



690 Chesterfield Pkwy W • Chesterfield MO 63017-0760
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Architectural Review Board Staff Report

Project type: Site Development Section Plan

Meeting Date: November 10, 2011

From: Kristian Corbin, Project Planner

Location: Chesterfield Commons Six, Lot 5A

Applicant: THF & Herschman Architects, Inc.

Description: **Chesterfield Commons Six, Lot 5A (Hhgregg):** A Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architects Statement of Design for a 2.43 acre “C8” Planned Commercial District–zoned property located south of Interstate 40 and west of the intersection of Boone’s Crossing and Chesterfield Airport Road.

PROPOSAL SUMMARY

The request is for a forty-five (45) foot tall 24,567 square foot retail structure located on Lot 5A of the Chesterfield Commons Six subdivision. The subject site is 2.43 acres in size and is zoned “C8” Planned Commercial District governed under the terms and conditions of City of Chesterfield Ordinance 2096. The exterior building materials will be comprised of brick, arriscraft stone and E.I.F.S. The roof will be comprised of a sloped roof membrane with parapet walls.

HISTORY OF SUBJECT SITE

Lot 5A is part of the Chesterfield Commons Six subdivision which was zoned “C8” Planned Commercial District in 1988 via St. Louis County Ordinance 13,933. In May of 2004, City of Chesterfield Ordinance 2096 repealed St. Louis County Ordinance 13,933 to permit Drive-Through restaurants and to increase the total allowable height of light fixtures.



STAFF ANALYSIS

General Requirements for Site Design:

A. Site Relationship

Addressed as Written Addressed with Modification Not Applicable

The subject site has a similar layout to the surrounding structures. Parking is located on the south side of the site with access to said parking lot from Arnage Drive.

B. Circulation and Access

Addressed as Written Addressed with Modification Not Applicable

Access to the site is via southern entrances off of Arnage Road on the south portion of the site. Staff is working with the petitioner to utilize different materials, textures and/or colors to improve pedestrian safety from the main parking area to the building entrance.

C. Topography

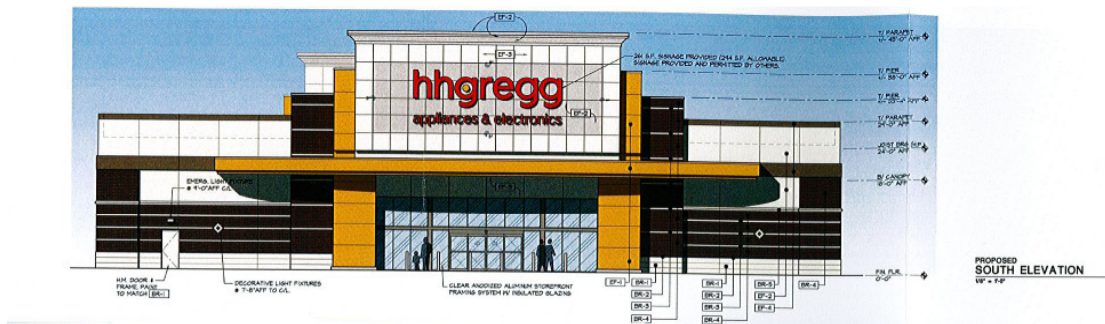
Addressed as Written Addressed with Modification Not Applicable

The subject site is primarily flat. Minimal changes in elevations are proposed.

D. Retaining Walls

Addressed as Written Addressed with Modification Not Applicable

No retaining walls are proposed for the subject site.



General Requirements for Building Design:

A. Scale

Addressed as Written Addressed with Modification Not Applicable

Amini's to the east of the proposed building was approved at fifty-three (53) feet six (6) inches in height while the strip retail structure and Bentley Car dealership to the west of the subject site are respectively twenty-seven (27) feet and thirty-one (31) feet two (2) inches in height. The Hhgregg structure is proposed to be at forty-five (45) feet at its tallest point with the majority being at twenty-nine (29) feet. The majority of the proposed structure on the subject site sits slightly higher than the structures to the west but will be lower than Aimini's.

B. Design

Addressed as Written Addressed with Modification Not Applicable

The overall design of the building is in keeping with the surrounding properties in having a comparable color palette and materials.

C. Materials and Color

Addressed as Written Addressed with Modification Not Applicable

The overall design of the building is in keeping with the surrounding properties having a comparable palette of materials and colors.

D. Landscape Design and Screening

Addressed as Written Addressed with Modification Not Applicable

Landscaping will be used to screen the service access at the rear of the building. The site will have a trash compactor within the building which is accessed via a disposal door. This door is proposed to be painted to match the surrounding masonry to blend in with the structure for screening purposes. Parapets will be utilized to screen all roof top equipment from adjacent properties.

E. Signage

Addressed as Written *Addressed with Modification* *Not Applicable*

Signage is not submitted for approval at this time. Signage will be reviewed against the Sign Package for the site and will be approved by Staff.

F. Lighting

Addressed as Written *Addressed with Modification* *Not Applicable*

Decorative wall mounted fixtures are proposed to be placed along all four elevations and commercial lighting in the parking area. Each of these fixtures will be reviewed against the City of Chesterfield Lighting Ordinance for compliance.

Use Type: Commercial and Industrial Architecture

Access: Service and loading areas are located in the rear of the development along with a trash compactor.

Exterior Elements: Addressed above in the Requirements for Building Design.

Landscaping and Screening: Building equipment will be screened by parapets. Service and loading areas are located at the rear of the building screened by vegetation.

Scale: Addressed above in the Requirements for Building Design.

Site Design: Equipment and utilities are located in areas not visible from public streets, surface parking lots and neighboring properties.

DEPARTMENTAL INPUT

Staff is reviewing the Site Development Section Plan, Landscape Plan, Lighting Plan and Architectural Elevations for conformance with the City of Chesterfield Ordinance 2096, and all other applicable Zoning Ordinance Requirements. Staff requests action on the Site Development Section Plan for Chesterfield Commons Six, Lot 5A (Hhgregg).

MOTION

The following options are provided to the Architectural Review Board for consideration relative to this application:

- 1) "I move to forward the Site Development Section Plan, Landscape Plan, Lighting Plan and Architectural Elevations for Chesterfield Commons Six, Lot 5A (Hhgregg) as presented, with a recommendation for approval (or denial) to the Planning Commission."

Chesterfield Commons Six, Lot 5A (Hhgregg)
Architectural Review Board
November 10, 2011

2) "I move to forward the Site Development Section Plan, Landscape Plan and Architectural Elevations for Chesterfield Commons Six, Lot 5A (Hhgregg) to the Planning Commission with the following recommendations..."

Attachments

1. Architectural Review Packet Submittal



ARCHITECTURAL REVIEW BOARD
Project Statistics and Checklist



Date of First Comment Letter Received from the City of Chesterfield 10-26-11

Project Title: hgregg Location: 17383 Chesterfield Airport Road

Developer: Summit Realty Leasing & Management Corp. Architect: Herschman Architects, Inc. Engineer: CEDC

PROJECT STATISTICS:

Size of site (in acres): 2.43 Total Square Footage: 24,567 Building Height: 45'-0" Element
22'-0" Wall

Proposed Usage: Retail

Exterior Building Materials: Brick, Arriscraft stone, E.I.F.S.

Roof Material & Design: Sloped roof membrane system to rear of building with parapet walls.

Screening Material & Design: Parapet Walls

Description of art or architecturally significant features (if any): See Architectural write-up attached

ADDITIONAL PROJECT INFORMATION:

Checklist: Items to be provided in an 11" x 17" format

- Color Site Plan with contours, site location map, and identification of adjacent uses.
- Color elevations for all building faces.
- Color rendering or model reflecting proposed topography.
- Photos reflecting all views of adjacent uses and sites.
- Details of screening, retaining walls, etc.
- Section plans highlighting any building off-sets, etc. (as applicable)
- Architect's Statement of Design which clearly identifies how each section in the Standards has been addressed and the intent of the project.
- Landscape Plan.
- Lighting cut sheets for any proposed building lighting fixtures. (as applicable)
- Large exterior material samples. (to be brought to the ARB meeting)
- Any other exhibits which would aid understanding of the design proposal. (as applicable)
- Pdf files of each document required.

October 19, 2011

**Re: Chesterfield Commons Six – HH Gregg
Chesterfield, Missouri**

ARCHITECTS STATEMENT

The following items identify how the City of Chesterfield Architectural Review Board guidelines are being addressed for the above mentioned project:

INTRODUCTION

The Chesterfield Commons development has provided the City of Chesterfield with quality business and commercial development in the Chesterfield Valley. Summit Realty brings you a new addition to the Chesterfield Commons development. HH Gregg will be located on Lot 5 of Chesterfield Commons Six which is located directly West of Amini's. The building will imitate the architectural style and scale of the surrounding Chesterfield Commons Six development. The site is located on the North side of Chesterfield Airport Road and backs up to the Highway 40 Right-of-way.

The new HH Gregg building will provide approximately 24,500 S.F. of new Retail space. Vehicular movement to and through the site to parking and building entries is convenient, expedited by the inner development drive, Arnage Road.

GENERAL REQUIREMENTS FOR SITE DESIGN

A. Site Relationships

The site consists of 2.43 acres and is a flat parcel of land. Finish grading will be required to prepare the building pad, but there will not be a significant change in the pad elevation. No retaining walls will be required to tie grades to adjacent properties. The building's general orientation is intended to make its frontage and entries plainly visible to the surrounding access roadways while using landscaping and screen walls to screen its service and trash enclosures from the neighboring roadways. Wide walkways are included to establish safe, recognizable and convenient pedestrian access to the building's entry doors.

B. Circulation System & Access

Vehicular and pedestrian patterns are simple and direct. Vehicular access is provided via the interior development drive Arnage Road and cross access with Amini's to the East. The building is centrally located in the parking lot and the parking field is kept as close as possible to the entry elements. This eliminates the need for pedestrians' path of travel to cross multiple vehicular drive aisles to access the building. Walkways are provided to separate pedestrians from vehicular movements whenever possible. The radii on the proposed pavement areas are such that emergency, delivery and waste hauling vehicles can easily access and circulate through the site. The development is not on the City Bikeway and we have not incorporated an internal bike circulation system. Bikes may be parked in non-handicap spaces at near the entrance to the building, which is highly visible. Landscaped areas are provided adjacent to the building as well as in the parking surface itself, establishing a visual landscape foreground for each of the building's elevations.

C. Topography

1. Due to the flatness of the development it is not possible to incorporate berms or other forms of topography to screen each portion of the development. All surrounding areas are commercial and of similar use.
2. Minimal changes will be made to the existing topography of the site.
3. All grade changes will be soft, smooth, and pleasing to the eye. There will not be any abrupt changes in grade.

D. Retaining walls

1. There are not any retaining walls proposed for this project.
2. There are not any retaining walls proposed for this project.
3. There are not any retaining walls proposed for this project.
4. There are not any retaining walls proposed for this project.
5. There are not any retaining walls proposed for this project.

GENERAL REQUIREMENTS FOR BUILDING DESIGN

A. Scale

Building elements are highly compatible in scale and general color appearance with the neighboring buildings. The main objective is to create an attractive and clear expression of the building through the use of inset glass and canopy projections that will attract favorable attention to itself with its unique design while creating through common materials continuity with the adjacent buildings.

B. Design

1. The building incorporates a combination of masonry, textured paint coatings, and glass materials to create variety in the design's composition, while maintaining a strong architectural rhythm horizontally and vertically across the building's elevations.
2. Landscaping will be used in the landscape islands to break up the building façade to avoid linear repetitiveness.
3. The building utilizing some of the corporate trade dress colors coupled with the traditional Chesterfield Commons materials to provide some identity but logos and other franchise designs have been avoided.
4. All building elevations will be architecturally enhanced to clearly define the architectural unity of the constituent building and so that each elevation is presentable to public view. Masonry wainscoting, horizontal banding and texture changes are utilized to articulate the facades particularly at street level.
5. There are not any sculptures or other art elements currently proposed.
6. This building is responsive to energy conservation by the use of insulating material throughout as well as the deep overhangs of the front façade protect the glass storefront.

7. The use of concrete and masonry which are recyclable materials are used as environmentally conscious building techniques and materials.
8. Deep entry recesses and roof overhangs are used to cover and articulate the building entry.
9. There are not any plans for temporary barrier walls.
10. Rooftop units will receive screening from parapet walls so they are not visible from adjacent right-of-ways or properties.

C. Materials and Colors

The design, general scale, and orientation of the buildings are intended to reinforce and create a cohesive visual relationship between the neighboring Chesterfield Commons development and this proposed development. The building incorporates a combination of masonry, textured paint, and glass materials to create variety in the design's composition, while maintaining a strong architectural rhythm horizontally and vertically across the building's elevations.

D. Landscape Design and Screening

The Landscape design has been prepared by Landscape Technologies to tie into the overall development landscaping. A mixture of deciduous and evergreen trees and shrubs has been used to provide color and interest all year round. All landscape beds are protected from motor vehicles by raised concrete curbs. Service access to the buildings is screened by landscaping and masonry screen walls and is located at the least visible corner of the building.

E. Signage

1. It is understood that signage will require a separate review. The building sign location has been integrated into the building design.
2. It is understood that signage will require a separate review. The project consists of new construction.

F. Lighting

It is understood that the site lighting is not reviewed as part of the ARB process, however the lighting proposed complies with the City of Chesterfield requirements. There is minimal spill over onto adjacent right-of-ways and all exterior fixtures have fully cut-off lenses.

SPECIFIC REQUIREMENTS FOR THE CHESTERFIELD VALLEY

The materials and architectural treatments are utilized on all sides of the building. The building faces away from Highway 40 and the main parking field is located on the south side of the building away from the Highway 40 Right-of-way. Trash and storage will be in the rear of the building and will be screened with masonry screen walls to match the building. All new utilities will be installed underground.

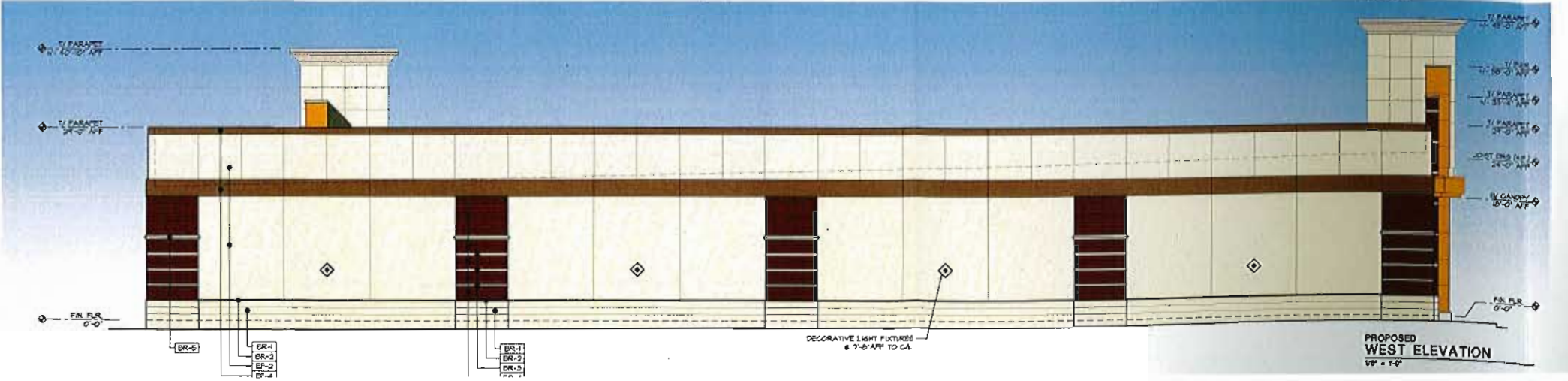
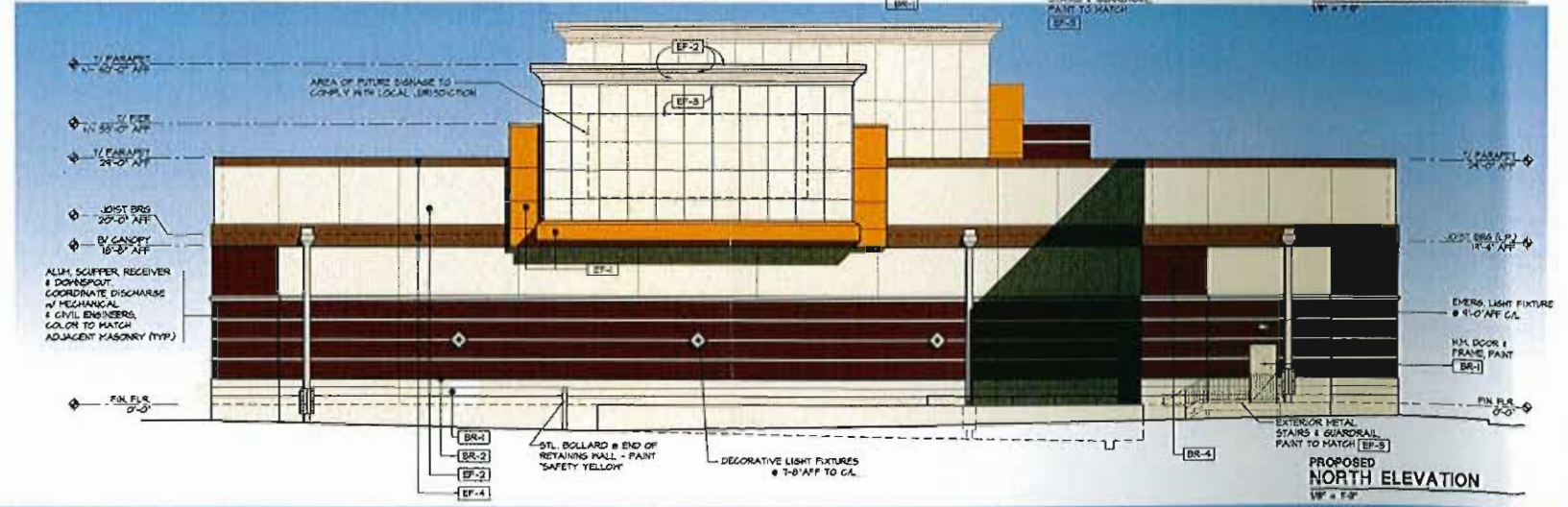
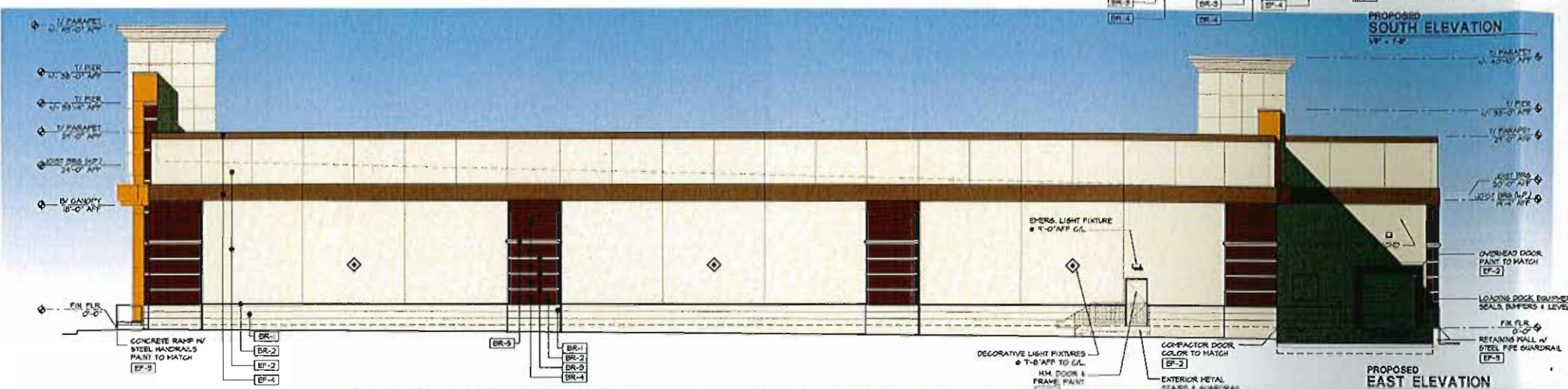
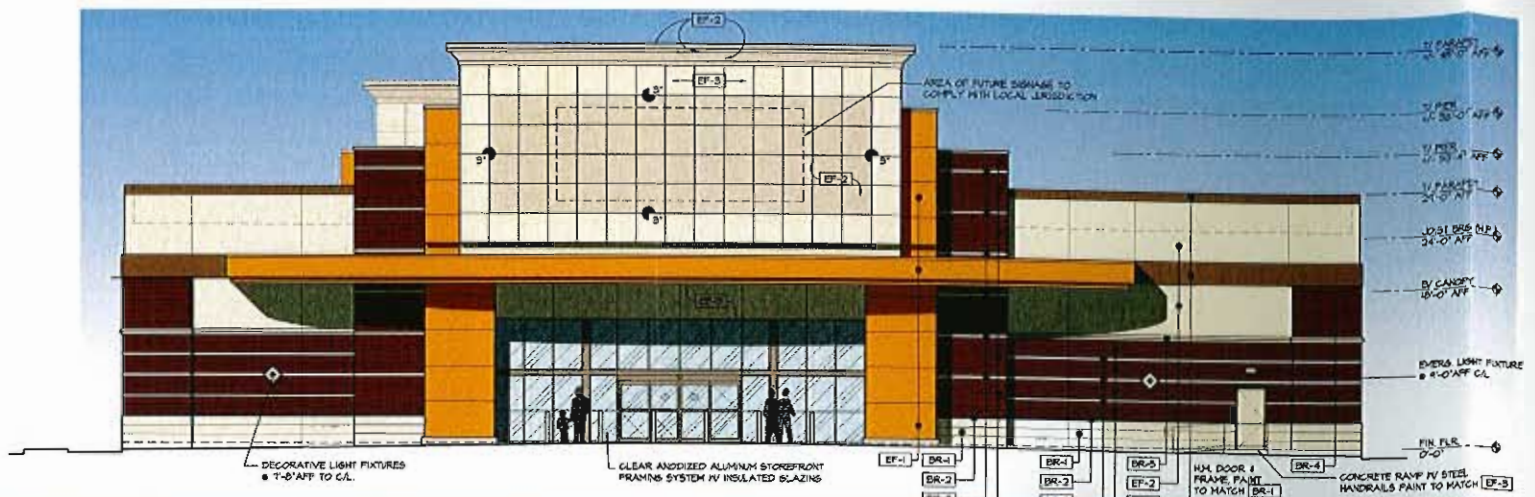
CONCLUSION

In conclusion, we feel that this site and building design results in a wonderful addition to the development of Chesterfield Valley and is an exciting addition to the commercial environment in the City of Chesterfield.

Respectfully Submitted by:
TR,i Architects

EXTERIOR FINISH SCHEDULE	
MARK	MATERIAL/FINISH
BR-1	SPLIT-FACE BLOCK 12" x 24" NOM, COLOR: WHITE BY ARRISGRAFT STONE
BR-2	PRECAST CONC. (A) - DIAMOND PROFILE ACCENT BAND COLOR: NATURAL CONC.
BR-3	ACCENT BRICK (4"X12" NOM) COLOR: STEEL GREY - BLENDING BY AGNE
BR-4	FIELD BRICK (4"X12" NOM) COLOR: MEDIUM IRONSPOT #46 BY ENDICOT
BR-5	PRECAST CONC. (B) - DIAMOND PROFILE ACCENT BAND COLOR: NATURAL CONC.
EF-1	E.I.F.S. LYNSTONE FINISH COLOR: TO MATCH SHERMAN 'GUSTO GOLD' BY SHERMAN WILLIAMS
EF-2	E.I.F.S. SANDBLAST FINISH COLOR: TO MATCH #546080 'TUTTERLY BEAUT' BY SHERMAN WILLIAMS
EF-3	E.I.F.S. SANDBLAST FINISH COLOR: TO MATCH #546077 'EVERYDAY WHITE' BY SHERMAN WILLIAMS
EF-4	E.I.F.S. SANDBLAST FINISH COLOR: TO MATCH #546082 'COBBLE BROWN' BY SHERMAN WILLIAMS

NOTES:
 EXTERIOR INSULATION FINISH SYSTEM (E.I.F.S.) - MOISTURE-RESISTIVE BARRIER AS MANUFACTURED BY DRYVIT, 5/10' OR SENERGY
 SUBMIT E.I.F.S. SAMPLES TO ARCHITECT FOR APPROVAL.



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Date: Issue:
 10-31-11 ARS REVIEW

Drawn By: DLG
 Project No.: 12640

hgregg
 CHESTERFIELD COMMONS WEST
 CHESTERFIELD, MO
 ST. LOUIS COUNTY

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 2200 EMERY ROAD, SUITE 400
 CLEVELAND, OH 44118
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 www.herschmanarchitects.com

ELEV



Architects of the Possible®

BUILDING PERSPECTIVE

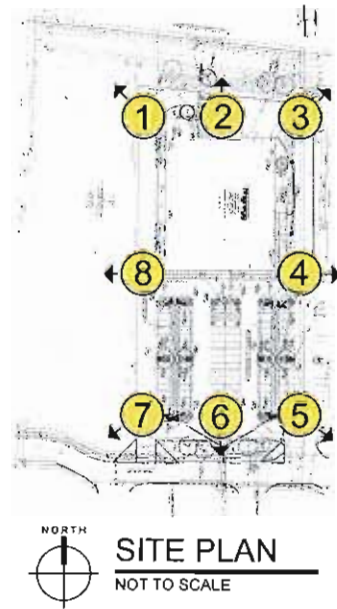
hgregg
at CHESTERFIELD COMMONS

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10-28-11



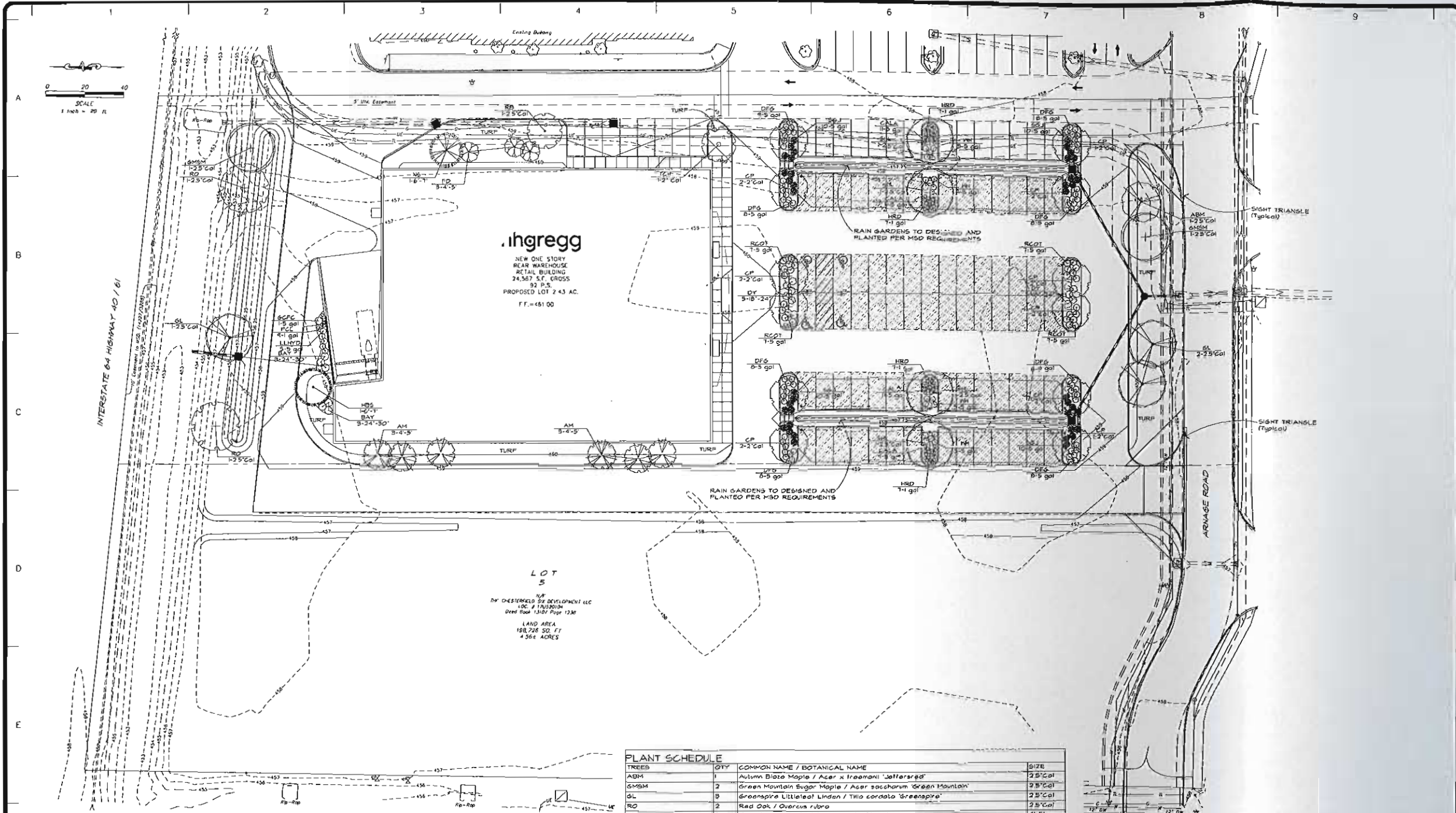
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LANDSCAPE REQUIREMENTS:

ALL DECIDUOUS TREES TO BE MINIMUM 2.5" CALIPER, ALL EVERGREEN TREES TO BE MINIMUM 6' TALL

ONE (1) STREET TREE PER 50 LF FRONTAGE

- @ HIGHWAY 40/61: 188.67 LF FRONTAGE; THEREFORE, FOUR (4) TREES ARE REQUIRED AND PROVIDED
- @ ARNAGE ROAD: 187.53 LF FRONTAGE; THEREFORE, FOUR (4) TREES ARE REQUIRED AND PROVIDED

SIGHT TRIANGLE (LINE OF SIGHT) ZONES SHALL BE MEASURED 30' BACK FROM INTERSECTING PROPERTY LINES AND A LINE CONNECTING THE TWO POINTS ON THE 30' SETBACKS

NO PARKING SPACE SHALL BE LOCATED FURTHER THAN 50' FROM A TREE

AN IN-GROUND AUTOMATIC IRRIGATION SYSTEM SHALL BE PROVIDED (By Others)

PLANT SCHEDULE			
TREES	QTY	COMMON NAME / BOTANICAL NAME	SIZE
ADH	1	Aulm Blate Maple / Acer x Freemanii 'Jattersred'	2.5" Cal
GMSM	2	Green Mountain Sugar Maple / Acer saccharum 'Green Mountain'	2.5" Cal
SL	3	Greenspire Littleleaf Linden / Tilia cordata 'Greenspire'	2.5" Cal
RO	2	Red Oak / Quercus rubra	2.5" Cal
AM	6	Flame Amr Maple / Acer ginnala 'Flame'	4"-5"
SHL	4	'Skyline' Locust / Stedalia triacanthos 'Skyline'	2.5" Cal
EVERGREEN TREES	QTY	COMMON NAME / BOTANICAL NAME	SIZE
HBS	1	Hoopsi Blue Spruce / Picea pungens 'Hoopsi'	6'-7'
NS	1	Norway Spruce / Picea abies	6'-7'
FLOWERING TREES	QTY	COMMON NAME / BOTANICAL NAME	SIZE
CP	2	Chanticleer Pear / Pyrus calleryana 'Chanticleer'	2" Cal
FD	3	Cherokee Princess Dogwood / Cornus florida 'Cherokee Princess'	4"-5"
RB	1	Redbud / Cercis canadensis	2.5" Cal
TCH	1	Thornless Cockspur Hawthorn / Crataegus crugallii var. inermis	2" Cal
SHRUBS	QTY	COMMON NAME / BOTANICAL NAME	SIZE
DY	10	Dense Yan / Taxus media 'Densiformis'	18"-24"
GFCG	1	Golden Charm False Cypress / Chamaecyparis pistera 'Golden Charm'	5 gal
LLHYD	5	Little Lime Hydrangea / Hydrangea paniculata 'Little Lime'	5 gal
BAY	6	Northern Bayberry / Myrica pensylvanica	24"-30"
PH	20	Red Spruce Winterberry / Ilex verticillata 'Red Spruce'	5 gal
RGOT	20	Rock Cataneaster / Galoneaster horizontalis	5 gal
SSJ	40	Sea Green Juniper / Juniperus chinensis 'Sea Green'	5 gal
ANNUAL/PERENNIAL	QTY	COMMON NAME / BOTANICAL NAME	SIZE
HRD	20	Happy Returns Daylily / Hemerocallis hybrid 'Happy Returns'	1 gal
FGL	4	Pink Chobis Lantana / Lantana maculatum 'Pink Chobis'	1 gal
GRASSES	QTY	COMMON NAME / BOTANICAL NAME	SIZE
DFG	60	Dwarf Fountain Grass / Pennisetum alopecuroides 'Hortini'	5 gal
CALA	44	Faerber's Reed Grass / Calamagrostis acutiflora 'Karl Faerber'	5 gal

REVISIONS	BY

landscape TECHNOLOGIES

417 JACOBS CIRCLE DRIVE
ST. LOUIS, MISSOURI 63104
MO LANDSCAPE ARCHITECTURE COMPANY 9000000102
TEL: (636) 432-1400 FAX: (636) 432-1400
DATE: OCTOBER 1, 2011

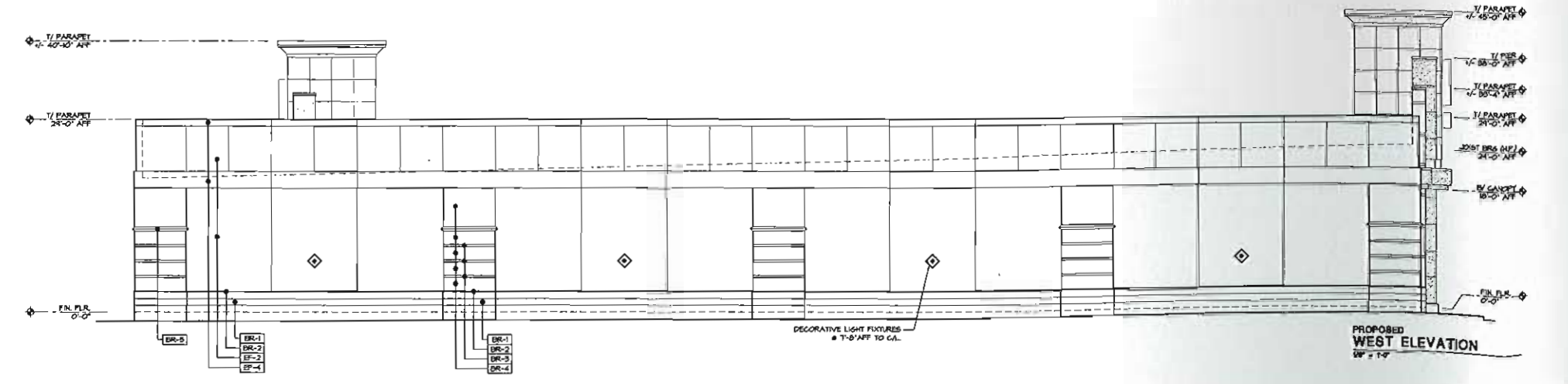
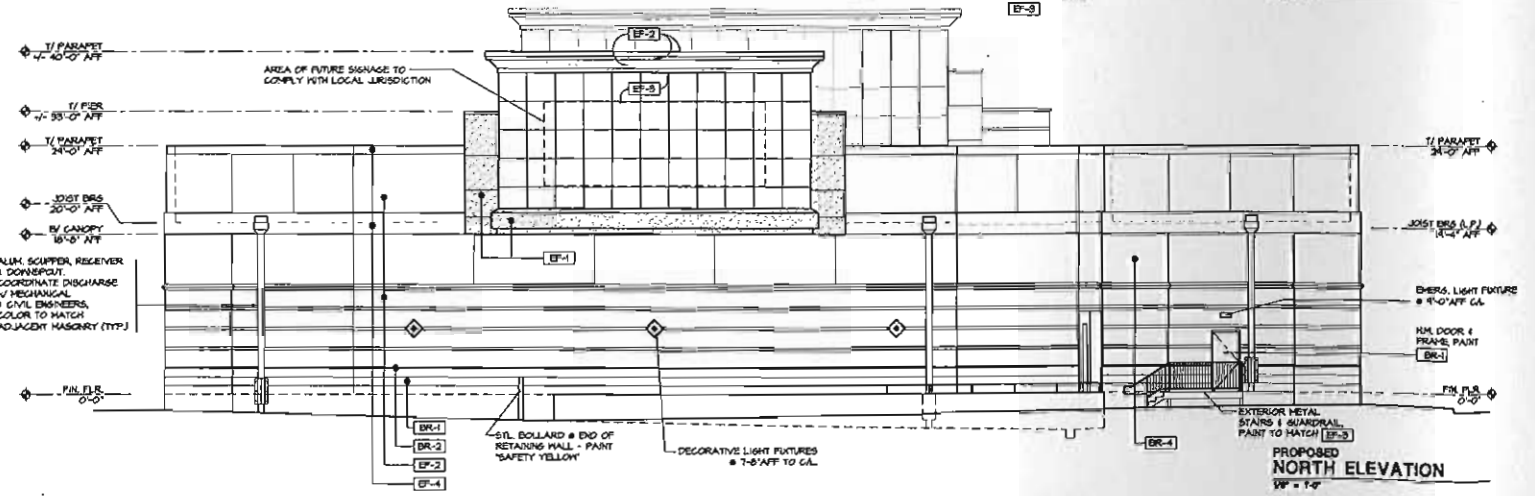
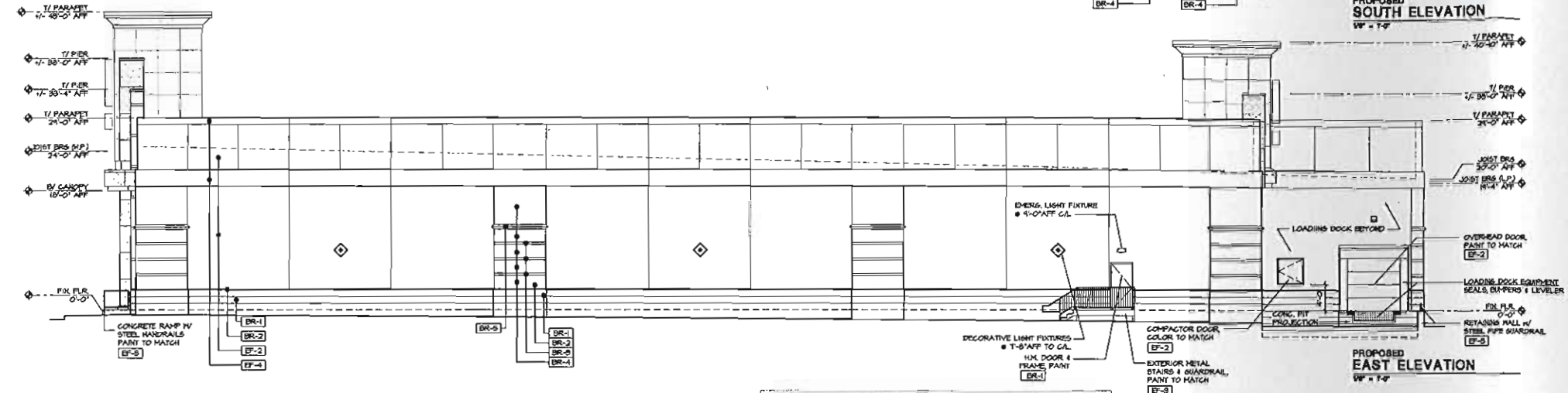
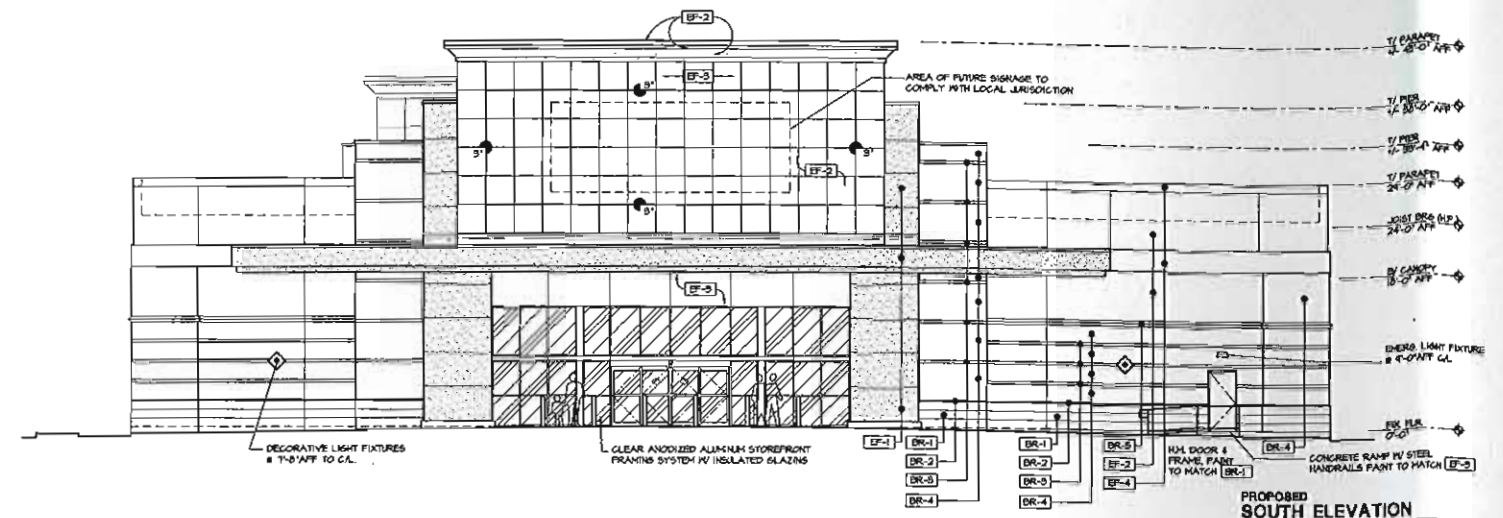
REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT

PLANTING PLAN FOR THE PROPOSED
hgregg
CHESTERFIELD, MISSOURI

DRAWN
N. HANCOCK
CHECKED
R. HANCOCK
DATE
OCT. 1, 2011
SCALE
1" = 20'-0"
JOB NO.
2011-01
SHEET
L-1
OF ONE SHEET

EXTERIOR FINISH SCHEDULE	
MARK	MATERIAL/FINISH
BR-1	SPLIT-FACE BLOCK (12" x 24" NOM), COLOR: WHITE BY ARRISGRAFT STONE
BR-2	PRECAST CONC. (8") - DIAMOND PROFILE ACCENT BAND COLOR: NATURAL CONC.
BR-3	ACCENT BRICK (4"X8" NOM) COLOR: STEEL GREY - BLENDED BY AGCE
BR-4	FIELD BRICK (4"X8" NOM) COLOR: MEDIUM REDSPOT #46 BY ENOICOT
BR-5	PRECAST CONC. (8") - DIAMOND PROFILE ACCENT BAND COLOR: NATURAL CONC.
EF-1	E.I.F.S. LYMESTONE FINISH COLOR: TO MATCH PHSB04 "GUSTO GOLD" BY SHERVIN WILLIAMS
EF-2	E.I.F.S. SANDBLAST FINISH COLOR: TO MATCH PHSB03 "VITERLY BOISE" BY SHERVIN WILLIAMS
EF-3	E.I.F.S. SANDBLAST FINISH COLOR: TO MATCH PHSB01 "EVERYDAY WHITE" BY SHERVIN WILLIAMS
EF-4	E.I.F.S. SANDBLAST FINISH COLOR: TO MATCH PHSB02 "COCODE DROWN" BY SHERVIN WILLIAMS

NOTES:
EXTERIOR INSULATION FINISH SYSTEM (E.I.F.S.) w/ MOISTURE-RESISTIVE BARRIER AS MANUFACTURED BY DRYVIT, STO OR SENERBY
SUBMIT E.I.F.S. SAMPLES TO ARCHITECT FOR APPROVAL.



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Date	Issue
10-31-11	ARCH REVIEW

Drawn By: DLG
Project No: 12640

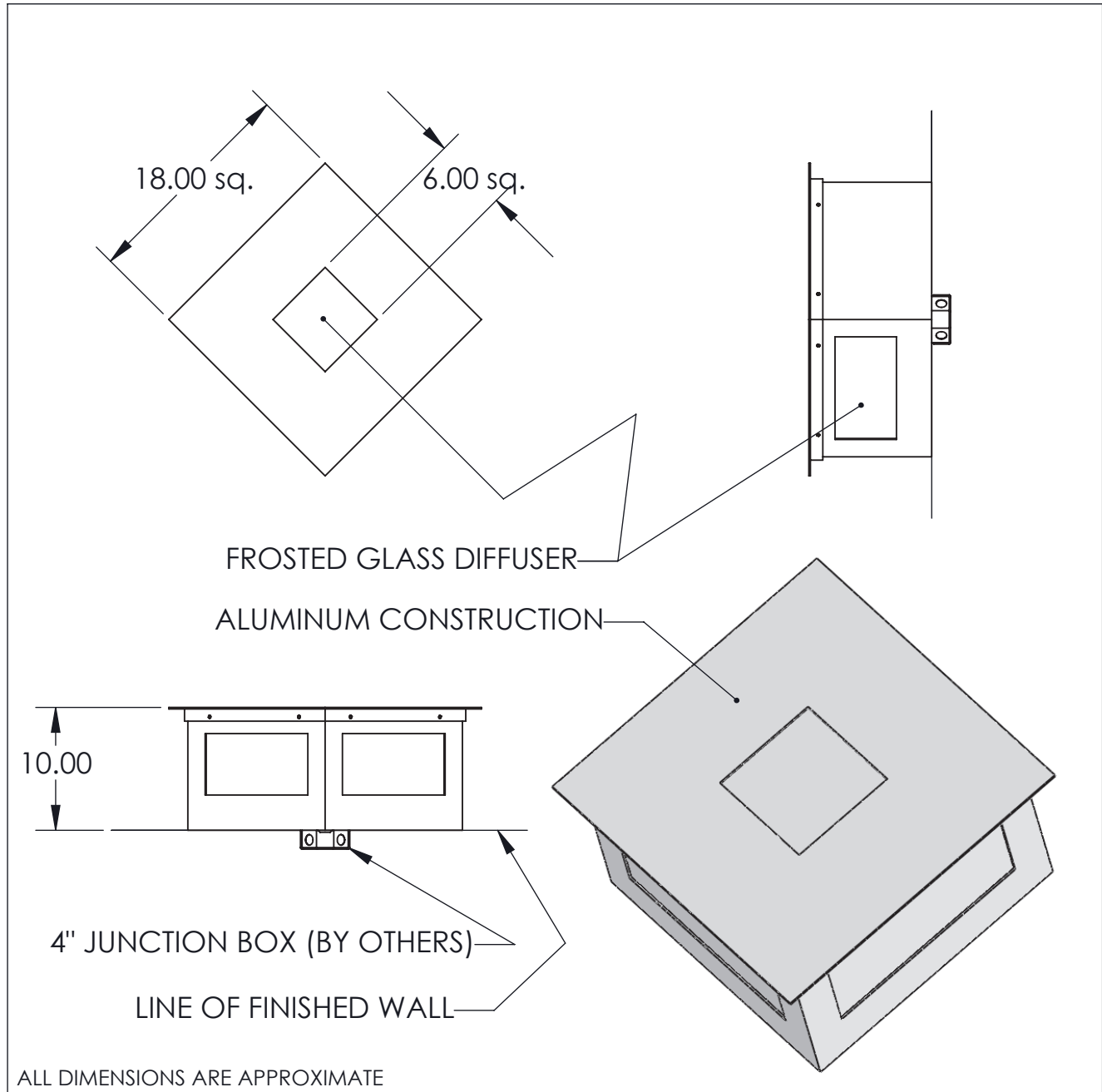
hgregg
CHESTERFIELD COMMONS WEST
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FAX: (216) 723-3210
www.herschmanarchitects.com

ELEV
EXTERIOR ELEVATIONS

TMS LIGHTING - LUMINAIRE APPROVAL DRAWING
Q17088 CUSTOM WALL SCONCE

TYPE:
REV.4



ALL DIMENSIONS ARE APPROXIMATE

GENERAL SPECIFICATIONS

- Body Assy: Aluminum Construction**
- Finish: F31 Silver Metallic**
- Diffuser: Frosted Glass**
- Lampholder: Medium Base**
- Ballast: Integral Electronic HPF 120/277V**
- Lamps: 1x70W MH (Supplied)**
- Mounting: Wall**

Fixture for Outdoor Application

PROPRIETARY & CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF TMS LIGHTING LTD. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF TMS LIGHTING IS STRICTLY PROHIBITED.

FEATURES & SPECIFICATIONS

INTENDED USE

For entrances, stairwells, corridors and other pedestrian areas.

CONSTRUCTION

Rear housing is rugged, corrosion-resistant, die-cast aluminum. Front cover is one-piece UV-resistant injection molded polycarbonate, internally painted. Captive external hardware is specially treated for corrosion resistance and includes slotted hex-head and tamperproof fasteners.

FINISH

Dark bronze (DDB) corrosion-resistant polyester powder.

OPTICAL SYSTEM

One-piece die-formed reflector is diffused aluminum. Refractor is clear UV stabilized polycarbonate, providing **IES cutoff** distribution and maximum lateral light output. Front cover is sealed and gasketed to inhibit the entrance of outside contaminants.

ELECTRICAL SYSTEM

Metal halide ballasts are high reactance, high power factor. HPS ballasts are reactor normal power factor. All HID ballasts are copper wound, 100% factory tested and UL listed. Porcelain, horizontally oriented medium-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 660W, 600V and 4kV pulse rated.

Compact fluorescent ballasts are magnetic normal power factor (22DTT, 28DTT) or multi-volt (120-277) electronic high power factor (26DTT, 26TRT, 32TRT and 42TRT) (Requires 4-pin lamp). UL Listed. Two-pin (22DTT and 28DTT) or four-pin (26DTT, 26TRT, 32TRT and 42TRT) positive latching thermoplastic socket.

All components are heat-sunked directly to the cast housing for maximum heat dissipation (For 50 hertz availability, consult factory).

INSTALLATION

Mount to any vertical surface or to a 4" round square outlet box. Back access through gasketed slot. Top wiring access through 1/2" threaded conduit entry. (Through-wiring requires use of a conduit tee). Photocells are field-installable.

LISTING

UL listed for wet locations. IP65 rated. UL Listed to US and Canadian safety standards (see Options). NOM Certified.

ORDERING INFORMATION

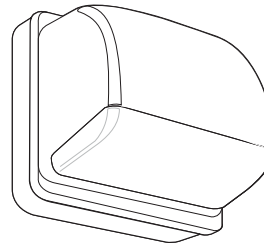
Choose the boldface catalog nomenclature that best suits your needs and write it on the appropriate line. Order accessories as separate catalog numbers (shipped separately).

TWAC		100M		277		DMB		LPI	
Series	Wattage			Voltage		Options			Lamp
TWAC	<u>Metal halide</u>			120		<u>Shipped installed in fixture</u>			LPI Lamp included (standard)
	50M	70M	100M	208²		SF Single fuse (120, 277, 347V) ⁵	CR Enhanced corrosion-resistance		
	<u>High pressure sodium</u>			240²		DF Double fuse (208, 240V) ⁵	CRT Non-stick protective coating ¹⁰		L/LP Less lamp
	35S	70S		277		GMF Internal slow-blow fusing ⁴	CSA Listed and labeled to comply with Canadian Standards		
	50S	100S		347		XHP High power factor ballast ⁴	NOM NOM Certified (consult factory)		
	<u>Compact fluorescent</u>			TB^{3,4}		EC Emergency circuit ^{7,8}	PE Photocell		
	22DTT¹	26TRT¹		MVOLT⁴		DC12 Emergency circuit 12 volt (35W lamp included std.) ⁹	<u>Architectural colors (optional)</u>		
	26DTT¹	32TRT¹				DC2012 Emergency circuit 12 volt (20W lamp included) ⁹	DNA Natural aluminum		
	28DTT¹	42TRT¹				2DC12 Emergency circuit 12 volt (2 35W lamps included std.) ⁹	DBL Black		
						2DC2012 Emergency circuit 12 volt (2 20W lamps included) ⁹	DMB Medium bronze		
						QRS Quartz restrike system ^{7,8}	DWH White		
							DSS Sandstone		

NOTES:

- 1 Compact fluorescent sources only available with 120, 277 or MVOLT.
- 2 Consult factory for availability in Canada.
- 3 Optional multi-tap ballast (120,208,240,277V) In Canada 120, 277, 347V; ships as 120/347.
- 4 Only available with HID sources.
- 5 Only available with compact fluorescent sources. Not available with MVOLT.
- 6 Not available with multi-tap ballast or compact fluorescent sources.
- 7 Lamp not included.
- 8 Quartz lamp wattage not to exceed ballast wattage rating.
- 9 Not available with QRS, EC or NOM.
- 10 Black finish on housing only.

Catalog Number	TWAC 100M 277 DMB LPI	
Notes		Type M



Cutoff Mini Wall-Packs

TWAC

METAL HALIDE

50-100W

HIGH PRESSURE SODIUM

35-100W

COMPACT FLUORESCENT

22-28DTT, 26- 42TRT



Consistent with LEED® goals & Green Globes™ criteria for light pollution reduction

Specifications

Height:	10" (25.4cm)
Width:	11-1/2" (29.2cm)
Depth:	8-15/16" (22.7cm)
Weight:	10 lbs. (4.53kg)

Example: **TWAC 50M 120 LPI**

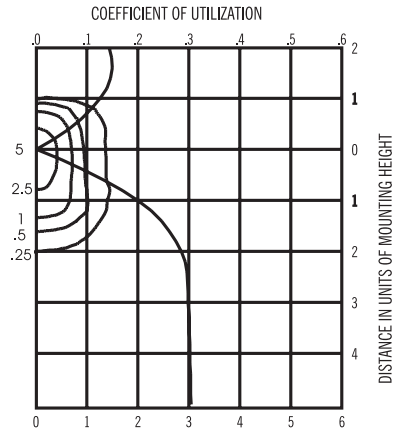
Accessories

Order as separate catalog number	
RK1 PEB1	Photocell kit (120V only)
RK1 PEB1 CSA	Photocell kit (120V only)
RK1 PEB2	Photocell kit (208, 240 or 277V)
RK1 PEB3 CSA	Photocell kit (347V)
TWAWG	Wireguard

TWAC Cutoff Wall-Pack

TWAC 50M

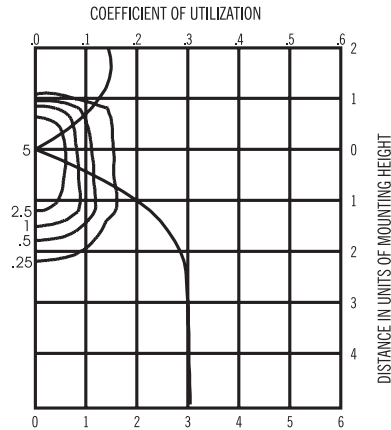
Test No. LTL8360



50W Metal Halide lamp, 8500 rated lumens. Footcandle values based on 20' mounting height, Distribution, cutoff.

TWAC 70M

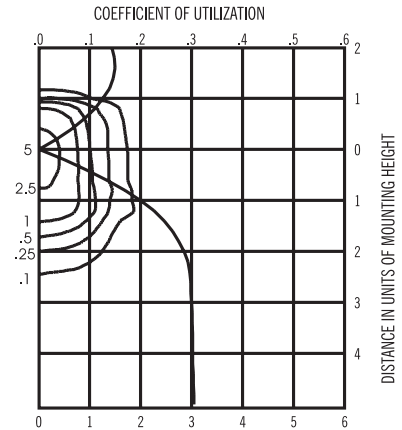
Test No. LTL8338



70W Metal Halide lamp, 5200 rated lumens. Footcandle values based on 20' mounting height, Distribution, cutoff.

TWAC 100M

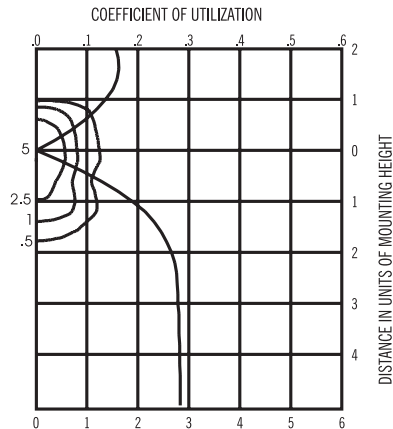
Test No. LTL8359



100W Metal Halide lamp, 8500 rated lumens. Footcandle values based on 20' mounting height, Distribution, cutoff.

TWAC 35S

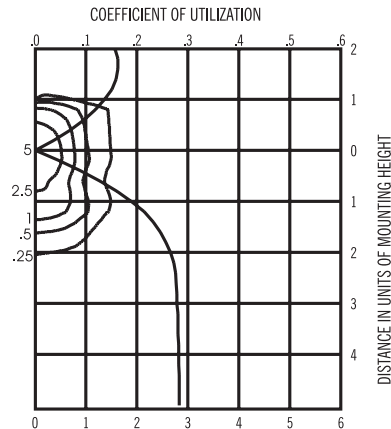
Test No. LTL8358



35W High Pressure Sodium lamp, 4000 rated lumens. Footcandle values based on 20' mounting height, Distribution, cutoff.

TWAC 50S

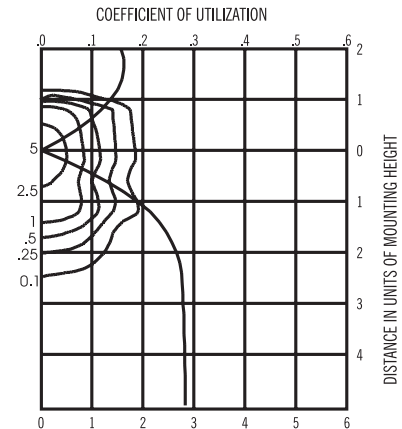
Test No. LTL8357



50W High Pressure Sodium lamp, 6300 rated lumens. Footcandle values based on 20' mounting height, Distribution, cutoff.

TWAC 100S

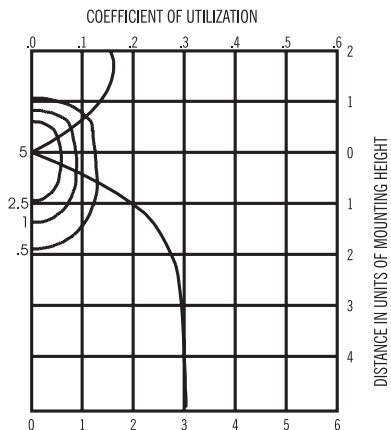
Test No. LTL8337



100W High Pressure Sodium lamp, 9500 rated lumens. Footcandle values based on 20' mounting height, Distribution, cutoff.

TWAC 32TRT

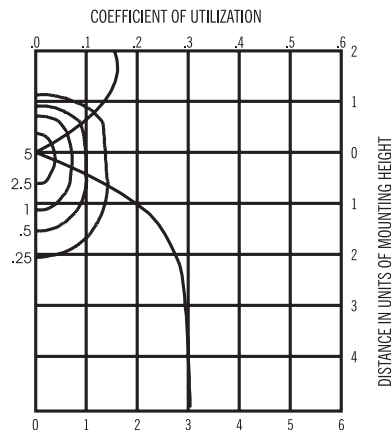
Test No. LTL8361



32W Compact Fluorescent lamp, 3200 rated lumens. Footcandle values based on 20' mounting height, Distribution, cutoff.

TWAC 42TRT

Test No. LTL8339



42W Compact Fluorescent lamp, 5200 rated lumens. Footcandle values based on 20' mounting height, Distribution, cutoff.

Mounting Height Correction Factor

(Multiply the fc level by the correction factor)

8 ft. = 6.25

10 ft. = 4.00

12 ft. = 2.78

15 ft. = 1.78



An AcuityBrands Company

JUNO® lighting

8" METAL HALIDE DOWNLIGHT

LENSED APERTURE

Medium Base Metal Halide 50/70/100W
ED17/BD17, Magnetic Ballast**M8-(50,70,100)-8840, -8842**

Project: hhgregg

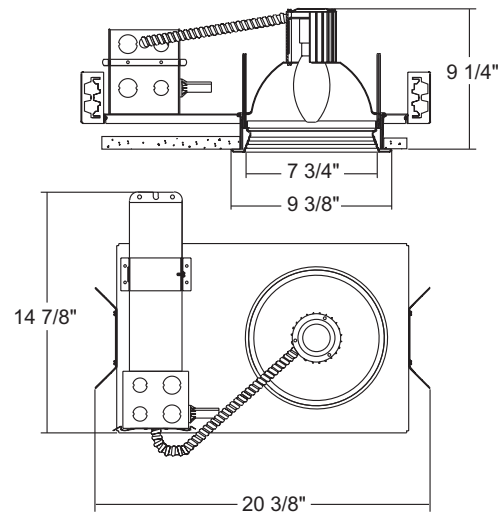
Fixture Type: N

Location: M8 100 8842WH

Contact/Phone:

PRODUCT SPECIFICATIONS**Lamp** One 50W, 70W, or 100W ED17/BD17 medium base Metal Halide lamp.**Socket Housing** Medium base, glazed porcelain, 4kV pulse-rated socket with nickel-plated copper screw shell • Extruded aluminum housing with heat dissipating fins.**Reflector** .050" clear diffuse aluminum reflector.**Baffle** Aluminum, stepped baffle in matte black.**Lens** Prismatic or Fresnel glass lens.**Trim Ring** White baked enamel, integral with baffle. • Trim fastens to reflector with two torsion springs.**Ballast** Pre-wired, encased and potted 60 Hz ballast • Dual tap for 120V and 277V or 120V and 347V (50W 347V is single tap) • All ballasts are high power factor, high reactance circuits with integral ignitor and auto reset thermal protection • Minimum starting temperature is -20° F (-30° C) • Ballast can be replaced with removal of a single screw.**Testing** All reports are based on published industry procedures; field performance may differ from laboratory performance.

Product specifications subject to change without notice.

DIMENSIONS

8 1/2" CEILING CUTOUT

INSTALLATION**Mounting Bracket** Housings are equipped with vertically adjustable mounting brackets that accept 1/2" conduit or "C" channels (HB-26 or HB-50) or linear flat bars (LB-27).**Junction Box** Pre-wired, oversized junction box • U.L. listed/CSA certified for through-branch wiring, maximum 8 No. 12 AWG 90° C branch circuit conductors (4 in, 4 out) • Junction box provided with removable access plates, (5) 1/2" and (5) 3/4" knockouts and ground wire.**Mounting Frame** 18-gauge, die-formed galvanized steel • 17 3/4" L x 11 1/2" W, excluding mounting brackets • Rough-in section (ballast, junction box, mounting frame, socket housing) fully assembled for ease of installation.**Labels** Product thermally protected against improper use of insulation • Union made, AFL-CIO • U.L. listed and CSA certified for damp locations.**PRODUCT CODES**

Catalog Number	Trim	Wattage and Lamp
M8-50-8840-WH	Prismatic w/Baffle	50W MH ED17/BD17
M8-70-8840-WH	Prismatic w/Baffle	70W MH ED17/BD17
M8-100-8840-WH	Prismatic w/Baffle	100W MH ED17/BD17
M8-50-8842-WH	Fresnel w/Baffle	50W MH ED17/BD17
M8-70-8842-WH	Fresnel w/Baffle	70W MH ED17/BD17
M8-100-8842-WH	Fresnel w/Baffle	100W MH ED17/BD17

ENGINEERING DATA

ANSI #	50W	50W	70W	70W	100W	100W
	120/277	120/347	120/277	120/347	120/277	120/347
Input AMPS						
Operating	0.65/0.30	0.60/0.20	0.85/0.37	0.85/0.30	1.10/0.48	1.10/0.38
Starting	0.80/0.35	0.45/0.15	1.25/0.55	1.15/0.40	2.20/0.95	2.20/0.75
Open Circuit	1.15/0.50	1.60/0.55	1.60/0.75	1.70/0.70	2.40/1.05	2.40/0.85
Input Watts	72	67	94	94	125	125
Nominal Open						
Circuit Voltage	254	277	230	240	277	277
Fuse Rating Amps	3/2	4/2	4/2	5/2	6/3	6/2
Sound Rating	B	B	B	B	B	B

ACCESSORIES

Catalog No.	Description
HB-26	26" C-Channel Bar Hangers w/ T-Bar Clips (set of 2)
HB-50	50" C-Channel Bar Hangers w/ T-Bar Clips (set of 2)
LB-27	27" Linear Flat Bars (set of 2)

To order, specify catalog number.

OPTIONS

Catalog No.	Description
CN	120/347V (Except 50W)
F	Fusing
Q	Quartz Restrike (100W max)

To specify, add to catalog number.

>>>>

PRISMATIC PHOTOMETRIC REPORT

8" METAL HALIDE DOWNLIGHT

Test Report #: FB96120

Catalog No: M8-100-8840-WH

Total Luminaire Efficiency: 53.1%

Luminaire Spacing Criterion: .9

Luminaire: Prismatic Lens with Baffle

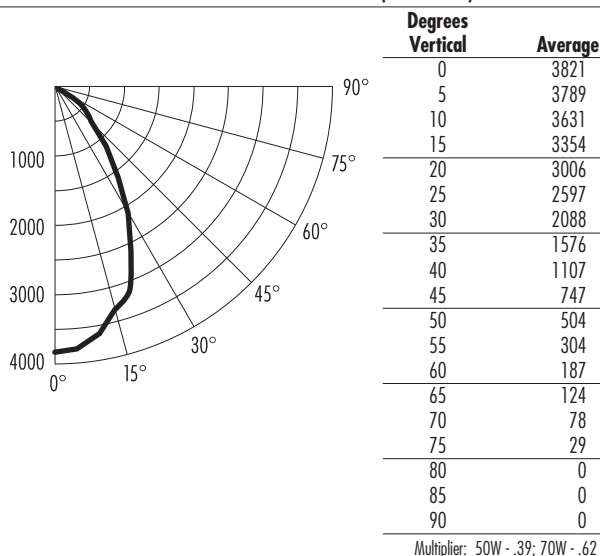
Lamp: One MXR100/C/U/MED lamp rated @ 8500 lumens

LENSED APERTURE

Medium Base Metal Halide 50/70/100W
ED17/BD17, Magnetic Ballast

M8-(50,70,100)-8840, -8842

CANDLEPOWER DISTRIBUTION (Candelas)



ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	2514	29.6	55.8
0-40°	3505	41.2	77.7
0-60°	4356	51.2	96.6
0-90°	4510	53.1	100.0
90-180°	0	—	—
0-180°	4510	53.1	100.0

COEFFICIENTS OF UTILIZATION – % (Zonal Cavity Method) Effective Floor Cavity Reflectance 20% (ρ_{fc})

RCR	ρ_{cc} ρ_w	80			70			50			30			10			0
		50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
0		63	63	63	62	62	62	59	59	59	56	56	56	54	54	54	53
1		58	57	55	57	56	54	55	54	53	53	52	51	51	50	50	49
2		53	51	49	52	50	48	50	49	47	49	47	46	47	46	45	44
3		49	46	43	48	45	43	47	44	42	45	43	41	44	42	44	40
4		45	41	39	44	41	39	43	40	38	42	40	38	41	39	34	36
5		41	38	35	41	38	35	40	37	35	39	36	34	38	36	34	33
6		38	35	32	38	35	32	37	34	32	36	34	32	36	33	31	30
7		36	32	29	35	32	29	35	31	29	34	31	29	33	31	29	28
8		33	30	27	33	30	27	32	29	27	32	29	27	31	29	27	26
9		31	28	25	31	27	25	30	27	25	30	27	25	29	27	25	24
10		29	26	23	29	26	23	28	25	23	28	25	23	28	25	23	22

ρ_{cc} – Ceiling Cavity Reflectance (%) ρ_w – Wall Reflectance (%)

INITIAL FOOTCANDLES

One Unit, 100 Watt, 63.5° Beam

Footcandles Beam Edge	Footcandles Beam Center	Beam Diameter	Distance to Illuminated Plane (Feet)
32.6	106.1	7.4'	6
18.4	59.7	9.9'	8
11.8	38.2	12.4'	10
8.2	26.5	14.8'	12
6.0	19.5	17.3'	14
4.6	14.9	19.8'	16
3.6	11.8	22.3'	18
2.9	9.6	24.9'	20

(Beam Edge defined as 50% of Maximum Nadir Candlepower)

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array)

Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR4	RCR8
5.0'	197	153	112
6.0'	137	106	78
7.0'	101	78	57
8.0'	77	60	44
9.0'	61	47	35
10.0'	49	38	28
12.0'	34	27	19



1300 S. Wolf Road, P.O. Box 5065, Des Plaines, IL 60017-5065 Phone 847.827.9880 FAX 847.827.2925

220 Chrysler Dr., Brampton, Ontario, Canada, L6S 6B6 Phone 905.792.7335 FAX 905.792.0064

Visit us at www.junolighting.com

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FEATURES & SPECIFICATIONS

INTENDED USE

For building- and wall-mounted applications.

CONSTRUCTION

Rugged, die-cast, single-piece aluminum housing. Die-cast doorframe has a 1/8" thick tempered glass lens. Doorframe is fully gasketed with one-piece solid silicone.

FINISH

Standard finish is **new** textured dark bronze (DDBT) corrosion-resistant polyester powder finish, with other architectural colors available.

OPTICAL SYSTEM

Segmented reflectors for superior uniformity and control. Medium throw (MD) full cutoff distribution available.

ELECTRICAL SYSTEM

Fluorescent ballast is Class P, electronic, high power factor, <10%THD, with starting temperature of 0°F (-18°C). Fluorescent socket is high temperature thermoplastic with an integral lamp retention clip.

INSTALLATION

Universal mounting mechanism with integral mounting support allows fixture to hinge down. Bubble level provides correct alignment with each installation.

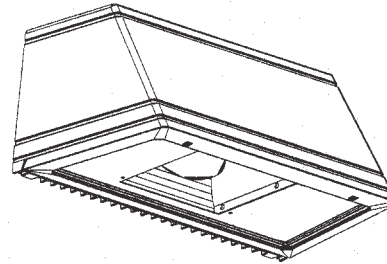
LISTING

UL Listed (standard). CSA Certified (see Options). Suitable for wet locations (damp location listed in lens-up orientation). WLU option offers wet location listing in up orientation (see Options). IP65 Rated.

Catalog Number		TWAC 100M 277 DMB LPI	
Notes		Type	M

Decorative Wall-Mounted Lighting

WST



Standard Dimensions

Length: 16.25 (41.2)
 Depth: 9.13 (23.2)
 Overall Height: 7.25 (18.4)
 Max. Weight: 30 lbs (13.6 kg)

All dimensions are inches (centimeters) unless otherwise specified.

COMPACT FLUORESCENT

26DTT
 2/26DTT
 26TRT
 2/26TRT
 32TRT
 2/32TRT
 42TRT
 2/42TRT

ORDERING INFORMATION

Choose the boldface catalog nomenclature that best suits your needs and write it on the appropriate line.

Example: **WST 42TRT MD 120 LPI DNAT**

WST	100M	277	DMB
Series	Wattage/Source	Distribution	Voltage
WST	Compact Fluorescent	MD Medium throw	120
	26DTT		208 ¹
	2/26DTT		240 ¹
	26TRT		277
	2/26TRT		347
	32TRT		MVOLT²
	2/32TRT		
	42TRT		
	2/42TRT		

LPI	
Options	
<u>Shipped installed in fixture</u>	<u>Shipped separately</u>
GMF Internal slow-blow fusing ³	WSBBW Surface-mounted back box
EC Emergency circuit (25W max 120V, incandescent lamp included)	UT5 Uptilt 5 degrees
DC12 Emergency circuit 12 volt (35W lamp included std.) ⁴	WSTWG Wire guard ⁹
2DC12 Emergency circuit 12 volt (2, 35W lamps included) ⁴	WSTVG Vandal guard ⁹
DC2012 Emergency circuit 12 volt (20W lamp included) ⁴	<u>Architectural colors¹⁰</u>
2DC2012 Emergency circuit 12 volt (2, 20W lamps included) ⁴	<u>Standard textured colors</u>
ELDW Emergency battery pack (32° min. operating temp.) ^{3,5}	DDBT Dark bronze (std.)
ELDWC Emergency battery pack (0° min. operating temp.) ^{3,5,6}	DSST Sandstone
ELDWR Fixture wired for Bodine® B30 remote battery pack (32° min. operating temp.) ^{3,7}	DNAT Natural aluminum
ELDWRPS Fixture wired for PS1400 or PSDL3 remote battery pack (32° min. operating temp.) ^{3,7,8}	DWHG White
CR Enhanced corrosion resistance	DBLB Black
CRT Non-stick protective coating (black only)	<u>Optional textured colors</u>
PE Photoelectric cell-button type ^{3,9}	DBNH Bronze
WLU Wet location door for up orientation	DSPD Dark gray
DFL Diffusing lens	DSPJ Light gray
LPI Lamp included (std)	DSPE Green
L/LP Less lamp	DSPG Dark red
CSA CSA Certified	DSPF Rust
	DSPH Red
	<u>Striping</u>
	SDBB Dark bronze
	SDWH White
	SDBL Black
	SDNA Natural aluminum
	SDTG Tennis green
	SDBR Bright red
	SDBUA Dark blue
	SDGYM Gray
	SDYLB Yellow

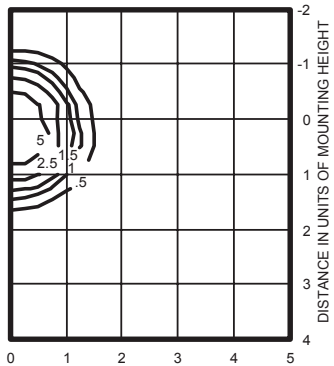
NOTES:

- Consult factory for availability in Canada.
- Optional multi-volt electronic ballast capable of operating on any line voltage from 120-277V.
- Not available with MVOLT; must specify voltage.
- Not available with GMF.
- Not available with 2/32TRT or 2/42TRT.
- Not available with 2/26DTT or 2/26TRT.
- Not available with 2/42 TRT.
- Pilot light/test switch mounting plate included. See lamp compatibility chart on back page.
- Must be ordered with fixture; cannot be field installed.
- Additional architectural colors available; see www.lithonia.com for more information.

WST Fluorescent Building Mounted

WST 2/42TRT MD TEST NO: LTL11108

ISOILLUMINANCE PLOT (Footcandle)



2/42TRT lamp, horizontal lamp orientation
 Footcandle values based on 12'
 mounting height, 3200 rated lumens (per lamp).
 Luminaire Efficiency: 49.6%

Lamp	Initial Lumens	Mounting Height			
		10'	12'	14'	16'
Compact Fluorescent					
42W TRT	3,200	0.72	0.5	0.37	0.28
(2) 42W TRT	6,400	1.44	1.0	0.73	0.56

Emergency Battery Pack Lamp Compatibility				
Lamp Options (# of lamps/wattage)	ELDW	ELDWC	ELDWR	ELDWRPS
26DTT (one lamp)	■	■	■	■
2/26DTT	■		■	■
26TRT (one lamp)	■	■	■	■
2/26TRT	■		■	■
32TRT (one lamp)	■	■	■	■
2/32TRT			■	■
42TRT (one lamp)	■	■	■	■
2/42TRT			■	



FEATURES & SPECIFICATIONS

INTENDED USE — Provides a minimum of 90 minutes illumination for the rated wattage upon loss of AC power. Ideal for applications requiring low-profile, attractive emergency lighting.

CONSTRUCTION — Compact, low-profile, architectural design with die-cast aluminum housing that has a contemporary brushed nickel-plated finish. Other available finishes are texturized polyester powder coat paint in white, black and dark bronze. All finishes can be painted in the field to match the wall color of choice.

U.S. Patent No. D468,046.

Standard optics provided with two 6W wedge-base xenon lamps offer 55 percent more light output than standard incandescent lamps. Patent-pending reflector/refractor design features superior vac-metalized, die-casted reflectors; and multi-faceted, highly transmissive refractor that significantly improve photometrics.

Forward throw (FWD) option optics provided with two high-brightness white LEDs, projecting an NFPA-101 compliant path 3' wide and 28' forward, when mounted 8-1/2' AFF.

All light sources meet requirements for NEC 700.16.

Dual-voltage input capability (120/277V).

Edge connectors on printed circuit board ensure long-term durability.

Universal J-box mounting pattern.

Low-profile, integrated test switch/pilot light located below the lens.

Easily visible green status indicator.

Rigid conduit entry provision on top of the unit.

BATTERY — Sealed, maintenance-free lead-calcium battery provides 12W rated capacity. Nickel-cadmium battery with Premium and Exterior option packages.

Automatic 48-hour recharge after a 90-minute discharge.

Low-voltage disconnect prevents excessively deep discharge that can permanently damage the battery. Single-circuit battery connection.

ELECTRONICS — Current-limiting charger maximizes battery life and minimizes energy consumption. Provides low operating costs.

Short-circuit protection — current-limiting charger circuitry protects printed circuit board from shorts.

Thermal protection senses circuitry temperature and adjusts charge current to prevent overheating and charger failure.

Thermal compensation adjusts charger output to provide optimum charge voltage relative to ambient temperature.

Regulated charge voltage maintains constant-charge voltage over a wide range of line voltages. Prevents over/undercharging that shortens battery life and reduces capacity.

Filtered charger input minimizes charge voltage ripple and extends battery life.

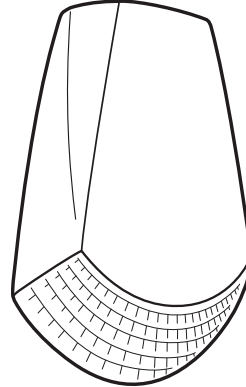
AC/LVD reset allows battery connection before AC power is applied and prevents battery damage from deep discharge.

Catalog Number	TWAC 100M 277 DMB LPI	
Notes		Type M

AFFINITY®

Die-Cast Architectural Emergency Light

AFN



Brownout protection is automatically switched to emergency mode when supply voltage drops below 80 percent of nominal.

EXT TD option package includes 20-minute time delay for supplemental lighting during HID startup.

SELF-DIAGNOSTICS (PREM and EXT TD option packages)

Patented Electronics - U.S. Patent No. 6,502,044.

Single multi-chromatic LED indicator to display two-state charging, test activation and three-state diagnostic status.

Test switch provides manual activation of 30-second diagnostic testing for on-demand visual inspection.

Self-diagnostic testing for five minutes every 30 days and 30 minutes every six months.

Diagnostic evaluation of lamp, AC to DC transfer, charging and battery condition. Continuously monitors AC functionality.

Postpone automatic test initiates eight hour delay of an automatic test by activating the manual test switch.

LISTING — UL listed. Wet location (EXT TD) listed. Damp location (PREM, EXT TD) listed. Cold weather (EXT TD) listed.

Meets UL 924, NFPA 101, NFPA 70-NEC and OSHA illumination standards. UL labeled.

WARRANTY — Three-year warranty.

ORDERING INFORMATION

For shortest lead times, configure product using **standard options (shown in bold)**.

Example: AFN W EXT

AFN
Family
AFN AFFINITY Series die-cast architectural emergency lighting

100M
Finish
W White
B Black
BN Brushed nickel
DB Dark bronze¹

277
Option packages
(blank) Features lead calcium battery
PREM Features ni-cad battery, self-diagnostics and damp location 0° to 50°C (32° to 122°F)
EXT Features high-temperature ni-cad battery listed from -18° to 50°C (0° to 122°F), self-diagnostics, time delay; listed for cold weather, damp and wet location
FWD Forward throw optics ²

NOTES:

- Dark bronze can only be ordered with EXT option. This finish is not available on other units.
- Only available in EXT option.

Accessories

Order as separate item.

ELAAFNRDB	Remote fixture (less batteries and electronics) to be powered by 6V battery equipment as part of an emergency lighting system (listed from 0°F to 122°F; -18°C to 50°C), W, B finishes available. ²
-----------	--

AFN Affinity® Die-Cast Architectural Emergency Light

SPECIFICATIONS

ELECTRICAL

Primary Circuit

Type	AC Input			Output Volts	Watts Output 1-1/2hrs.
	Volts	Amps	Watts		
AFN	120	.11	1.1	6	12
	277	.12	1.3		
AFN PREM	120	.15	1.4	6	12
	277	.14	1.4		
AFN EXT	120	.23	21	6	12
	277	.25	35		

BATTERY

Sealed Lead-Calcium

Voltage	Shelf life ¹	Expected life ¹	Maintenance	Optimum temperature ²
6	6 mos.	5-8 yrs.	none ³	60-90°F (16-32°C)

Nickel-Cadmium

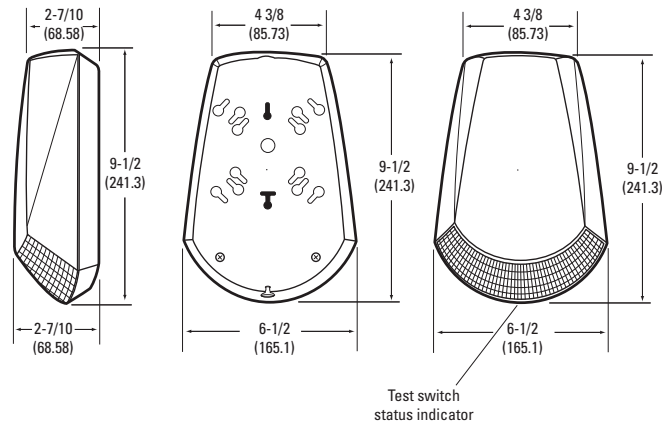
Voltage	Shelf life ¹	Expected life ¹	Maintenance	Optimum temperature ²
6	3 yrs.	7-9 yrs.	none ³	32-122°F (0-50°C)

- 1 At 77°F (25°C).
- 2 Optimum ambient temperature range where unit will provide capacity for 90 minutes. Higher and lower temperatures affect life and capacity. See option packages for expanded temperature ranges. Consult factory for detailed information.
- 3 To ensure compliance with NFPA 101 requirements, we recommend testing all signage and emergency lighting systems for 30 seconds every 30 days, and for 90 minutes annually.

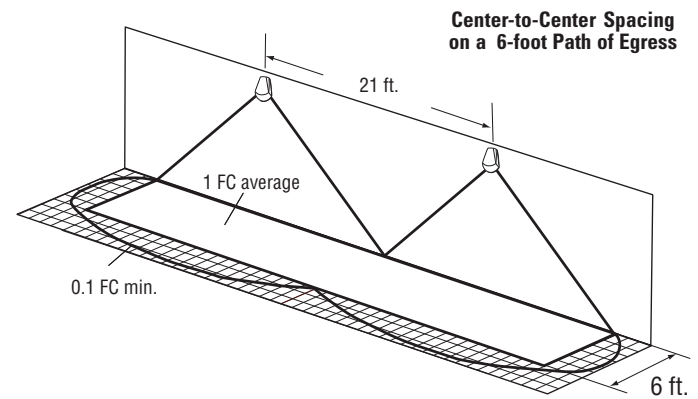
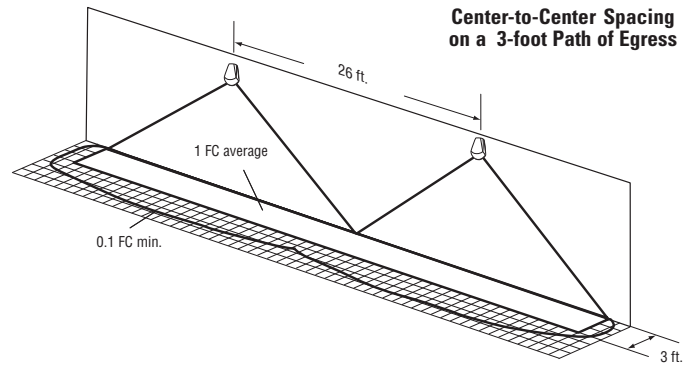
MOUNTING

All dimensions are inches (millimeters).

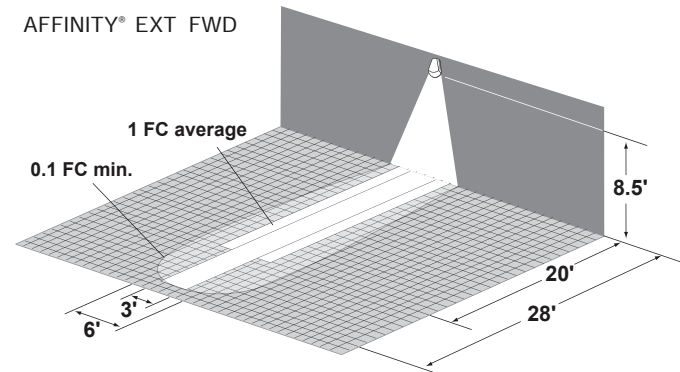
Shipping weight: 3.5 lbs. (1.59 kgs.)



FIXTURE PERFORMANCE



AFFINITY® EXT FWD



SPACING GUIDE

Xenon Lamp	Path of Egress 3'-wide	Path of Egress 6'-wide
Center-to-Center Spacing	26'	21'

NOTE: Meets Life Safety Code standard minimum illuminance of 0.1 FC and average illuminance of 1.0 FC. Assumes open space with no obstructions, mounting height: 8.5', ceiling height: 9', and reflectances: 80/50/20.

FEATURES & SPECIFICATIONS

INTENDED USE — Use for parking lots, streets and surrounding areas.

CONSTRUCTION — Heavy gauge die-formed aluminum housing is fabricated using robotic continuous seam-weld process for weather-tight integrity. Integral structural support plate for mounting arm and electrical components ensures rigidity and strength. Hinged aluminum door frame incorporates stainless steel hardware. Continuous silicone gasketing surrounds lens for weather-tight seal. Optional tool-less hardware is available to maximize installation and maintenance ease.

Lens: Thermal shock resistant tempered glass lens. Choice of contoured drop lens or flat lens is available in standard product. Standard finish is dark bronze corrosion resistant electrostatically applied powder paint. Optional linear embossed accent reveals are available.

OPTICS — Most flat lens configurations meet full-cutoff criteria. See www.lithonia.com for details. Vertical-lamp reflectors are 1-piece spun and formed anodized aluminum. Specialized distributions available for either drop lens or flat lens. Reflectors are independently designed to optimize light output for the lens type. Horizontal-lamp reflectors also available.

ELECTRICAL — All electrical components are mounted to a heavy-gauge plate to maximize heat dissipation and ensure structural integrity for optimal component life. Ballast: Constant wattage autotransformer. Metal Halide: Super CWA (pulse start ballast), 88% efficient and EISA legislation compliant, is required for 175-400W (SCWA option) for US shipments only. CSA, NOM or INTL required for probe start shipments outside of the US. Pulse-start ballast (SCWA) required for 200W, 320W, 350W, or 450W. Ballast is 100% factory-tested.

Socket: Mogul-base porcelain socket with copper alloy, nickel-plated screw shell and center contact. Vertically-oriented for types SYM, ASY, and VFA distributions. Horizontal position-oriented for types R2, R3 and R4. UL listed 1500W-600V, 4Kv pulse rated. Reflectors are rotatable and interchangeable.

INSTALLATION — Extruded aluminum arm with integral splice compartment. Standard arm is 9" in length. Aluminum fitter for 4" to 6" OD poles.

LISTINGS — UL Listed to US and Canadian safety standards (see Options). NOM Certified (see options). UL listed for 25°C ambient and wet locations. Optical chamber IP65 rated.

Note: Specifications subject to change without notice.

Catalog Number	KFL2 1000M SYMFL
Notes	
Type	



Specifications

Square: 21-1/2 (54.6)
 Flat lens height: 14 (35.5)
 Drop lens height: 17 (43.2)
Arm mount
 EPA: 2.8 ft² (0.25 m²), incl. arm
 *Weight: 53 lbs (24 kg)
 *Weight as configured in example below.

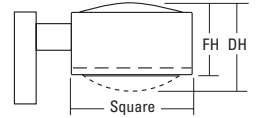
Post top
 EPA: 2.8 ft² (0.25 m²)
 Overall Height: 22-3/4 (57.8)

Dimensions in inches (centimeters) unless otherwise specified.

Square Area Lighting

KVF2

METAL HALIDE: 175-1000W
 HIGH PRESSURE SODIUM: 250-1000W
 20' to 40' Mounting



Mounting Option	Drilling Template
SPxx, RPxx,	5
WBxx	6
WWxx	7

ORDERING INFORMATION For shortest lead times, configure products using **bolded options**.

Example: KVF2 400M SYMDL TB SCWA SP09 LPI

KVF2	1000M	SYMFL					
Series	Wattage	Distribution		Voltage	Ballast	Mounting	
KVF2	Metal halide	Vertical lamp: ⁷	High-performance horizontal lamp: ⁸	120	(blank) Magnetic ballast CWI Constant wattage isolated SCWA Super CWA ballast Note: For shipments to U.S. territories, SCWA must be specified to comply with EISA.	Type	Size ¹²
	175M ¹	SYM Symmetric square	SR2FL Type II roadway	208 ⁹		SP__ Square pole	06 6" arm
	200M ²	250S	SR3FL Type III asymmetric	240 ⁹		RP__ Round pole	09 9" arm
	250M ³	400S	SR4SCFL Type IV forward throw, sharp cutoff	277		WB__ Wall bracket	12 12" arm
	320M ³	750S	SR4WFL Type IV forward throw, wide	347		WW__ Wood pole or wall bracket	
	350M ^{1,2}	1000S ⁶		480 ⁹		PT__ Post top; open top pole	4 4" OD
400M ³		Horizontal lamp: ⁷		TB ¹⁰	4.5 4.5" OD		
450M ^{1,2}		R2__ Type II		23050HZ ¹¹	5 5" OD		
1000M⁴		R3__ Type III			6 6" OD		

Options				Finish ¹⁹	Lamp ²⁰
Shipped installed in fixture		EHS	External houseside shield black (matches fixture finish) ^{16, 17, 18}	(blank) Dark bronze	LPI Lamp included
SF	Single fuse 120, 277, 347V ¹³	EHSB	External houseside shield black (painted black to maximize light control) ^{16, 18}	DBL Black	L/LP Less lamp
DF	Double fuse 208, 240, 480V ¹³	CSA	Listed and labeled to comply with Canadian Standards	DGC Charcoal gray	
KW1	KiloWatch [®] 120V control relay ^{13, 14}	NOM	NOM certified ¹¹	DMB Medium bronze	
KW4	KiloWatch [®] 277V control relay ^{13, 14}	INTL	Available for 175M probe start shipping outside the U.S.	DNA Natural aluminum	
PER	NEMA twist-lock receptacle only (photocontrol not included)	REGC1	California Title 20 effective 1/1/2010	DWH White	
QRS	Quartz restrrike system ¹⁵			CR Corrosion resistant	
QRSTD	QRS time delay ^{11, 15}				
EA	Embossed accent				

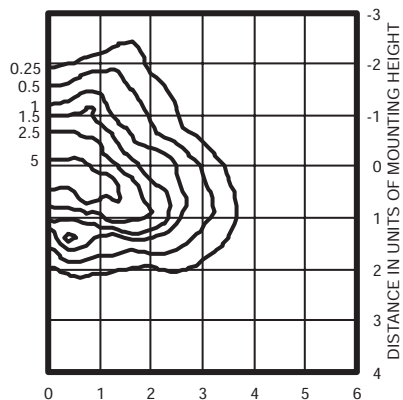
Accessories: Tenon Mounting Slipfitter ²¹ Order as separate catalog number.						
Tenon O.D.	One	Two@180°	Two@90°	Three@120°	Three@90°	Four@90°
2-3/8 (6.0)	T20-190	T20-280	T20-290	T20-320	T20-390	T20-490
2-7/8 (7.3)	T25-190	T25-280	T25-290	T25-320	T25-390	T25-490
4 (10.2)	T35-190	T35-280	T35-290	T35-320	T35-390	T35-490

- Notes**
- These wattages do not comply with California Title 20 regulations.
 - Must be ordered with SCWA.
 - These wattages require the REGC1 option to be chosen for shipments into California for Title 20 compliance. 250M REGC1 not available in 347 or 480V.
 - Use reduced jacketed lamp.
 - Not available with SCWA.
 - Available in ASYDL, SYMDL or VFADL. Standard ED25 lamp.
 - For drop lens, specify DL. For flat lens, specify FL. Example: SYMDL or R2FL.
 - Not available with 1000W or post top.
 - Must specify CWI for use in Canada.
 - Optional multi-tap ballast (120, 208, 240, 277V; 120, 277, 347V in Canada).
 - Consult factory for available wattages.
 - 12" arm required when two or more luminaires are oriented on a 90° drilling pattern.
 - Not available with TB. Must specify voltage.
 - Available in vertical lamp orientation only for 200-400M SCWA. Any orientation on 250S or 400S only.
 - Maximum allowable wattage lamp included.
 - May be ordered as an accessory.
 - Specify finish when ordered as an accessory.
 - Prefix with KVF2 when ordering as an accessory.
 - Use KVF2EHSFL__ for high-performance reflectors.
 - See www.lithonia.com/archcolors for additional color options.
 - Must be specified.
 - Arm mount only.

KVF2 Arm-Mounted Area Lighting

KVF2 250M SR2FL TEST NO: LTL11250P

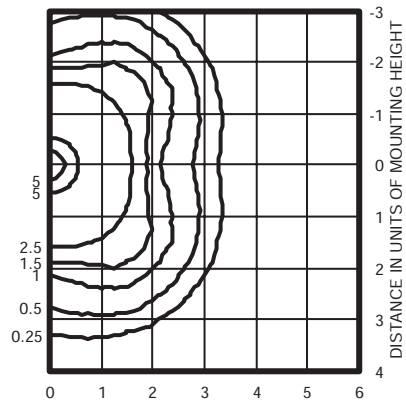
ISOILLUMINANCE PLOT (Footcandle)



250W pulse start metal halide lamp, rated 22500 lumens. Footcandle values based on 20' mounting height.
Classification: Type II, Short, Full Cutoff

KVF2 400M SYMFL TEST NO: LTL9432P

ISOILLUMINANCE PLOT (Footcandle)

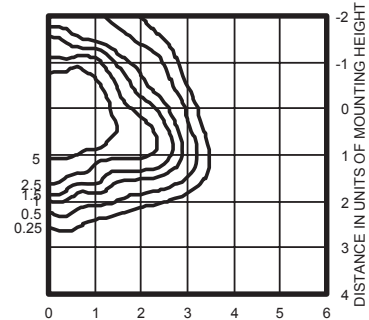


400W pulse start metal halide lamp, rated 42000 lumens. Footcandle values based on 20' mounting height.
Classification: Type IV, Short, Full Cutoff

KVF2 400S R3FL

TEST NO: LTL11324

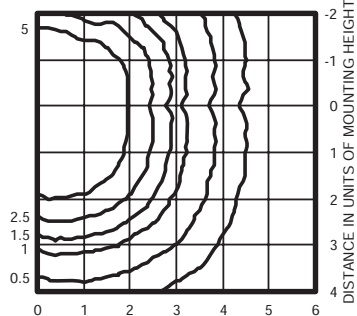
ISOILLUMINANCE PLOT (Footcandle)



400W lamp, rated 50000 lumens. Footcandle values based on 20' mounting height.
Classification: Type II, Medium, Full Cutoff

KVF2 1000M ASYDL TEST NO: LTL11381

ISOILLUMINANCE PLOT (Footcandle)



1000W lamp, rated 110000 lumens. Footcandle values based on 20' mounting height.
Classification: Type IV, Short, Cutoff

Mounting Height Correction Factor

(Multiply the fc level by the correction factor)

25 ft.= 0.64

30 ft.= 0.45

40 ft.= 0.25

$$\left(\frac{\text{Existing Mounting Height}}{\text{New Mounting Height}} \right)^2 = \text{Correction factor}$$

Notes

- 1 Photometric data for other distributions can be accessed from the Lithonia Lighting Web site (www.lithonia.com)
- 2 For electrical characteristics, consult outdoor technical data specification sheets on www.lithonia.com.
- 3 Tested to current IES and NEMA standards under stabilized laboratory conditions. Various operating factors can cause differences between laboratory and actual field measurements. Dimensions and specifications are based on the most current available data and are subject to change.

FEATURES & SPECIFICATIONS

INTENDED USE — Outdoor storage areas, warehouse and factory perimeters and loading docks.

CONSTRUCTION — Rugged, corrosion-resistant, die-cast aluminum. Corrosion-resistant external hardware includes slotted hex-head fasteners.

Finish: Standard finish is electrostatically-applied, oven-cured, dark bronze (DDB) corrosion-resistant polyester powder paint.

OPTICS — Reflector is specular anodized aluminum. Refractor is prismatic borosilicate glass which is sealed and gasketed to inhibit the entrance of outside contaminants.

ELECTRICAL — Electrical components are mounted in hinged front cover that includes primary and secondary electrical disconnect.

Ballast: Low pressure sodium: High reactance, high power factor. High pressure sodium: 70-150W is high reactance, high power factor. Constant wattage autotransformer for 200-400W. Metal halide: 70-150W is high reactance, high power factor and is standard with pulse-start ignitor technology. SCWA not required. Constant wattage autotransformer for 175-400W. Super CWA (pulse start ballast), 88% efficient and EISA legislation compliant, is required for metal halide 151-400W (SCWA option) for US shipments only. CSA, NOM or INTL required for probe start shipments outside of the US. Pulse-start ballast (SCWA) required for 200W, 320W, or 350W. Ballast is 100% factory-tested.

Socket: Porcelain, horizontally oriented, single-ended bayonet base socket for 35W low pressure sodium; medium base socket for 70-150W; and mogul base socket for 175W and above, with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V.

INSTALLATION — Back housing is separated from front housing, eliminating ballast weight and promoting easy handling. Top 3/4" threaded wiring access. Back access through removable 3/4" knockout. Feed-thru wiring can be achieved by using a conduit tee. Mount on any vertical surface. **Not recommended in applications where a sprayed stream of water can come in direct contact with glass lens.**

LISTINGS — UL Listed (standard). CSA or NOM Certified (see Options). UL listed for 25°C ambient and suitable for wet locations. IP65 rated (250 watt and below) or IP54 rated (400 watt) in accordance with IEC Standard 529.

Note: Specifications subject to change without notice.

Catalog Number	KFL2 1000M SYMFL
Notes	
Type	



Wall Packs

TWH

METAL HALIDE: 70W - 400W
HIGH PRESSURE SODIUM: 70W - 400W
LOW PRESSURE SODIUM: 35W
8' to 25' Mounting

Specifications

Height: 15-3/4 (40.0)

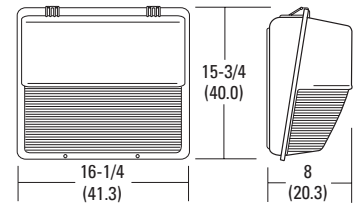
Width: 16-1/4 (41.3)

Depth: 8 (20.3)

*Weight: 29.95 (13.59kg)

All dimensions are inches (centimeters) unless otherwise indicated.

*Weight as configured in example below.



ORDERING INFORMATION

For shortest lead times, configure product using **standard options (shown in bold)**.

Example: TWH 100M TB LPI

TWH	1000M						
Series	Wattage	Voltage	Ballast	Options	Finish ¹⁵	Lamp ¹⁷	
TWH	<u>Low pressure sodium</u> ¹	<u>Metal halide</u>	120	(blank) Magnetic ballast	<u>Shipped installed in fixture</u>	(blank) Dark bronze	LPI Lamp included
	35L	70M ^{1,3}	208 ⁸	CWI Constant wattage isolated	SF Single fuse (120, 277, 347V)	DNA Natural aluminum	L/LP Less lamp
	<u>High pressure sodium</u> ¹	150M	240 ⁸	Pulse Start EIP REGULATIONS - EXEMPT	DF Double fuse (208, 240, 480V)	DBL Black	
	70S	175M ⁴	277	SCWA Super CWA pulse start ballast	EC Emergency circuit ¹¹	DMB Medium bronze	
	100S	200M ⁵	347	Note: For shipments to U.S. territories, SCWA must be specified to comply with EISA.	QRS Quartz restrike ¹¹	DWH White	
	150S ²	250M ⁶	TB ⁹		QRSTD Quartz restrike system with time delay ^{10, 11}	CR Enhanced corrosion resistant	
	200S	320M ⁵	2305HZ ¹⁰		PE Photoelectric cell - button type ³	CRT Non-stick protective coating ¹⁶	
	250S	350M ^{4,5}			PER NEMA twist-lock receptacle ¹²		
	400S	400M ^{6,7}			FS Full shield		
		Ceramic metal halide			TP Tamper proof screws		
		70MHC ^{1,3}			CSA Listed and labeled to comply with Canadian Standards		
		100MHC ¹			NOM NOM Certified ¹⁰		
	150MHC			INTL Available for MH probe start shipping outside the U.S.			
				REGC1 California Title 20 effective 1/1/2010 <u>Shipped separately</u> ¹³			
				PE1 NEMA twist-lock PE (120V/208V/240V)			
				PE3 NEMA twist-lock PE (347V)			
				PE4 NEMA twist-lock PE (480V)			
				PE7 NEMA twist-lock PE (277V)			
				SC Shooting cap for PER option			
				VG Vandal guard ¹⁴			
				WG Wire guard ¹⁴			

Notes

- Not available with SCWA.
- Operates 55V lamp.
- Not available with 480V.
- These wattages do not comply with California Title 20 regulations.
- Must be ordered with SCWA.
- These wattages require the REGC1 option to be chosen for shipments into California for Title 20 compliance. 250M REGC1 in not available in 347 or 480V.
- Requires T-15, ED or BT28 reduced jacket lamp.
- Must specify CWI for use in Canada.

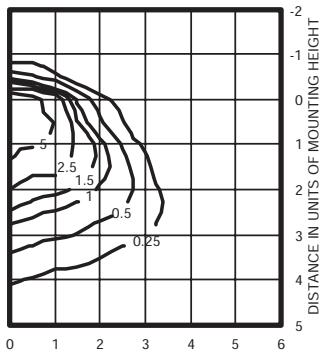
- Optional multi-tap ballast (120, 208, 240, 277V); in Canada (120, 277, 347V).
- Consult factory for available wattages.
- Max allowable wattage lamp included.
- Photocell not included.
- May be ordered as an accessory.
- Prefix with TWH when ordered as an accessory. Requires field modification.
- See www.lithonia.com/archcolors for additional color options.
- Black finish only.
- Must be specified. L/LP N/A MHC.

TWH Metal Halide Wall-Packs

Coefficient of Utilization _____
 Initial Footcandles _____

TWH 175M Test report no. 9412101P

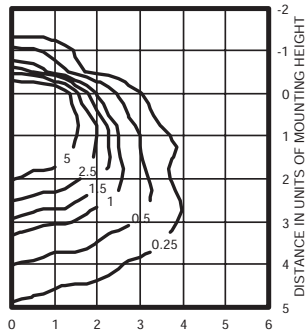
ISOILLUMINANCE PLOT (Footcandle)



175W pulse start metal halide lamp, horizontal lamp orientation
 Footcandle values based on 12' mounting height, 12800 rated lumens.
 Luminaire Efficiency: 61%

TWH 250M Test report no. 95011902P

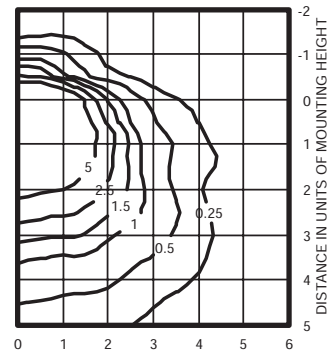
ISOILLUMINANCE PLOT (Footcandle)



250W pulse start metal halide lamp, horizontal lamp orientation
 Footcandle values based on 12' mounting height, 25000 rated lumens.
 Luminaire Efficiency: 77%

TWH 400M Test report no. 9412102P

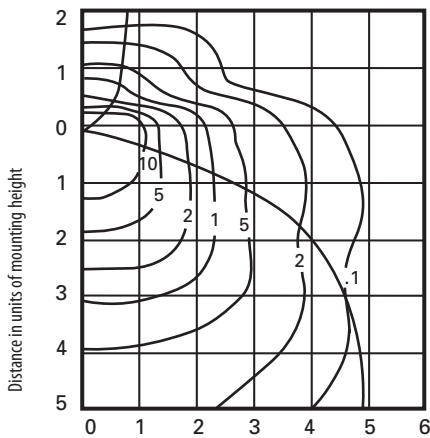
ISOILLUMINANCE PLOT (Footcandle)



400W pulse start metal halide lamp, horizontal lamp orientation
 Footcandle values based on 12' mounting height, 38000 rated lumens.
 Luminaire Efficiency: 70%

TWH 250S Test report no. 94121002

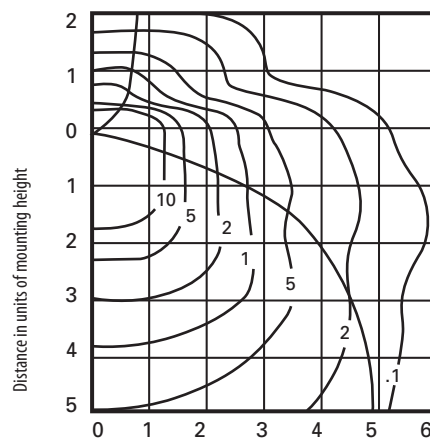
Coefficients of utilization



250W, high pressure sodium lamp, horizontal lamp orientation, 12' mounting height, 27,500 rated lumens.
Total fixture efficiency: 70.9%

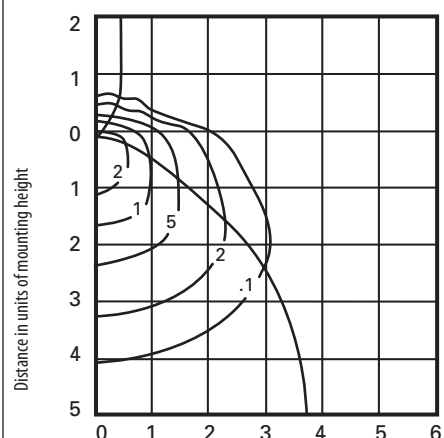
TWH 400S Test report no. 94121001

Coefficients of utilization



400W, high pressure sodium lamp, horizontal lamp orientation, 12' mounting height, 50,000 rated lumens.
Total fixture efficiency: 70.9%

TWH 35L Test report no. 94121902



35W, low pressure sodium lamp, horizontal lamp orientation, 12' mounting height, 4,800 rated lumens.
Total fixture efficiency: 54.6%

Notes

1 Photometric data for other distributions can be accessed from the Lithonia Lighting Web site. (www.lithonia.com)

Mounting Height Correction Factor

(Multiply the fc level by the correction factor)

15 ft. = .64

20 ft. = .36

25 ft. = .23

$$\left(\frac{\text{Existing Mounting Height}}{\text{New Mounting Height}} \right)^2 = \text{Correction Factor}$$



FEATURES & SPECIFICATIONS

INTENDED USE

For entrances, stairwells, corridors and other pedestrian areas.

CONSTRUCTION

Rear housing is rugged, corrosion-resistant, die-cast aluminum. Front cover is one-piece UV-resistant injection molded polycarbonate, internally painted. Captive external hardware is specially treated for corrosion resistance and includes slotted hex-head and tamperproof fasteners.

FINISH

Dark bronze (DDB) corrosion-resistant polyester powder.

OPTICAL SYSTEM

One-piece die-formed reflector is diffused aluminum. Refractor is clear UV stabilized polycarbonate, providing **IES cutoff** distribution and maximum lateral light output. Front cover is sealed and gasketed to inhibit the entrance of outside contaminants.

ELECTRICAL SYSTEM

Metal halide ballasts are high reactance, high power factor. HPS ballasts are reactor normal power factor. All HID ballasts are copper wound, 100% factory tested and UL listed. Porcelain, horizontally oriented medium-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 660W, 600V and 4kV pulse rated.

Compact fluorescent ballasts are magnetic normal power factor (22DTT, 28DTT) or multi-volt (120-277) electronic high power factor (26DTT, 26TRT, 32TRT and 42TRT) (Requires 4-pin lamp). UL Listed. Two-pin (22DTT and 28DTT) or four-pin (26DTT, 26TRT, 32TRT and 42TRT) positive latching thermoplastic socket.

All components are heat-sunk directly to the cast housing for maximum heat dissipation (For 50 hertz availability, consult factory).

INSTALLATION

Mount to any vertical surface or to a 4" round square outlet box. Back access through gasketed slot. Top wiring access through 1/2" threaded conduit entry. (Through-wiring requires use of a conduit tee). Photocells are field-installable.

LISTING

UL listed for wet locations. IP65 rated. UL Listed to US and Canadian safety standards (see Options). NOM Certified.

ORDERING INFORMATION

Choose the boldface catalog nomenclature that best suits your needs and write it on the appropriate line. Order accessories as separate catalog numbers (shipped separately).

TWAC		100M		277		DMB		LPI	
Series	Wattage		Voltage		Options		Lamp		
TWAC	Metal halide		120		Shipped installed in fixture		LPI Lamp included (standard)		
	50M	70M	100M	208²	SF Single fuse (120, 277, 347V) ⁵	CR Enhanced corrosion-resistance			
	High pressure sodium		240²	277	DF Double fuse (208, 240V) ⁵	CRT Non-stick protective coating ¹⁰			
	35S	70S	277	347	GMF Internal slow-blow fusing ⁴	CSA Listed and labeled to comply with Canadian Standards			
	50S	100S	347	TB^{3,4}	XHP High power factor ballast ⁴	NOM NOM Certified (consult factory)			
	Compact fluorescent		MVOLT⁴		EC Emergency circuit ^{7,8}	PE Photocell			
	22DTT¹	26TRT¹			DC12 Emergency circuit 12 volt (35W lamp included std.) ⁹	Architectural colors (optional)			
	26DTT¹	32TRT¹			DC2012 Emergency circuit 12 volt (20W lamp included) ⁹	DNA Natural aluminum			
	28DTT¹	42TRT¹			2DC12 Emergency circuit 12 volt (2 35W lamps included std.) ⁹	DBL Black			
					2DC2012 Emergency circuit 12 volt (2 20W lamps included) ⁹	DMB Medium bronze			
					QRS Quartz restrike system ^{7,8}	DWH White			
						DSS Sandstone			

NOTES:

- 1 Compact fluorescent sources only available with 120, 277 or MVOLT.
- 2 Consult factory for availability in Canada.
- 3 Optional multi-tap ballast (120,208,240,277V) In Canada 120, 277, 347V; ships as 120/347.
- 4 Only available with HID sources.
- 5 Only available with compact fluorescent sources. Not available with MVOLT.
- 6 Not available with multi-tap ballast or compact fluorescent sources.
- 7 Lamp not included.
- 8 Quartz lamp wattage not to exceed ballast wattage rating.
- 9 Not available with QRS, EC or NOM.
- 10 Black finish on housing only.

Outdoor and Special Environments

Catalog Number	TWAC 100M 277 DMB LPI	
Notes		Type M

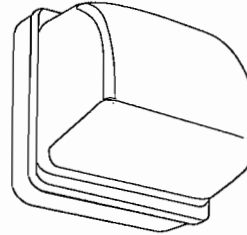
Cutoff Mini Wall-Packs

TWAC

METAL HALIDE
50-100W

HIGH PRESSURE SODIUM
35-100W

COMPACT FLUORESCENT
22-28DTT, 26- 42TRT



Specifications

Height:	10" (25.4cm)
Width:	11-1/2" (29.2cm)
Depth:	8-15/16" (22.7cm)
Weight:	10 lbs. (4.53kg)



Consistent with LEED® goals & Green Globes™ criteria for light pollution reduction

Example: TWAC 50M 120 LPI

Accessories

Order as separate catalog number	
RK1 PEB1	Photocell kit (120V only)
RK1 PEB1 CSA	Photocell kit (120V only)
RK1 PEB2	Photocell kit (208, 240 or 277V)
RK1 PEB3 CSA	Photocell kit (347V)
TWAWG	Wireguard

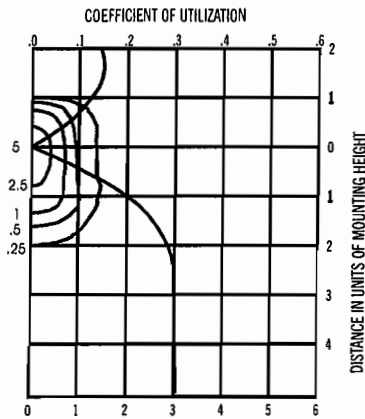
Sheet #: TWAC-M-S-CF_0

BM-700

TWAC Cutoff Wall-Pack

TWAC 50M

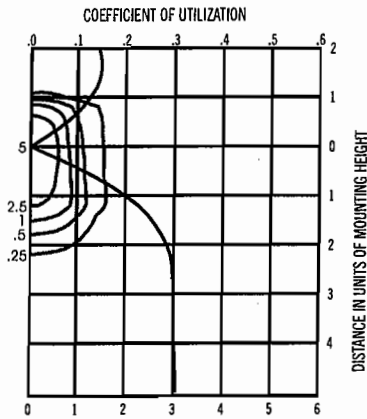
Test No. LTL8360



50W Metal Halide lamp, 8500 rated lumens. Footcandle values based on 20' mounting height, Distribution, cutoff.

TWAC 70M

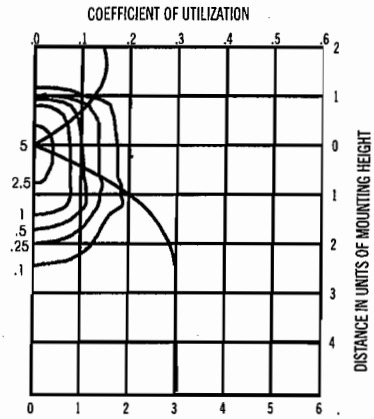
Test No. LTL8338



70W Metal Halide lamp, 5200 rated lumens. Footcandle values based on 20' mounting height, Distribution, cutoff.

TWAC 100M

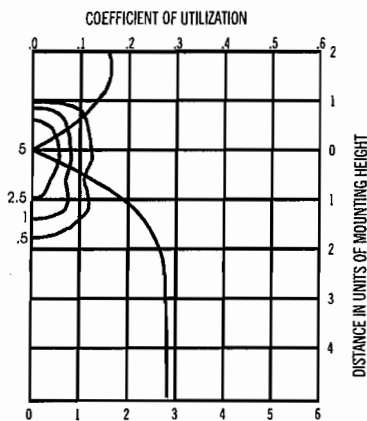
Test No. LTL8359



100W Metal Halide lamp, 8500 rated lumens. Footcandle values based on 20' mounting height, Distribution, cutoff.

TWAC 35S

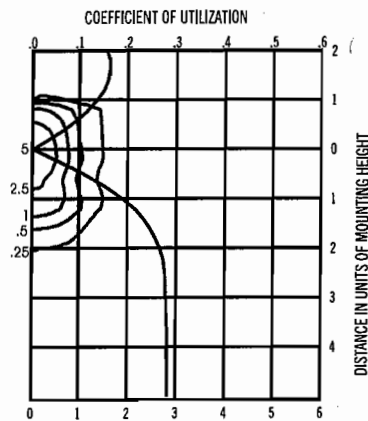
Test No. LTL8358



35W High Pressure Sodium lamp, 4000 rated lumens. Footcandle values based on 20' mounting height, Distribution, cutoff.

TWAC 50S

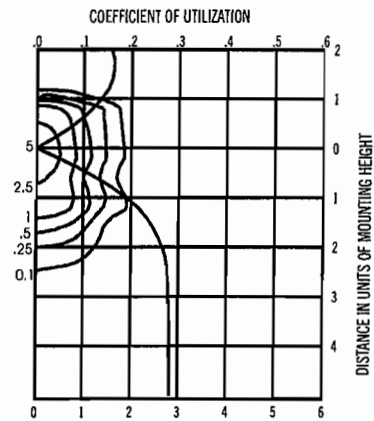
Test No. LTL8357



50W High Pressure Sodium lamp, 6300 rated lumens. Footcandle values based on 20' mounting height, Distribution, cutoff.

TWAC 100S

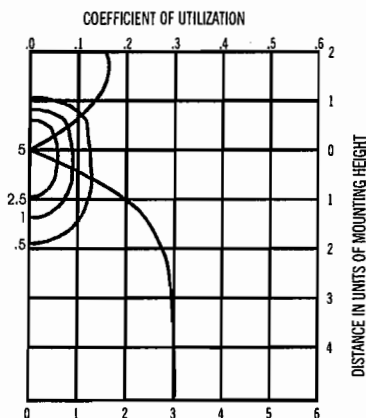
Test No. LTL8337



100W High Pressure Sodium lamp, 9500 rated lumens. Footcandle values based on 20' mounting height, Distribution, cutoff.

TWAC 32TRT

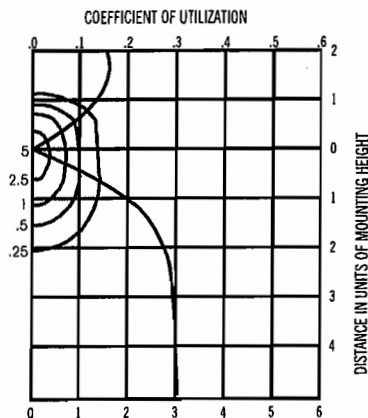
Test No. LTL8361



32W Compact Fluorescent lamp, 3200 rated lumens. Footcandle values based on 20' mounting height, Distribution, cutoff.

TWAC 42TRT

Test No. LTL8339



42W Compact Fluorescent lamp, 5200 rated lumens. Footcandle values based on 20' mounting height, Distribution, cutoff.

Mounting Height Correction Factor

(Multiply the fc level by the correction factor)

8 ft. = 6.25

10 ft. = 4.00

12 ft. = 2.78

15 ft. = 1.78



An AcuityBrands Company

JUNO lighting

8" METAL HALIDE DOWNLIGHT

LENSED APERTURE

Medium Base Metal Halide 50/70/100W
ED17/BD17, Magnetic Ballast

M8-(50,70,100)-8840, -8842

Project: hhgregg

Fixture Type: N

Location: M8 100 8842WH

Contact/Phone:

PRODUCT SPECIFICATIONS

Lamp One 50W, 70W, or 100W ED17/BD17 medium base Metal Halide lamp.

Socket Housing Medium base, glazed porcelain, 4kV pulse-rated socket with nickel-plated copper screw shell • Extruded aluminum housing with heat dissipating fins.

Reflector .050" clear diffuse aluminum reflector.

Baffle Aluminum, stepped baffle in matte black.

Lens Prismatic or Fresnel glass lens.

Trim Ring White baked enamel, integral with baffle. • Trim fastens to reflector with two torsion springs.

Ballast Pre-wired, encased and potted 60 Hz ballast • Dual tap for 120V and 277V or 120V and 347V [50W 347V is single tap] • All ballasts are high power factor, high reactance circuits with integral ignitor and auto reset thermal protection • Minimum starting temperature is -20° F (-30° C) • Ballast can be replaced with removal of a single screw.

Testing All reports are based on published industry procedures; field performance may differ from laboratory performance.

Product specifications subject to change without notice.

INSTALLATION

Mounting Bracket Housings are equipped with vertically adjustable mounting brackets that accept 1/2" conduit or "C" channels (HB-26 or HB-50) or linear flat bars (LB-27).

Junction Box Pre-wired, oversized junction box • U.L. listed/CSA certified for through-branch wiring, maximum 8 No. 12 AWG 90° C branch circuit conductors (4 in, 4 out) • Junction box provided with removable access plates, (5) 1/2" and (5) 3/4" knockouts and ground wire.

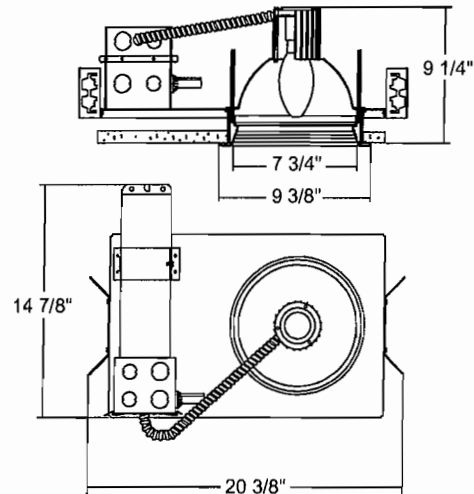
Mounting Frame 18-gauge, die-formed galvanized steel • 17 3/4" L x 11 1/2" W, excluding mounting brackets • Rough-in section (ballast, junction box, mounting frame, socket housing) fully assembled for ease of installation.

Labels Product thermally protected against improper use of insulation • Union made, AFL-CIO • U.L. listed and CSA certified for damp locations.

PRODUCT CODES

Catalog Number	Trim	Wattage and Lamp
M8-50-8840-WH	Prismatic w/Baffle	50W MH ED17/BD17
M8-70-8840-WH	Prismatic w/Baffle	70W MH ED17/BD17
M8-100-8840-WH	Prismatic w/Baffle	100W MH ED17/BD17
M8-50-8842-WH	Fresnel w/Baffle	50W MH ED17/BD17
M8-70-8842-WH	Fresnel w/Baffle	70W MH ED17/BD17
M8-100-8842-WH	Fresnel w/Baffle	100W MH ED17/BD17

DIMENSIONS



8 1/2" CEILING CUTOUT

ENGINEERING DATA

ANSI #	50W		70W		100W	
	120/277	120/347	120/277	120/347	120/277	120/347
M-110	M-110	M-110	M-98	M-98	M-90	M-90
Input AMPS						
Operating	0.65/0.30	0.60/0.20	0.85/0.37	0.85/0.30	1.10/0.48	1.10/0.38
Starting	0.80/0.35	0.45/0.15	1.25/0.55	1.15/0.40	2.20/0.95	2.20/0.75
Open Circuit	1.15/0.50	1.60/0.55	1.60/0.75	1.70/0.70	2.40/1.05	2.40/0.85
Input Watts						
	72	67	94	94	125	125
Nominal Open						
Circuit Voltage	254	277	230	240	277	277
Fuse Rating Amps	3/2	4/2	4/2	5/2	6/3	6/2
Sound Rating	B	B	B	B	B	B

ACCESSORIES

Catalog No.	Description
HB-26	26" C-Channel Bar Hangers w/ T-Bar Clips (set of 2)
HB-50	50" C-Channel Bar Hangers w/ T-Bar Clips (set of 2)
LB-27	27" Linear Flat Bars (set of 2)

To order, specify catalog number.

OPTIONS

Catalog No.	Description
CN	120/347V (Except 50W)
F	Fusing
Q	Quartz Restrike (100W max)

To specify, add to catalog number.

PRISMATIC PHOTOMETRIC REPORT

Test Report #: FB96120
 Catalog No: M8-100-8840-WH
 Total Luminaire Efficiency: 53.1%
 Luminaire Spacing Criterion: .9
 Luminaire: Prismatic Lens with Baffle
 Lamp: One MXR100/C/U/MED lamp rated @ 8500 lumens

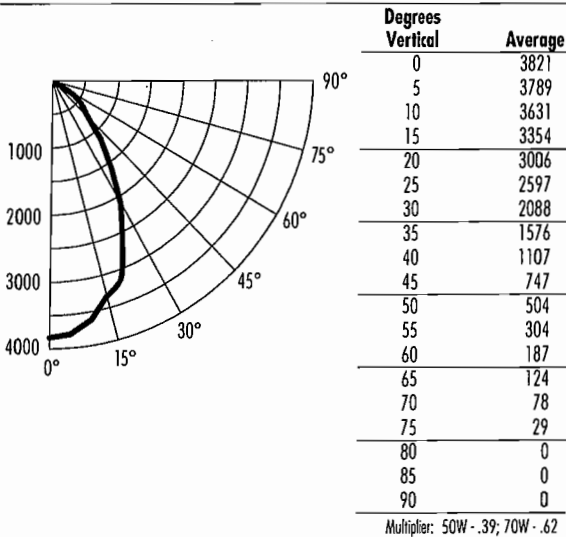
8" METAL HALIDE DOWNLIGHT

LENSED APERTURE

Medium Base Metal Halide 50/70/100W
 ED17/BD17, Magnetic Ballast

M8-(50,70,100)-8840, -8842

CANDLEPOWER DISTRIBUTION (Candelas)



ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0-30°	2514	29.6	55.8
0-40°	3505	41.2	77.7
0-60°	4356	51.2	96.6
0-90°	4510	53.1	100.0
90-180°	0	—	—
0-180°	4510	53.1	100.0

COEFFICIENTS OF UTILIZATION - % (Zonal Cavity Method) Effective Floor Cavity Reflectance 20% (ρ_{fc})

RCR	ρ _{cc} ρ _w	80			70			50			30			10			0
		50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0		63	63	63	62	62	62	59	59	59	56	56	56	54	54	54	53
1		58	57	55	57	56	54	55	54	53	53	52	51	51	50	50	49
2		53	51	49	52	50	48	50	49	47	49	47	46	47	46	45	44
3		49	46	43	48	45	43	47	44	42	45	43	41	44	42	44	40
4		45	41	39	44	41	39	43	40	38	42	40	38	41	39	34	36
5		41	38	35	41	38	35	40	37	35	39	36	34	38	36	34	33
6		38	35	32	38	35	32	37	34	32	36	34	32	36	33	31	30
7		36	32	29	35	32	29	35	31	29	34	31	29	33	31	29	28
8		33	30	27	33	30	27	32	29	27	32	29	27	31	29	27	26
9		31	28	25	31	27	25	30	27	25	30	27	25	29	27	25	24
10		29	26	23	29	26	23	28	25	23	28	25	23	28	25	23	22

ρ_{cc} - Ceiling Cavity Reflectance (%) ρ_w - Wall Reflectance (%)

INITIAL FOOTCANDLES

One Unit, 100 Watt, 63.5° Beam

Footcandles Beam Edge	Footcandles Beam Center	Beam Diameter	Distance to Illuminated Plane (Feet)
32.6	106.1	7.4"	6
18.4	59.7	9.9"	8
11.8	38.2	12.4"	10
8.2	26.5	14.8"	12
6.0	19.5	17.3"	14
4.6	14.9	19.8"	16
3.6	11.8	22.3"	18
2.9	9.6	24.9"	20

{Beam Edge defined as 50% of Maximum Nadir Candlepower}

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array)

Spacing	RCR1	RCR4	RCR8
5.0'	197	153	112
6.0'	137	106	78
7.0'	101	78	57
8.0'	77	60	44
9.0'	61	47	35
10.0'	49	38	28
12.0'	34	27	19



1300 S. Wolf Road, P.O. Box 5065, Des Plaines, IL 60017-5065 Phone 847.827.9880 FAX 847.827.2925
 220 Chrysler Dr., Brampton, Ontario, Canada, L6S 6B6 Phone 905.792.7335 FAX 905.792.0064
 Visit us at www.junolighting.com



FEATURES & SPECIFICATIONS

INTENDED USE

For building- and wall-mounted applications.

CONSTRUCTION

Rugged, die-cast, single-piece aluminum housing. Die-cast doorframe has a 1/8" thick tempered glass lens. Doorframe is fully gasketed with one-piece solid silicone.

FINISH

Standard finish is new textured dark bronze (DDBT) corrosion-resistant polyester powder finish, with other architectural colors available.

OPTICAL SYSTEM

Segmented reflectors for superior uniformity and control. Medium throw (MD) full cutoff distribution available.

ELECTRICAL SYSTEM

Fluorescent ballast is Class P, electronic, high power factor, <10%THD, with starting temperature of 0°F (-18°C). Fluorescent socket is high temperature thermoplastic with an integral lamp retention clip.

INSTALLATION

Universal mounting mechanism with integral mounting support allows fixture to hinge down. Bubble level provides correct alignment with each installation.

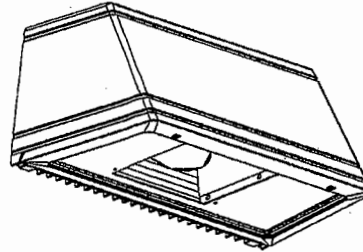
LISTING

UL Listed (standard). CSA Certified (see Options). Suitable for wet locations (damp location listed in lens-up orientation). WLU option offers wet location listing in up orientation (see Options). IP65 Rated.

Catalog Number	TWAC 100M 277 DMB LPI	
Notes		Type M

Decorative Wall-Mounted Lighting

WST



Standard Dimensions

Length: 16.25 (41.2)
Depth: 9.13 (23.2)
Overall Height: 7.25 (18.4)
Max. Weight: 30 lbs (13.6 kg)

All dimensions are inches (centimeters) unless otherwise specified.

COMPACT FLUORESCENT

26DTT
2/26DTT
26TRT
2/26TRT
32TRT
2/32TRT
42TRT
2/42TRT

ORDERING INFORMATION

Choose the boldface catalog nomenclature that best suits your needs and write it on the appropriate line.

Example: **WST 42TRT MD 120 LPI DNAT**

WST	100M	277	DMB	LPI
Series	Wattage/Source	Distribution	Voltage	Options
WST	Compact Fluorescent	MD Medium throw	120	Shipped installed in fixture
	26DTT		208 ¹	GMF Internal slow-blow fusing ³
	2/26DTT		240 ¹	EC Emergency circuit (25W max 120V, incandescent lamp included)
	26TRT		277	DC12 Emergency circuit 12 volt (35W lamp included std.) ⁴
	2/26TRT		347	2DC12 Emergency circuit 12 volt (2, 35W lamps included) ⁴
	32TRT		MVOLT²	DC2012 Emergency circuit 12 volt (20W lamp included) ⁴
	2/32TRT			2DC2012 Emergency circuit 12 volt (2, 20W lamps included) ⁴
	42TRT			ELDWC Emergency battery pack (32° min. operating temp.) ^{3,5}
	2/42TRT			ELDWC Emergency battery pack (0° min. operating temp.) ^{3,5,8}
				ELDWR Fixture wired for Bodine® B30 remote battery pack (32° min. operating temp.) ^{3,7}
				ELDWRS Fixture wired for PS1400 or PSDL3 remote battery pack (32° min. operating temp.) ^{3,7,8}
				CR Enhanced corrosion resistance
				CRT Non-stick protective coating (black only)
				PE Photoelectric cell-button type ^{3,9}
				WLU Wet location door for up orientation
				DFL Diffusing lens
				LPI Lamp included (std)
				L/LP Less lamp
				CSA CSA Certified
				Shipped separately
				WSBBW Surface-mounted back box
				UT5 Uptilt 5 degrees
				WSTWG Wire guard ⁹
				WSTVG Vandal guard ⁹
				Architectural colors¹⁰
				Standard textured colors
				DDBT Dark bronze (std.)
				DSST Sandstone
				DNAT Natural aluminum
				DWHG White
				DBLB Black
				Optional textured colors
				DBNH Bronze
				DSPD Dark gray
				DSPJ Light gray
				DSPE Green
				DSPG Dark red
				DSPF Rust
				DSPH Red
				Stripping
				SDDB Dark bronze
				SDWH White
				SDBL Black
				SDNA Natural aluminum
				SDTG Tennis green
				SDBR Bright red
				SDBUA Dark blue
				SDGYM Gray
				SDYLB Yellow

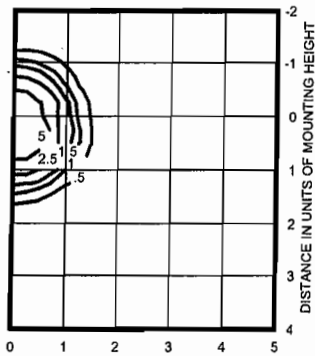
NOTES:

- Consult factory for availability in Canada.
- Optional multi-volt electronic ballast capable of operating on any line voltage from 120-277V.
- Not available with MVOLT; must specify voltage.
- Not available with GMF.
- Not available with 2/32TRT or 2/42TRT.
- Not available with 2/26DTT or 2/26TRT.
- Not available with 2/42 TRT.
- Pilot light/test switch mounting plate included. See lamp compatibility chart on back page.
- Must be ordered with fixture; cannot be field installed.
- Additional architectural colors available; see www.lithonia.com for more information.

WST Fluorescent Building Mounted

WST 2/42TRT MD TEST NO: LTL11108

ISOILLUMINANCE PLOT (Footcandle)



2/42TRT lamp, horizontal lamp orientation
Footcandle values based on 12'
mounting height, 3200 rated lumens (per lamp).
Luminaire Efficiency: 49.6%

Lamp	Initial Lumens	Mounting Height			
		10'	12'	14'	16'
Compact Fluorescent					
42W TRT	3,200	0.72	0.5	0.37	0.28
(2) 42W TRT	6,400	1.44	1.0	0.73	0.56

Emergency Battery Pack Lamp Compatibility				
Lamp Options (# of lamps/wattage)	ELDW	ELDWC	ELDWR	ELDWRPS
26DTT (one lamp)	■	■	■	■
2/26DTT	■		■	■
26TRT (one lamp)	■	■	■	■
2/26TRT	■		■	■
32TRT (one lamp)	■	■	■	■
2/32TRT			■	■
42TRT (one lamp)	■	■	■	■
2/42TRT			■	



FEATURES & SPECIFICATIONS

INTENDED USE — Provides a minimum of 90 minutes illumination for the rated wattage upon loss of AC power. Ideal for applications requiring low-profile, attractive emergency lighting.

CONSTRUCTION — Compact, low-profile, architectural design with die-cast aluminum housing that has a contemporary brushed nickel-plated finish. Other available finishes are texturized polyester powder coat paint in white, black and dark bronze. All finishes can be painted in the field to match the wall color of choice.

U.S. Patent No. D468,046.

Standard optics provided with two 6W wedge-base xenon lamps offer 55 percent more light output than standard incandescent lamps. Patent-pending reflector/refractor design features superior vac-metalized, die-casted reflectors; and multi-faceted, highly transmissive refractor that significantly improve photometrics.

Forward throw (FWD) option optics provided with two high-brightness white LEDs, projecting an NFPA-101 compliant path 3' wide and 28' forward, when mounted 8-1/2' AFF.

All light sources meet requirements for NEC 700.16.

Dual-voltage input capability (120/277V).

Edge connectors on printed circuit board ensure long-term durability.

Universal J-box mounting pattern.

Low-profile, integrated test switch/pilot light located below the lens.

Easily visible green status indicator.

Rigid conduit entry provision on top of the unit.

BATTERY — Sealed, maintenance-free lead-calcium battery provides 12W rated capacity. Nickel-cadmium battery with Premium and Exterior option packages.

Automatic 48-hour recharge after a 90-minute discharge.

Low-voltage disconnect prevents excessively deep discharge that can permanently damage the battery. Single-circuit battery connection.

ELECTRONICS — Current-limiting charger maximizes battery life and minimizes energy consumption. Provides low operating costs.

Short-circuit protection — current-limiting charger circuitry protects printed circuit board from shorts.

Thermal protection senses circuitry temperature and adjusts charge current to prevent overheating and charger failure.

Thermal compensation adjusts charger output to provide optimum charge voltage relative to ambient temperature.

Regulated charge voltage maintains constant-charge voltage over a wide range of line voltages. Prevents over/undercharging that shortens battery life and reduces capacity.

Filtered charger input minimizes charge voltage ripple and extends battery life.

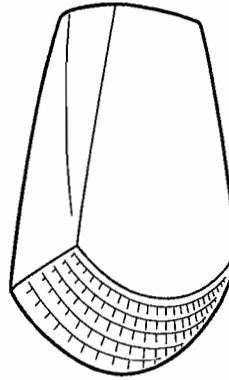
AC/LVD reset allows battery connection before AC power is applied and prevents battery damage from deep discharge.

Catalog Number	TWAC 100M 277 DMB LPI	
Notes		Type M

AFFINITY®

Die-Cast Architectural Emergency Light

AFN



Brownout protection is automatically switched to emergency mode when supply voltage drops below 80 percent of nominal.

EXT TD option package includes 20-minute time delay for supplemental lighting during HID startup.

SELF-DIAGNOSTICS (PREM and EXT TD option packages)

Patented Electronics - U.S. Patent No. 6,502,044.

Single multi-chromatic LED indicator to display two-state charging, test activation and three-state diagnostic status.

Test switch provides manual activation of 30-second diagnostic testing for on-demand visual inspection.

Self-diagnostic testing for five minutes every 30 days and 30 minutes every six months.

Diagnostic evaluation of lamp, AC to DC transfer, charging and battery condition. Continuously monitors AC functionality.

Postpone automatic test initiates eight hour delay of an automatic test by activating the manual test switch.

LISTING — UL listed. Wet location (EXT TD) listed. Damp location (PREM, EXT TD) listed. Cold weather (EXT TD) listed.

Meets UL 924, NFPA 101, NFPA 70-NEC and OSHA illumination standards. UL labeled.

WARRANTY — Three-year warranty.

ORDERING INFORMATION

For shortest lead times, configure product using **standard options (shown in bold)**.

Example: AFN W EXT

AFN	
Family	
AFN	AFFINITY Series die-cast architectural emergency lighting

100M	
Finish	
W	White
B	Black
BN	Brushed nickel
DB	Dark bronze¹

277	
Option packages	
(blank)	Features lead calcium battery
PREM	Features ni-cad battery, self-diagnostics and damp location 0° to 50°C (32° to 122°F)
EXT	Features high-temperature ni-cad battery listed from -18° to 50°C (0° to 122°F), self-diagnostics, time delay; listed for cold weather, damp and wet location
FWD	Forward throw optics ²

NOTES:

- Dark bronze can only be ordered with EXT option. This finish is not available on other units.
- Only available in EXT option.

Accessories

Order as separate item.

ELAAFNDRB Remote fixture (less batteries and electronics) to be powered by 6V battery equipment as part of an emergency lighting system (listed from 0°F to 122°F; -18°C to 50°C), W, B finishes available.²

AFN Affinity® Die-Cast Architectural Emergency Light

SPECIFICATIONS

ELECTRICAL

Primary Circuit

Type	AC Input			Output Volts	Watts Output 1-1/2hrs.
	Volts	Amps	Watts		
AFN	120	.11	1.1	6	12
	277	.12	1.3		
AFN PREM	120	.15	1.4	6	12
	277	.14	1.4		
AFN EXT	120	.23	21	6	12
	277	.25	35		

BATTERY

Sealed Lead-Calcium

Voltage	Shelf life ¹	Expected life ¹	Maintenance	Optimum temperature ²
6	6 mos.	5-8 yrs.	none ³	60-90°F (16-32°C)

Nickel-Cadmium

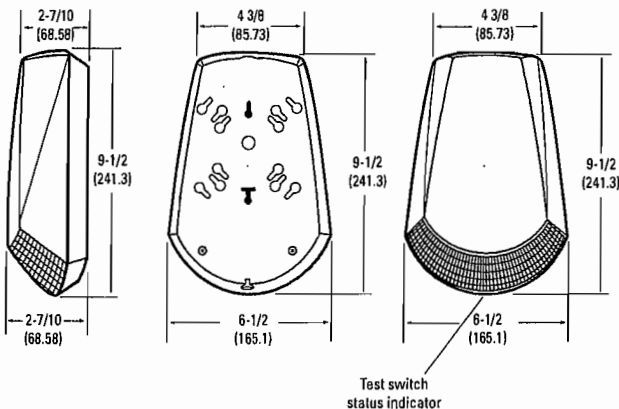
Voltage	Shelf life ¹	Expected life ¹	Maintenance	Optimum temperature ²
6	3 yrs.	7-9 yrs.	none ³	32-122°F (0-50°C)

- At 77°F (25°C).
- Optimum ambient temperature range where unit will provide capacity for 90 minutes. Higher and lower temperatures affect life and capacity. See option packages for expanded temperature ranges. Consult factory for detailed information.
- To ensure compliance with NFPA 101 requirements, we recommend testing all signage and emergency lighting systems for 30 seconds every 30 days, and for 90 minutes annually.

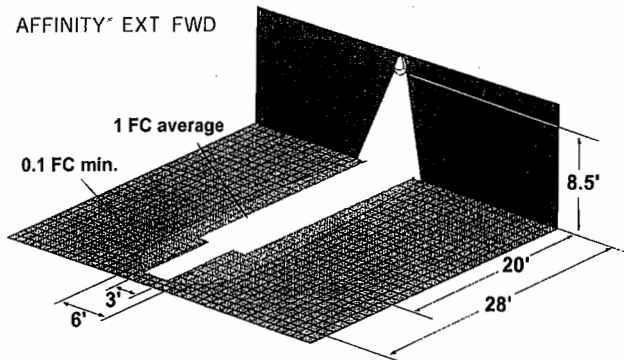
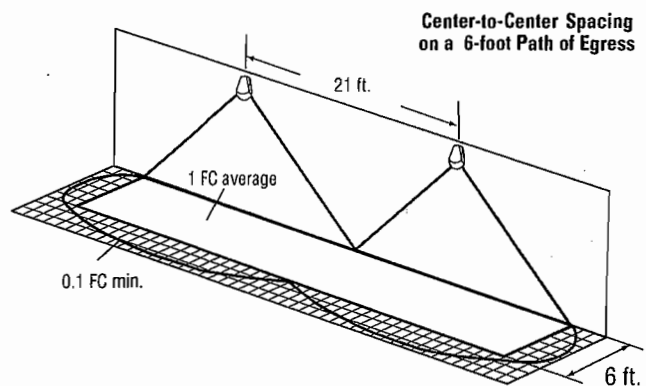
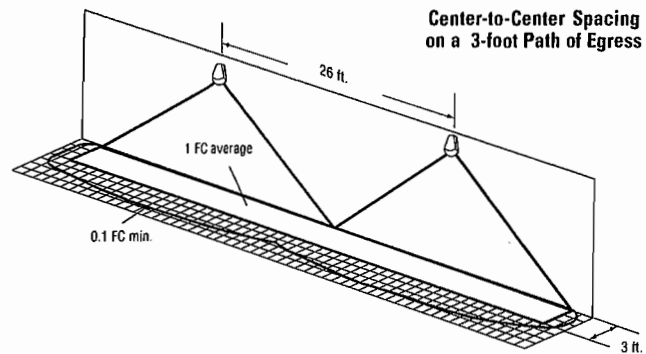
MOUNTING

All dimensions are inches (millimeters).

Shipping weight: 3.5 lbs. (1.59 kgs.)



FIXTURE PERFORMANCE



SPACING GUIDE

Xenon Lamp	Path of Egress 3'-wide	Path of Egress 6'-wide
Center-to-Center Spacing	26'	21'

NOTE: Meets Life Safety Code standard minimum illuminance of 0.1 FC and average illuminance of 1.0 FC. Assumes open space with no obstructions, mounting height: 8.5', ceiling height: 9', and reflectances: 80/50/20.



An Acuity Brands Company



FEATURES & SPECIFICATIONS

INTENDED USE — Use for parking lots, streets and surrounding areas.

CONSTRUCTION — Heavy gauge die-formed aluminum housing is fabricated using robotic continuous seam-weld process for weather-tight integrity. Integral structural support plate for mounting arm and electrical components ensures rigidity and strength. Hinged aluminum door frame incorporates stainless steel hardware. Continuous silicone gasketing surrounds lens for weather-tight seal. Optional tool-less hardware is available to maximize installation and maintenance ease.

Lens: Thermal shock resistant tempered glass lens. Choice of contoured drop lens or flat lens is available in standard product. Standard finish is dark bronze corrosion resistant electrostatically applied powder paint. Optional linear embossed accent reveals are available.

OPTICS — Most flat lens configurations meet full-cutoff criteria. See www.lithonia.com for details. Vertical-lamp reflectors are 1-piece spun and formed anodized aluminum. Specialized distributions available for either drop lens or flat lens. Reflectors are independently designed to optimize light output for the lens type. Horizontal-lamp reflectors also available.

ELECTRICAL — All electrical components are mounted to a heavy-gauge plate to maximize heat dissipation and ensure structural integrity for optimal component life. Ballast: Constant wattage autotransformer. Metal Halide: Super CWA (pulse start ballast), 88% efficient and EISA legislation compliant, is required for 175-400W (SCWA option) for US shipments only. CSA, NOM or INTL required for probe start shipments outside of the US. Pulse-start ballast (SCWA) required for 200W, 320W, 350W, or 450W. Ballast is 100% factory-tested.

Socket: Mogul-base porcelain socket with copper alloy, nickel-plated screw shell and center contact. Vertically-oriented for types SYM, ASY, and VFA distributions. Horizontal position-oriented for types R2, R3 and R4. UL listed 1500W-600V, 4KV pulse rated. Reflectors are rotatable and interchangeable.

INSTALLATION — Extruded aluminum arm with integral splice compartment. Standard arm is 9" in length. Aluminum fitter for 4" to 6" OD poles.

LISTINGS — UL Listed to US and Canadian safety standards (see Options). NOM Certified (see options). UL listed for 25°C ambient and wet locations. Optical chamber IP65 rated.

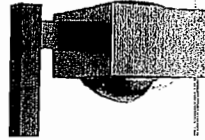
Note: Specifications subject to change without notice.

Catalog Number	KFL2 1000M SYMFL
Notes	
Type	

Square Area Lighting

KVF2

METAL HALIDE: 175-1000W
HIGH PRESSURE SODIUM: 250-1000W
20' to 40' Mounting

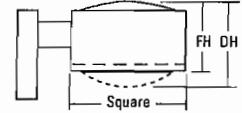


Specifications

Square: 21-1/2 (54.6)
Flat lens height: 14 (35.5)
Drop lens height: 17 (43.2)
Arm mount
EPA: 2.8 ft² (0.25 m²), incl. arm
*Weight: 53 lbs (24 kg)
Overall Height: 22-3/4 (57.8)

Post top
EPA: 2.8 ft² (0.25 m²)
Weight: +2 lbs to *

Dimensions in inches (centimeters) unless otherwise specified.



Mounting Option	Drilling Template
SPxx, RPxx, WBxx, WWxx	5
	6
	7

ORDERING INFORMATION

For shortest lead times, configure products using **bolded options**.

Example: KVF2 400M SYMDL TB SCWA SP09 LPI

KVF2	1000M	SYMFL				Mounting	
Series	Wattage	Distribution		Voltage	Ballast	Type	
KVF2	Metal halide	Vertical lamp: ⁷	High-performance horizontal lamp: ⁸	120	(blank) Magnetic ballast	Type	Size ¹²
	175M ¹	SYM___ Symmetric square	SR2FL Type II roadway	208 ⁹	CWI Constant wattage isolated	SP___ Square pole	06 6" arm
	200M ²	ASY___ Asymmetric	SR3FL Type III asymmetric	240 ⁹	Pulse Start EISA BALLAST SYSTEM	RP___ Round pole	09 9" arm
	250M ³	VFA Vertical forward throw automotive	SR4SCFL Type IV forward throw, sharp cutoff	277	SCWA Super CWA ballast	WB___ Wall bracket	12 12" arm
	320M ²	Horizontal lamp: ⁷	SR4WFL Type IV forward throw, wide	347	Note: For shipments to U.S. territories, SCWA must be specified to comply with EISA.	WW___ Wood pole or wall bracket	
	350M ^{1,2}	R2___ Type II		480 ⁹		PT___ Post top; opentop pole	4 4" OD
	400M ¹	R3___ Type III		TB ¹⁰			4.5 4.5" OD
	450M ^{1,2}			23050HZ ¹¹			5 5" OD
	1000M⁴						6 6" OD

Options			Finish	Options
Shipped installed in fixture	EHS External houseside shield black (matches fixture finish) ^{16, 17, 18}	Shipped separately¹⁶	(blank) Dark bronze	LPI Lamp included
SF Single fuse 120, 277, 347V ¹³	EHSB External houseside shield black (painted black to maximize light control) ^{16, 18}	VG Vandal guard ^{12, 18}	DBL Black	L/LP Less lamp
DF Double fuse 208, 240, 480V ¹³	CSA Listed and labeled to comply with Canadian Standards	PE1 NEMA twist-lock PE (120, 208, 240V)	DGC Charcoal gray	
KW1 KiloWatch® 120V control relay ^{13, 14}	NOM NOM certified ¹¹	PE3 NEMA twist-lock PE (347V)	DMB Medium bronze	
KW4 KiloWatch® 277V control relay ^{13, 14}	INTL Available for 175M probe start shipping outside the U.S.	PE4 NEMA twist-lock PE (480V)	DNA Natural aluminum	
PER NEMA twist-lock receptacle only (photocontrol not included)	REGC1 California Title 20 effective 1/1/2010	PE7 NEMA twist-lock PE (277V)	DWH White	
QRS Quartz restrike system ¹⁵		SC Shorting cap	CR Corrosion resistant	
QRSTD QRS time delay ^{11, 15}				
EA Embossed accent				

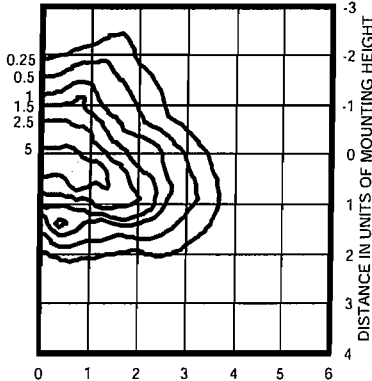
Accessories: Tenon Mounting Slits (see www.lithonia.com for ordering information)						
Tenon O.D.	One	Two@180°	Two@90°	Three@120°	Three@90°	Four@90°
2-3/8 (6.0)	T20-190	T20-280	T20-290	T20-320	T20-390	T20-490
2-7/8 (7.3)	T25-190	T25-280	T25-290	T25-320	T25-390	T25-490
4 (10.2)	T35-190	T35-280	T35-290	T35-320	T35-390	T35-490

- Notes**
- These wattages do not comply with California Title 20 regulations.
 - Must be ordered with SCWA.
 - These wattages require the REGC1 option to be chosen for shipments into California for Title 20 compliance. 250M REGC1 not available in 347 or 480V.
 - Use reduced jacketed lamp.
 - Not available with SCWA.
 - Available in ASYDL, SYMDL or VFAOL Standard ED25 lamp.
 - For drop lens, specify DL. For flat lens, specify FL. Example: SYMDL or R2FL.
 - Not available with 1000W or post top.
 - Must specify CWI for use in Canada.
 - Optional multi-tap ballast (120, 208, 240, 277V; 120, 277, 347V in Canada).
 - Consult factory for available wattages.
 - 12" arm required when two or more luminaires are oriented on a 90° drilling pattern.
 - Not available with TB. Must specify voltage.
 - Available in vertical lamp orientation only for 200-400M SCWA. Any orientation on 250S or 400S only.
 - Maximum allowable wattage lamp included.
 - May be ordered as an accessory.
 - Specify finish when ordered as an accessory.
 - Prefix with KVF2 when ordering as an accessory.
 - Use KVF2EHSFL___ for high-performance reflectors.
 - See www.lithonia.com/archcolors for additional color options.
 - Must be specified.
 - Arm mount only.

KVF2 Arm-Mounted Area Lighting

KVF2 250M SR2FL TEST NO: LTL11250P

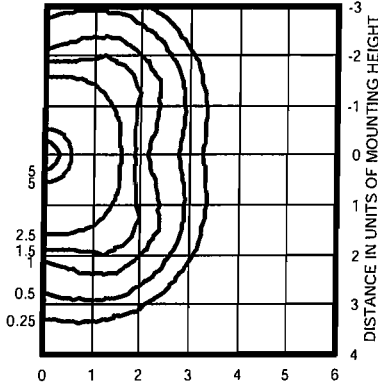
ISOILLUMINANCE PLOT (Footcandle)



250W pulse start metal halide lamp, rated 22500 lumens. Footcandle values based on 20' mounting height.
Classification: Type II, Short, Full Cutoff

KVF2 400M SYMFL TEST NO: LTL9432P

ISOILLUMINANCE PLOT (Footcandle)

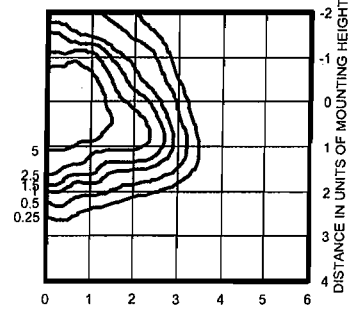


400W pulse start metal halide lamp, rated 42000 lumens. Footcandle values based on 20' mounting height.
Classification: Type IV, Short, Full Cutoff

KVF2 400S R3FL

TEST NO: LTL11324

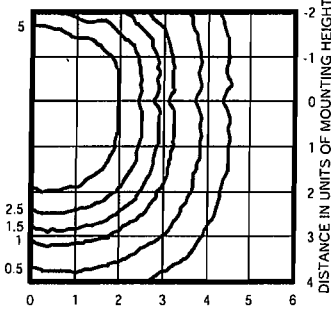
ISOILLUMINANCE PLOT (Footcandle)



400W lamp, rated 50000 lumens. Footcandle values based on 20' mounting height.
Classification: Type II, Medium, Full Cutoff

KVF2 1000M ASYDL TEST NO: LTL11381

ISOILLUMINANCE PLOT (Footcandle)



1000W lamp, rated 110000 lumens. Footcandle values based on 20' mounting height.
Classification: Type IV, Short, Cutoff

Mounting Height Correction Factor

(Multiply the fc level by the correction factor)

25 ft.= 0.64

30 ft.= 0.45

40 ft.= 0.25

$$\left(\frac{\text{Existing Mounting Height}}{\text{New Mounting Height}} \right)^2 = \text{Correction factor}$$

Notes

- 1 Photometric data for other distributions can be accessed from the Lithonia Lighting Web site (www.lithonia.com)
- 2 For electrical characteristics, consult outdoor technical data specification sheets on www.lithonia.com.
- 3 Tested to current IES and NEMA standards under stabilized laboratory conditions. Various operating factors can cause differences between laboratory and actual field measurements. Dimensions and specifications are based on the most current available data and are subject to change.



FEATURES & SPECIFICATIONS

INTENDED USE — Outdoor storage areas, warehouse and factory perimeters and loading docks.

CONSTRUCTION — Rugged, corrosion-resistant, die-cast aluminum. Corrosion-resistant external hardware includes slotted hex-head fasteners.

Finish: Standard finish is electrostatically-applied, oven-cured, dark bronze (DDB) corrosion-resistant polyester powder paint.

OPTICS — Reflector is specular anodized aluminum. Refractor is prismatic borosilicate glass which is sealed and gasketed to inhibit the entrance of outside contaminants.

ELECTRICAL — Electrical components are mounted in hinged front cover that includes primary and secondary electrical disconnect.

Ballast: Low pressure sodium: High reactance, high power factor. High pressure sodium: 70-150W is high reactance, high power factor. Constant wattage autotransformer for 200-400W. Metal halide: 70-150W is high reactance, high power factor and is standard with pulse-start ignitor technology. SCWA not required. Constant wattage autotransformer for 175-400W. Super CWA (pulse start ballast), 88% efficient and EISA legislation compliant, is required for metal halide 151-400W (SCWA option) for US shipments only. CSA, NOM or INTL required for probe start shipments outside of the US. Pulse-start ballast (SCWA) required for 200W, 320W, or 350W. Ballast is 100% factory-tested.

Socket: Porcelain, horizontally oriented, single-ended bayonet base socket for 35W low pressure sodium; medium base socket for 70-150W; and mogul base socket for 175W and above, with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V.

INSTALLATION — Back housing is separated from front housing, eliminating ballast weight and promoting easy handling. Top 3/4" threaded wiring access. Back access through removable 3/4" knockout. Feed-thru wiring can be achieved by using a conduit tee. Mount on any vertical surface. **Not recommended in applications where a sprayed stream of water can come in direct contact with glass lens.**

LISTINGS — UL Listed (standard). CSA or NOM Certified (see Options). UL listed for 25°C ambient and suitable for wet locations. IP65 rated (250 watt and below) or IP54 rated (400 watt) in accordance with IEC Standard 529. Note: Specifications subject to change without notice.

Catalog Number **KFL2 1000M SYMFL**

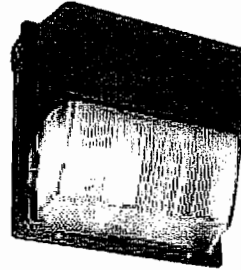
Notes

Type

Wall Packs

TWH

METAL HALIDE: 70W - 400W
HIGH PRESSURE SODIUM: 70W - 400W
LOW PRESSURE SODIUM: 35W
8' to 25' Mounting



Specifications

Height: 15-3/4 (40.0)

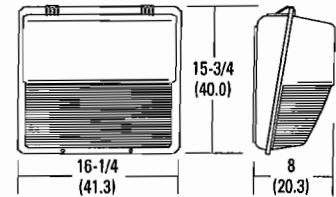
Width: 16-1/4 (41.3)

Depth: 8 (20.3)

*Weight: 29.95 (13.59kg)

All dimensions are inches (centimeters) unless otherwise indicated.

*Weight as configured in example below.



ORDERING INFORMATION

For shortest lead times, configure product using **standard options (shown in bold)**.

Example: TWH 100M TB LPI

Series	Wattage	Voltage	Ballast	Options	Finish	Lamp	
TWH	Low pressure sodium¹	Metal halide	120	(blank) Magnetic ballast	Shipped installed in fixture	(blank) Dark bronze	LPI Lamp included
	35L	100M ^{1,3}	208 ⁸	CWI Constant wattage isolated	SF Single fuse (120, 277, 347V)	DNA Natural aluminum	L/LP Less lamp
	High pressure sodium¹	150M	240⁸	Pulse Start	DF Double fuse (208, 240, 480V)	DBL Black	
	70S	175M⁴	277	SCWA Super CWA pulse start ballast	EC Emergency circuit ¹¹	DMB Medium bronze	
	100S	200M ⁵	347	Note: For shipments to U.S. territories, SCWA must be specified to comply with EISA.	QRS Quartz restrike ¹¹	DWH White	
	150S ²	250M⁶	480⁸		QRSTD Quartz restrike system with time delay ^{10,11}	CR Enhanced corrosion resistant	
	200S	320M ⁵	TB⁹		PE Photoelectric cell - button type ³	CRT Non-stick protective coating ¹⁵	
	250S	350M ^{4,5}	230SHZ ¹⁰		PER NEMA twist-lock receptacle ¹²		
	400S	400M^{6,7}			FS Full shield		
		Ceramic metal halide			TP Tamper proof screws		
		70MHC ^{1,3}			CSA Listed and labeled to comply with Canadian Standards		
		100MHC ¹			NOM NOM Certified ¹⁰		
		150MHC			INTL Available for MH probe start shipping outside the U.S.		
					REGC1 California Title 20 effective 1/1/2010		
					Shipped separately¹³		
					PE1 NEMA twist-lock PE (120V/208V/240V)		
					PE3 NEMA twist-lock PE (347V)		
					PE4 NEMA twist-lock PE (480V)		
					PE7 NEMA twist-lock PE (277V)		
					SC Shooting cap for PER option		
					VG Vandal guard ¹⁴		
					WG Wire guard ¹⁴		

Notes

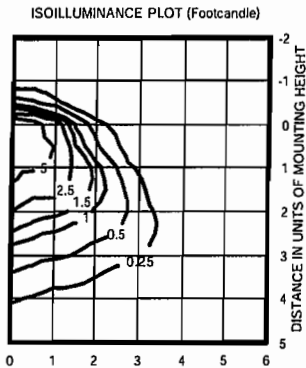
- Not available with SCWA.
- Operates 55V lamp.
- Not available with 480V.
- These wattages do not comply with California Title 20 regulations.
- Must be ordered with SCWA.
- These wattages require the REGC1 option to be chosen for shipments into California for Title 20 compliance. 250M REGC1 in not available in 347 or 480V.
- Requires T-15, ED or BT28 reduced jacket lamp.
- Must specify CWI for use in Canada.

- Optional multi-tap ballast (120, 208, 240, 277V); in Canada (120, 277, 347V).
- Consult factory for available wattages.
- Max allowable wattage lamp included.
- Photo cell not included.
- May be ordered as an accessory.
- Prefix with TWH when ordered as an accessory. Requires field modification.
- See www.lithonia.com/archcolors for additional color options.
- Black finish only.
- Must be specified. L/LP N/A MHC.

TWH Metal Halide Wall-Packs

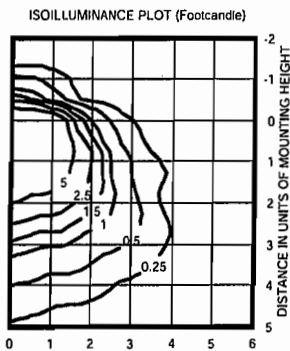
Coefficient of Utilization _____
Initial Footcandles _____

TWH 175M Test report no. 94121101P



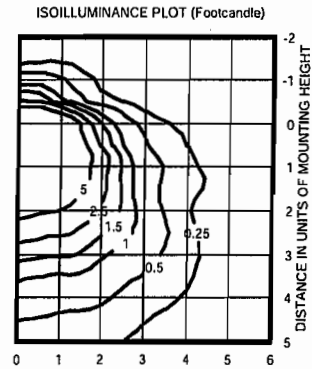
175W pulse start metal halide lamp, horizontal lamp orientation
Footcandle values based on 12' mounting height, 12800 rated lumens.
Luminaire Efficiency: 61%

TWH 250M Test report no. 95011902P



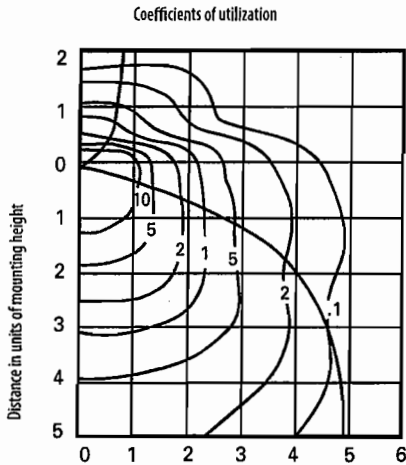
250W pulse start metal halide lamp, horizontal lamp orientation
Footcandle values based on 12' mounting height, 25000 rated lumens.
Luminaire Efficiency: 77%

TWH 400M Test report no. 94112102P



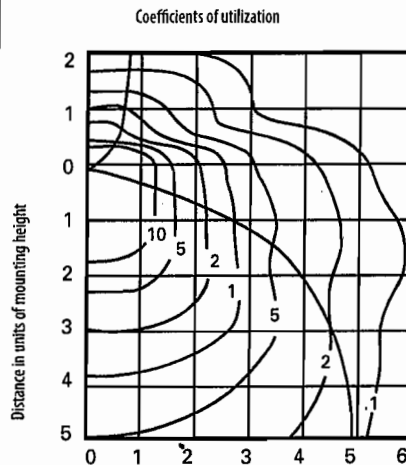
400W pulse start metal halide lamp, horizontal lamp orientation
Footcandle values based on 12' mounting height, 38000 rated lumens.
Luminaire Efficiency: 70%

TWH 250S Test report no. 94121002



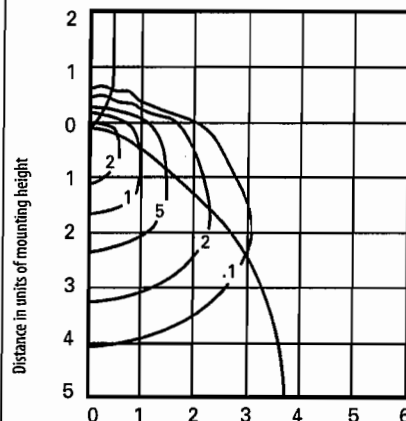
250W, high pressure sodium lamp, horizontal lamp orientation, 12' mounting height, 27,500 rated lumens.
Total fixture efficiency: 70.9%

TWH 400S Test report no. 94121001



400W, high pressure sodium lamp, horizontal lamp orientation, 12' mounting height, 50,000 rated lumens.
Total fixture efficiency: 70.9%

TWH 35L Test report no. 94121902



35W, low pressure sodium lamp, horizontal lamp orientation, 12' mounting height, 4,800 rated lumens.
Total fixture efficiency: 54.6%

Notes
1 Photometric data for other distributions can be accessed from the Lithonia Lighting Web site. (www.lithonia.com)

Mounting Height Correction Factor

(Multiply the fc level by the correction factor)

15 ft. = .64
20 ft. = .36
25 ft. = .23

$$\left(\frac{\text{Existing Mounting Height}}{\text{New Mounting Height}} \right)^2 = \text{Correction Factor}$$