base lamps, 35W maximum. Lamps supplied by others. 20 Specify 120 or 277V, -18°C minimum temperature, not available with UPL10 or CSW option, 57W CF maximum. 21 Specify 120 or 277V, -18°C minimum temperature, operates [2] 32W 4-pin lamps or less. not available with UPL10, CSW option. Lamps supplied by others. 22 Specify 120 or 277V, 0°C minimum, not available with UPL10 or CSW option, 57W CF maximum. 23 Specify 120 or 277V, 0°C minimum, not available with UPL10 or CSW option, supports [2] 18W CF lamps. 24 Not available with VS option. 25 Not available with 320 thru 400W. Not available with wire guard. 26 Specifications and dimensions subject to change without notice.

Sole Source Item #6 McGraw Edison Exterior Wall Packs

IMPACT ELITE SMALL—LED

ORDERING INFORMATION

SAMPLE NUMBER: IST-B02-LED-E1-BL3-GM

PRODUCT FAMILY
ISC=Impact Elite Small Cylinder
ISS=Impact Elite Small Quarter Sphere
ISW=Impact Elite Small Wedge
IST=Impact Elite Small Trapezoid

NUMBER OF LIGHTBARS [1, 2]
B01=[1] 21 LED LighBAR
B02=[2] 21 LED LighBARs
C01=[1] 7 LED LighBAR
C02=[2] 7 LED LighBARs

LAMP TYPE
LED=Solid State Light Emitting Diodes

VOLTAGE
E1=Electronic [120-277V]
347=347V
480=480V

DISTRIBUTION
BL2=Type II w/Back Light Control
BL3=Type III w/Back Light Control
BL4=Type IV w/Back Light Control
GZW=Wall Grazer Wide
SLL=90° Spill Light Eliminator Left
SLR=90° Spill Light Eliminator Right

FINISH [add as suffix]
AP=Grey
BZ=Bronze
BK=Black
DP=Dark Platinum
GM=Graphite Metallic
WH=White

OPTIONS + ACCESSORIES [see below]

OPTIONS + ACCESSORIES [Must be listed in the order shown and separated by a dash]

OPTIONS [3]
P=Button Type Photocontrol [120, 208, 240 or 277V] [4]
TR=Tamper Resistant Fasteners
ULG=Uplight Glow [5]
2L=Bi-Level Switching Capable [6]
7060=70 CRI / 6000K CCT [7]
8030=80 CRI / 3000K CCT [7]
LCF=LightBAR Cover Plate Matches Housing Finish
OSB=Occupancy Sensor Standard with Back Box Matching Housing Finish [8]
BBB-XXX=Emergency LED Power Pack (UL924 listed) 0°C/32°F Standard with Back Box Matching Housing Finish [9, 10, 11]
CWB-XXX=Emergency LED cold temperature power pack (UL924 listed) -20°C/-4°F Standard with Back Box Matching Housing Finish [9, 12]

ACCESSORIES [13]
MA1253=10kV Circuit Module Replacement
MA1254-XX=Thruway Back Box—Impact Elite Trapezoid [14]
MA1255-XX=Thruway Back Box—Impact Elite Cylinder [14]
MA1256-XX=Thruway Back Box—Impact Elite Quarter Sphere [14]
MA1257-XX=Thruway Back Box—Impact Elite Wedge [14]

DIMENSIONS

Trapezoid [IST]

Cylinder [ISC]

Wedge [ISW]

Quarter Sphere [ISS]

CERTIFICATIONS

UL and cUL Listed
ISO 9001
IP66 LightBARs
ARRA Compliant

ENERGY DATA

Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120-277V/50 & 60Hz, 347V/60Hz, 480V/60Hz
40°C Ambient Temperature Rating
-30°C Minimum Temperature

AMBIENT DATA

Ambient Temperature	Lumen Multiplier
10°C	1.04
15°C	1.03
25°C	1.00
40°C	0.96

SHIPPING DATA

Approximate Net Weight	
1-2 Bars	16 [8 kgs.]

NOTE: 1 Standard 4000K CCT and nominal 70 CRI. 2 21 LED LightBAR powered at 350mA, 7 LED LightBAR powered at 1 A. 3 Add as suffix. 4 Must specify voltage. 5 Provides 10% uplight in 2 bar [B02 or C02] configurations and 20% uplight in 1 bar [B01] configurations [ISC and IST only]. 6 Only available in 2 bar [B02 or C02] configurations. 7 Consult factory for lead times and lumen multiplier. 8 Only available in 2 BAR [B02 or C02] configuration; streetside LightBAR will be wired to sensor. Time delay factory setting is 15 minutes. 9 Not available with OSB. 10 Specify 120 or 277V, 0°C minimum temperature. 11 Consult factory for availability. 12 Specify 120 or 277V, -20°C minimum temperature. 13 Order separately. 14 Specify finish (color) in place of "XX". 15 Specifications and dimensions subject to change without notice.

25% PCRF

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COOPER Lighting

Sole Source Item #6 McGraw Edison Exterior Wall Packs

McGraw-Edison

DESCRIPTION

The Impact Elite family of wall luminaires is the ideal complement to site design. Incorporating modular LightSquares technology, the Impact Elite luminaire provides outstanding uniformity and energy-conscious illumination. Combined with a rugged construction, the Impact Elite luminaire is the ideal facade and security luminaire for zones surrounding schools, office complexes, apartments and recreational facilities. UL/cUL listed for wet locations.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction
Heavy-wall, die-cast aluminum housing and removable hinged door frame for precise tolerance control and repeatability. Hinged door inset for clean mating with housing surface and secured via two captive fasteners. Optional tamper-resistant Torx™ head fasteners offer vandal resistant access to the electrical chamber.

Optics
Choice of 10 patented, high-efficiency AccuLED Optics™ distributions. Optics are precisely designed to shape the light output, maximizing efficiency and application spacing. AccuLED Optics technology creates consistent distributions with the scalability to meet customized application requirements. Offered Standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 3000K, 5000K and 5700K CCT.

Electrical
LED drivers mount to die-cast aluminum back housing for optimal heat sinking, operation efficacy, and prolonged life. Standard drivers feature electronic universal voltage (120-277V 50/60Hz), 347V 60Hz or 480V 60Hz operation, greater than 0.9 power factor, less than 20% harmonic distortion, and are suitable for operation in -40°C to 40°C ambient environments. All fixtures are shipped standard with 10kV/10kA common – and differential – mode surge protection. LightSquares feature an IP66 enclosure rating and maintain greater than 90% lumen maintenance at 60,000 hours per IESNA TM-21. Emergency egress options for -20°C ambient environments and occupancy sensor available.

Mounting
Gasketed and zinc plated rigid steel mounting attachment fits directly to 4" j-box or wall with the Impact Elite "Hook-N-Lock" mechanism for quick installation. Secured with two captive corrosion resistant black oxide coated allen head set screws concealed but accessible from bottom of fixture.

Finish
Cast components finished in a five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult the McGraw-Edison Architectural Colors brochure for the complete selection.

Warranty
Five-year warranty.

DIMENSIONS

Cylinder

Quarter Sphere

Trapezoid

Wedge

HOOK-N-LOCK MOUNTING

ISC/ISS/IST/ISW
IMPACT ELITE LED

1 LightSquare
Solid State LED

WALL MOUNT LUMINAIRE

CERTIFICATION DATA
UL/cUL Listed
LM79 / LM80 Compliant
IP66 LightSquare
DesignLights Consortium® Qualified*
ISO 9001

ENERGY DATA
Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120-277V/50 & 60Hz, 347V/60Hz, 480V/60Hz
-40°C Minimum Temperature
40°C Ambient Temperature Rating

SHIPPING DATA
Approximate Net Weight:
18 lbs. (8 kgs.)

*www.designlights.org

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Sole Source Item #6 McGraw Edison Exterior Wall Packs

POWER AND LUMENS

1 LightSquare (AF)		Cylinder (ISC) and Quarter Sphere (ISS)						Trapezoid (IST) and Wedge (ISW)					
Drive Current (mA)		350	450	600	800	1000	1200	350	450	600	800	1000	1200
Power (Watts)	120-277V	20.3	25.5	33.4	43.9	55.1	66.2	20.3	25.5	33.4	43.9	55.1	66.2
Current (A)	120V	0.17	0.22	0.29	0.38	0.48	0.56	0.17	0.22	0.29	0.38	0.48	0.56
	277V	0.09	0.10	0.13	0.17	0.21	0.25	0.09	0.10	0.13	0.17	0.21	0.25
Power (Watts)	347V or 480V	23.3	28.7	36.6	49.5	60.7	70.1	23.3	28.7	36.6	49.5	60.7	70.1
Current (A)	347V	0.07	0.08	0.11	0.15	0.18	0.21	0.07	0.08	0.11	0.15	0.18	0.21
	480V	0.05	0.06	0.08	0.11	0.13	0.16	0.05	0.06	0.08	0.11	0.13	0.16
Optics													
T2	Lumens	2,336	2,934	3,827	4,791	5,663	6,444	2,498	3,136	4,091	5,122	6,054	6,889
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2
T3	Lumens	2,385	2,994	3,906	4,889	5,779	6,577	2,504	3,144	4,101	5,133	6,068	6,905
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2
T4FT	Lumens	2,360	2,963	3,866	4,839	5,720	6,509	2,530	3,177	4,145	5,188	6,133	6,979
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2
T4W	Lumens	2,386	2,996	3,908	4,892	5,783	6,581	2,500	3,139	4,095	5,126	6,059	6,895
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2
SL2	Lumens	2,257	2,834	3,697	4,628	5,470	6,225	2,413	3,030	3,953	4,948	5,849	6,656
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2
SL3	Lumens	2,220	2,787	3,636	4,552	5,380	6,122	2,365	2,970	3,874	4,849	5,732	6,523
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2
SL4	Lumens	2,110	2,649	3,456	4,326	5,113	5,818	2,234	2,805	3,660	4,581	5,415	6,162
	BUG Rating	B0-U0-G1	B0-U0-G1	B0-U0-G1	B0-U0-G1	B0-U0-G1	B0-U0-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2
SLL/SLR	Lumens	1,990	2,498	3,259	4,080	4,823	5,488	2,154	2,705	3,529	4,418	5,222	5,942
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2
RW	Lumens	2,380	2,988	3,898	4,880	5,768	6,564	2,465	3,095	4,037	5,054	5,974	6,798
	BUG Rating	B2-U0-G0	B2-U0-G0	B2-U0-G0	B2-U0-G0	B2-U0-G0	B2-U0-G0	B3-U1-G1	B3-U1-G1	B3-U1-G1	B3-U1-G1	B3-U1-G1	B3-U1-G1

LUMEN MAINTENANCE

Current	Ambient Temperature	25000 Hours*	50000 Hours*	60000 Hours*	100000 Hours*	Theoretical L70 (Hours)*
Up to 1.2A	Up to 40°C	>95%	>91%	>90%	>83%	20,4000

*Data calculated based on TM-21 calculator.

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
10 C	1.02
15 C	1.01
25 C	1.00
40 C	0.99

THRUWAY BACK BOX

ORDERING INFORMATION

Sample Number: ISC-AF-1200-LED-E1-T3-BZ

Product Family [1]	Light Engine	Drive Current	Lamp Type	Voltage	Distribution	Color
ISC=Impact Elite LED Small Cylinder **ISS**=Impact Elite LED Small Quarter Sphere **IST**=Impact Elite LED Small Trapezoid **ISW**=Impact Elite LED Small Wedge	**AF**=(1) LightSquare	**350**=Drive Current Factory Set to 350mA **450**=Drive Current Factory Set to 450mA **600**=Drive Current Factory Set to 600mA **800**=Drive Current Factory Set to 800mA **1000**=Drive Current Factory Set to 1000mA **1200**=Drive Current Factory Set to 1200mA [2]	**LED**=Solid State Light Emitting Diodes	**E1**=Electronic (120-277V) **347**=347V [2] **480**=480V [2,3]	**T2**=Type II **T3**=Type III **T4FT**=Type IV Forward Throw **T4W**=Type IV Wide **SL2**=Type II w/Spill Control **SL3**=Type III w/Spill Control **SL4**=Type IV w/Spill Control **SLL**=90° Spill Light Eliminator Left **SLR**=90° Spill Light Eliminator Right **RW**=Rectangular Wide Type I	**AP**=Grey **BZ**=Bronze **BK**=Black **DP**=Dark Platinum **GM**=Graphite Metallic **WH**=White

Options (Add as Suffix)	Accessories (Order Separately) [17]
7030=70 CRI / 3000K CCT [4] **7050**=70 CRI / 5000K CCT [4] **7060**=70 CRI / 5700K CCT [4] **8030**=80 CRI / 3000K CCT [4] **PER7**=NEMA 7-PIN Twistlock Photocontrol Receptacle [2,5,6] **P**=Button Type Photocontrol (Available in 120, 208, 240 or 277V. Must Specify Voltage) [2,6] **HA**=50°C High Ambient [7] **AHD145**=After Hours Dim, 5 Hours, 50% [8] **AHD245**=After Hours Dim, 6 Hours, 50% [8] **AHD255**=After Hours Dim, 7 Hours, 50% [8] **AHD355**=After Hours Dim, 8 Hours, 50% [8] **MS/DIM-LXX**=Motion Sensor for Dimming Operation [9,10,11] **LWR-LW**=LumaWatt Pro Wireless Sensor, Wide Lens for 8' - 16' Mounting Height [6,11,12] **LWR-LN**=LumaWatt Pro Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height [6,11,12] **BBB**=Battery Pack with Back Box (Specify 120V or 277V) [13] **CWB**=Cold Weather Battery Pack with Back Box (Specify 120V or 277V) [14] **LCF**=LightSquare Trim Plate Matches Housing Finish **HSS**=Factory Installed House Side Shield [15] **ULG**=Uplight Glow [5,6] **TR**=Tamper Resistant Hardware **X**=Driver Surge Protection (6kV) Only [16]	**MA1253**=10kV Circuit Module Replacement **MA1254-XX**=Thruway Back Box - Impact Elite Trapezoid **MA1255-XX**=Thruway Back Box - Impact Elite Cylinder **MA1256-XX**=Thruway Back Box - Impact Elite Quarter Sphere **MA1257-XX**=Thruway Back Box - Impact Elite Wedge **FSIR-100**=Wireless Configuration Tool for Occupancy Sensor

NOTES:
1. Standard 4000K CCT and greater than 70 CRI.
2. Not available with ULG option.
3. Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
4. Exentended lead times apply.
5. Not available with ISS or ISW.
6. Not available with LWR-XX or MS/DIM-LXX.
7. Suitable for 50°C provided no options other than motion sensor are included and driver output set to 1.A or less.
8. Requires the use of P photocontrol or the PER7 photocontrol receptacle with photocontrol accessory. Not available with 350mA drive current. See After Hours Dim supplemental guide for additional information.
9. Specify lens in place of XX. Round to next highest option based on mounting height. Available options are 08, 20 and 40W.
10. The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
11. Includes integral photocell.
12. LumaWatt Pro wireless sensors are factory installed and requiring network components in appropriate quantities. See www.eaton.com/lighting for LumaWatt Pro application information.
13. LED standard integral battery pack is rated for minimum operating temperature 32°F (0°C). Operates downlight for 90-minutes.
14. LED cold weather integral battery pack is rated for minimum operating temperature -4°F (-20°C). Operates downlight for 90-minutes.
15. Only for use with SL2, SL3 and SL4 distributions. The LightSquare trim plate is painted black when the HSS option is selected.
16. Removes additional surge module.
17. Specify color in place of XX.

Sole Source Item #6 McGraw Edison Exterior Wall Packs