

City of Madison

Proposed Demolition

Location 5402 Voges Road

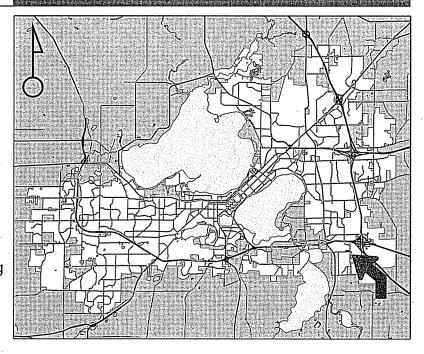
Project Name Trane House Relocation

Applicant MMI Properties, LLC/ John Bieno – TJK Design Build

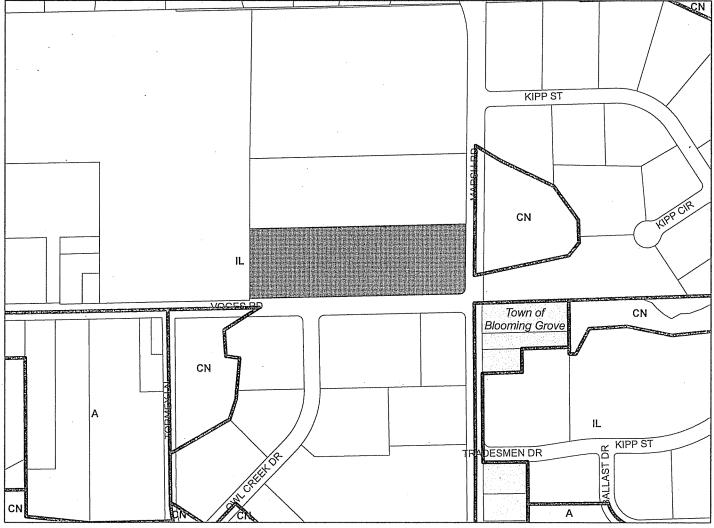
Existing Use Single-family residence

Proposed Use Relocate single-family residence to allow construction of an office building

Public Hearing Date Plan Commission 14 October 2013



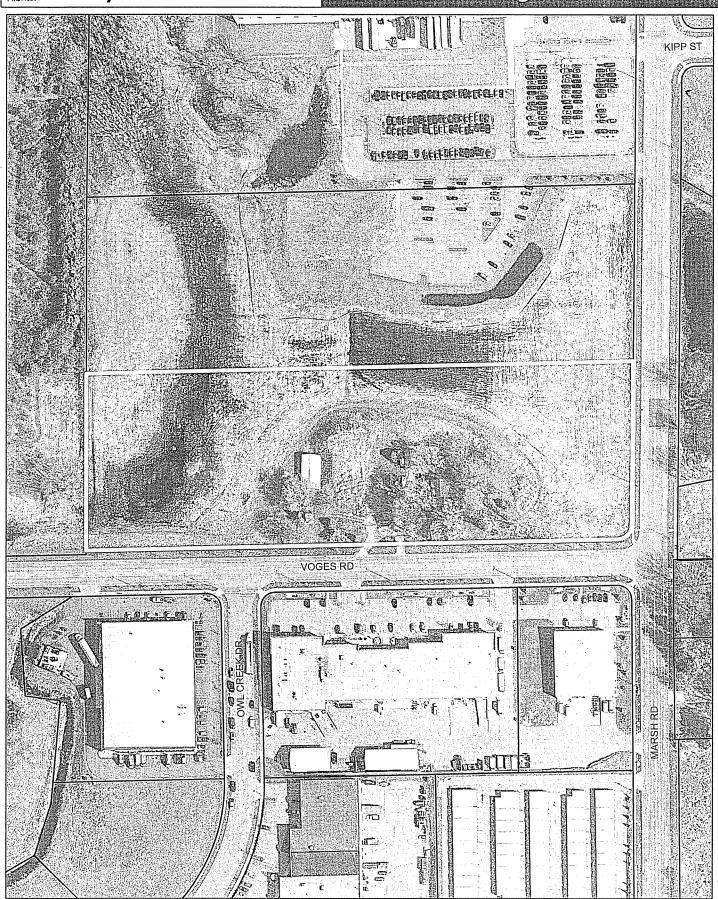
For Questions Contact: Kevin Firchow at: 267-1150 or kfirchow@cityofmadison.com or City Planning at 266-4635



Scale: 1'' = 400'

City of Madison, Planning Division: RPJ: Date: 08 October 2013





Date of Aerial Photography: Spring 2010



LAND USE APPLICATION

CITY OF MADISON

215 Martin Luther King Jr. Blvd; Room LL-100 PO Box 2985; Madison, Wisconsin 53701-2985 Phone: 608.266.4635 | Facsimile: 608.267.8739

- All Land Use Applications should be filed with the Zoning Administrator at the above address.
- The following information is required for all applications for Plan Commission review except subdivisions or land divisions, which should be filed using the <u>Subdivision Application</u>.
- This form may also be completed online at: <u>www.cityofmadison.com/developmentcenter/landdevelopment</u>

3. Applicant, Agent & Property Owner Information:

	FOR OFFICE USE ONLY:
	Amt. Paid Receipt No
	Date Received
	Received By
	Parcel No
	Aldermanic District
	Zoning District
	Special Requirements
	Review Required By:
	☐ Urban Design Commission ☐ Plan Commission
	Common Council Other:
	Form Effective: February 21, 2013
d 1	Use Application):
u	ose Application).
_ 1	to
ſ	Major Amendment to Approved PD-SIP Zoning
200	nmission)
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	iiiiissioii)
liti	ional Use

Applicant Name: JOHN BIEND Company: TJK DESIGN BUILD 634 WEST MAIN STREET City/State: 53703 Street Address: (as) 257 1092 Telephone: (<u>(\alpha 8)</u> <u>257</u> <u>1090</u> Fax: Email: J. BIENOCTOK DESIGN BUILD. COM Project Contact Person: 5AME AS ABAE Street Address: City/State: Zip: Telephone: (____)__ Fax: (____) _____ Email: Property Owner (if not applicant): MM.I PROPERTIES LLC Street Address: 5301 VOGES ROAD City/State: Madison, W Zip: 53718

4. Project Information:

Provide a brief description of the project and all proposed uses of the site: OFFICE RUILDING WI PARKING

DEMO OF EXEMING GARAGE AN RELOCATION OF HOUSE (LOCATION OUTSIDE OF THE CITY)

Development Schedule: Commencement SEPT 2013 Completion

5. Required Submittal Information

Name of Applicant ______ BIENO

Authorizing Signature of Property Owner_

5. Required Submittal information
All Land Use applications are required to include the following:
Project Plans including:*
 Site Plans (<u>fully dimensioned</u> plans depicting project details including all lot lines and property setbacks to buildings; demolished/proposed/altered buildings; parking stalls, driveways, sidewalks, location of existing/proposed signage; HVAC/Utility location and screening details; useable open space; and other physical improvements on a property)
 Grading and Utility Plans (existing and proposed)
 Landscape Plan (including planting schedule depicting species name and planting size)
 Building Elevation Drawings (fully dimensioned drawings for all building sides, labeling primary exterior materials)
 Floor Plans (fully dimensioned plans including interior wall and room location)
Provide collated project plan sets as follows:
• Seven (7) copies of a full-sized plan set drawn to a scale of 1 inch = 20 feet (folded or rolled and stapled)
 Twenty Five (25) copies of the plan set reduced to fit onto 11 X 17-inch paper (folded and stapled)
• One (1) copy of the plan set reduced to fit onto 8 ½ X 11-inch paper
* For projects requiring review by the Urban Design Commission , provide Fourteen (14) additional 11x17 copies of the plan set. In addition to the above information, <u>all</u> plan sets should also include: 1) Colored elevation drawings with shadow lines and a list of exterior building materials/colors; 2) Existing/proposed lighting with photometric plan & fixture cutsheet; and 3) Contextual site plan information including photographs and layout of adjacent buildings and structures. The applicant shall <u>bring</u> samples of exterior building materials and color scheme to the Urban Design Commission meeting.
Letter of Intent: Provide one (1) Copy per Plan Set describing this application in detail including, but not limited to:
 Project Team Existing Conditions Project Schedule Proposed Uses (and ft² of each) Hours of Operation Building Square Footage Number of Dwelling Units Auto and Bike Parking Stalls Lot Coverage & Usable Open Space Calculations Value of Land Estimated Project Cost Number of Construction & Full- Time Equivalent Jobs Created Public Subsidy Requested
Filing Fee: Refer to the Land Use Application Instructions & Fee Schedule. Make checks payable to: City Treasurer.
Electronic Submittal: All applicants are required to submit copies of all items submitted in hard copy with their application a Adobe Acrobat PDF files on a non-returnable CD to be included with their application materials, or by e-mail to pcapplications@cityofmadison.com.
Additional Information may be required, depending on application. Refer to the Supplemental Submittal Requirements
6. Applicant Declarations
Pre-application Notification: The Zoning Code requires that the applicant notify the district alder and any nearb neighborhood and business associations in writing no later than 30 days prior to FILING this request. List the alderperson, neighborhood association(s), and business association(s) AND the dates you sent the notices:
→ If a waiver has been granted to this requirement, please attach any correspondence to this effect to this form.
Pre-application Meeting with Staff: Prior to preparation of this application, the applicant is required to discuss the proposed development and review process with Zoning and Planning Division staff; note staff persons and date.
Planning Staff: LEVIN FIRCHOUL Date: 8.22.13 Zoning Staff: PAT ANDERSON Date: 8.22.13

The applicant attests that this form is accurately completed and all required materials are submitted:



September 4, 2013

634 W. Main Street Madison, WI 53703 Office 608-257-1090 Fax 608-257-1092 www.tjkdesignbuild.com

Department of Planning & Development City of Madison 215 Martin Luther King Jr. Blvd PO Box 2985 Madison WI 53701

RE:

Letter of Intent 5402 Voges Road Madison WI

To Whom It May Concern:

The following is submitted together with the plans, application and zoning text for staff, Plan Commission and Common Council consideration of approval.

Organizational structure:

Owner: MMI Properties, LLC

5301 Voges Road Madison WI 53718 608-257-2600 608-838-6821 fax

Contact: John Brigham

Architect:

TJK Design Build Inc 634 West Main Street Madison WI 53703 608-257-1090 608-257-1092 fax Contact: John J Bieno ijbieno@tjkdesignbuild.com

Engineer: Snyder and Associates

5010 Voges Road Madison WI 53718 608-838-0444 608-838-0445 fax Contact: Mike Calkins Landscape

Design:

Richard Slayton, ASLA

Introduction:

The site is located on the North side of Voges Road. The site is approximately 297,080 SF in size. Of this area, approximately 89,250 SF are buildable. It is under the control of a single developer. The developments that surround this lot have slowly been developed over the last 15 years.

Deconstruction:

This proposed development envisions the deconstruction of an accessary garage building and the relocation of a single family residence to central Wisconsin. The demolition would also include the deck and hard paved areas around the house. Inspection of these properties has been made by the development team. It's been concluded that the garage is beyond the capacity of any reasonable rehabilitation. The house was of reasonable value and a relocation site has been found. The relocation will take place as quickly as approvals can be met for this development. Additional reports on the structures existing condition will be prepared for distribution to the staff and Plan Commission. The developer will contract to prepare a recycling and reuse plan for the building and the components and materials will be handled appropriately. Although the zoning code clearly encourages the preservation of existing structures, the zoning codes purpose also includes promoting the general welfare of the City, encouraging the most appropriate land uses and conserving and enhancing the taxable value of lands and buildings. We believe that the Plan Commission can determine that the demolition standards are met.

Project Description:

The site under consideration is located along a busy road on the south east side of Madison. The project is surrounded by light to medium commercial/industrial development. The lot is also predominantly engulfed by a wetland. We are proposing to remove the existing garage on this property and relocate the existing single family residence. These structures will be replaced with a new slab on grade, pre-engineered building that will be utilized as a regional office for a mechanical corporation. The building and parking have been positioned to maximize the buildable area as well as meet the zoning code. We have also incorporated a patio area that takes advantage of the natural wetlands. Entry and exit into the property will be off of two curb cuts. A second future development, and associated parking, is also to take advantage of these curb cuts. Bike and pedestrian access is compliant with the zoning requirements and has been integrated into the design of the facility. Landscaping has been introduced to enhance the architecture of the building as well as offer some shading and screening. Accent lights have been incorporated into the façade of the building. The parking lot itself will be lit by multiple pole fixtures. The building façade will be a combination of masonry elements, metal panels, windows, translucent panels and strong architectural forms. Large openings can be found on all four facades of the building. Window frame colors have been chosen to accent the architecture. Mechanicals will be on the roof and screened with the incorporation of a corrugated metal mechanical roof screen.

Project Schedule:

It is anticipated that construction will start in the fall of 2013 and will be completed in the summer of 2014.

Social and Economic Impact:

This development will have a positive social and economic impact. The development will potentially increase the city's tax base with minimal if any increased cost to the city. The redevelopment will provide new work opportunities while promoting pedestrian, bicycle and mass transit circulation.

Thank you for your time in reviewing our proposal.

Sincerely,

John J Bieno, AIA TJK Design Build Inc



Re: Trane Office Building

Demarb, Denise < district 16@cityofmadison.com>

Mon, Aug 19, 2013 at 10:56 AM

To: John Bieno <jjbieno@tjkdesignbuild.com>

Cc: "Firchow, Kevin" < KFirchow@cityofmadison.com>

John,

I drove by the site and I would like to welcome Trane to Madison! I agree to waive the 30 day notification period. Good luck and let me know if I can help you as you move forward with this project. I look forward to hearing about your plans.

Denise

On Aug 16, 2013, at 11:22 AM, "John Bieno" <iijbieno@tjkdesignbuild.com> wrote:

> Alder Demarb:

>

- > Good morning. We are working with a developer for a new building at 5402 Voges Road. The project will be the local office for Trane, a company that manufactures mechanical untis. No manufacturing will take place at this location. It will be their corporate offices for this region. I have been working with Kevin Firchow with the City on creating a plan that is agreeable to both the City and my client. I believe we have reached that balance. I've attached a copy of the plans and elevations for your review.
- > I hope we can gain your support on this project as it moves through the process. I hope to also gain your waiver for the 30 day notification.
- > I look forward to working with you on this project. Please let me know if you have any questions.
- > Thank you.

>

>

- > John J Bieno, AIA, NCARB
- > Architect, Vice-President
- >
- > TJK Design Build
- > 634 West Main Street
- > Madison, Wisconsin 53703

>

- > Phone 608.257.1090
- > Cell 608.772.6996
- > Fax 608.257.1092
- > Website tjkdesignbuild.com<http://tjkdesignbuild.com>
- > <C11.pdf>
- > <A11 (1).pdf>
- > <A21.pdf>



634 W. Main Street Madison, WI 53703 Office 608-257-1090 Fax 608-257-1092 www.tjkdesignbuild.com

DATE:

August 27, 2013

FROM:

John J. Bieno, AIA TJK Design Build, Inc. 634 W. Main Street Madison, WI 53703

RE:

Schedule - Trane

Submit to Plan Commission	09/04/13
Hire Structural Engineer	09/06/13
Plan Commission Meeting	10/14/13
Submit Building Plans for State Approval	10/14/13
Zoning Site Plan Review	10/16/13
Approved State Drawings	10/28/13
Site Plan Approval	11/01/13
Building Permit	11/02/13
Start Construction	11/18/13
Footings & Foundation	December
Steel Erection	Jan – Feb 2014
Interior Buildout	Feb – March 2014
Sitework	April – May 2014
Substantial Completion	05/16/14
Occupancy	06/01/14

(Note: Exterior items will still need to be completed in the Spring)

DESCRIPTION

COOPER LIGHTING - LUMARK®



The Lumark Tribute is the most versatile, functionally designed, universally adaptable outdoor luminaire available. The Tribute brings outstanding performance to walkways, parking lots, roadways, loading docks, building areas, and any security lighting application. U.L. listed and CSA certified for wet locations.

Catalog #	MPTR-SL-250-208V	Туре
Project	Trane	A
Comments		Date
Prepared by		08/21/2013

SPECIFICATION FEATURES

Construction

Rugged one-piece die-cast aluminum housing and door frame. One-piece silicone gasket protects the optical chamber from performance degrading contaminants. One (1) stainless spring latch and two (2) stainless hinges allow toolless opening and removal of door frame.

Reflector

Choice of nine (9) high efficiency optical distributions, including five (5) segmented optical systems constructed of premium 95% reflective odized 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. Optical modules are

field rotatable in 90° increments and offered standard with mogul base lampholders for High Pressure Sodium and 200-400W Metal Halide assemblies or medium-base lampholders for Metal Halide 150W and below.

Electrical

Ballast and related electrical componentry are hard mounted to die-cast housing for optimal heat transfer and operating efficiency. Optional swing-down galvanized steel power tray with integral handle and quick disconnects allows tray to be completely removed from housing providing ample room for fixture installation and maintenance.

Mounting

Extruded 8" aluminum arm features internal bolt guides for easy positioning of fixture during installation to pole or wall surface.

Standard single carton packaging of housing, square pole arm and round pole adapter allow for consolidated product arrival to site. Optional internal mast arm mount accepts a 1 1/4" to 2 3/8" O.D. horizontal tenon, while a 4-bolt clamping mechanism secures fixture. Cast-in leveling guides provide +/-5° vertical leveling adjustment.

Finish

Housing and arm finished in a 5 stage premium TGIC bronze polyester powder coat paint. Optional colors include black, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.



TRIBUTE

70 - 400W

High Pressure Sodium Pulse Start Metal Halide Metal Halide

AREA LUMINAIRE



TECHNICAL DATA

UL Wet Locations Listed CSA Certified EISA Compliant (E)

ENERGY DATA

Hi-Reactance Ballast Input Watts 70W HPS HPF (95 Watts) 100W HPS HPF (130 Watts) 150W HPS HPF (190 Watts) 150W MP HPF (185 Watts)

CWI Ballast Input Watts 250W HPS HPF (300 Watts) **CWA Ballast Input Watts**

175W MH HPF (210 Watts) 200W MP HPF (227 Watts) (2) 200W HPS HPF (250 Watts) 250W MH HPF (295 Watts)

250W MP HPF (283 Watts) (2)

320W MP HPF (365 Watts) ®

350W MP HPF (397 Watts) (3) 400W MP HPF (452 Watts) (6)

400W MH HPF (455 Watts) 400W HPS HPF (465 Watts)

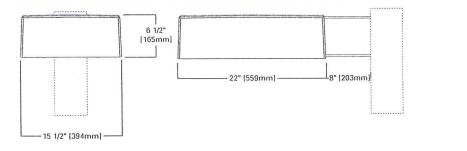
EPA

Effective Projected Area: (Sq. Ft.) Without Arm: 1.19

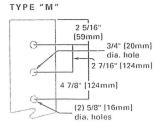
SHIPPING DATA Approximate Net Weight: 39 lbs. (17.73 kgs.)



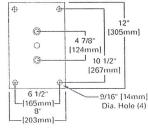
DIMENSIONS



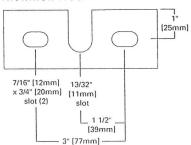
DRILLING PATTERNS



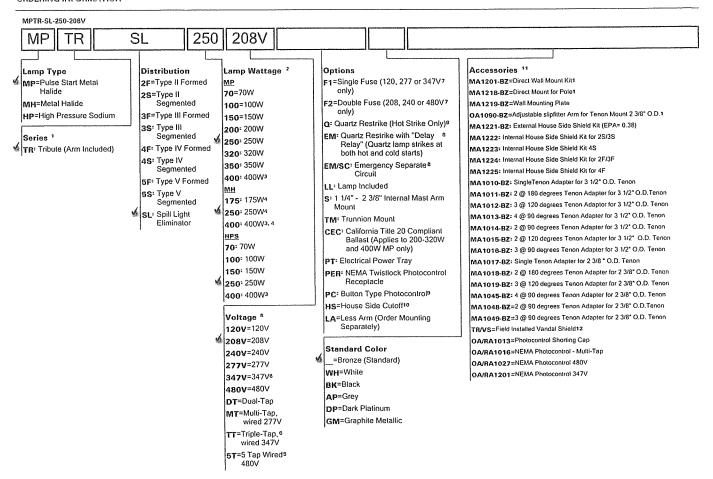
WALL MOUNT (MA1219-XX)



TRUNNION MOUNT





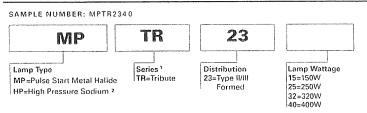


Notes: 1 8 Inch Arm and pole adapter included with fixture. Specify Less Arm "LA" option when mounting accessory is ordered separately. 2 150W and below in Pulse Start Metal Halide are medium base sockets. All other wattages are mogul base. 3 Requires reduced envelope lamp. 4 175W, 250W, and 400W MH available in non-U.S. markets only. 5 Products also available in non-US voltages and 50HZ for international markets.

Consult your Cooper Representative for availability and ordering information. 5T only available in 400W MH. 6 88% efficient EISA Compliant MP fixtures not available in 347V or TT Voltages. 7 Must specify voltage. 8 Ouartz options not available with SLE or House Side Sheild.

See The Start Metal Halide are medium base sockets. All other wattages are mogul base. 3 Requires reduced envelope lamp. 4 175W, 250W, and 400W MH. 6 88% efficient EISA Compliant MP fixtures not available in 347V or TT Voltages. 7 Must specify voltage. 8 Ouartz options not available with SLE or House Side Sheild.

STOCK SAMPLE NUMBER (Lamp Included)



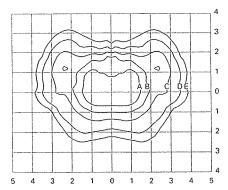
NOTES:

¹ Short logic fixtures are finished bronze include multi-tap ballast, lamp, arm and round pole adapter. Other options not available. Refer to standard ordering logic. ² Available in 150, 250 and 400 Watt. Refer to 150ck Guide for availability.

DT=Dual-Tap	120/277 (wired 277V)
MT=Multi-Tap	120/208/240/277 (wired 277V)
TT=Triple-Tap	120/277/347 (wired 347V)
5T=5-Tap	120/208/240/277/480 (wired 480V)

LAMP TYPE	WATTAGE
Pulse Start Metal Halide	70, 100, 150, 250, 320, 350, 400W
Metal Halide	175, 250, 400W
High Pressure Sodium	70, 100, 150, 250, 400W

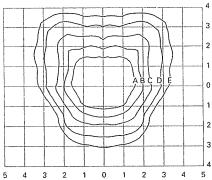




MPTR-3S-320 320-Watt MP 30,000-Lumen Clear Lamp Type III Segmented

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					
	Α	В	С	D	E	
20'	3.00	1.50	0.75	0.30	0.15	
25'	2.00	1.00	0.50	0.20	0.10	
30'	1.38	0.69	0.34	0.13	0.06	

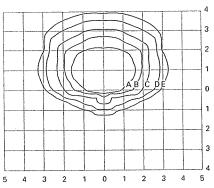


MPTR-4S-400 400 - Watt MP 40,000 -- Lumen Clear Lamp Type IV Segmented

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

Pictoria in units of mounting height.

Distance in	onus or	mounting	j neigiti.		
Mounting	Footca	ndle Valu	es for		
Height	Isofoot	candle Li	nes		
	Α	В	С	D	E
20'	3.00	1.50	0.75	0.30	0.15
25'	2.00	1.00	0.50	0.20	0.10
30,	1.38	0.69	0.34	0.13	0.06

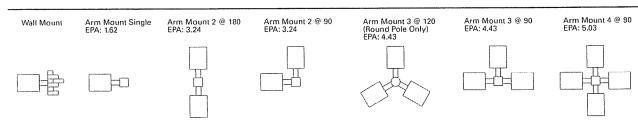


MPTR-SL-400 400-Watt MP 40,000-Lumen Clear Lamp Spill Light Eliminator

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

Mounting	Isofootcandle Lines					
Height	A	B B	C	D	E	
20'	3.00	1.50	0.75	0.30	0.15	
25'	2.00	1.00	0.50	0.20	0.10	
30'	1.38	0.69	0.34	0.13	0.06	

MOUNTING CONFIGURATIONS



DESCRIPTION

È) COOPER LIGHTING - LUMARK° 讏



The Lumark Tribute is the most versatile, functionally designed, universally adaptable outdoor luminaire available. The Tribute brings outstanding performance to walkways, parking lots, roadways, loading docks, building areas, and any security lighting application. U.L. listed and CSA certified for wet locations.

Catalog #	MPTR-4F-250-208V	Туре
Project	Trane	В
Comments		Date
Prepared by		08/21/2013

SPECIFICATION FEATURES

Construction

Rugged one-piece die-cast aluminum housing and door frame. One-piece silicone gasket protects the optical chamber from performance degrading contaminants. One (1) stainless spring latch and two (2) stainless hinges allow toolless opening and removal of door frame.

Reflector

Choice of nine (9) high efficiency optical distributions, including five (5) segmented optical systems constructed of premium 95% reflective odized 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. Optical modules are

field rotatable in 90° increments and offered standard with mogul base lampholders for High Pressure Sodium and 200-400W Metal Halide assemblies or medium-base lampholders for Metal Halide 150W and below.

Electrical

Ballast and related electrical componentry are hard mounted to die-cast housing for optimal heat transfer and operating efficiency. Optional swing-down galvanized steel power tray with integral handle and quick disconnects allows tray to be completely removed from housing providing ample room for fixture installation and maintenance.

Mounting

Extruded 8" aluminum arm features internal bolt guides for easy positioning of fixture during installation to pole or wall surface.

Standard single carton packaging of housing, square pole arm and round pole adapter allow for consolidated product arrival to site. Optional internal mast arm mount accepts a 1 1/4" to 2 3/8" O.D. horizontal tenon, while a 4-bolt clamping mechanism secures fixture. Cast-in leveling guides provide +/-5° vertical leveling adjustment.

Finish

Housing and arm finished in a 5 stage premium TGIC bronze polyester powder coat paint. Optional colors include black, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.



TR TRIBUTE

70 - 400W

High Pressure Sodium Pulse Start Metal Halide Metal Halide

AREA LUMINAIRE



TECHNICAL DATA

UL Wet Locations Listed CSA Certified EISA Compliant ®

ENERGY DATA

Hi-Reactance Ballast Input Watts 70W HPS HPF (95 Watts) 100W HPS HPF (130 Watts) 150W HPS HPF (190 Watts) 150W MP HPF (185 Watts)

CWI Ballast Input Watts 250W HPS HPF (300 Watts)

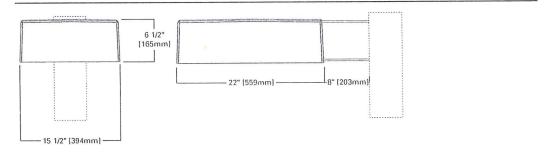
CWA Ballast Input Watts
175W MH HPF (210 Watts)
200W MP HPF (227 Watts) ©
200W HPS HPF (250 Watts)
250W MH HPF (295 Watts)
250W MP HPF (283 Watts) ©
320W MP HPF (365 Watts) ©
350W MP HPF (397 Watts) ©
400W MP HPF (455 Watts) ©

400W HPS HPF (465 Watts)
EPA
Effective Projected Area: (Sq. Ft.)

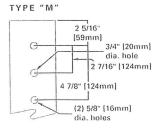
Without Arm: 1.19 SHIPPING DATA Approximate Net Weight: 39 lbs. (17.73 kgs.)

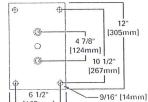


DIMENSIONS



DRILLING PATTERNS

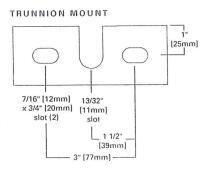




(165mm)

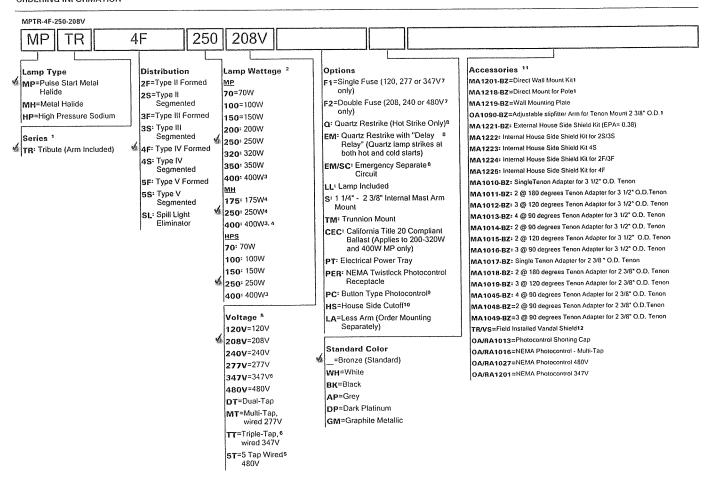
(203mm)

WALL MOUNT (MA1219-XX)





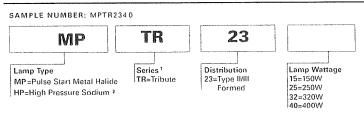
Dia. Hole (4)



Notes: 1 8 Inch Arm and pole adapter included with fixture. Specify Less Arm "LA" option when mounting accessory is ordered separately. 2 150W and below in Pulse Start Metal Halide are medium base sockets. All other wattages are mogul base. 3 Requires reduced envelope lamp. 4 175W, 250W, and 400W MH available in non-U.S. markets only. 5 Products also available in non-US voltages and 50HZ for international markets.

Consult your Cooper Representative for availability and ordering information. 5T only available in 400W MH. 6 88% efficient EISA Compliant MP fixtures not available in 347V or TT Voltages. 7 Must specify voltage. 8 Quartz options not available with SL optics. 9 Specify 120V, 208V, 240V, or 277V only. 10 House side shield not available on 5S, 5F, or SL optics. 11 Order separately/replace XX with color specification. 12 Not available with SLE or House Side Sheild.

STOCK SAMPLE NUMBER (Lamp Included)



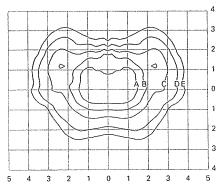
NOTES:

¹ Short logic fixtures are finished bronze include multi-tap ballast, lamp, arm and round pole adapter. Other options not available. Refer to standard ordering logic. ² Available in 150, 250 and 400 Watt. Refer to 1 Stock Guide for availability.

DT=Dual-Tap	120/277 (wired 277V)
D1=Ddai-Tap	
MT=Multi-Tap	120/208/240/277 (wired 277V)
TT=Triple-Tap	120/277/347 (wired 347V)
5T=5-Tao	120/208/240/277/480 (wired 480V)

100, 150, 250, 320, 350, 400W
100, 100, 200, 200, 200,
5, 250, 400VV
100, 150, 250, 400W

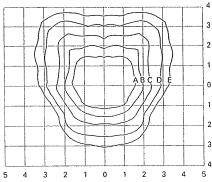




MPTR-3S-320 320—Watt MP 30,000—Lumen Clear Lamp Type III Segmented

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

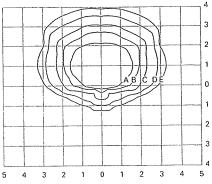
Mounting	Footcandle Values for					
Height	Isofootcandle Lines					
	Α	В	С	D	E	
20'	3.00	1.50	0.75	0.30	0.15	
25'	2.00	1.00	0.50	0.20	0.10	
30'	1.38	0.69	0.34	0.13	0.06	



MPTR-4S-400 400—Watt MP 40,000—Lumen Clear Lamp Type IV Segmented

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

Mounting	Footcandle Values for						
Height	Isofootcandle Lines						
	Α	8	С	D	E		
20'	3.00	1.50	0.75	0.30	0.15		
25'	2.00	1.00	0.50	0.20	0.10		
30'	1 38	0.69	0.34	0.13	0.06		

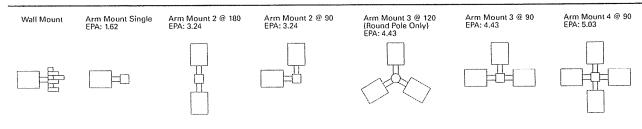


MPTR-SL-400 400-Watt MP 40,000-Lumen Clear Lamp Spill Light Eliminator

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

Mounting	Footcandle values for						
Height	Isofootcandle Lines						
	Α	В	С	D	E		
20'	3.00	1.50	0.75	0.30	0.15		
25'	2.00	1.00	0.50	0.20	0.10		
30'	1.38	0.69	0.34	0.13	0.06		

MOUNTING CONFIGURATIONS





DESCRIPTION

The McGraw-Edison BSL / BRL Bollard Series, available in heights from 24" to 42", has crisp, clean lines which blend with any architectural setting. Constructed of seamless, heavy-duty aluminum and finished with a tough polyester powder coat finish, the McGraw-Edison Louvered Bollard Series is gasketed to seal out external contaminants. U.L. 1598 listed and CSA certified for wet locations.

Bollards are designed for walkways, entranceways, drives and other small-area lighting applications where low mounting heights are desirable.

SPECIFICATION FEATURES

Construction

TOP: Rugged, minimum 5/32" thick cast aluminum top cap secured via a concealed stainless steel allen screw with twist removal mechanism for lamp access. Flow through ventilation assure cool to the touch top. LOUVERS: Cast Aluminum Louver blades provide sharp cutoff delivering no direct light above 90°. Louvers are secured to the shaft via tamper stainless steel rods and fasteners. LOWER HOUSING: Nominal 1/8" thick aluminum extruded housing. Bollard housing is secured to the base with flathead, counter-sunk screws for smooth, uncluttered appearance. BASE: Rugged cast aluminum. Completely concealed.

Electrical

HID High Power Factor ballast for -20°F starting. CFL Electronic ballast for 0°F starting. Product is factory mounted to the base. Quick disconnects provided between lamp and electrical assembly. Metal Halide and High Pressure Sodium lamp sources up to 100W and up to 42W Compact Fluorescent sources.

Optical

LAMP ENCLOSURE: One piece tempered glass with internal flutes for even disbursement of illumination. Decorative colored glass optional. Globe is fully gasketed via EPDM material. Socket is porcelain, medium-base for HID lamp sources and

McGRAW-EDISON®



Catalog #	BRL-36-70-MP-208-BZ	Туре
Project	Trane	C
Comments		Date
Prepared by		08/21/2013

polycarbonate/PBT GX24q-3/q-4 base for compact fluorescent lamps.

Mounting

Base mounts onto foundation with three (3) 1/2" x 12 1/2" anchor bolts on a 5" Dia. bolt circle (a centrally located 2 7/8" x 3 1/2" wire entrance opening provided).

Finish

Premium fade and abrasion resistant, TGIC Polyester Powder Coat Finish. Standard colors are Black, Grey, Bronze, White, Dark Platinum and Graphite Metallic. Other finish colors available including all RAL matches.



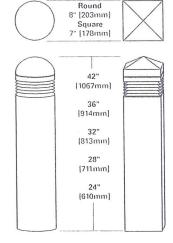
BSL/BRLBOLLARD

26 - 100W
Pulse Start Metal Halide
High Pressure Sodium
Compact Fluorescent
Incandescent

PATHWAY LUMINAIRE

DARK SKY
COMPLIANT
NOTE: In select linishes only.

DIMENSIONS



WATTAGE TABLE

Lamp Type	Wattage
Pulse Start Metal Halide (MP)	50, 70, 100W
High Pressure Sodium (HPS)	35, 50, 70, 100W
Compact Fluorescent (CF)	(1) 26, (1) 32, (1) 42W
Incandescent (IN)	100W

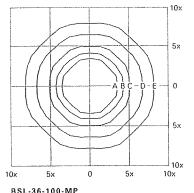
Energy Data Reactor Ballast Input Watts 35W HPS NPF (46 Watts)

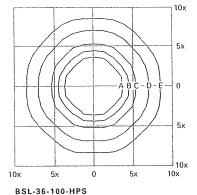
High Reactance Ballast Input Watts
50W HPS HPF (62 Watts)
50W MP HPF (69 Watts)
70W HPS HPF (86 Watts)
70W MP HPF (94 Watts)
100W HPS HPF (115 Watts)
100W MP HPF (129 Watts)
150W HPS HPF (170 Watts)
150W MP HPF (185 Watts)

SHIPPING DATA Approximate Net Weight: 26 lbs. (12 kgs.)



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Footcandle Table

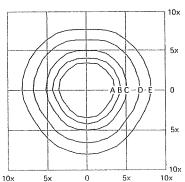
Select mounting height and read across for footcandle values of each isofootcandle line. Distance in units of mounting height.

Footcandle Values for Height Isofootcandle Lines

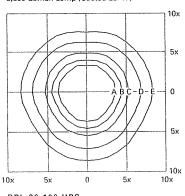
	Α	В	С	D	E
42"	1.20	0.60	0.30	0.12	0.06
36"	2.00	1.00	0.50	0.20	0.10
32"	2.40	1.20	0.60	0.24	0.12
28"	3.20	1.60	0.80	0.32	0.16
24"	4.40	2.20	1.10	0.44	0.22

100-Watt MP

7,900-Lumen Lamp (Coated ED-17)

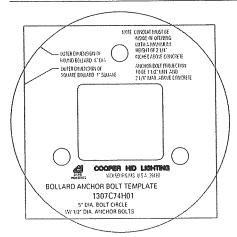






BRL-36-100-HPS 100-Watt HPS 8,800-Lumen Lamp (Coated ED-17)

ANCHOR BOLT TEMPLATE (NOT TO SCALE)

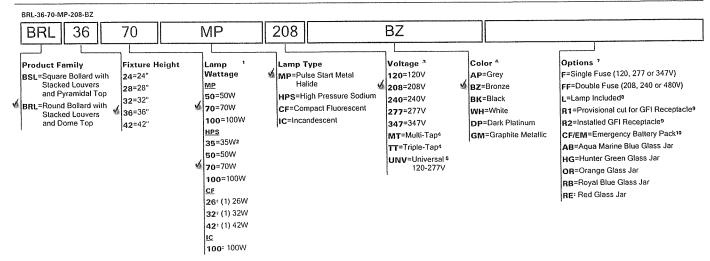


ORDERING INFORMATION

7,900-Lumen Lamp (Coated ED-17)

BRL-36-100-MP

100-Watt MP



- HID lamps are medium base, 175W MH is available for non-U.S. markets only.
 - 35W HPS available in 120V only.
 - Products also available in non-US voltages and 50Hz for international markets. Consult factory for availability and ordering information. 3
 - Multi-Tap ballast is 120/208/240/277V wired 277V. Triple-Tap ballast is 120/277/347V wired 347V.
 - Compact Fluorescent only Electronic ballast universal voltage 120-277V.
 - Other finish colors available, including a full line of RAL color matches. Consult your Cooper Lighting Representative.
 - Add as suffix in the order shown
 - Coated lamp standard. Must specify clear lamp if desired.
 - Location of R1 and R2 option on housing subject to height of luminaire.
 - CF lamps only, rated minimum operating temperature 32° F (0° C).



DESCRIPTION

The IMPACT Elite Cylinder 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.

McGRAW-EDISON®

Catalog #	Туре
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SPECIFICATION FEATURES

Construction

Two-piece die-cast aluminum housing and removable hinged door frame nests 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 50-175W HID or 26-84W CF. Emergency power pack available for 26-64W 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.

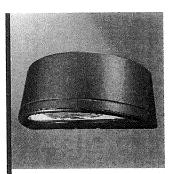
Mounting

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 premium 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.



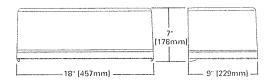


ISC IMPACT ELITE CYLINDER

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

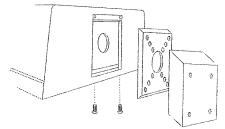
FULL CUTOFF
WALL MOUNT LUMINAIRE

STANDARD DIMENSIONS

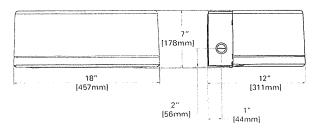


HOOK-N-LOCK MOUNTING

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



DIMENSIONS WITH BACK BOX



IMPACT"

TECHINAL DATA

UL1598 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 (66 Watts)
50W MP HPF (72 Watts)
70W HPS HPF (91 Watts)
70W MP HPF (90 Watts)
100W HPS HPF (130 Watts)
100W MP HPF (129 Watts)
150W HPS HPF (190 Watts)
150W MP HPF (185 Watts)

Electronic Ballast Input Watts

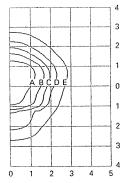
26W CF HPF (29 Watts) 32W CF HPF (36 Watts) 42W CF HPF (46 Watts) 52W CF HPF (55 Watts)

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

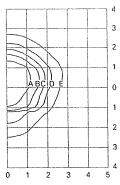


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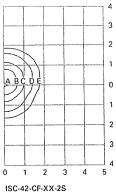
ISC-150-MP-XX-2S 150—Watt MP 14,000—Lumen Clear Lamp



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

14 (1) or (2) 12V bi-pin lamp, socket GU5.3 base, 35W maximum. Power supplied by low voltage DC source

15 Specify 120 or 277V, (-18°C) minimum temperature. Not available with UPL10 or UPL50. 16 Specify 120 or 277V, (0°C) minimum temperature. Not available with UPL10 or UPL50.



ISC-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 Footcandle Values for Height Isofootcandle Lines D 150-MP / 150-HPS 2.88 1.44 0.72 0.29 10 7.20 0.20 2.00 1.00 0.50 12 5.00 14 0.07 3.65 1.46 0.37 42-CF 0.25 0.12 18' 2.46 1.23 0.62 20' 2.00 1.00 0.50 0.20 0.10

0.64

0.32

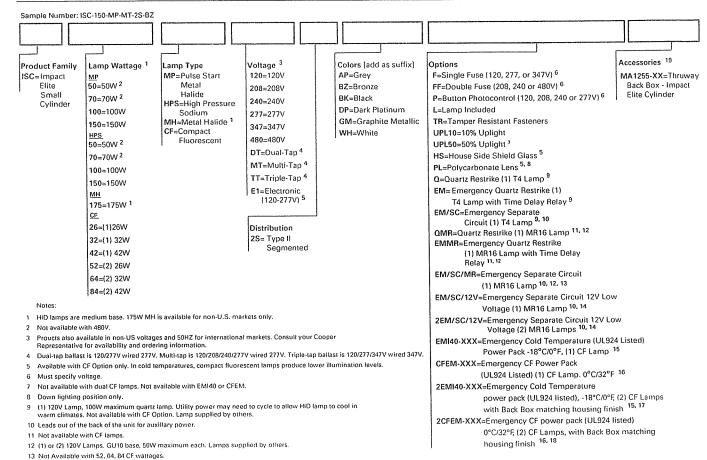
0.13

0.06

25

1.28

ORDERING INFORMATION





(supplied by others). Lamps supplied by others

19 Order separately. Replace "XX" with color designation.

17 Not available in 84CF configuration 18 Available in 52CF only.

HALO Commercial

DESCRIPTION

Recessed 6 inch aperture lens downlight for vertical ED17P metal halide lamp. Electronic ballast suitable for 120 volt or 277 volt operation. Fixture is suitable for commercial construction and wet location listed. Insulation must be kept 3" from top and sides of housing. Specify housing and trim separately to complete luminaire.

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SPECIFICATION FEATURES

MECHANICAL Frame

Boat shaped galvanized steel frame with 1/2" plaster lip accommodates ceilings up to 2" thick. May be used for new construction or remodeling installations. Provided with (2) remodel clips to secure frame when installed from below the ceiling.

Mounting Brackets

Bar hanger receivers adjusts 2" vertically from above the ceiling or thru the aperture. Use with No Fuss™ bar hangers or with 1/2" EMT. Removable to facilitate installation from below the ceiling.

No Fuss™ Bar Hangers

Pre-installed and centered bar hanger locks to tee grid with a screwdriver or pliers. Centering marks on the bar hanger mechanism allows consistent positioning of fixtures.

OPTICAL Reflector

One piece aluminum reflector secures lens in place with integrated spring clips for a

visually comfortable optic and allows for tool-less lens exchange from below the ceiling. Available with clear, diffuse, prismatic, fresnel or drop opal glass lens. Self flanged standard.

- Specular Reflectors Polished flange standard with white painted flange option.
- Baffles and White Reflector -White painted flange standard.

Trim Retention

Reflector is retained with two torsion springs and held tightly to the finished ceiling surface.

ELECTRICAL Junction Box

(6) 1/2" and (2) 3/4" trade size pry outs positioned to allow straight conduit runs. Listed for (12) #12 AWG (six in, six out) 90°C conductors and feed thru branch wiring.

Lamp Socket

Pulse rated E26 medium base protected porcelain socket with nickel plated brass screw shell accepts open fixture rated (protected) lamp only.

Socket Cap

One piece metal cap attached securely to reflector with turn and lock mechanism.

Control Gear

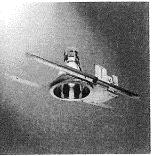
Dual input 120V/277V or 347V electronic ballast.

Insulation Detector

Self heating insulation detector opens circuit if insulation is improperly installed.

Code Compliance

- -Thermally protected and cULus listed for wet locations.
- IP44 rated for lens trims.
- EMI/RFI per FCCTitle 47 CFR, Part 18, non consumer limits.
- High efficacy luminaire may be used to meet IECC, ASHRAE and Title 24 commercial standards.
- Meets California T20 and Federal EISA ballast efficiency standards.



PD6V50E PD6V70E PD6V100E 60V

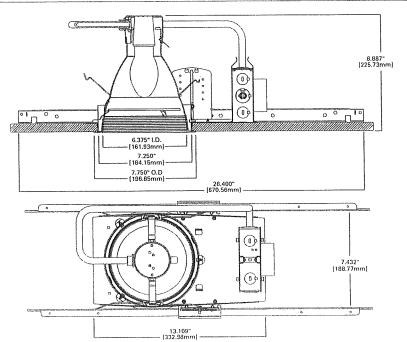
50, 70, 100W ED17P

Metal Halide

6-Inch Aperture Lens Downlight

New Construction or Remodel Non-IC

DIMENSIONS



ENERGY DATA

PD6V50E, PD6CPV50E		
Min. Starting Temp -15°C, +5°F	Sound Rating Class A	
EMI/RFI Emissions FCC 47CFR Part 18 Non-Consumer Limits		
Input Frequency 50/60 Hz	Power Factor > 0.95	
THD < 10% @ 120V	Input Voltage 120V/277V ±10%	
THD < 13% @ 277V		
Crest factor < 1.5	Ballast factor 1.00	
Operating Frequency 140 Hz	cULus Listed, Type 1 Outdoor	
	Input Power 58W @ 120V	
50ED17P, MHC50/U/MPX	Input Power 57W @ 277V	
50ED17, MXR50/U/MED/0 50ED17, MP50/U/MED	Input Current 0.50A @ 120V	
•	Input Current 0.23A @ 277V	

PD6V503E		
Min. Starting Temp -30°C, -22°F	SOUND RATING CLASS A	
EMI/RFI Emissions FCC 47CFR Part 18 Non-Consumer Limits, Subparts C		
Input Frequency 50/60 Hz	Power Factor > 0.99	
THD < 10%	Input Voltage 347V ±10%	
Crest factor < 1.6	Ballast factor 1.00	
Operating Frequency 170 Hz	UL Listed, cUL Certified, Class P, Type 1 Outdoor, HL	
50ED17P, MHC50/U/MPX	Input Power 56W	
50ED17, MXR50/U/MED/0 50ED17, MP50/U/MED	Input Current 0.16A @ 347V	

PD6V70E, PD6CPV70E		
Min. Starting Temp -15°C, +5°F	Sound Rating Class A	
EMI/RFI Emissions FCC 47CF Limits	R Part 18 Non-Consumer	
Input Frequency 50/60 Hz	Power Factor > 0.95	
THD < 6% @ 120V	Input Voltage 120V/277V ±10%	
THD < 12% @ 277V		
Crest factor < 1.5	Ballast factor 1.00	
Operating Frequency 140 Hz	cULus Listed, Type 1 Outdoor	
	Input Power 81W @ 120V	
70ED17P, MHC70/U/MP 70ED17, MXR70/U/MED/0 70ED17, MP70/U/MED	Input Power 80W @ 277V	
	Input Current 0.69A @ 120V	
**************************************	Input Current 0.30A @ 277V	

PD6V703E		
Min. Starting Temp -30°C, -22°F	SOUND RATING CLASS A	
EMI/RFI Emissions FCC 47CFR Part 18 Non-Consumer Limits, Subparts C		
Input Frequency 50/60 Hz	Power Factor > 0.99	
THD < 10%	Input Voltage 347V ±10%	
Crest factor < 1.6	Ballast factor 1.00	
Operating Frequency 170 Hz	UL Listed, cUL Certified, Class P, Type 1 Outdoor, HL	
70ED17P, MHC70/U/MP	Input Power 80W	
70ED17, MXR70/U/MED/0 70ED17, MP70/U/MED	Input Current 0.23A @ 347V	

PD6V100E,	PD6CPV100E	
Min. Starting Temp -15°C, +5°F	Sound Rating Class A	
EMI/RFI Emissions FCC 47CFR Part 18 Non-Consumer Limit		
Input Frequency 50/60 Hz	Power Factor > 0.95	
THD < 8% @ 120V	Input Voltage 120V/277V ±10%	
THD < 11% @ 277V		
Crest factor < 1.5	Ballast factor 1.00	
Operating Frequency 140 Hz	cULus Listed, Type 1 Outdoor	
	Input Power 112W @ 120V	
100ED17P, MHC100/U/MP 100ED17, MXR100/U/MED/O 100ED17, MP100/U/MED	Input Power 109W @ 277V	
	Input Current 0.96A @ 120V	
	Input Current 0.43A @ 277V	

PD6V	1003E	
Min. Starting Temp -30°C, -22°F	Sound Rating Class A	
EMI/RFI Emissions FCC 47CFR Subparts C	Part 18 Non-Consumer Limits,	
Input Frequency 50/60 Hz	Power Factor > 0.99	
THD < 10%	Input Voltage 347V ±10%	
Crest factor < 1.6	Ballast factor 1.00	
Operating Frequency 170 Hz	UL Listed, cUL Certified, Class P, Type 1 Outdoor, HL	
100ED17P, MHC100/U/MP	Input Power 108W	
100ED17, MXR100/U/MED/0 100ED17, MP100/U/MED	Input Current 0.31A @ 347V	

ORDERING INFORMATION

SAMPLE NUMBER: PD6V70E 60V1GC

Order housing, reflector and lamp separately for a complete luminaire.

Housing
PD6V = 6 Inch vertical E26
{protected} PAR metal halide
PD6CPV = 6 Inch vertical E26
{protected} PAR metal halide,
CCEA listed (Chicago Plenum)

Wattage / Ballast Option 39E = 39W MH, M130, 120V/277V 393E = 39W MH, M130, 347V 70E = 70W MH, M98, M139, 120V/277V 703E = 70W MH, M98, M139, 347V 100E = 100W MH, M90, M140, 120V/277V 1003E = 100W MH, M90, M140, 347V

Reflector Lens Opt 60V = 6" vertical 1G=Prism 2G=Diffu

Lens Option 1G=Prismatic Glass 2G=Diffuse Glass 3G=Clear Glass 4G=Fresnel Glass Finish Option
C=Specular Clear
G=Specular Gold
H=Semi Specular Clear
W=White (White Flange)
BB=Black Baffle (White Flange)
WB=White Baffle (White Flange)

Polymer "Dead Front" Trim 1
1GDF=Prismatic Glass with "Dead Front" Trim
2GDF=Diffuse Glass with "Dead Front" Trim
3GDF=Clear Glass with "Dead Front" Trim
4GDF=Fresnel Glass with "Dead Front" Trim
5GDF=Drop Opal Glass with "Dead Front" Trim

Flange Option Blank=Polished Flange (C, G, H) Blank=White flange (W, BB, WB) WF=White Flange (C, G, H) Accessories
HB128APK = L channel hanger
bar, 26", 'No-Fust',
pair (replacement)
RMB22 = 22" long wood joist
mounting bars

Note:

1"DF" trim option includes Specular Clear (C) reflector and white polymer flange only. No other finish or flange options apply.



PHOTOMETRY

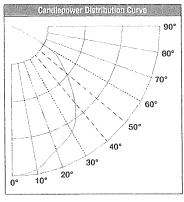
PD6V100E-60V1GC_M100

Spacing Criteria = 1.22

Lumens per Watt = 42 LpW

Test No. P21694

Test Model: PD6V100E-60V1GC_M100



Gandela 1	stribution
Degrees Vertical	Candela
0*	1967
5	1945
15	1812
25	1666
35	1486
45	1116
55	786
65	228
75	9
85	3
90	0
L	1

*CBCP

Luminance			
(Average Candela/M²)			
Degree	Avg. 0° Luminance		
45	64014		
55	51269		
65	17865		
75	918		
85	458		

e j	Cone of Light Footcan	dles	
Distance to	Initial Nadir Footcandles	Beam (ft.)	
Illuminated Plane		L Length	W
5.5'	65	6.7	6.7
7'	40	8.5	8.5
8'	31	9.7	9.7
9'	24	10.9	10.9
10'	20	12.2	12.2
12'	14	14.6	14.6
14'	10	17	17

Beam diameter is to 50% of maximum footcandles, rounded to the nearest half-foot. Footcandle values are initial, apply appropriate light loss factors where necessary.

Zonal Lumen Summary				
Zone	Lumens	% Lamp	% Fixture	
0-30	1465.65	18.60	34.70	
0-40	2387.9	30.20	56.60	
0-60	3949.09	50,00	93.50	
0-90	4221.72	53.40	100.00	

