



OPPIN STATE UNIVERSITY

**HEALTH & HUMAN SERVICES BUILDING
BALTIMORE, MARYLAND**



CORINNE AMBLER • CONSTRUCTION MANAGEMENT • ADVISOR: DR. HORMAN

APPENDIX D

LUMINAIRE CUT SHEETS

Notes:

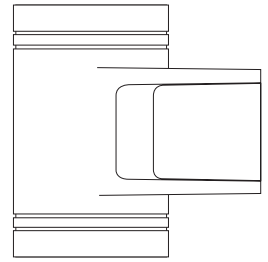
Job:

Type:

CYLINDERS

301 LINE UP/DOWN

GENERAL DESCRIPTION: The Gardco 301 LINE is a series of high performance up/down wall mounted cylinders. Each luminaire utilizes a single high intensity discharge lamp and provides illumination above and below. Housings are diecast aluminum with twin architectural reveals at both the lower and upper apertures. Six (6) downlight and two (2) uplight optical systems are available. The unique optional "Spike" downlight and/or uplight distribution creates a dramatic narrow stripe of illumination on the wall or column. Luminaires are finished with a fade and abrasion resistant polyester powder coat offered in 5 standard colors.



ORDERING

PREFIX	MODEL	MOUNTING	TRIMS	WATTAGE	VOLTAGE	FINISH	OPTIONS
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Enter the order code into the appropriate box above. Note: Gardco reserves the right to refuse a configuration. Not all combinations and configurations are valid. Refer to notes below for exclusions and limitations. For questions or concerns, please consult the factory.

PREFIX

301

MODEL

E Fully Enclosed

O Open Downlight

MOUNTING

W Wall Mount

TRIMS

Fully Enclosed "E" Units Only

L Obscuring lenses on uplight and downlight. Soft symmetrical distributions

LL Egg crate louvers on downlight. Obscuring lenses on uplight and downlight.

SD Spike downlight distribution. Obscuring lens on uplight

SU Spike uplight distribution. Obscuring lens on downlight

SB Spike uplight and downlight distributions.

FT Forward throw downlight distributions. Soft uplight glow. FT Trims utilize T6 lamps. Lamps are supplied with the luminaire

Open Downlight "O" Units Only

R Reflector produces medium downlight distribution with sharp cutoff to lamp and images. Obscuring lens on uplight.

B Black baffled downlight. Obscuring lens on uplight.

WATTAGE

Fully Enclosed "E" Units **Open Downlight "O" Units**
(N/A with FT Trims)

50MH¹

70MH

100MH

150MH

50HPS

70HPS

100HPS

150HPS²

FT Trims Only

T70MH

T150MH

MH Metal Halide
HPS High Pressure Sodium

1. N/A with 347V
2. Contact factory for availability of
150HPS w/SD, SU or SB Trims

VOLTAGE

120

208

240

277

347

FINISH

BRP Bronze Paint**BLP** Black Paint**WP** White Paint**NP** Natural Aluminum Paint**BGP** Beige Paint**VP** Verde Green Paint**OC** Optional Color Paint

Specify RAL designation
ex: OC-RAL7024

SC Special Color Paint

Specify Must supply color chip

OPTIONS

F Fusing**RCA** Round Column Mounting Adapter**WS** Wall Mounted J-Box for Surface Conduit

Gardco Lighting reserves the right to change materials or modify the design of its product without notification as part of the company's continuing product improvement program.

© Copyright Gardco Lighting 2001-2004. All Rights Reserved. International Copyright Secured.

A Genlyte Company

Gardco Lighting
2661 Alvarado Street
San Leandro, CA 94577

800/227-0758
510/357-6900 in California
Fax: 510/357-3088
www.sitelighting.com



CYLINDERS

301 LINE UP/DOWN

SPECIFICATIONS

HOUSINGS:

Housings are single-piece diecast aluminum cylindrical forms with integral side wall mounting canopy / ballast chambers. Provided mounting brackets are galvanized steel.

OPTICAL SYSTEMS:

Lens (L): The uplight and downlight components both utilize twin (four total per luminaire) spun specular Alzak reflectors which provide the symmetrical distributions. The uplight-obscuring lens is flush mounted and the downlight-obscuring lens is regressed. The lenses soften the distribution and conceal the optical system and internal hardware.

Louvers (LL): Diecast aluminum egg crate louvers are installed over the downlight-obscuring lens. All other optical elements are as described in the Lens (L) option.

Spike Downlight (SD): Inner and outer spun specular Alzak reflectors provide a very narrow spot beam at nadir. Uplight optical system is as described in the Lens (L) option.

Spike Uplight (SU): Inner and outer spun specular Alzak reflectors provide a very narrow spot at zenith. Downlight optical system is as described in the Lens (L) option.

Spike Both Uplight and Downlight (SB): Two sets of inner and outer spun specular Alzak reflectors provide very narrow spot beams at nadir and zenith.

Reflector (R): Spun specular Alzak reflector produces a medium symmetrical downlight distribution with sharp cutoff to lamp and lamp images. Uplight optical system is as described in the Lens (L) option.

Baffle (B): Upper spun specular Alzak reflector and lower black baffle produce a medium symmetrical downlight distribution with exceptional control of high angle brightness. Uplight optical system is as described in the Lens (L) option.

Forward Throw (FT) Faceted specular Alzak reflector system produces an asymmetric forward projecting distribution. Secondary optical system with obscuring lens produces a soft uplight glow.

ELECTRICAL:

All luminaires utilize magnetic HID ballasts that are high power factor and designed for reliable lamp starting to -20° F. Pulse rated sockets are glazed porcelain with nickel plated screw shells.

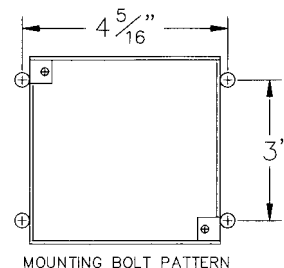
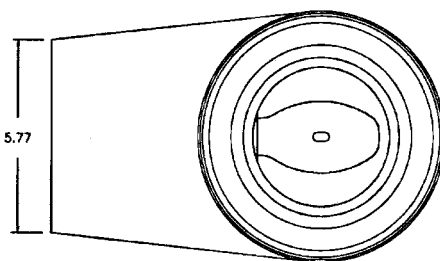
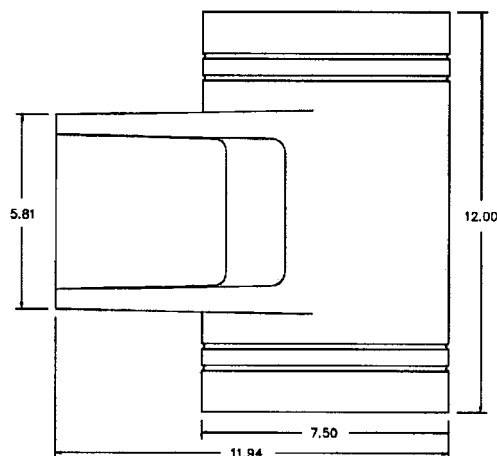
FINISH:

Each luminaire receives a fade and abrasion resistant electrostatically applied, thermally cured, (TGIC) polyester powder coat finish. Standard finishes are textured.

LABELS:

All fixtures bear UL or CUL (where applicable) Wet Location labels.

DIMENSIONS AND MOUNTING DETAIL



Gardco Lighting reserves the right to change materials or modify the design of its product without notification as part of the company's continuing product improvement program.

© Copyright Gardco Lighting 2001-2004. All Rights Reserved. International Copyright Secured.

Genlyte Thomas Group LLC

Gardco Lighting
2661 Alvarado Street
San Leandro, CA 94577

800/227-0758
510/357-6900 in California
Fax: 510/357-3088
www.sitelighting.com



Notes:

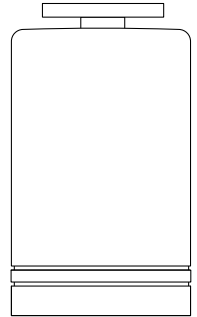
Job:

Type:

CYLINDERS

300 LINE OPEN DOWNLIGHT

GENERAL DESCRIPTION: The Gardco 300 LINE is a series of compact, high performance cylinder luminaires in a variety of styles and mounting configurations. The Open Downlight style uses high intensity discharge, incandescent or fluorescent lamps. Housings are diecast aluminum with twin architectural reveals located near the luminaire apertures. A choice of two (2) light control styles and three (3) mounting options is available. Luminaires are finished with a fade and abrasion resistant polyester powder coat offered in five standard colors.



ORDERING 300 Open Downlight Luminaires installed in the normal downlight position meet IESNA Full Cutoff criteria.

PREFIX	MODEL	MOUNTING	TRIMS	LAMP	VOLTAGE	FINISH	OPTIONS
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Enter the order code into the appropriate box above. Note: Gardco reserves the right to refuse a configuration. Not all combinations and configurations are valid. Refer to notes below for exclusions and limitations. For questions or concerns, please consult the factory.

PREFIX

300

MODEL

O Open Downlight

MOUNTING

C Ceiling

P Pendant

Standard pendant length is 18". Stated length is the distance from the ceiling to the top of the luminaire and takes into account the mounting hardware. For other stem lengths, add desired length in inches after "P". ex. 300-D-P24-L-50HPS-120-BRP (for 24").

W Wall Mount

TRIMS

R Reflector

B Black Baffle
(n/a with Fluorescent)

Luminaires cannot be field modified to change optics or lamp types.

LAMP/VOLTAGE CHART

LAMP/VOLTAGE CHART

Voltage:	120	208	240	277	347	480
<i>E17</i>						
50MH ²	•			•	•	
70MH ²	•	•	•	•	•	
100MH ²	•	•	•	•	•	•
50HPS	•			•	•	
70HPS	•	•	•	•	•	
100HPS	•	•	•	•		
<i>PAR38</i>						
P70MH ¹	•	•	•	•	•	
P100MH ¹	•	•	•	•	•	•
P70HPS ¹	•	•	•	•	•	
<i>Fluorescent</i> (Type "R" Trim only)						
26QF ³	•	•	•	•	•	
32TRF ³	•	•	•	•	•	
42TRF ³	•	•	•	•	•	
<i>Incandescent</i>						
250PAR38 ¹	•					
300R40 ¹	•					

MH - Metal Halide HPS - High Pressure Sodium
QF - Quad Fluorescent TRF - Triple Tube Fluorescent

Luminaires cannot be field modified to change optics or lamp types.

- Not available with reflector (R) trim.
- Must use open fixture rated E-17 Metal Halide lamps.
- Fluorescent units feature an electronic fluorescent ballast that accepts 120V through 277V or 347V only. Starting temperature is 0°F.

FINISH

BRP	Bronze Paint	OC	Optional Color Paint Specify RAL designation ex: OC-RAL7024
BLP	Black Paint		
WP	White Paint		
NP	Natural Aluminum Paint	SC	Special Color Paint Specify. Must supply color chip
BGP	Beige Paint		
VP	Verde Green Paint		

OPTIONS

F	Fusing
PCB	Button Type Photocontrol (Contact factory for availability)
WS	Wall Mounted Box for Surface Conduit

Gardco Lighting reserves the right to change materials or modify the design of its product without notification as part of the company's continuing product improvement program.

© Copyright Gardco Lighting 2001-2004. All Rights Reserved. International Copyright Secured.

Genlyte Thomas Group LLC

Gardco Lighting
2661 Alvarado Street
San Leandro, CA 94577

800/227-0758
510/357-6900 in California
Fax: 510/357-3088
www.sitelighting.com



79115-105/1104

CYLINDERS

300 LINE OPEN DOWNLIGHT

SPECIFICATIONS

HOUSING: Housings are diecast aluminum in a single-piece cylindrical form of corrosion resistant alloy, 1/8" min. wall thickness. Units are 7.5" in diameter and 12" in height, nominal measurements.

MOUNTING:

Ceiling (C): Provides for direct ceiling mount as shown.

Pendant Assembly (P): Swivel pendant assembly with locking set screws. Standard pendant length is 18". Stated length is the distance from the ceiling to the top of the luminaire and takes into account the mounting hardware. For other stem lengths, add desired length in inches after "P". Can accommodate 35° sloped ceiling maximum.

Wall Bracket (W): Cast aluminum canopy with integrated aluminum arm secured to housing with (2) 5/16" bolts. Requires mounting to a structural member of the building.

LIGHT CONTROL (Trim):

Reflector (R): Reflectors are composed of spun Alzak® components, electro-polished, anodized and sealed. Reflectors for compact fluorescent lamps feature a dual stage construction.

Baffle (B): Step black baffles are die cast aluminum and finished with black TGIC powdercoat

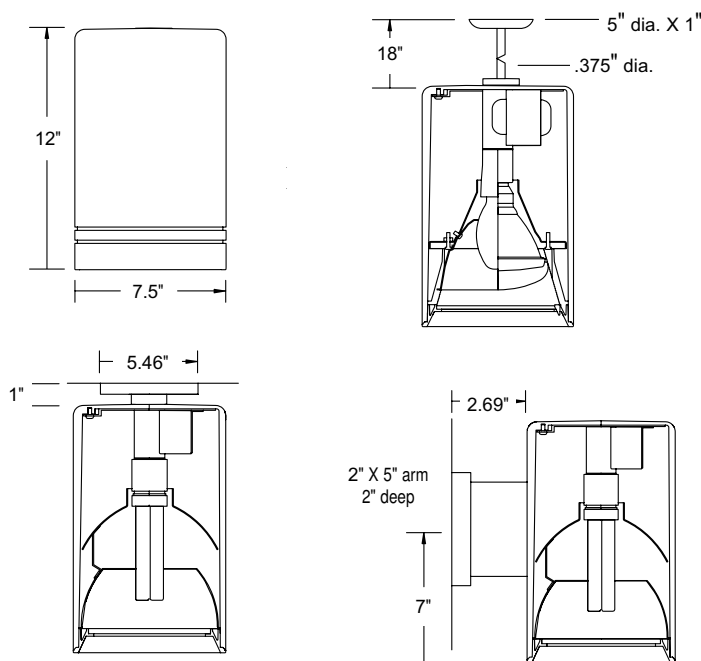
ELECTRICAL: Internal ballast will be provided based on the specified lamp configuration. Standard fluorescent ballasts are solid state. Standard and dimming fluorescent units have a starting temperature of 0°F (-18°C). Dimming range is 15% to 100% (42F/120v only).

LAMPHOLDER: Pulse rated medium base lampholders are glazed porcelain with nickel-plated screw shell. Fluorescent lampholders are high temperature thermoplastic (PBT) with brass alloy contacts.

FINISH: Each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, textured TGIC polyester powder coat finish.

LABELS: All fixtures bear UL or CUL (where applicable) Wet Location labels

DIMENSIONS AND MOUNTING DETAIL



Gardco Lighting reserves the right to change materials or modify the design of its product without notification as part of the company's continuing product improvement program.

© Copyright Gardco Lighting 2001-2004. All Rights Reserved. International Copyright Secured.

Genlyte Thomas Group LLC

Gardco Lighting
2661 Alvarado Street
San Leandro, CA 94577

800/227-0758
510/357-6900 in California
Fax: 510/357-3088
www.sitelighting.com



79115-105/1104

87516 – GEMH50-MSF-120

GE HID UltraMax™ Electronic Low Frequency Ballast

GENERAL CHARACTERISTICS

Application	1- 50W M110 M/C148 120V High Efficiency Low Frequency Electronic HID
Category	High Intensity Discharge
Ballast Type	Electronic - Low Frequency
Line Voltage Regulation (+/-)	10 %
Ambient Temperature (MAX)	55 °C (131 °F)
Case Temperature (MAX)	90 °C (194 °F)
Ballast Factor	Normal
Circuit Type	Electronic
Sound Rating	A (20-24 decibels)
Enclosure Type	Plastic
Distance to Lamp (MAX)	8 ft
Additional Info	End of Life Protection (EOL), Thermally protected

ELECTRICAL CHARACTERISTICS

Lamp Operating Frequency	130 Hz
Supply Current Frequency	60 Hz/50

PRODUCT INFORMATION

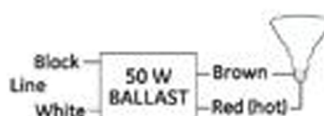
Product Code	87516
Description	GEMH50-MSF-120
Standard Package	Case
Standard Package GTIN	10043168875162
Standard Package Quantity	10
Sales Unit	Case
No Of Items Per Sales Unit	1
No Of Items Per Standard Package	10
UPC	043168875165



[View Larger](#)

DIMENSIONS

Case dimensions			
Length (L)			3.7 in (94.99 mm)
Width (W)			2.9 in (75.69 mm)
Height (H)			1.2 in (30.73 mm)
Mounting dimensions			
Mount Length (M)			3.3 in (86.10 mm)
Mount Width (X or F)			2.5 in (63.75 mm)
Mount Slots (MS)			0.1 in (4.31 mm)
Weight			0.62 lbs
Exit Type			Side
Remote mounting distance to lamp			8 ft
Remote Mounting Wire Gauge			18 AWG
Lead lengths	Qty	Exit	Length (± 1 in.)
Brown	1	Right	10 in (254 mm)
Red	1	Right	10 in (254 mm)
Black	1	Left	10 in (254 mm)
White	1	Left	10 in (254 mm)



45670 – MXR50/U/MED/O

GE Protected Multi-Vapor® PulseArc® Quartz Metal Halide ED17

GENERAL CHARACTERISTICS

Lamp type	High Intensity Discharge - Quartz Metal Halide
Bulb	ED17
Base	Medium Screw (E26)
Bulb Finish	Clear
Wattage	50
Voltage	85
Rated Life	10000 hrs
Bulb Material	Hard glass
Lamp Enclosure Type (LET)	Open or enclosed fixtures

PHOTOMETRIC CHARACTERISTICS

Initial Lumens	3400
Mean Lumens	1700
Nominal Initial Lumens per Watt	68
Color Temperature	3500 K
Color Rendering Index (CRI)	70
Effective Arc Length	0.300000 in (7.620000 mm)

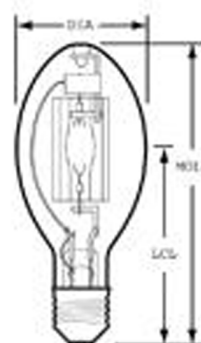
ELECTRICAL CHARACTERISTICS

Burn Position	Universal burning position
Open Circuit Voltage (peak lead ballast) (MIN)	332 V
Open Circuit Voltage (RMS lag ballast) (MIN)	235 V
Warm Up Time to 90% (MIN)	2 min
Warm Up Time to 90% (MAX)	5 min
Hot Restart Time to 90% (MIN)	10 min
Hot Restart Time to 90% (MAX)	15 min

DIMENSIONS

Maximum Overall Length (MOL)	5.4300 in (137.9 mm)
Nominal Length	5.430 in (137.9 mm)
Bulb Diameter (DIA)	2.125 in (53.9 mm)
Light Center Length (LCL)	3.430 in (87.1 mm)

PRODUCT INFORMATION



Bulb



Base



[View Larger](#)

ADDITIONAL RESOURCES

[Catalogs](#)

[Testimonials](#)

Brochures

Application/Segment Brochures

- [Contractor Lighting](#)
- [Retail Lighting](#)

Product Brochures

- [HID Lamps](#)
- [Industrial Lighting](#)

[MSDS \(Material Safety Data Sheets\)](#)

[Disposal Policies & Recycling Information](#)

GRAPHS & CHARTS

Spectral Power Distribution

