



Weaver

CONSTRUCTION MANAGEMENT

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SUBMITTAL TRANSMITTAL

February 16, 2012

Submittal #: 16521-002

PROJECT: **Harold Thompson Regional WRF**
Birdsall Rd.
Fountain, CO 80817
Job No. 2908

ENGINEER: **GMS, Inc.**
611 No. Weber St., #300
Colorado Springs, CO 80903
719-475-2935 Roger Sams

OWNER: **Lower Fountain Metropolitan
Sewage Disposal District**
901 S. Santa Fe Ave.
Fountain, CO 80817
719-382-5303 James Heckman

CONTRACTOR: **McDade Woodcock, Inc.**
7222 Commerce Center Drive, #245
Colorado Springs, CO 80909
719-264-1236

SUBJECT: Exterior Lighting for EM Building - Type C

SPEC SECTION: 16521 - Exterior Lighting

PREVIOUS SUBMISSION DATES: none

DEVIATIONS FROM SPEC: ___ YES x NO

CONTRACTOR'S STAMP: This submittal has been reviewed by Weaver Construction Management and, unless indicated otherwise, has been found to be in conformance with the intent of the contract documents.

Contractor's Stamp:

Engineer's Stamp:

Date:

Reviewed by: John Jacob

(X) Reviewed Without Comments

() Reviewed With Comments

ENGINEER'S
COMMENTS: _____



Cat.#	LMC 150S5 1 LP	Approvals
Job	HDT RWRP EM BLDG	Type
		C



SPECIFICATIONS

Intended Use:

Full cutoff perimeter or entry lighting for 10-15ft mounting heights that require high light output and maximum energy efficiency. Laredo LMC LED provides low installation costs with little or no maintenance and great energy savings. Ideal for schools, factories, hospitals, warehouses and retail applications.

Construction:

Decorative die cast aluminum housing and door. Rugged design protects internal components and provides excellent thermal management for long life. 70% lumen maintenance at 50,000 hours minimum. 800 series powder paint finishes provide lasting appearance in outdoor environments. Five standard finishes include: Bronze, Black, Gray, White and Platinum. Multiple options customize including a tool-free latch, which allows re-lamping of HID units from the ground, photocontrol for energy savings, integral ballast back-up battery for fluorescent units, fusing, quartz standby and EM sockets for remote power, lamps and five standard finishes.

Optics:

LED: 18 High Power LEDs deliver 2039 lumens and combination of optical lenses and reflectors deliver light in a rectangular pattern with better than 3 to 1 max to min uniformity. 5000K/70 CRI LEDs provide excellent color rendition at 46 lumens per watt.

HID/CFL: Vertical lamp position (lamp is optional on HID and CFL units) provides maximum HID performance and life. Standard, removable front shield on single lamp units, reduces forward beam projection while maintaining lateral throw, if desired.

Distribution:

Full cutoff distribution - flat glass and optics provide wide spread with an environmentally friendly light control. IDA compliant.

Electrical:

Wide selection of wattage and sources including LED, pulse start electronic metal halide and fluorescent systems (see below).

LED Amp Draw: 0.4 AMPS max

Optional battery for emergency egress - 120V or 277V - provides 90 minutes/615 lumens

Installation:

Three 1/2" conduit hubs (top and sides), allow feed-thru surface wiring capability on HID and CFL units. Foam gasket for sealing to smooth surfaces with two or three key slot configuration. Mounting template included.

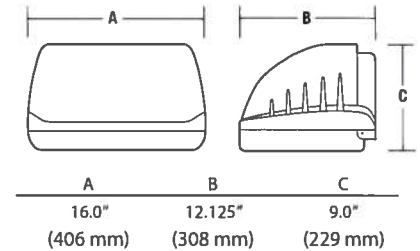
LED units, designed with quick mount system to provide rigid mounting over recessed junction boxes - fixture does not require opening for mounting.

Listings:

Listed and labeled to UL 1598 for wet locations, 25° C ambient environments. U.S. Patent No. D563,587

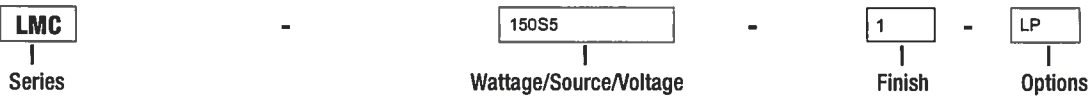
Limited Warranty:

One year HID & CFL, 5 years LED



ORDERING INFORMATION

ORDERING EXAMPLE: LMC-150P 8-1-TL



SERIES	WATTAGE/SOURCE/VOLTAGE	WATTAGE/SOURCE/VOLTAGE	FINISH	OPTIONS
LMC Laredo Medium Cutoff	LED*	ELECTRONIC METAL HALIDE	1 Bronze	PC(X) Button Photocontrol replace X with voltage, specify 1-120V, 2-208V, 3-240V, 4-277V
18LU-5K	44.5w Universal Voltage 120-277V	70E⁸ 8 70w Quad-Tap [®] 120, 208, 240, 277V	2 Black	TL⁸ Touch Latch, Tool-free Entry
	PULSE START METAL HALIDE	100E⁸ 8 100w Quad-Tap [®] 120, 208, 240, 277V	3 Gray	LP² Lamp Included
50P 9	50w 120/277V Dual Volt	ELECTRONIC FLUORESCENT	4 White	F(X)⁶ Fusing replace X with voltage, 1-120V, 2-208V, 3-240V, 4-277V
70P 8	70w Quad-Tap [®] 120, 208, 240, 277V	42F⁸ 8 42w Quad-Tap [®] 120, 208, 240, 277V	5 Platinum	QST^{7,a} Time Delay Quartz stand by system less lamp
70P 6	70w Tri-Tap [®] 120, 277, 347V	84F^{8,a} 8 84w Quad-Tap [®] 120, 208, 240, 277V		EM^{3,7,a} DC Bayonet Socket (for remote power by others)
100P 8	100w Quad-Tap [®] 120, 208, 240, 277V	HIGH PRESSURE SODIUM		EM12^{3,7,a} MR11/MR16 Two Pin Socket (for 12V power by others)
100P 6	100w Tri-Tap [®] 120, 277, 347V	70S 8 70w Quad-Tap [®] 120, 208, 240, 277V		2EM12^{3,7,a} Two MR11 or MR16 Two Pin Sockets (for 12V power by others)
100P 5	100w 480V	70S 6 70w Tri-Tap [®] 120, 277, 347V		BBU-XXX^{4,b} Emergency Battery Back-up, rated -4F, 120 or 277V
150P 8	150w Quad-Tap [®] 120, 208, 240, 277V	150S 8 150w Quad-Tap [®] 120, 208, 240, 277V		BOC-XXX^a Emergency Battery Back-up, rated -0°C, 120 or 277V
150P 6	150w Tri-Tap [®] 120, 277, 347V	150S 6 150w Tri-Tap [®] 120, 277, 347V		BOC-LED(X) LED Emergency Battery providing 615 lumens for egress on LMC18LU specify 1-120V or 4-277V
150P 5	150w 480V	150S 5 480V		

1 0" in voltage selection indicates less ballast.
2 For Lamp Included option on fluorescent: Indicate desired wattage: 42F - LP42, LP32, LP26; 84F - LP84 (2x42w), LP64 (2x32w), LP52 (2x26w).
3 Lamps not included.
4 BBU option provides integral emergency battery back up and operates one fluorescent lamp at up to 1250 lumens for a minimum of 90 minutes. Operation is reliable between -4°F and +131°F. Maximum output is achieved when the lamp temperature is 77°F. Eliminates the need for remote ballast or additional fixtures. On two lamp units (2x26w, 2x32w, 2x42w) battery powers one lamp to 1250 lumens.

5 Two lamp fluorescent units have two electronic ballasts. Field wiring can provide switching for 50% fixture output if desired.
6 50Hz/60Hz standard on electronic MH, Fluorescent or LED.
7 Not available LED on two lamp CFL versions
8 Not available on LED units

ACCESSORIES (order as separate part number)**LMC-SPC** Polycarbonate shield (.125 thickness)**PBT-1** 120V button photocontrol**PBT-234** 208/240/277V button photocontrol**REPLACEMENT PART****7737101** Polycarbonate Lens**PHOTOMETRICS**

Unit Description	IES File #
18 LED - Clear Lens	LMC-18LU-5K.IES
150w Pulse Start with Shield	LMC-150P-CS.IES
150w Pulse Start - Shield removed	LMC-150P.IES
100w Pulse Start with Shield*	LMC-100P-CS.IES
100w Pulse Start - Shield removed*	LMC-100P.IES
70w Pulse Start with Shield*	LMC-70P-CS.IES
70w Pulse Start - Shield removed*	LMC-70P.IES
150w HPS with Shield	LMC-150S-CS.IES
150w HPS - Shield removed	LMC-150S.IES
42w Fluorescent with Shield	LMC-42F-CS.IES
42w Fluorescent - Shield removed	LMC-42F.IES
2x42w Fluorescent - no Shield	LMC-84F.IES

*Output for magnetic pulse start or electronic ballast.