TYPE: AA2, AASL

McGRAW-EDISON® energy solutions

Catalog #		Type
Project		
Comments		Date
Prepared by		

DESCRIPTION

Galleria's beauty and versatility make it an excellent choice for roadway and general area lighting applications. An aesthetic reveal in the formed aluminum housing gives the Galleria a distinctive look while a variety of mounting options and lamp wattages provide maximum flexibility.

Galleria's superior light distributions makes it the optimum choice for almost any small, medium or large area lighting application.

SPECIFICATION FEATURES

Construction
HOUSING: Formed aluminum housing with stamped reveal has interior-welded seams for structural integrity and is finished in premiumTGIC polyester powder coat. U.L. listed and CSA certified for wet locations. DOOR: Formed aluminum door has heavy-duty hinges, captive retaining screws and is finished in premiumTGIC polyester powder coat. (Spider mount unit has steel door.)

Electrical
BALLASTTRAY: Ballast tray is hard-mounted to housing interior for easier operation.

Optical
REFLECTOR: Choice of 14 high efficiency optical systems utilizing horizontal and vertical lamp orientations. Optional high efficiency segmented optical systems constructed of premium 95% reflective anodized aluminum sheet. Optical segments are rigidly mounted inside a thick gauge aluminum housing for superior protection. All segment faces are clean of rivet heads, tabs or other means of attachment which may cause streaking in the light distribution. Standard with mogul-base socket. All optical modules feature quick disconnect wiring plugs and are field rotatable in 90° increments. LENS: Convex tempered glass lens or flat glass.

Mounting
Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during assembly. Specify arm-included mounting for contractor-friendly single carton packaging of housing and arm.

GSS/GSM/GSL
GALLERIA SQUARE

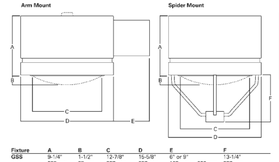
70 - 1000W
Pulse Start Metal Halide
High Pressure Sodium
Metal Halide

ARCHITECTURAL AREA LUMINAIRE

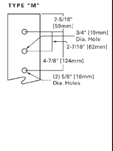
DARK SKY COMPLIANT FCO Full Cutoff

NOTE: In all flat glass configurations only.

DIMENSIONS



ARM DRILLING



Fixture	A	B	C	D	E	F
GSS	9-1/4" 235mm	1-1/2" 38mm	12-7/8" 327mm	15-5/8" 397mm	6" or 9" 152mm or 229mm	13-1/4" 337mm
GSM	11" 279mm	3-1/2" 89mm	19-1/4" 489mm	21-3/4" 552mm	6" or 14" 152mm or 356mm	15" or 16" 381mm or 406mm
GSL	14-1/2" 368mm	4-1/4" 108mm	25-7/8" 657mm	27" 686mm	6" or 14" 152mm or 356mm	18-3/4" or 19-3/4" 476mm or 502mm

NOTE: Top cap used on GSM with 1000W flat glass vertically lamped optics only.

WATTAGE TABLE

Fixture	Lamp Type	Wattage
GSS (Galleria Small)	Pulse Start Metal Halide (MP)	70, 100, 150W
	High Pressure Sodium (HPS)	70, 100, 150W
	Metal Halide (MH)	175W
GSM (Galleria Medium)	Pulse Start Metal Halide (MP)	70, 100, 150, 175, 200, 250, 320, 350, 400, 450, 750, 875, 1000W
	High Pressure Sodium (HPS)	70, 100, 150, 250, 400, 750, 1000W
	Metal Halide (MH)	175, 250, 400, 1000W
GSL (Galleria Large)	Pulse Start Metal Halide (MP)	250, 320, 350, 400, 450, 750, 1000W
	High Pressure Sodium (HPS)	250, 400, 750, 1000W
	Metal Halide (MH)	250, 400, 1000W

COOPER Lighting
www.cooperlighting.com

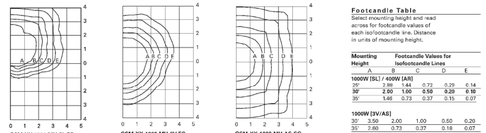
GSS / GSM / GSL GALLERIA SQUARE

MOUNTING CONFIGURATIONS

E.P.A. TABLE

	Single (w/arm where applicable)	2 @ 180°	2 @ 90°	3 @ 120°	3 @ 90°	4 @ 90°
GSS	1.7	3.4	3.4	4.6	4.6	5.2
GSM	2.9	5.8	6.8	9.2	9.2	10.4
GSL	4.4	8.8	9.8	13.7	13.7	15.6

PHOTOMETRICS



GSM-XX-1000-MH-SQ-SG
1000-Watt MH
110,000-Lumen Clear Lamp
Area Square
Flat Glass

Footcandle Table
Select mounting height and read across for footcandle values of each isofootcandle line. Distance in units of mounting height.

Mounting Height	Footcandle Values for Isofootcandle Lines A	B	C	D	E
1000W (BL) / 400W (AS)					
25'	2.80	1.44	0.72	0.29	0.14
30'	2.00	1.00	0.50	0.20	0.10
35'	1.46	0.73	0.37	0.15	0.07
1000W [3V/AS]					
30'	3.00	2.00	1.00	0.50	0.20
35'	2.60	0.73	0.37	0.18	0.07
40'	2.00	1.00	0.50	0.20	0.10

GSS-XX-1000-MH-SG/FG
1000-Watt MH
110,000-Lumen Clear Lamp
Spill Light Eliminator
Flat Glass

GSM-XX-1000-MH-3V/FG
1000-Watt MH
110,000-Lumen Clear Lamp
Type III Vertical
Flat Glass

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2012-06-21 10:06:09

NOTE: Specifications and dimensions subject to change without notice.
Visit our web site at www.cooperlighting.com
Customer First Center 1121 Highway 74 South Peachtree City, GA. 30269 770.486.4800 FAX 770.486.4801

TYPE: WW

McGRAW-EDISON®

Catalog #		Type
Project		
Comments		Date
Prepared by		

DESCRIPTION

The IMPACT Elite Trapezoid cutoff wall luminaire makes an ideal complement to site design. Rugged construction and full cutoff classified optics provide facade and security lighting for light restricted zones surrounding schools, office complexes, apartments, and recreational facilities. U.L. and cUL Listed for wet locations in down mount applications and damp locations in up mounted applications.

SPECIFICATION FEATURES

Construction
Two-piece die-cast aluminum housing and removable hinged door frame rests securely for 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. 1/8" clear, heat and impact resistant tempered flat glass lens combine with molded silicone gasket to seal the integrated optical assembly, while ensuring peak optical performance.

Electrical
Integral hard mount electrical components are secured and grounded within the die-cast aluminum housing for optimal heat sinking and extended component life. Minimum starting temperatures are -40°C (-40°F) for HPS and -30°C (-22°F) for MP. Compact fluorescent luminaires feature electronic universal 120-277V high efficiency 50/60Hz ballast with -18°C (-0°F) minimum starting temperature. Available in 50-175 HID or 26-84 CF. Emergency power pack available for 26-64 CF.

Optical
Premium anodized 95% reflective aluminum optical assemblies provide high efficiency Type II distribution. Optional silk screened house side flat glass shield provides decreased wall brightness. All Impact Elite Wall Series luminaires classify as IESNA full cutoff in downlight applications. Available with 10% or 50% uplight options for architectural highlighting of building details.

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) 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 premiumTGIC polyester powder coat paint. PremiumTGIC 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.

IST
IMPACT ELITE TRAPEZOID

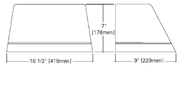
50 - 175W
Pulse Start Metal Halide
Metal Halide
High Pressure Sodium
26 - 84W
Compact Fluorescent

FULL CUTOFF
WALL MOUNT LUMINAIRE

DARK SKY COMPLIANT FCO Full Cutoff

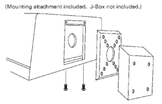
NOTE: In downlight applications only.

STANDARD DIMENSIONS

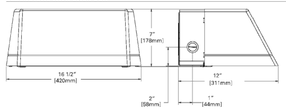


HOOK-N-LOCK MOUNTING

(Mounting attachment included. J-Box not included.)



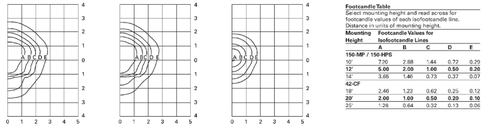
DIMENSIONS WITH BACK BOX



COOPER Lighting
www.cooperlighting.com

PHOTOMETRICS (Complete IES files available at www.cooperlighting.com)

IST IMPACT ELITE TRAPEZOID



IST-150-MP-XX-2S
150 - Watt MP
14,000-Lumen Clear Lamp

IST-150-HPS-XX-2S
150 - Watt HP
16,000-Lumen Clear Lamp

IST-42-CF-XX-2S
42 - Watt CF
3,200-Lumen Lamp

Footcandle Table
Select mounting height and read across for footcandle values of each isofootcandle line. Distance in units of mounting height.

Mounting Height	Footcandle Values for Isofootcandle Lines A	B	C	D	E
150-MP / 150-HPS					
10'	3.00	2.88	1.44	0.72	0.29
12'	5.00	2.00	1.00	0.50	0.20
14'	3.66	1.46	0.73	0.37	0.07
42-CF					
18'	2.46	1.23	0.62	0.25	0.12
20'	2.00	1.00	0.50	0.20	0.10
22'	1.26	0.64	0.32	0.13	0.06

ORDERING INFORMATION

Sample Number: IST-100-MP-120-2S-GM

Product Family
IST=Impact Elite Small Trapezoid

Lamp Wattage [1]
50=50W [2]
70=70W [2]
100=100W
150=150W
175=175W [1] CF
26=(1)26W
32=(1)32W
42=(1) 42W
52=(2) 26W
64=(2) 32W
84=(2) 42W

Lamp Type
MP=Pulse Start Metal Halide
HPS=High Pressure Sodium
MH=Metal Halide [1]
CF=Compact Fluorescent

Voltage [3]
120=120V
208=208V
240=240V
277=277V
347=347V
480=480V
DT=Dual-Tap [4]
MT=Multi-Tap [4]
TT=Triple-Tap [4]
ET=Electronic (120-277V) [5]

Distribution
2S=Type II Segmented

Colors (add as suffix)
AP=Grey
BZ=Bronze
BK=Black
DP=Dark Platinum
GM=Graphite Metallic
WH=White

Options
F=Fusing + Fuse, Specify Voltage (120, 277, or 347V) [4]
FH=Double Fuse, Specify Voltage (208, 240 or 480V) [4]
P=Button Photocontrol (120, 208, 240 or 277V) [4]
L=Lamp included
TR=Tamper Resistant Fasteners
UPL10=10% Uplight
HS=House Side Shield Glass [6]
PL=Polycarbonate Lens [7]
Q=Quartz Restrike (1) T4 Lamp [8]
EM=Emergency Quartz Restrike (1) T4 Lamp with Time Delay Relay [9]
EMSC=Emergency Separate Circuit (1) T4 Lamp [8, 9]
QMR=Quartz Restrike (1) MR16 Lamp [10, 11]
2QMR=Quartz Restrike (2) MR16 Lamps [10, 11]
2QMR/SC=Quartz Restrike (1) MR16 Lamp and (1) Emergency Separate Circuit MR16 Lamp [8, 10, 11]
EMMR=Emergency Quartz Restrike (1) MR16 Lamp with Time Delay Relay [10, 11]
2EMMR=Emergency Quartz Restrike (2) MR16 Lamps with Time Delay Relay [10, 11]
EM/SC/MR=Emergency Separate Circuit (1) MR16 Lamp [8, 11, 12]
2EM/SC/MR=Emergency Separate Circuit (2) MR16 Lamps [8, 11, 12]
2EMMR/SC=Emergency Quartz Restrike with Time Delay Relay (1) MR16 and (1) MR16 Emergency Separate Circuit Lamp [8, 10, 11]
EM/SC/12V=Emergency Separate Circuit 12V Low Voltage (1) MR16 Lamp [8, 10]
2EM/SC/12V=Emergency Separate Circuit 12V Low Voltage (2) MR16 Lamps [8, 10]
EM40-XXX=Emergency Cold Temperature (UL924 Listed) Power Pack -18°C/0°F, (1) CF Lamp [13]
CFEM-XXX=Emergency CF Power Pack (UL924 Listed) (1) CF Lamp, 0°C/32°F [13]
2EM140-XXX=Emergency Cold Temperature power pack (UL924 listed), -18°C/0°F, (2) CF Lamps, with Back Box matching housing finish [14, 15]
2CFEM-XXX=Emergency CF power pack (UL924 listed) 0°C/32°F, (2) CF Lamps, with Back Box matching housing finish [14, 15]

Accessories [16]
MA1254-XX=Throughwire back box - Impact Elite Trapezoid

Notes:
1 HID lamps are medium base. 175W MH is available for non-U.S. markets only.
2 Not available with 480V.
3 Products also available in non-US voltages and 50HZ for international markets. Consult your Cooper Representative for availability and ordering information.
4 Dual-tap ballast is 120/277V wired 277V. Multi-tap 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 Down lighting position only.
8 (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.
9 Leads out of the back of the unit for auxiliary power.
10 Not available with CF lamps.
11 (1) or (2) 120V lamps, CU70 base, 50W maximum each. Lamps supplied by others.
12 Not Available with 52, 64, 84 CF wattages.
13 (1) or (2) 13V 4-pin lamp, socket GU5.3 base, 35W maximum. Power supplied by low voltage DC source (supplied by others). Lamps supplied by others.
14 Specify 120 or 277V, 0°C minimum temperature. Not available with UPL10.
15 Specify 120 or 277V, (0°C) minimum temperature. Not available with UPL10.
16 Not available in 347V configuration.
17 Available in 50CF only.
18 Order separately. Replace "XX" with color designation.

TECHNICAL DATA
UL/1598 Listed, CUL Listed
25°C Maximum Ambient Temperature
External Supply Wiring 90°C Minimum
Down Mounted – Wet Location
Up Mounted – Damp Location

ENERGY DATA
High Reactance Ballast Input Watts
50W HPS-HPF (60 Watts)
50W MP HPF (72 Watts)
70W HPS-HPF (91 Watts)
70W MP HPF (90 Watts)
100W HPS-HPF (130 Watts)
100W MP HPF (133 Watts)
150W NPS HPF (190 Watts)
150W MP HPF (188 Watts)

Electronic Ballast Input Watts
26W CF HPF (29 Watts)
32W CF HPF (36 Watts)
42W CF HPF (46 Watts)
52W CF HPF (55 Watts)

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

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2012-06-14 10:01:06

NOTE: Specifications and dimensions subject to change without notice.
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Customer First Center 1121 Highway 74 South Peachtree City, GA. 30269 770.486.4800 FAX 770.486.4801

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2012-06-14 10:51:06

LUMINAIRE SCHEDULE

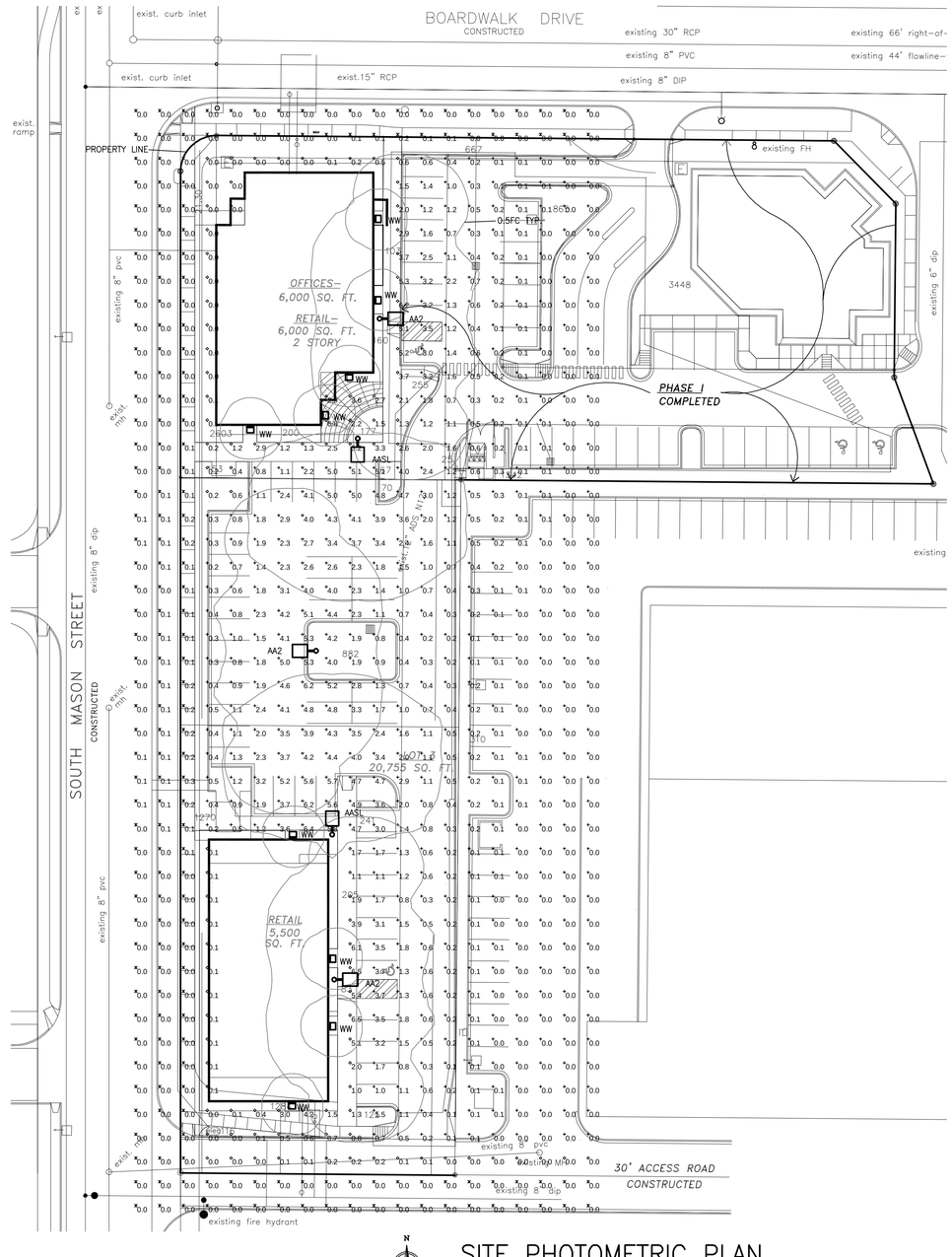
Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
	AA2	3	McGraw Edison GSM-XX-250-MP-XX-2S-FG	MEDIUM ARCHITECTURAL AREA LUMINAIRE - TYPE II DISTRIBUTION	250 WATT PULSE-START CLEAR ED-28 HORIZONTAL BURN	GSM-XX-250-MP-XX-2S-FG.ies	22000	1.00	283
	AASL	2	McGraw Edison GSM-XX-250-MP-XX-SL-FG	MEDIUM ARCHITECTURAL AREA LUMINAIRE - SPILL LIGHT ELIMINATOR	250 WATT PULSE-START CLEAR ED-28 HORIZONTAL BURN	GSM-XX-250-MP-XX-SL-FG.ies	22000	1.00	283
	WW	9	McGraw Edison IST-26-CF-XX-2S	IMPACT ELITE WALL SERIES - TRAPEZOID	CF26DT/E/IN/827 42 WATTS	IST-42-CF-XX-2S.ies	1800	1.00	26

STATISTICS

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Bldg. Surrounds	◇	0.8 fc	6.8 fc	0.0 fc	N / A	N / A
Bopundary Spill	✳	0.0 fc	0.3 fc	0.0 fc	N / A	N / A
Parking / Drive	+	1.0 fc	6.4 fc	0.0 fc	N / A	N / A

LUMINAIRE LOCATIONS

No.	Label	MH	Tilt
1	AA2	22.0	0.0
2	AASL	22.0	0.0
6	WW	8.0	0.0



N

SITE PHOTOMETRIC PLAN

SCALE: 1"=30'-0"

SRB CONSULTING ENGINEERING
MECHANICAL • ELECTRICAL • PLUMBING
37127 Cullison Ridge Road
Windsor, CO 80550
PH: 970.686.1004
Fax: 970.427.3169
Email: srbllc@qwestoffice.net

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CLIENT:

ARCHITECTURE WEST, L.L.C.
4710 S. COLLEGE AVE.
FT. COLLINS, CO

PROJECT TITLE:

BOARDWALK CROSSING AT MASON STREET
PROJECT DEVELOPMENT PLAN / FINAL DEVELOPMENT PLAN

DRAWING TITLE:

SITE PHOTOMETRIC PLAN

DRAWN BY:	CW	SCALE:	AS NOTED
DESIGNED BY:	CW	DATE:	4/16/13
CHECKED BY:	LS	PROJECT NO:	13016
CADD FILENAME:	E1.01 SITE PHOTOMETRIC 13016		
DRAWING NO:	**E-1.01**		