

**AGENDA
MAPLE PLAIN PLANNING COMMISSION
MEETING
MAPLE PLAIN CITY HALL
APRIL 7, 2016
7:00 PM**

1. CALL TO ORDER

2. PLEDGE OF ALLEGIANCE

3. ADOPT THE AGENDA

4. CONSENT AGENDA

- a. Approve Minutes from April 7, 2016 Planning Commission Meeting

5. OLD BUSINESS

6. NEW BUSINESS

- A. Conduct a Site Plan Review for a parking lot expansion on the subject of property 5540 Pioneer Creek Trail.
- B. Consider a Variance to allow a parking lot expansion on the subject of property 5540 Pioneer Creek Trail.

8. COMMISSION REPORT AND OTHER BUSINESS

9. VISITORS TO BE HEARD

10. ADJOURN

- b. Next meeting: Thursday, June 2, 2016, at 7 p.m.*

**MINUTES
MAPLE PLAIN PLANNING COMMISSION
MEETING
MAPLE PLAIN CITY HALL
APRIL 7, 2016
7:00 PM**

1. CALL TO ORDER

Present: Chair Michele Bliss and Commissioners John Fay, Stephen Shurson, Barbara Korri, and Mardelle DeCamp. Also in attendance were City Planner, Mark Kaltsas, Councilmember, Dave Eisinger, Recorder Bobby Schoen

Chair Michele Bliss called the April 7, 2016 Planning Commission meeting to order at 7:06 P.M.

2. PLEDGE OF ALLEGIANCE

3. ADOPT THE AGENDA

Motion by Commissioner DeCamp seconded by Commissioner Fay. Motion Passed 5 to 0.

4. CONSENT AGENDA

- a. Approve Minutes from February 4, 2016 Planning Commission Meeting

The Planning Commission discussed the minutes and offered recommendations on how to conduct the minutes. The Planning Commission asked if the audio or written minutes are the official minutes of the Planning Commission. Staff responded, they would gather information on official minute keeping and let the commission know next meeting.

Motion by Commissioner Decamp to approve the February 4, 2016 Planning Commission meeting. Seconded by Commissioner Fay.

5. OLD BUSINESS

6. NEW BUSINESS

- A. Conduct a Public Hearing regarding a potential Conditional Use Permit to allow automobile and truck repair on the subject of property 5305 Pioneer Creek Trail.

The subject building is approximately 7,800 SF in size. There are two smaller office spaces located on the north side of the building with open warehouse space comprising the remainder. The applicant is proposing to store all vehicles that are being worked on inside of the building. The applicant has noted that they intend to have no more than eight (8) cars parked outside. The vehicles parked outside would be for customer parking, drop off and pickup. The eight cars would be operable and

Maple Plain Planning Commission

licensed cars and would be parked in the available spaces in front or on the side of the building. There are estimated to be approximately 8 spaces located in front of the building. If considered for approval, the City should require that the parking spaces are clearly striped. The applicant should submit a plan to the City for approval prior to striping the spaces.

The applicant is not proposing to sell any vehicles from this property.
All repair and servicing of vehicles would be done indoors.
The subject property is directly adjacent to the R-3 Residential zoning district.

The subject building is setback approximately 28 feet from the east property line and is separated by approximately 40 feet from the adjacent residential structure (see aerial photograph below). The applicant has recently planted some evergreen trees in this area. The City will need to determine if any potential impacts from the proposed use that would interfere with the reasonable use and enjoyment of the adjacent residential property can be adequately mitigated.

The building owner recently planted several evergreen trees to provide screening between the existing building and the adjacent residential property. Staff is seeking further direction from the Planning Commission relating to whether or not this will satisfy the separation requirement or if additional landscaping and or fencing should be considered.

Commission Chair, Bliss opened the Public Hearing at 7:40 P.M.

The applicant explained that the property was used as an automobile and repair shop previously and he is here to make the property in proper legal standing.

Commisison Chair, Bliss closed the public hearing at 7:42 P.M.

B. Consider a Conditional Use Permit to allow automobile and truck repair on the subject of property 5305 Pioneer Creek Trail.

The Planning Commission discussed the proposed request and asked questions of staff and the petitioner. Commissioners asked the petitioner how much fiberglass repair work they performed on the boats that they repaired. The petitioner stated that they did limited fiberglass repair work and that it was done in very small quantities. Commissioners asked if the petitioner was planning on parking boats on the public street during peak pick-up drop-off times. The petitioner responded by stating that no boats or cars would be parked on Pioneer Creek Drive. Commissioners wanted to ensure that the existing landscaping located between the building and the adjacent residential property would be required to be maintained and kept up and or replaced if necessary. Commissioners asked if both office spaces in the building would be used by the petitioner and he noted that one would be an office and the other space would be converted to a waiting room for his customers. Planning Commissioners believed that additional screening should be required between the parking lot in the front of the

Maple Plain Planning Commission

building and the adjacent residential property. Commissioners also wanted to make sure that the petitioner would be required to pull all applicable permits relating to any activity done in the building. This included painting, fiberglass work, exhaust and other potentially hazardous or regulated activities. Commissioners discussed that any trash cans or dumpsters shall be located inside of the building. Commissioners ultimately recommended approval to the City Council for the requested Conditional Use Permit with the following additional conditions:

1. The existing landscape screening shall be maintained and if necessary replaced throughout the term of the conditional use permit.
2. The applicant shall submit a plan to the City and following review and approval, install additional landscaping between the existing parking lot in the northeast corner of the site and the adjacent residential property. The landscaping shall primarily be an evergreen species that provides an opaque barrier.
3. The applicant shall be required to meet all applicable building codes and other regulatory agencies and obtain all necessary permits.
4. The conditional use permit shall be reviewed annually.

The Planning Commission discussion concluded with the following findings and conditions for the Conditional Use Permits.

- a. The conditional use permit shall be reviewed annually.
- b. There shall be no outdoor storage permitted on this site. This shall include dumpsters, tires, tire bins or containers, automobile parts, inoperable vehicles and any other outdoor storage.
- c. The overhead doors shall be closed at all times other than to move equipment, materials or vehicles into and out of the building.
- d. The existing landscape screening shall be maintained and if necessary replaced throughout the term of the conditional use permit.
- e. The applicant shall submit a plan to the City and following review and approval, install additional landscaping between the existing parking lot in the northeast corner of the site and the adjacent residential property. The landscaping shall primarily be an evergreen species that provides an opaque barrier.
- f. The applicant shall be required to meet all applicable building codes and other regulatory agencies and obtain all necessary permits.
- g. The hours of operation shall be permitted between the hours of 8:00 a.m. and 6:00 p.m. Monday through Saturday.

h. The parking spaces in front and on the side of the building shall be clearly striped. The applicant shall submit a plan to the City for approval prior to striping the spaces.

Commissioner shurson moved to approve the CUP with modifications. Seconded by Commissioner Fay. Motion Passed 5 to 0

Michele Bliss welcomed Barbara Korri a new member of the Planning Commission.

8. COMMISSION REPORT AND OTHER BUSINESS

9. VISITORS TO BE HEARD

10. ADJOURN

Motion by Commissioner Fay to adjourn the April 7, 2016 Planning Commission meeting at 8:25, seconded by Commissioner Korri Motion passed 5 to 0.

b. Next meeting: Thursday, May 5, 2016, at 7 p.m.

City of Maple Plain

Request by Proto Labs for Site Plan Review and Variance to Allow an Expansion of the Existing Parking Lot for the Property Located at 5540 Pioneer Creek Drive

To: Planning Commission
From: Mark Kaltsas, City Planner
Meeting Date: May 5, 2016
Applicant: Proto Labs
Owner: Proto Labs
Location: 5540 Pioneer Creek Drive

Request:

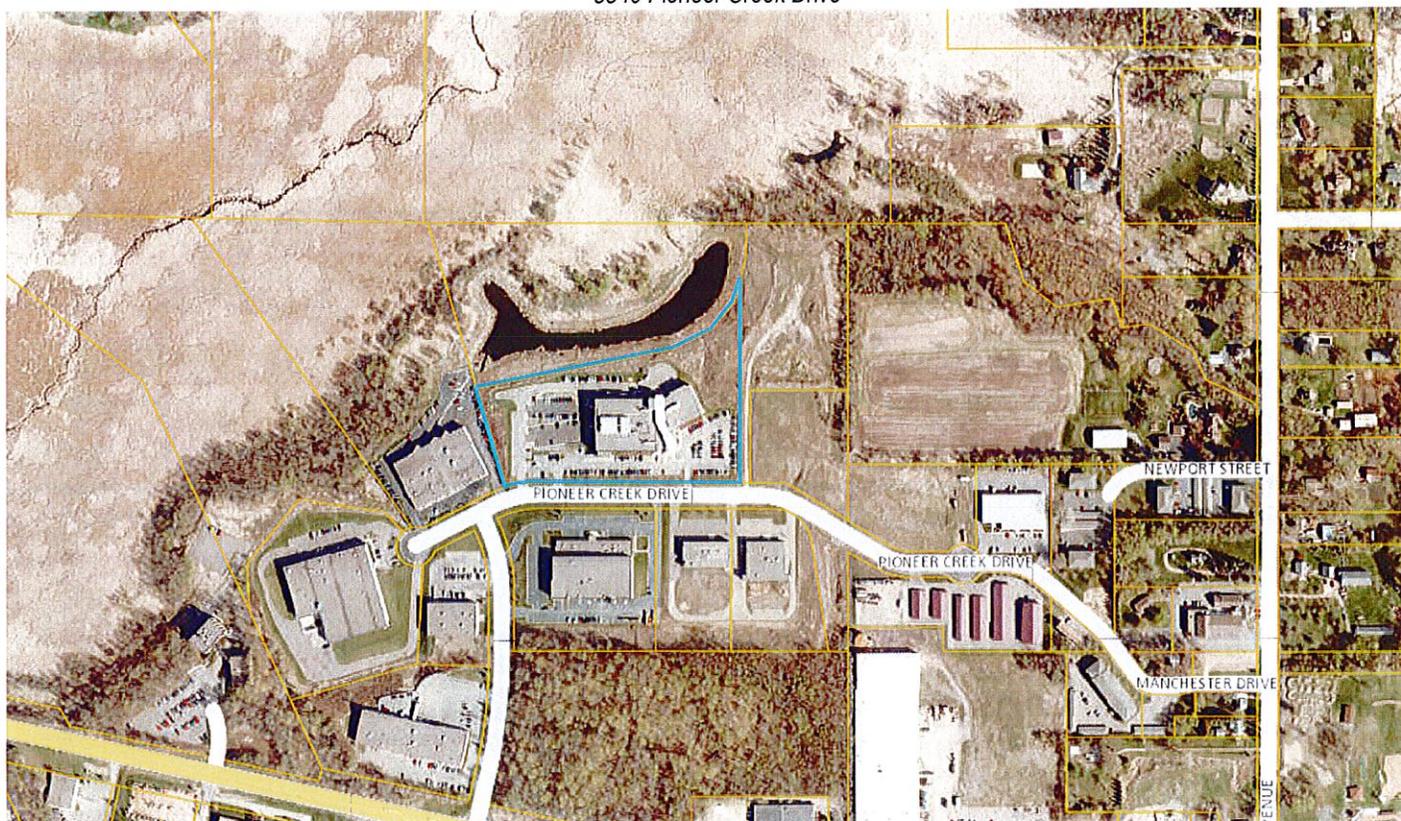
Proto Labs, Inc. (Owner) requests that the City consider the following action for the property located at 5540 Pioneer Creek Drive (PID No. 24-118-24-32-0013):

- a. Site Plan Review to allow for the expansion of the existing parking lot.
- b. Variance from the required parking space minimum size requirements.

Property/Site Information:

The property is located along the north side of Pioneer Creek Drive. The subject property is located in the industrial park. The property has an existing building that is used for office, manufacturing and warehouse. The property has the following characteristics:

Property Information: 5540 Pioneer Creek Drive
Zoning: *I - Industrial*
Comprehensive Plan: *Industrial*
Acreage: *7 Acres*



Discussion:

The applicant is seeking site plan approval and a variance to expand the existing parking lot. All commercial and industrial development/expansion is required to go through the site plan review process. Site plan review requires the review of the Planning Commission and City Council. The Planning Commission holds a public hearing as a part of the site plan review process. The City shall consider the proposed site plan and subsequent effects relating to evaluation criteria established in the City's ordinance.

153.045 INTENT AND PROCEDURE

(I) Evaluation criteria. The Planning Commission and City Council shall evaluate the effects of the proposed site plan. This review shall be based upon, but not be limited to, compliance with the City Comprehensive Plan, provisions of this chapter (Design Guidelines and City Engineering Requirements).

The proposed parking lot expansion consists of an additional 31 or 40 spaces depending on which option the applicant chooses. The applicant has provided two possible scenarios for consideration (Option A – Spaces or Option B – 40 spaces). There are currently 327 parking spaces on this site. Based on the recently completed interior improvements, the applicant is 7 spaces short of meeting the City's ordinance requirements. The applicant has provided a breakdown of the existing and proposed building uses so that the City can review the required parking. The summary of required parking is as follows:

Parking Summary:

Office Area – 1 space per 250 sf (76,537 sf/ 250) = 306 spaces required

Warehouse Area - 1 space per 400 sf (10,973 sf/400) = 28 spaces required

Total Number of Parking Spaces Required = 334

Total Number of Parking Spaces Provided (Option A) = 351

Total Number of Parking Spaces Provided (Option B) = 360

The proposed expansion of the existing parking area will allow the total site parking to exceed the minimum required. In addition to reviewing the minimum parking space requirements, the City reviews all other applicable design criteria. Design criteria considered during the review of the proposed parking expansion includes; setbacks, parking space design, parking lot lighting, storm water management, drainage and grading.

Setbacks:

In the I- Industrial Zoning District, parking is permitted to be located anywhere on the lot as long as it does not encroach into any designated buffer yards. The current parking lot has a setback of approximately 15 feet from the rear property line. The proposed parking spaces will be setback approximately 10 feet from the rear parking lot. The proposed parking lot meets applicable setbacks.

Parking Space Design:

Minimum Parking Space Width: 9 feet

Minimum Parking Space Length: 20 feet

Minimum Parking Aisle Width: 25 feet

Minimum Parking Aisle Width with One-Sided Parking: 22 feet

The applicant is seeking a variance from the stipulated parking space size requirements. The applicant is proposing to construct 18 foot deep parking spaces in lieu of the required 20 foot deep parking spaces. The remainder of the site currently has 18 foot deep parking spaces. The City previously granted a variance to the applicant to allow 18 foot deep parking spaces on this site. The City could consider granting a variance to allow 18 foot deep parking spaces across the entire lot. Parking spaces which are 18 feet deep and have an overhang area at the back of the space are common and would be considered “standard” for most applications. The proposed parking spaces back up to an open area and not to additional parking spaces; therefore, the spaces would meet the typical standard.

Fire Department Review:

The Fire Department reviewed the proposed parking expansion and did not believe it would have a negative effect on their ability to service this property.

Parking Lot Lighting:

Parking Lot lighting shall be arranged as to deflect light away from any adjoining residential zone or from the public streets. There are three (3) existing light poles located along the north property line adjacent to the existing parking lot. The lights are a shoebox type fixture with no part of the light extending below the bottom of the fixture housing (cut-off type fixture). The applicant has provided the City with the applicable photometric plan and light cut sheets. The City has reviewed the information provided and found the existing poles to meet the City's lighting standards.

Storm Water Management, Grading and Drainage:

The City's Engineer has reviewed the proposed parking lot expansion relating to storm water, grading and drainage. The City's Engineer had no formal comments relating to the proposed plans. The applicant will be constructing two retaining walls in order to accommodate the new parking spaces. The City will require additional details relating to the proposed retaining walls prior to construction. The applicant did submit the plans to the Pioneer Sarah Creek Watershed Commission. It was determined that the proposed parking space expansion (Option A or B) did not trigger any additional stormwater requirements.

The City can grant a variance if it finds that granting a variance is consistent with the Comprehensive Plan and the applicant can establish practical difficulties in complying with the requirements of the zoning ordinance. The review criteria for granting a variance are as follows:

- H) *Approval procedure and conditions. Pursuant to Minnesota Statutes, an application for a variance or appeal shall be approved or denied within 60 days from the date of its official and complete submission unless extended pursuant to statute or a time waiver is granted by the applicant.*
- (I) *Review criteria.*
 - (1) *Variations shall only be permitted when they are in harmony with the general purposes and intent of the ordinance and when the variations are consistent with the Comprehensive Plan. Variations may be granted when the applicant for the variance establishes that there are practical difficulties in complying with this chapter.*
 - (2) *PRACTICAL DIFFICULTIES, as used in connection with the granting of a variance, means that the property owner proposes to use the property in a reasonable manner not permitted by this chapter; the plight of the landowner is due to circumstances unique to the property not created by the landowner; and the variance, if granted, will not alter the essential character of the locality.*
 - (3) *Economic considerations alone do not constitute practical difficulties. Practical difficulties include, but are not limited to, inadequate access to direct sunlight for solar energy systems.*

- (4) *Variations shall be granted for earth sheltered construction as defined in M.S. § 216C.06, Subd., when in harmony with the ordinance.*
- (5) *The City Council may not permit as a variance any use that is not allowed under this chapter for property in the zone where the affected person's land is located. The City Council as the case may be, may permit as a variance for the temporary use of a one-family dwelling as a two-family dwelling.*
- (6) *The City Council may impose conditions in the granting of variances. A condition must be directly related to and must bear a rough proportionality to the impact created by the variance.*

The proposed variance would allow the applicant to construct the new spaces to the same dimensions of the existing spaces. The size of the proposed spaces is consistent with the current "standard of practice" for similar office parking lots. The City will need to determine if the proposed variance to allow the reduced depth of parking spaces meets the criteria for granting a variance.

The proposed site plan generally meets the requirements established by the City. The parking lot configuration will allow the applicant to accommodate the internal building changes proposed by creating additional parking. If the future use of the existing building changes or additional expansion of the site is proposed, additional review by the City may be required. This could result in additional improvements being required.

Neighbor Comments:

The City has not received any written or oral comments regarding the proposed subdivision

Recommendation:

Staff is seeking a recommendation from the Planning Commission for the requested Site Plan Review and Variance. Should the Planning Commission make a positive recommendation to the City Council, it is recommended that the following findings and conditions be included:

1. The proposed site plan review and variance meets all applicable conditions, criteria and restrictions stated in the City of Maple Plain Zoning Ordinance.
2. The variance will allow all parking spaces on the subject property to be constructed to the following requirements:
 - a. Parking Space Depth – 18 feet
3. The City will require additional details relating to the proposed retaining walls prior to construction.
4. Any change to the interior use of the building may require additional review by the City. This includes

the conversion of space from one use to another (i.e. warehouse to office).

5. The Applicant shall pay for all costs associated with the City's review of the site plan review and variance.

Attachments:

1. Property Pictures
2. Survey
3. Preliminary Plat
4. Final Plat

Aerial Photograph



View Looking South





City of Maple Plain
 1620 Maple Avenue
 P.O. Box 97
 Maple Plain, MN 55359
 Office: (763) 479-0515
 Fax: (763) 479-0519

ZONING & LAND USE APPLICATION

APPLICANT INFORMATION

Applicant Name <i>Angela Hanson for Proto Labs</i>	Company, if applicable <i>Proto Labs, Inc.</i>
Address <i>5546 Pioneer Creek Dr.</i>	Phone Number <i>763 479 7430</i>
City, State, Zip <i>Maple Plain MN 55359</i>	Email <i>angela.hanson@protolabs.com</i>
Are you the owner of the property? <input checked="" type="checkbox"/> Yes. <input type="checkbox"/> No. (If not, property owner information is required.)	

Owner Name <i>Proto Labs, Inc.</i>	Company, if applicable
Address <i>5540 Pioneer Creek Dr.</i>	Phone Number <i>763 479 3680</i>
City, State, Zip <i>Maple Plain MN 55359</i>	Email <i>angela.hanson@protolabs.com</i>
Applicant Signature <i>[Signature]</i>	Owner Signature <i>Proto Labs, Inc.</i>
Date <i>4-4-2016</i>	Date <i>4-4-2016</i>

PROJECT INFORMATION

Site Address or Property Identification Number <i>24-118-24-32-0013</i>
Type of Request (Check all that apply.)

	Fee	Escrow		Fee	Escrow
<input type="checkbox"/> Appeal Administration Decision	\$250	\$250			
<input type="checkbox"/> Concept Plan Review	\$500				
Residential Application			Commercial Application		
<input type="checkbox"/> Conditional Use Permit	\$500	\$1500	<input type="checkbox"/> Conditional Use Permit	\$1000	\$2500
<input type="checkbox"/> Interim Use Permit	\$500	\$1500	<input type="checkbox"/> Interim Use Permit	\$1000	\$2500
<input type="checkbox"/> Site Plan	\$500	\$1500	<input checked="" type="checkbox"/> Site Plan	\$1000	\$2500
<input type="checkbox"/> Minor Subdivision	\$500	\$1500	<input type="checkbox"/> Minor Subdivision	\$1000	\$2500
<input type="checkbox"/> Variance	\$500	\$1500	<input checked="" type="checkbox"/> Variance	\$1000	\$2500
<input type="checkbox"/> Rezoning	\$500	\$1500	<input type="checkbox"/> Rezoning	\$1000	\$2500
<input type="checkbox"/> Text Amendment	\$500	\$1500	<input type="checkbox"/> Text Amendment	\$1000	\$2500
<input type="checkbox"/> Vacation of Property	\$500	\$1500	<input type="checkbox"/> Vacation of Property	\$1000	\$2500
			<input type="checkbox"/> Home Occupation	\$200	\$1000

Residential/Commercial Industrial/Office Planning and Zoning Application			Grading and Excavation		
	Fee	Escrow		Fee	Escrow
<input type="checkbox"/> Preliminary Plat	\$500	\$3000	<input type="checkbox"/> <100 Cubic Yards	N/C	
<input type="checkbox"/> Subdivision Application	\$500	\$3000	<input type="checkbox"/> >100 Cubic Yards	\$500	
<input type="checkbox"/> Rezoning	\$500	\$3000	<input type="checkbox"/> >1000 Cubic Yards	\$1000	
<input type="checkbox"/> Comprehensive Plan Amendment	\$500	\$3000	<input type="checkbox"/> Right of Way Permit	\$250	\$500
<input type="checkbox"/> Final Plat	\$500	\$3000	<input type="checkbox"/> Park Dedication Fee	\$3750 per unit	
<input type="checkbox"/> Planned Unit Development	\$1000	\$3000	<input type="checkbox"/> Park Dedication Fee (other)	\$0.258 per square foot	
<input type="checkbox"/> Final Plat	\$500	\$3000	<input type="checkbox"/> Signage Permanent	\$250	
			<input type="checkbox"/> Temporary Sign	\$25	\$250

Brief Project Narrative / Overview (Use additional paper if necessary. Please be thorough.)

See Attached.

NOTICE TO APPLICANT

The Maple Plain City Code guides and enables development activities within the City by ensuring proper and well-coordinated projects. The land use application is the mechanism that allows the City to examine proposed land uses to ensure compatibility with the City Codes, design and development standards, and the surrounding land uses and natural environments. The review is intended to ensure positive growth for the community.

All applications are reviewed individually and are evaluated based on their own merit. Each land use request has an associated checklist of required items. Applicants are encouraged to participate in the City's pre-application workshop prior to submitting a formal land use application. The workshop is an opportunity to informally discuss the conceptual idea of the proposed project in an effort to reduce delays. Participation in the pre-application process does not provide approval, or guarantee of approval, of the project. The City shall not accept plans, drawings or other information related to the project except upon submittal of a formal application. The City reserves the right to reject an incomplete application.

APPLICATION FEE STATEMENT

All expenses pertaining to project reviews are the responsibility of the applicant. Planning review deposits and other applicable fees must be paid when submitting land use applications and accompanying materials. All fees, which are set annually by City ordinance, help cover costs incurred by the City to review the application. The City of Maple Plain often uses consulting firms to assist in the review of projects. City staff and consultant review costs are billed hourly; all other costs are billed at cost. Applicants shall be billed directly for incurred expenses upon receipt by the City. The City reserves the right to request an applicant to submit a development escrow in advance of the formal project review.

Please refer to the City's Fee Schedule for information on planning review fees and deposits, and other applicable costs.

By signing this form, the applicant recognizes his/her responsibility for any and all fees associated with the land use application from project review through to construction and release of financial guarantees for an approved project. All fees associated with a project that is denied or withdrawn remain the sole responsibility of the applicant and shall be paid upon receipt of invoice.

I hereby understand the fee statement and responsibilities associated with this land use application:

Applicant Signature

Angelika Lunn

Date

4/4/2016

Owner Signature

Proto Labs, Inc.

Date

4/4/2016

REVIEW REQUIREMENTS

Minnesota State Statute 15.99 requires local governments to review an application within 15 business days of its submission to determine if an application is complete and/or if additional information is required to complete the review. Once complete, a formal 60-day review period begins. The City has the ability to extend the review period an additional 60 days, if necessary, due to insufficient information or scheduling difficulties.

Please review the corresponding checklist that goes with the request as all materials are required unless waived by the City. All applications must be received by the deadline(s) attached hereto. Failure to submit by the date shown may result in a delay of the review by the Planning Commission and City Council.

DEADLINES

Planning Commissioning meetings are held on the first Thursday of the month at 7:00 P.M.
All applications are due 30 days prior to meeting.

OFFICE USE ONLY

Application Type	Review Deadline
	<input type="checkbox"/> 15 Business Days: _____ <input type="checkbox"/> 60 Day Review: _____ <input type="checkbox"/> 120 Day Review: _____
Fees Collected	Received by
<input type="checkbox"/> Application Fee Collected: \$ _____ <input type="checkbox"/> Escrow: \$ _____ <input type="checkbox"/> Total Receipt: \$ _____	<input type="checkbox"/> Name: _____ <input type="checkbox"/> Signature: _____ <input type="checkbox"/> Date: _____
Receipt	Application Complete
<input type="checkbox"/> Receipt Number(s) _____	Are there any missing materials? <input type="checkbox"/> Yes. <input type="checkbox"/> No. If yes, was the application accepted? <input type="checkbox"/> Yes. <input type="checkbox"/> No.



City of Maple Plain
1620 Maple Avenue
P.O. Box 97
Maple Plain, MN 55359
Office: (763) 479-0515
Fax: (763) 479-0519

SITE PLAN CHECKLIST & PROCEDURE

APPLICATION REQUIREMENTS

The following materials are required in order for each application to receive consideration. The City reserves to waive certain requirements. An application that is missing materials may not be accepted.

- | | |
|--|--|
| <input type="checkbox"/> Completed Land Use Application and pay all applicable fees. | <input type="checkbox"/> Parking plan |
| <input type="checkbox"/> All materials as required by City Zoning Code regarding Site Plans. | <input type="checkbox"/> Lighting plan |
| <input checked="" type="checkbox"/> Address labels of property owners within 350 feet (available through Hennepin County). | <input type="checkbox"/> Landscape plan |
| <input type="checkbox"/> Certified survey of property (8 full size, 10 reduced) plus CAD and PDF electronic files. | <input type="checkbox"/> Utility plan |
| <input checked="" type="checkbox"/> Written narrative of outlining project and purpose of request. | <input type="checkbox"/> Tree Preservation plan |
| <input type="checkbox"/> Wetland report by Certified Wetland Specialist. | <input type="checkbox"/> Signage plan |
| <input checked="" type="checkbox"/> Scaled site plan showing dimensions & distances | <input type="checkbox"/> Storage & waste enclosure |
| <input type="checkbox"/> Existing & proposed property conditions (<i>page 2</i>) | |
| <input type="checkbox"/> Four-sided architectural plans and elevations | |
| <input type="checkbox"/> Specifications for exterior finishes | |
| <input checked="" type="checkbox"/> Grading, erosion control & drainage plans (<i>page 2</i>) | |
| <input type="checkbox"/> Location of fire suppression, if applicable | |
| <input type="checkbox"/> Soil borings, if applicable | |

APPROVALS & PERMITS

Project applications may require review and comment from the following agencies. Applicants should allow for enough time for agency review. The City encourages applicants to contact each state and county agency and the appropriate watershed district prior to submitting formal application to understand agency requirements.

- | | |
|--|---|
| <input type="checkbox"/> City of Maple Plain | <input type="checkbox"/> MN Pollution Control Agency (NPDES) |
| <input type="checkbox"/> Hennepin County | <input type="checkbox"/> Minnehaha Creek Watershed District |
| <input type="checkbox"/> MN Department of Transportation | <input type="checkbox"/> Pioneer-Sarah Creek Watershed Commission |

Upon completion of the formal review period, the following permits may be required for an approved project. The City, county, state and other jurisdictional agencies each have a review period for all permit requests.

- | | |
|---|--|
| <input type="checkbox"/> Building Permit | <input type="checkbox"/> Hennepin County Right of Way Permit |
| <input type="checkbox"/> Demolition Permit | <input type="checkbox"/> MnDOT Right of Way Permit |
| <input type="checkbox"/> Excavation & Grading Permit | <input type="checkbox"/> Minnehaha Creek Watershed District Permit |
| <input type="checkbox"/> Right of Way Permit | <input type="checkbox"/> Pioneer-Sarah Creek Watershed Commission |
| <input type="checkbox"/> Sewer Availability Charges (SAC) | <input type="checkbox"/> MnPCA Storm Water (NPDES) Construction Permit |
| <input type="checkbox"/> Water Availability Charge (WAC) | <input type="checkbox"/> Wetland Conservation Act requirements |
| <input type="checkbox"/> Sign Permit | |

NOTICE TO APPLICANT

In order to receive consideration, the applicant must complete a number of steps.

1. Meet with City staff to discuss the proposed use, whether permitted or conditional, obtain a land use application packet, and schedule a pre-application meeting.
2. Assemble information outlining the request.
3. Submit a completed application packet, including all materials as required by City Zoning Code related to the type of request, to City Hall by the dates noted on the Land Use Application.
4. Participate in the review process by attending City staff and public meetings.
5. Attend all Public Hearings, and Planning Commission and City Council meetings.

By law, the City of Maple Plain must notify adjacent property owners of proposed projects that may impact their properties. This notification is mailed to property owners within 350 feet of the project area at least 10 days prior to the public hearing. A Certified List of Property Owners is available from Hennepin County (612) 348-5910.

ADDITIONAL INFORMATION

Drawings of Existing & Proposed Conditions should include:

- gross and net acreages of the proposed development
- location, width and name of all existing streets and highway, public property, railroad, utility rights of way, & easements within the proposed development
- location and size of existing buildings & infrastructure (water, sewer and storm sewer lines)
- wetlands, wooded areas & other natural features
- tree inventory, including trees to be removed & saved
- layout of proposed streets, rights of way and appropriate street information
- layout proposed sidewalks, trails and pedestrian ways
- location and dimension of all easements
- minimum building setback lines.

Grading & Erosion Control & Drainage Plans must show the following:

- existing & proposed topography
- existing natural features, such as trees, wetlands, ponds, swales, drainage channels, etc.
- existing and proposed storm sewer facilities
- proposed storm water improvements
- flood elevations based on a 100-year flood plain
- spot elevations & directional arrows representing drainage patterns
- wetland delineation & mitigation plan at 2:1 ratio

ACKNOWLEDGEMENT

By signing this form, the applicant hereby acknowledges the receipt of the checklist and procedure for the project to be submitted for consideration. It is the responsibility of the applicant to submit all required materials. All permit requests should be submitted in a timely manner so as not to cause project delays.

Applicant Signature *Angel Adams*
Date 4-4-2016

Owner Signature Proto Labs, Inc.
Date 4-4-2016

April 4, 2016

City of Maple Plain
1620 Maple Avenue
P.O. Box 97
Maple Plain, MN 55359

RE: Zoning and Land Use Application Project Narrative / Overview
Dated April 4, 2016

Proto Labs, Inc.
5540 Pioneer Creek Drive
Maple Plain, MN 55359

Property Identification Number:
24-118-24-32-0013

Project Narrative / Overview:

Proto Labs, Inc. is requesting a variance from the current city code 153.085 which requires 90 degree angled parking stalls to have a length of twenty (20) feet. Proto Labs would like to request a variance to install new parking stalls that are eighteen (18) feet in length in a new parking lot area that is being constructed to meet the current building code and employee capacity. The eighteen (18) foot length would be consistent with the parking stall length of the existing spaces in the parking lot.

(B) Retail stores, shopping centers, or shops shall provide 1 truck berth for each 2 business places or 1 for each 20,000 square feet of floor area, whichever is greater.

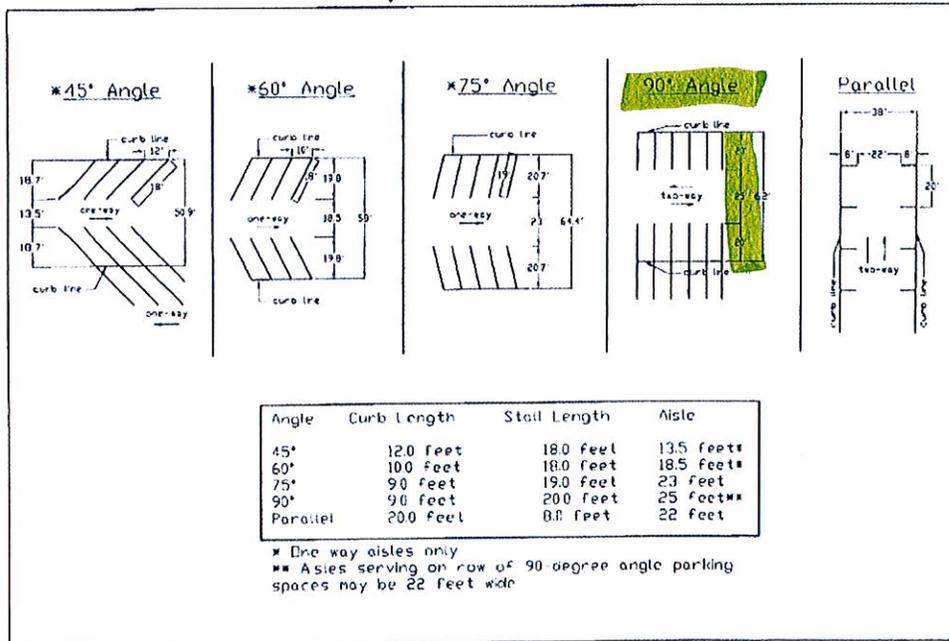
(C) Industrial and manufacturing uses shall provide 1 truck berth for each 20,000 square feet of floor area.

(Prior Code, ' 19.05) (Am. Ord. 247, passed 8-23-2010) Penalty, see ' 10.99

' 153.085 PARKING DIMENSIONS.

Angle	Curb Length	Stall Length	Aisle
451	12 feet	18 feet	13.5 feet*
601	10 feet	18 feet	18.5 feet
751	9 feet	19 feet	23 feet
901	9 feet	20 feet	25 feet**
Parallel	20 feet	8 feet	22 feet

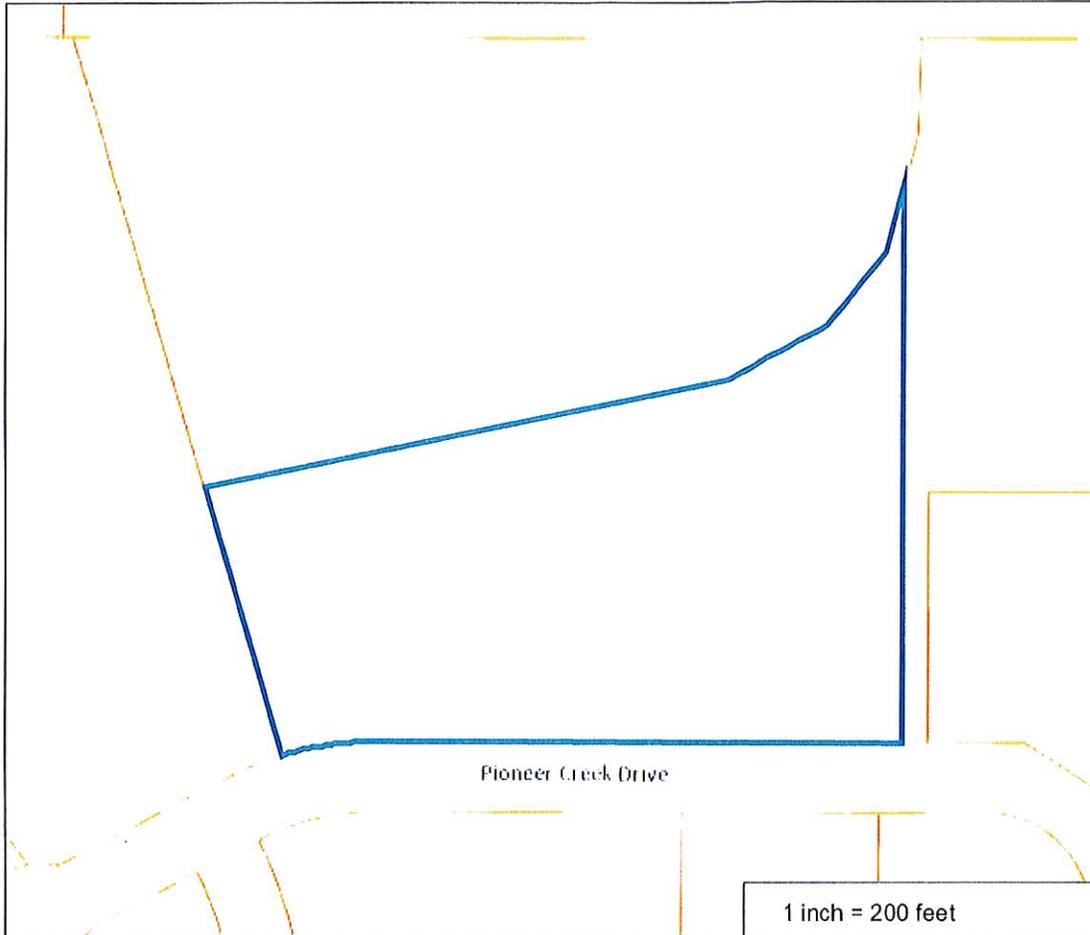
* One-way aisles only
 ** Aisles serving on row of 901 angle parking spaces may be 22 feet wide





Hennepin County Property Map

Date: 3/22/2016



PARCEL ID: 2411824320013

OWNER NAME: Proto Labs Inc

PARCEL ADDRESS: 5540 Pioneer Creek Dr,
Maple Plain MN 55359

PROPERTY TYPE: Industrial-Preferred

HOMESTEAD: Non-Homestead

PARCEL AREA: 7 acres, 304,932 sq ft

A-T-B: Torrens

MARKET VALUE: \$2,521,000

TAX TOTAL: \$105,541.50

SALE PRICE: \$4,250,000

SALE DATA: 05/2007

SALE CODE: Warranty Deed

Comments:

This data (i) is furnished 'AS IS' with no representation as to completeness or accuracy; (ii) is furnished with no warranty of any kind; and (iii) is not suitable for legal, engineering or surveying purposes. Hennepin County shall not be liable for any damage, injury or loss resulting from this data.

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COUNTY 2016

QUOTE # 16575

DATE: 03-17-15 PAGE 1



Dakota Supply Group, Inc.
 475 West Minnehaha
 St. Paul, MN 55103

651-224-5781 651-224-5902 FAX

To: Kevin K
 Proto Labs
 5540 Pioneer Creek Drive
 Maple Plain, MN 55359

Proj: PROTO LABS HEADQUARTERS
 Maple Plain, MN
 Bid Date: 03/12/15

Arch:

Engr:

Spec:

Cont:

Remarks:

Qty	Type	Mfg	Description	Unit Price	Extd. Price		
			Parking Lot:				
9		RAB	ALED3T125/480	690.00	\$6210.00	50	
23		RAB	ALED4T125/480	690.00	\$15870.00	50	
			Entrance:				
3		RAB	FXLED125SFW	488.00	\$1464.00	50	
			Flag Light:				
1		RAB	EZLED78TW	470.00	\$470.00		
Total =====						\$24014.00	

F.O.B. PER MANUFACTUER Terms: Net 30 Days Lead time: VARIES PER MFG.

Prices firm for entry by: 04-16-15 Shipment by: 05-16-15

STANDARD TERMS AND CONDITIONS APPLY TO ALL SALES, REVIEW ATTACHED.

ADD FREIGHT FOR PRE-SHIPMENT OF ANCHOR BOLTS.

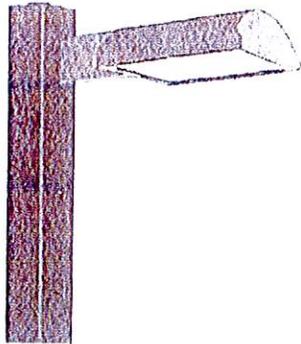
NORMAL FREIGHT TERMS PER MANUFACTURE SHALL APPLY.

Printed 03/17/15 13:16:21

Per: Steve Holstein - Quotations

Rebate - \$1,750

ALED3T125/480



Project:
Headquarters Parking
Lot

Type:

Prepared By:

Date:

Driver Info

Type	Constant Current
120V	N/A
208V	N/A
240V	N/A
277V	N/A
Input Watts	134W
Efficiency	93%

LED Info

Watts	125W
Color Temp	5000K (Cool)
Color Accuracy	66 CRI
L70 Lifespan	100,000
LM79 Lumens	11,431
Efficacy	85 LPW

Specification grade area lights available in IES Type III distributions. For use for roadway, general parking and other area lighting applications where a larger pool of lighting is required. Replaces up to 400W metal halide. Patent pending thermal management system. 5-Year Warranty.

Color: Bronze

Weight: 32.0 lbs

ALED3T125/480



Technical Specifications

Listings

UL Listing:

Suitable for wet locations

IESNA LM-79 & LM-80 Testing:

RAB LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80 and have been received the Department of Energy "Lighting Facts" label

DLC Listed:

This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities

Dark Sky Approved:

The International Dark Sky Association has approved this product as a full cutoff, fully shielded luminaire

LED Characteristics

Lifespan:

100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations

Color Stability:

LED color temperature is warranted to shift no more than 200K in CCT over a 5 year period

Color Uniformity:

RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products (ANSI C78-377-2011)

Construction

IES Classification:

The Type III distribution is ideal for roadway, general parking and other area lighting applications where a larger pool of lighting is required. It is intended to be located near the side of the area, allowing the light to project outward and fill the area

Effective Projected Area:

EPA = 0.75

Ambient Temperature:

Suitable for use in 40°C (104°F) ambient temperatures

Cold Weather Starting:

The minimum starting temperature is -40°F (-40°C)

Thermal Management:

Superior thermal management with external Air Flow fans

Housing:

Die-cast aluminum housing, lens frame and mounting arm

Mounting:

Heavy-duty mounting arm with O-ring seal & stainless steel screws

Reflector:

Specular vacuum-metallized polycarbonate

Gaskets:

High-temperature silicone gaskets

Finish:

Our environmentally friendly polyester powder coatings are formulated for high-durability and long-lasting color, and contains no VOC or toxic heavy metals

Green Technology:

Mercury and UV free and RoHS compliant. Polyester powder coat finish formulated without the use of VOC or toxic heavy metals

For use on LEED Buildings

IDA Dark Sky Approval means that this fixture can be used to achieve LEED Credits for Light Pollution Reduction

Other

LEDs:

Multi-chip, high-output, long-life LEDs

Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user including coverage of light output, color stability, driver performance and fixture finish

Country of Origin:

Designed by RAB in New Jersey and assembled in the USA by RAB's IBEW Local 3 workers

Buy American Act Compliant:

This product is a COTS item manufactured in the United States and is compliant with the Buy American Act

Recovery Act (ARRA) Compliant:

This product complies with the 52 225-21 "Required Use of American Iron, Steel, and Manufactured Goods-- Buy American Act-- Construction Materials (October 2010)

Trade Agreements Act Compliant:

This product is a COTS item manufactured in the United States and is compliant with the Trade Agreements Act

GSA Schedule:

Suitable in accordance with FAR Subpart 20.4

Technical Specifications (continued)

Electrical

Drivers:

Two Drivers, Constant Current, Class 2, 1250mA, 347-490V, 50/60Hz, 0.30A, Power Factor 94.3%

Ballast Volts:

480V

Surge Protection:

4xV

Custom

THD:

14.1% at 480V

California Title 24:

See ALED3T125-D10, ALED3T125-BL, ALED3T125-PCS, ALED3T125-PCS2, or ALED3T125-PCT for a 2013 California Title 24 compliant product

Optical

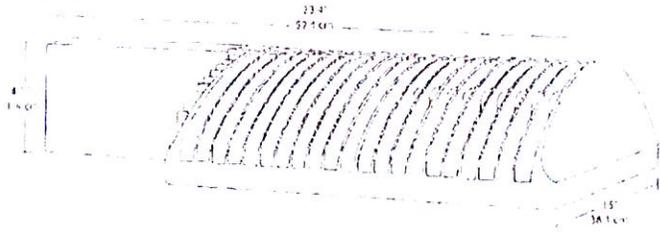
Replacement:

The ALED125 replaces 300W Metal Halide Area Lights

ALED3T125/480



Dimensions



Features

- 66% energy cost savings vs. HID
- 100,000-hour LED lifespan
- Type III distribution
- 5-year warranty

Ordering Matrix

Family	Distribution	Watts	Mount	Color Temp	Finish	Voltage	Photocell	Dimming	Bi-Level
ALED	3T	125				/480			
	2T = Type II	150 =	Blank = Arm.	Blank =	Blank =	Blank = 120-	Blank = No Photocell	Blank = No	Blank = No Bi-
	3T = Type III	150W	SF =	Cool	Brnze	277V	/PC = 120V Button	Dimming	Level
	4T = Type IV	125 =	Stroffer	Y = Warm	W = White	/480 = 480V	/PC2 = 277V Button	/D10 = Dimmable	/BL = 6ft level
		105 =		N = Neutral	RG = Gray		/PCS = 120V Swivel		
		105W					/PCS2 = 277V Swivel		
							/PCT = 120-277V		
							Twistlock		
							/PCS4 = 480V Swivel		
							/PCT4 = 480V Twistlock		

FXLED78SFW



Project:
Headquarters

Type:
Entrance

Prepared By:
srh

Date:
3/16/15

Driver Info		LED Info	
Type	Constant Current	Watts	78W
120V	0.66A	Color Temp	5100K (Cool)
208V	0.41A	Color Accuracy	67 CRI
240V	0.35A	L70 L lifespan	100,000
277V	0.30A	LM79 Lumens	7,597
Input Watts	79W	Efficacy	97 LPW
Efficiency	99%		

High-power, wide-distribution LED floodlight. Replaces 250W MH. Patent Pending airflow technology ensures long LED and driver lifespan. Use for building facade lighting, sign lighting, LED landscape lighting and installation security lighting.

Color: White

Weight: 24.0 lbs

Technical Specifications

Listings

UL Listing:

Suitable for wet locations. Suitable for ground mounting.

IESNA LM-79 & LM-80 Testing:

RAB LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80 and have received the Department of Energy Lighting Facts label.

DLC Listed:

This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities.

Other

Lifespan:

100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations.

EPA

✓

LEDs:

Six multi-chip, 13W, high-output, long-life LEDs.

Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance, and fixture finish.

Construction

IP Rating:

Ingress Protection rating of IP66 for dust and water.

Ambient Temperature:

Suitable for use in 40°C ambient temperatures.

Cold Weather Starting:

The minimum starting temperature is -40 F/-40°C.

Thermal Management:

Superior heat sinking with external Air-Flow fins.

Housing:

Die-cast aluminum housing and door frame.

Mounting:

Heavy-duty Slip Fitter for 2-3/8" OD pipe.

Reflector:

Specular vacuum-metallized polycarbonate.

Gaskets:

High-temperature silicone gaskets.

Finish:

Our environmentally friendly polyester powder coatings are formulated for high-durability and long-lasting color, and contain no VOC or toxic heavy metals.

Green Technology:

Mercury and UV-free.

Optical

NEMA Type:

NEMA Beam Spread of 61 x 5X.

Replacement Range:

The FXLED78 can be used to replace 150 - 320W Metal Halide Floodlights based on delivered lumens.

Electrical

Driver:

Constant Current, Class 2, 2000mA, 100-277V, 50-60Hz, 1.1A, Power Factor 99%.

Surge Protection:

4kV

Custom

THD:

5% at 120V, 13.1% at 277V.

Equivalency:

The FXLED78 is Equivalent in delivered lumens to a 250W Metal Halide.

California Title 24:

See FXLED78SF/D10, FXLED78SF/BL, FXLED78SF/PCS or FXLED78SF/PCS2 (277V) for a 2013 California Title 24 compliant product. Any additional component requirements will be listed in the Title 24 section under technical specifications on the product page.

Patents:

The FXLED78 design is protected by U.S. Pat. D659,280, Canada Pat. 14,3155, China Pat. ZL201130443125.9, Mexico Pat. 36558, and pending patent in Taiwan.

LED Characteristics

Color Consistency:

7-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color.

FXLED78SFW



Technical Specifications (continued)

LED Characteristics

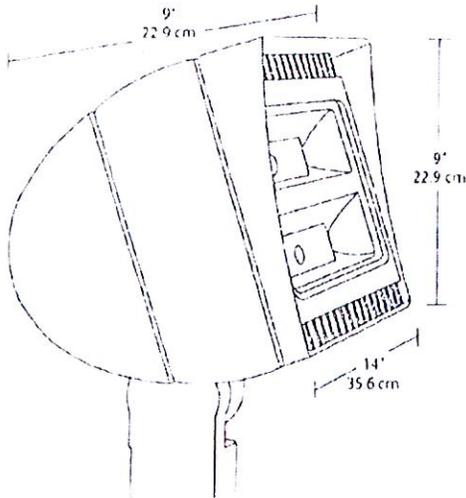
Color Stability:

LED color temperature is warranted to shift no more than 200K in CCT over a 5-year period.

Color Uniformity:

RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for (SSL) Products, ANSI C78.317-2016.

Dimensions



Features

- 78 Watt high-performance LED
- Replaces 250W MH floodlights
- 100,000 hour life based on LM-80 tests
- Air-flow technology heatsink
- NEMA type - 6H x 5V
- Slipfitter and trim on mounting available
- 5-year warranty

Ordering Matrix

Family	Watts	Mount	Color Temp	Finish	Dimming	Voltage	Photocell	Bi-Level
FXLED	78	SF		W				
	78 = 78W	Blank = Arm T = Trunion SF = Slipfitter	Blank = Cool Y = Warm N = Neutral	Blank = Bronze W = White	Blank = No Dimming /D10 = Dimmable	Blank = 120-277V /480 = 480 Volt	Blank = No Photocell /PCS = 120V Swivel /PCS2 = 277V Swivel /PCS4 = 480V Swivel	Blank = No Bi-Level /BL = Bi-Level

EZLED78TW



Project:
headquarters

Type:
Flag Light

Prepared By:
srh

Date:
3/16/15

Driver Info		LED Info	
Type	Constant Current	Watts	78W
120V	0.82A	Color Temp	5000K (Cool)
208V	0.53A	Color Accuracy	65 CRI
240V	0.46A	L70 Lifespan	100,000
277V	0.40A	LM79 Lumens	6,357
Input Watts	89W	Efficacy	71 LPW
Efficiency	87%		

This 78W spotlight combines high lumen output and a concentrated narrow beam distribution to illuminate objects up to 80 feet away, with brilliant precision. Ideal for lighting large flags, tall building facades and signage.

Color: White

Weight: 27.5 lbs

Technical Specifications

Listings

UL Listing:

Suitable for wet locations. Suitable for ground mounting.

IESNA LM-79 & LM-80 Testing:

RAB LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80, and have received the Department of Energy "Lighting Facts" label.

Construction

IP Rating:

Ingress Protection rating of IP65 for dust and water.

Effective Projected Area:

EPA = 12'

Cold Weather Starting

Minimum starting temperature is -40°F / -40°C.

Ambient Temperature:

Suitable for use in 40°C (104°F) ambient temperatures.

Thermal Management:

Superior thermal management with external Air-Flow fan.

Housing:

Precision die-cast aluminum housing and die-cast frame.

Mounting:

Trunion mount with cord (16-3AWG ST00W 600V 105' wet location rated 3 ft.)

Lens:

Tempered glass.

Reflector:

Vacuum-metallized, specular thermoplastic.

Gaskets:

High-temperature silicone.

Finish:

Our environmentally friendly polyester powder coatings are formulated for high-durability and long-lasting color, and contains no VOC or toxic heavy metals.

Green Technology:

Mercury and UV free, and RoHS compliant.

Other

LEDs:

Three-in-one chip, high-output, lens-free LEDs.

LED Characteristics

Lifespan:

100,000-hour LED Meanlife based on IES LM-80 results and TM-21 calculations.

Color Consistency:

7-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color.

Color Stability:

LED color temperature is warranted to shift no more than 200K in CCT over a 5-year period.

Color Uniformity:

RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2011.

Electrical

Driver:

3x26-W drivers Constant current, Class2, 100-277V, 50-60 Hz, 6kV Surge Protection, 720mA, 100-277V, 0.4A, Power Factor 99%.

Custom

THD:

13.7% at 120V.

Patents:

The design of EZLED is protected by patents in U.S. Pat. D679,856, and pending patents in Canada, China, Taiwan and Mexico.

Optical

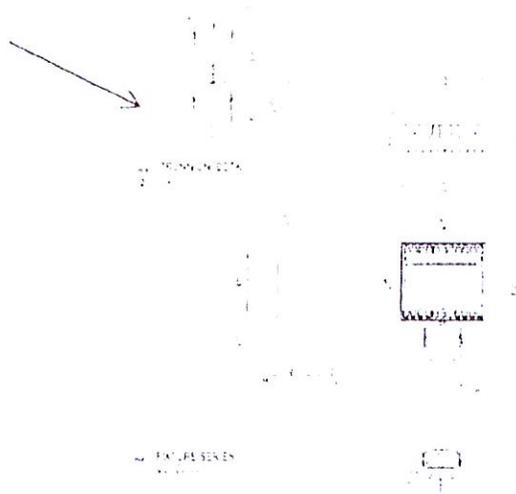
NEMA Type:

NEMA Beam Spread of 3H x 3V.

EZLED78TW



Dimensions



Features

- High powered narrow beam spotlight
- Illuminates objects at a distance of 60 feet
- Available in NEMA type 3H, 3V, and 4H, 4V
- Trunnion or slip filter mounting options available
- Outperforms equivalent MH fixtures

Ordering Matrix

Family	Watts	Mount	Color Temp	Beam Spread	Finish	Photocell
EZLED	78	T			W	
	78 78W	T = TRUNNION	Blank = Cool Y = Warm N = Neutral	Blank = 7H x 6V B44 = 4H x 4V B55 = 5H x 5V	Blank = Bronze W = White	Blank = No Photocell /PC = 120V Button /PCS = 120V Swivel /PC2 = 277V Button /PCS2 = 120V Swivel



Prescriptive Program Rebate Application

OID _____
Internal Use Only

Check the appropriate program box for your rebate.

Cooling FSO (Fluid System Optimization) Foodservice Equipment Heating Lighting Motors & Drives

Customer Information

- fill in

Xcel Energy premises numbers: Electric _____ and/or Gas _____

Company Name Procto Labs H.Q. Date submitted _____

Installation address _____ City _____ State _____ ZIP _____

Mailing address _____ City _____ State _____ ZIP _____
(For rebate if different from installation address)

Contact Name (PRINT) _____ Phone _____

Contact Email* _____ Fax _____

Equipment location description (REQUIRED) _____

The total project cost \$ _____
(Acceptable expenses include equipment and labor and do not include tax, freight or shipping costs.)

Customer Signature _____ Date _____

This signature is required from the individual tied to the Xcel Energy premises number herein. By signing here, I acknowledge the information in this application is accurate and complete. I confirm I have read, agree with and understand the terms and conditions on page 2 of this application. I also authorize Xcel Energy to provide a copy of the project preapproval notification to the equipment supplier or vendor so as to expedite the project process.

Alternative Rebate Recipient

Complete this section only if the customer wants the rebate check to go to someone other than the customer contact tied to the premises number above.

Company Name _____ Contact name _____

Address _____ Phone _____

City _____ State _____ ZIP _____

I authorize the above company to receive the rebate check for this project.

Customer Signature _____ Date _____

Xcel Energy account representative name _____ Signature _____

Trade Partner Information (Vendor/Contractor Information)

Company Name _____ Trade Partner ID# _____

Contact Name (PRINT) _____

Address _____ City _____ State _____ ZIP _____

Contact email* _____ Phone _____

*By providing your email address, you are granting Xcel Energy permission to send updates or questions via email regarding this project as well as future emails regarding our programs and services.

LIGHTING RETROFIT REBATE APPLICATION

MINNESOTA

Qualifying Customers

Xcel Energy prescriptive rebate programs are available to Xcel Energy business electric and/or gas customers that install qualifying equipment in Xcel Energy's Minnesota service territory.

How to Apply for Rebates

1. Fill out the rebate application (for each installation address.)
2. Attach a copy of the paid, itemized invoice(s). Be sure that the quantity, make, model number and unit price of each item appears on the invoice.
3. Make a copy of this document for your records.
4. If you have questions please contact your Xcel Energy account manager or one of our energy efficiency specialists to discuss and/or complete the project application form.
5. You can email your completed project paperwork to: energyefficiency@xcelenergy.com, fax to: 1-800-311-0050, or mail to: Energy Efficiency Specialist, Business Solutions Center, P.O. Box 8, Eau Claire, WI 54702-0008.
6. Once completed paperwork is submitted, rebate payments are usually made in six to eight weeks after the rebate application has been processed.

Custom Efficiency Rebate Program

Equipment that is not eligible for prescriptive rebates can be submitted through the Custom Efficiency program. Preapproval through the Custom Efficiency program is required before the purchase and installation of equipment. The Custom Efficiency rebate application and program details can be found at xcelenergy.com/CustomEfficiency.

Rules and Requirements

- All equipment must be new. **Used or rebuilt equipment is not eligible for a rebate.**
- Equipment must meet program specification requirements and be purchased, installed and operating prior to submitting an application for a rebate. Xcel Energy reserves the right to withhold payment for products that do not meet the requirements.
- Rebates cannot exceed 60 percent of the project cost (including equipment and labor).
- A signed application and detailed installation invoice(s) must be completed and submitted to Xcel Energy within 12 months (24 months for motors, VFDs, and constant speed motor projects) of the invoice date.
- Xcel Energy is not responsible for any lost, late, stolen, ineligible, illegible, misdirected or postage-due mail.
- All completed submissions become the property of Xcel Energy upon receipt and will not be returned.
- Xcel Energy will issue a rebate in the form of a check.
- Xcel Energy reserves the right to conduct a random on-site inspection of your project before or after issuing a rebate. The customer agrees to provide reasonable access to inspect the installation. On-site inspections may be performed up to one year after the date the rebate check is issued. If Xcel Energy finds that the application does not comply with Xcel Energy rules and qualifications, any rebate amount may be adjusted, denied or subject to return.

- Program rules, requirements and offer are subject to changes at any time. Xcel Energy's prescriptive rebate programs are subject to 60 days notice of cancellation. Changes or notifications will be posted at xcelenergy.com/Rebates. The customer and trade partner are responsible for contacting an energy efficiency specialist to determine whether the program is still in effect and to verify program parameters. Call 1-855-839-8862 or email energyefficiency@xcelenergy.com.
- Xcel Energy reserves the right to refuse payment and participation if the customer or contractor violates program rules and procedures, or local, state or federal regulations. Xcel Energy is not liable for rebates promised to customers as a result of misrepresentation of the program.
- Xcel Energy's acceptance of the application does not guarantee payment of rebate.
- Xcel Energy retains the right to limit rebates or to make adjustments to correct incentive calculations if necessary. Energy savings calculations are estimates and may vary from actual results.

Warranty Information

- Xcel Energy does not endorse any particular manufacturer, product or system design by offering these rebates.
- Xcel Energy will not be responsible for any tax liability imposed on the customer as a result of the payment of rebates; does not expressly or implicitly warrant the performance of installed equipment (contact your contractor for detailed equipment warranties).
- Xcel Energy is not responsible for the proper disposal/recycling of any waste generated as a result of this project; is not liable for any damage caused by the operation or malfunction of the installed equipment; and does not guarantee that a specific level of energy or cost savings will result from the implementation of energy conservation measures or the use of products funded under these programs.

Facility Characteristics

Is the space air conditioned where the energy-efficient lighting will be installed? Air conditioned Heat only No air conditioning or heat
 Please indicate the primary use for this location:

- | | | | |
|---|--|--|------------------------------------|
| <input type="checkbox"/> 24-hour facility | <input type="checkbox"/> Elementary/secondary school | <input type="checkbox"/> Manufacturing | <input type="checkbox"/> Retail |
| <input type="checkbox"/> Big box retail/grocery | <input type="checkbox"/> Healthcare office/out-patient | <input type="checkbox"/> Nighttime /exterior LED fixtures (canopy/soffit or wallpack only) | <input type="checkbox"/> Warehouse |
| <input type="checkbox"/> College/university | <input type="checkbox"/> Hospital | <input type="checkbox"/> Office | <input type="checkbox"/> Other |
| <input type="checkbox"/> Continuous lighting required by code | <input type="checkbox"/> Hotel/motel | <input type="checkbox"/> Restaurant | |

How to Apply for Rebates

1. Fill out the rebate application. (All information needs to be supplied before a rebate check can be issued.)
2. Mail or fax completed and signed rebate form along with paid invoices to: Xcel Energy, Energy Efficiency Specialist, P.O. Box 8, Eau Claire, WI 54702-0008, Fax 800-311-0050

EQUIPMENT			REBATE/UNIT x	QTY =	REBATE
Low-Wattage Fluorescent T8 lamps					
4-foot; 28W or less	1-lamp	Replace 32W T8 lamps with 28W or less lamps	\$0.50/lamp		
Lighting Optimization					
Lamp removal system <i>Must include high-efficiency electronic ballasts</i>	per fixture	T8 to T8	\$12/fixture		
Optimization Statement: The undersigned verifies that there was a permanent removal of lamps, ballasts and sockets in the system being rebated and permission is granted to Xcel Energy to verify the changeout at Xcel Energy's discretion. SIGN HERE:					
High-Bay Fluorescent Fixtures with High-Efficiency Electronic Ballasts					
2-lamp T5HO, 3-lamp T5HO, 4-lamp T8		Replace HID* 175 to 250W lamp systems	\$85		
3-lamp T8VHO, 4- to 6-lamp T5HO, 6- to 8-lamp T8		Replace HID* 310 to 400W lamp systems	\$125		
6-lamp T8VHO, 8-lamp T5HO, 12- to 16-lamp T8		Replace HID* 750W lamp systems	\$175		
8-lamp T8VHO, 10-lamp T5HO, 18- to 20-lamp T8		Replace HID* 1000W lamp systems	\$175		
<i>Must include high-efficiency electronic ballasts</i>					
Parking Garage Fluorescent fixtures with High-Efficiency Electronic Ballasts					
4 foot	2- and 3-lamp	Replace HID* systems (150W or 175W) with T5HO or T8. Must include high-efficiency electronic ballasts.	\$85/fixture		
Parking Garage Low-Wattage Fluorescent T8 Lamps					
4-foot, 28W or less	1-lamp	Install 28W or less	\$0.50/lamp		
Hardwired or Modular Compact Fluorescent Fixtures (Does not include screw-base CFLs)**					
18W or less		Replace incandescent systems with hardwired or modular CFL systems that use 3 to 5 times less energy (e.g., a 20W CFL can replace a 60-100W incandescent). Does not include screw-base CFLs	\$25		
Greater than 18W to 32W			\$30		
Greater than 32W			\$35		
2-foot Low Wattage CFL 25W to 28W		Replaces a 40W 2 foot CFL	\$0.50/lamp		
High Pressure Sodium Fixtures**					
151W to 250W		Replace incandescent, halogen or mercury vapor with high pressure sodium	\$30		
Greater than 250W			\$45		
SUBTOTAL REBATE THIS PAGE (PAGE 3)					\$

*High intensity discharge systems include mercury vapor, high pressure sodium, metal halide and pulse start metal halide

** These rebates are available specifically for standard retrofit projects in which the lumen output of the proposed system is similar to the existing system and the energy savings is within a reasonably expected range. Retrofits with unusually large or small energy savings and/or lumen reductions must apply through the Custom Efficiency program and obtain pre-approval prior to purchase. Contact your account manager or the Business Solutions Center at 1-855-833-8862 if you have questions regarding your specific application.

EQUIPMENT		REBATE/UNIT x	QTY =	REBATE
Ceramic Metal Halide Fixtures**				
150W or less	Replace incandescent, halogen, high pressure sodium, metal halide or mercury vapor with ceramic metal halide systems	\$50		
Greater than 150W to 250W		\$80		
Greater than 250W		\$100		
20W to 25W Integrated Ceramic Metal Halide lamps	Replace 75W to 150W incandescents or halogens with integrated ceramic metal halide lamps	\$25		
Pulse-Start Metal Halide Fixtures**				
175W or less	Replace incandescent, halogen, mercury vapor, high pressure sodium, or metal halide systems with pulse-start metal halide systems	\$60		
175W to 319W		\$90		
319W to 749W		\$100		
Greater than 749W		\$120		
Automatic Controls	Connected Load			
Wall Mount Occupancy Sensor	50W to 300W	Rebate level is based on the connected load (watts)/sensor Must be permanently installed.	\$15	
	Greater than 300W		\$25	
Ceiling Mount Occupancy Sensor	50W to 300W	Controlling interior fixtures only. If the combination of Occupancy Sensor and Photocell are used on the same equipment, apply for a rebate through our Custom Efficiency program.	\$30	
	Greater than 300W		\$40	
Photocell			\$25	
Bi-level Stairwell Fixture with Integrated Sensor		Replace a 2-lamp T8 fixture with a 2- to 3-lamp T8 fixture or a 20 to 30W LED fixture with an integrated occupancy sensor or step-dimming ballast.	\$25	
LED and LEC Exit Signs		Replace incandescent exit signs	\$25	
LED Screw-in Lamps, ENERGY STAR-Qualified (Starting February 1, 2015)				
5W to 20W		ENERGY STAR-qualified screw-in LED lamps are eligible for instant rebates at time of purchase from participating distributors. For more information, visit xcelenergy.com/Rebates , under the Lighting Efficiency program section.		
LED Retrofit Fixture (screw-in), ENERGY STAR-Qualified (Starting February 1, 2015)				
25W or less		ENERGY STAR-qualified LED Retrofit Fixture (screw-in) Downlights are eligible for instant rebates at time of purchase from participating distributors. For more information, visit xcelenergy.com/Rebates , under the Lighting Efficiency program section.		
LED Interior Commercial Downlight Luminaires (Hardwired), ENERGY STAR-Qualified** (Not all ENERGY STAR LED fixtures qualify for rebates)				
25W or less		Replace Incandescent systems with an ENERGY STAR-qualified commercial LED downlight luminaire that uses 3 to 6 times less energy (e.g., a 20W LED fixture can replace a 60 to 120W incandescent).	\$35/fixture	
Greater than 25W to 50W			\$50/fixture	
LED Refrigerated Case Lighting, 5- and 6-foot Doors, DesignLights Consortium-Qualified***				
5- and 6-foot doors <input type="checkbox"/> Refrigerated Case <input type="checkbox"/> Freezer Case		Replace fluorescent T12 or T8 systems with LED Case Lighting	\$100/door	
SUBTOTAL REBATE THIS PAGE (PAGE 4)				\$

*High intensity discharge systems include mercury vapor, high pressure sodium, metal halide and pulse-start metal halide

** These rebates are available specifically for standard retrofit projects in which the lumen output of the proposed system is similar to the existing system and the energy savings is within a reasonably expected range. Retrofits with unusually large or small energy savings and/or lumen reductions must apply through the Custom Efficiency program and obtain preapproval prior to purchase. Contact your account manager or the Business Solutions Center at 1-855-839-8662 if you have questions regarding your specific application.

*** Product must be DesignLights Consortium-qualified on invoices dated on or after October 13, 2014.

EQUIPMENT		REBATE/UNIT x	QTY =	REBATE
LED Wall Pack Fixtures**—Exterior and Parking Garage Installations, DesignLights Consortium-Qualified (Invoices must be dated on or after March 1, 2014.)				
Building exterior: ≤ 25W	Replace HID* systems with LED systems that use 3 to 6 times less energy (e.g., a 50W fixture can replace a 150 to 300W HID). Replacement LED wall pack fixtures must be used for building exteriors or inside parking garages and must be attached to a wall (parking garage ceiling fixtures are not eligible for this rebate, but may qualify for a Custom Efficiency rebate). Equipment must be hardwired and rated for exterior use.	\$35/fixture		
Building exterior: 26W to 60W		\$75/fixture		
Building exterior: 61W to 150W		\$100/fixture		
Parking garage: ≤ 25W		\$35/fixture		
Parking garage: 26W to 60W		\$75/fixture		
Parking garage: 61W to 150W		\$100/fixture		
LED Parking Garage Fixtures, DesignLights Consortium-Qualified (Invoices must be dated on or after August 12, 2014.)				
25W – 60W	Replace 150W-175W Fixtures; parking garage must be illuminated 24x7	\$135/fixture		
LED Exterior Canopy & Soffit Fixtures, DesignLights Consortium-Qualified*** (Invoices must be dated on or after March 1, 2014.)				
25W to 60W	Replace HID* systems with LED systems that use 3 to 6 times less energy (e.g., a 50W fixture can replace a 150 to 300W HID). Equipment must be hardwired and rated for exterior use.	\$150/fixture		
61W to 150W		\$200/fixture		
LED Troffer Fixtures, DesignLights Consortium-Qualified (Invoices must be dated on or after August 12, 2014.)				
LED Troffer Fixture	LED Troffer 2X4 Retrofit 30W-90W	Replace fluorescent T8 existing fixtures. Troffers must replace like fixtures; for example, a 1x4 must replace a 1x4.	\$50/fixture	
	LED Troffer 2x2 Retrofit 23W-42W		\$50/fixture	
	LED Troffer 1X4 Retrofit 19W-65W		\$50/fixture	
Retrofit Kit for LED Troffer Fixtures	LED Troffer Retrofit Kit 2X4 32W-67W		\$30/fixture	
	LED Troffer Retrofit Kit 2X2 22W-40W		\$30/fixture	
	LED Troffer Retrofit Kit 1X4 19W-34W		\$30/fixture	
LED Area Lighting Fixtures, DesignLights Consortium-Qualified (Invoices must be dated on or after August 12, 2014.)				
Area Lighting - 45W-65W LED Replace 100W HID Fixture	Area Lighting is to be used in exterior applications only	\$25/fixture		
Area Lighting - 65W-85W LED Replace 175W HID Fixture		\$25/fixture		
Area Lighting - 90W-110W LED Replace 250W HID Fixture		\$50/fixture		
Area Lighting - 120W-140W LED Replace 400W HID Fixture		\$50/fixture	35	1750
LED Street Lighting Fixtures, DesignLights Consortium-Qualified				
30W-35W LED Replace 70W HID Fixture	Invoices must be dated on or after November 17, 2014	Customer must be on A34 Street Light Rate. Light must be used for year-round illumination of public streets, parkways and highways.	\$30/fixture	
45W-55W LED Replace 100W HID Fixture			\$30/fixture	
55W-65W LED Replace 150W HID Fixture			\$50/fixture	
80W-105W LED Replace 175W HID Fixture	Invoices must be dated on or after August 12, 2014		\$50/fixture	
110W-130W LED Replace 250W HID Fixture			\$75/fixture	
140W-209W LED Replace 400W HID Fixture			\$100/fixture	
SUBTOTAL REBATE PAGE 3				\$ -
SUBTOTAL REBATE PAGE 4				\$ -
TOTAL REBATE				\$ 1,750

*High intensity discharge (HID) systems include mercury vapor, high pressure sodium, metal halide and pulse-start metal halide

** These rebates are available specifically for standard retrofit projects in which the lumen output of the proposed system is similar to the existing system and the energy savings is within a reasonably expected range. Rebates with unusually large or small energy savings and/or lumen reductions must apply through the Custom Efficiency program and obtain preapproval prior to purchase. Contact your account manager or the Business Solutions Center at 1-855-839-8862 if you have questions regarding your specific application.

*** Product must be DesignLights Consortium-qualified on invoices dated on or after October 13, 2014.

Specify the quantity for each item

Detailed Project Codes

Note labor and other expenses separately from other materials

Item	Qty	Description	Rate	Amount	Amount
LED-FIX-30	30	ALPH ENERGY STAR 30W LED	\$30.00		\$900.00
LED-FIX-45	25	ALPH ENERGY STAR 45W LED	\$72.00		\$1,800.00
LED-FIX-55	200	T8 LED	6.14		1,228.00
Labor	1	Labor	448.00	2,240.00	448.00
Material	3	Material	54.00	1,702.00	9.00
Installation Fee		Installation fee	82.00		82.00
		Installation fee	76.00		1,056.00
Total					\$7,914.00

Identify manufacturing part information

Good description

List price for each item and total

Invoice(s) submitted must include itemized quantity, price, manufacturer's make and model numbers, and product codes for each material item and/or original equipment manufacturer (OEM) specification sheets. Itemized invoices are the key to fast processing of rebate forms.

EXISTING LIGHTING (REMOVED)	FIXTURE QTY
Fluorescent T8 – 4-foot 32W Ballast factor _____	1 lamp 2 lamp 3 lamp 4 lamp
T8 Lamp – 4-foot 32W Ballast factor _____	
Incandescent Wattage per lamp _____ Number of lamps _____	
Incandescent Wattage per lamp _____ Number of lamps _____	
Incandescent Wattage per lamp _____ Number of lamps _____	
High Intensity Discharge (HID) <input type="checkbox"/> High pressure sodium <input type="checkbox"/> Mercury vapor <input type="checkbox"/> Metal halide <input type="checkbox"/> Pulse-start metal halide <input type="checkbox"/> Magnetic ballast <input type="checkbox"/> Electronic ballast <input type="checkbox"/> Energy-saving magnetic ballast <input type="checkbox"/> Ceramic Metal Halide Wattage per lamp _____ Number of lamps _____	
High Intensity Discharge (HID) <input type="checkbox"/> High pressure sodium <input type="checkbox"/> Mercury vapor <input checked="" type="checkbox"/> Metal halide <input type="checkbox"/> Pulse-start metal halide <input type="checkbox"/> Magnetic ballast <input type="checkbox"/> Electronic ballast <input type="checkbox"/> Energy-saving magnetic ballast <input type="checkbox"/> Ceramic Metal Halide Wattage per lamp <u>400</u> Number of lamps <u>35</u>	<u>35</u>
Incandescent Exit Signs	
Fluorescent Refrigerated or Freezer Case Lighting <input type="checkbox"/> 5-foot <input type="checkbox"/> 6-foot <input type="checkbox"/> T12 <input type="checkbox"/> T8 <input type="checkbox"/> Refrigerated <input type="checkbox"/> Freezer Wattage/Door _____	
If equipment not listed above, please describe below.	

PROPOSED LIGHTING (INSTALLED)	FIXTURE QTY
Fluorescent T8 – 4-foot 32W Ballast factor _____	1 lamp 2 lamp
Ballast make/model no _____ <i>Must have high-efficiency electronic ballast</i>	3 lamp 4 lamp
Low-wattage T8 lamp – 4-foot 28W Ballast factor _____	
Low-wattage T8 lamp – 4-foot 25W Ballast factor _____	
High-Bay and Parking Garage Fluorescent (Please indicate the number of lamps in the first box to the right.)	T8
Ballast factor _____	T8V110
Ballast make/model no. _____	T8VHO
<i>Must have high-efficiency electronic ballast</i>	T5HO
	T5HO
Hardwired or modular CFL fixtures 18W or less wattage per fixture _____	
Hardwired or modular CFL fixtures 19W to 32W wattage per fixture _____	
Hardwired or modular CFL fixtures 33W or greater wattage per fixture _____	
2-foot Low Wattage CFL 25W to 28W wattage per lamp _____	
High Intensity Discharge (HID) <input type="checkbox"/> High pressure sodium <input type="checkbox"/> Mercury vapor <input type="checkbox"/> Energy-saving magnetic ballast <input type="checkbox"/> Ceramic metal halide <input type="checkbox"/> Pulse-start metal halide <input type="checkbox"/> Magnetic ballast <input type="checkbox"/> Electronic ballast Wattage per lamp _____ Number of lamps _____	
High Intensity Discharge (HID) <input type="checkbox"/> High pressure sodium <input type="checkbox"/> Mercury vapor <input type="checkbox"/> Energy-saving magnetic ballast <input type="checkbox"/> Ceramic metal halide <input type="checkbox"/> Pulse-start metal halide <input type="checkbox"/> Magnetic ballast <input type="checkbox"/> Electronic ballast Wattage per lamp _____ Number of lamps _____	
LED Interior Commercial Downlight Luminaires (hardwired), ENERGY STAR-Qualified Wattage per fixture _____	
LED Refrigerated Case Lighting, DesignLights Consortium-Qualified Wattage per door _____	
LED Exterior Canopy & Soffit Fixtures, DesignLights Consortium-Qualified Wattage per fixture _____	
LED Exterior/Parking Garage LED Wall Pack Fixture, DesignLights Consortium-Qualified Wattage per fixture _____	
Occupancy Sensor or Photo Cell: check all boxes that apply in each section below Connected Load Example: 6 fixtures; .85; T8 4 ft. 32W 2-lamp Connected load Number of fixtures _____ Ballast factor _____ Description _____ <input type="checkbox"/> Wall-mount occupancy sensor <input type="checkbox"/> Ceiling or fixture-mount occupancy sensor <input type="checkbox"/> Photo cell Connected load Number of fixtures _____ Ballast factor _____ Description _____ <input type="checkbox"/> Wall-mount occupancy sensor <input type="checkbox"/> Ceiling or fixture-mount occupancy sensor <input type="checkbox"/> Photo cell	
Bi-level Stairwell fixture <input type="checkbox"/> T8: Number of lamps _____ Length of lamps _____ <input type="checkbox"/> On/Off or <input type="checkbox"/> Dimming <input type="checkbox"/> LED: Fixture wattage _____ Percent Dimming _____	
<input type="checkbox"/> LED Exit Signs <input type="checkbox"/> LEC Exit Signs	
LED Street Lighting, DesignLights Consortium-Qualified Wattage per fixture _____	
LED Area Lighting, DesignLights Consortium-Qualified Wattage per fixture _____	
LED Troffer Fixture DesignLights Consortium-Qualified Wattage per fixture _____	
LED Parking Garage Fixtures, DesignLights Consortium-Qualified Wattage per fixture _____	

Lighting Replacement Options

Prescriptive rebates are available for the commonly installed interior equipment listed below. If your project does not fit one of the descriptions below, it may still qualify for rebates. Please contact your Xcel Energy representative or the Business Solutions Center at 1-855-839-8862 for custom lighting project review prior to beginning the project

A. Low-wattage T8 Lamps

Rebates are based on replacing 32W T8 lamps with 28W or less lamps

B. Lighting Optimization

Rebates are based on the permanent removal of the equivalent of at least one 4-foot T8 lamp from an 8-foot or 4-foot fixture as a result of a retrofit. Rebate amount is per fixture, based on the final quantity of lamps installed in each fixture. Reducing the quantity of fixtures does not qualify. In order to qualify, the fixture must be retrofitted such that the existing ballast(s) must be disconnected and removed, a new lamp-quantity appropriate, high-efficiency electronic ballast is installed, and the sockets for the eliminated lamps are removed. In addition, the customer may not remove more than 50% of the existing lamp quantity (e.g., replacing a 3-lamp system with a 1-lamp system is not allowed) High-efficiency electronic ballasts are required for all 4-foot T8 optimization rebates. High-efficiency electronic ballasts are required for all 4-foot, 4-lamp or less T8 rebates. Ballasts must have a ballast efficacy factor (BEF) at least as high as the factors shown in the table below. You can find a list of qualified ballasts at cee1.org.

Customer must sign the line below the optimization rebate on page 3 to verify that optimization has occurred. Although Xcel Energy recommends customer follow IES guidelines, the final light levels are the responsibility of the customer.

INSTANT START BALLAST (BEF)			
Lamps	Low (BEF ≤ 0.85)	Normal (0.85 < BEF ≤ 1.0)	High (BEF ≥ 1.01)
1	≥ 3.08	≥ 3.11	≥ 3.03
2	≥ 1.60	≥ 1.58	≥ 1.55
3	≥ 1.04	≥ 1.05	≥ 1.04
4	≥ 0.79	≥ 0.80	≥ 0.77
6	N/A	N/A	≥ 0.52

PROGRAMMED RAPID START BALLAST (BEF)			
Lamps	Low (BEF ≤ 0.85)	Normal (0.85 < BEF ≤ 1.0)	High (BEF ≥ 1.01)
1	≥ 2.84	≥ 2.84	≥ 2.95
2	≥ 1.48	≥ 1.47	≥ 1.51
3	≥ 0.97	≥ 1.00	≥ 1.00
4	≥ 0.76	≥ 0.75	≥ .75
6	N/A	N/A	≥ 0.50

C. High-bay fluorescent T8, T8VHO, and T5HO Lamps with High-Efficiency Electronic Ballasts

Rebates are based on a one-for-one replacement of HID fixtures (including mercury vapor, high pressure sodium, metal halide, or pulse-start metal halide) ranging in size from 250W to 1000W. Rebates are available for T8, T8VHO systems or T5HO systems as shown on page 3 of this application. High-efficiency electronic ballasts are required for all fixtures using 4-foot, 4-lamp or less T8 ballasts. Other fixture configurations will be considered under the Custom Efficiency program.

D. Parking Garage Fluorescent T8 & T5HO with High-Efficiency Electronic Ballasts

Eligible parking garage structures need to be either underground or semi-enclosed above ground. The lighting within the garage must operate 24 hours a day. Rebates are based on a one-for-one replacement of HID fixtures (including mercury vapor, high pressure sodium, metal halide, or pulse-start metal halide) ranging in size from 150W to 175W. Rebates are available for T8 or T5HO systems. High-efficiency electronic ballasts are required for all fixtures using 4-foot, 4-lamp or less T8 ballasts. Other fixture configurations will be considered under the Custom Efficiency program.

E. Compact Fluorescent Fixtures

Rebates are based on one-for-one replacement of incandescent fixtures with new hard-wired (dedicated) or modular fixtures containing pin-based compact fluorescent lamps (CFLs). For fixtures that house more than one lamp, the rebate is based on the total fixture wattage. (i.e., One fixture that houses (2) 18W CFLs would be rebated as (1) 36W CFL fixture.) Screw-base (integral) CFLs do not qualify. Two-foot low-wattage CFL rebate is paid per lamp

F. High Pressure Sodium Fixtures

Rebates are based on one-for-one replacement of incandescent or mercury vapor fixtures. High pressure sodium lamp wattage must be lower than existing lamp wattage

G. Ceramic Metal Halide Fixtures

Rebates are based on one-for-one replacement of incandescent, halogen, mercury vapor, high pressure sodium, metal halide, or pulse start metal halide fixtures. Ceramic metal halide lamp wattage must be lower than existing lamp wattage

H. Pulse-Start Metal Halide Fixtures

Rebates are based on one-for-one replacement of incandescent, mercury vapor, high pressure sodium, or metal halide fixtures. Pulse-start lamp wattage must be lower than existing lamp wattage

I. Occupancy Sensors, Photocells and Stairwell Fixtures

Occupancy sensors may be wall or ceiling mounted, but must be permanently installed; they can be passive infrared, ultrasonic, or dual technology sensors. Rebate is based on the type of sensor (wall vs. ceiling mount) as well as the connected load of each sensor. Stairwell fixtures may be 2- to 3-lamp T8 or 20 to 30W LED and be controlled via an integrated occupancy sensor or step-dimming ballast. Fixture must operate in low-standby light level during vacancy and switch to full light output upon occupancy. The fixture cannot exceed 35 percent of full wattage during unoccupied periods. Low mode setting should be chosen so that the surface illumination levels are code compliant

J. LED and LEC Exit Signs

Rebates are based on one-for-one replacement of incandescent exit signs to LED or LEC exit signs. CFL exit signs do not qualify for a rebate.

LED Screw-in Lamps, ENERGY STAR-Qualified

ENERGY STAR-qualified screw-in LED lamps qualify for instant rebate, effective February 1, 2015. Screw-in lamps must be purchased from participating distributors that can be found on businessledinstantrebate.com/Locator/Distributors

LED Commercial Downlight Luminaires (hardwired), ENERGY STAR-Qualified

Rebates are based on one-for-one full fixture replacement of incandescent fixtures with ENERGY STAR-qualified commercial LED hardwired downlight luminaires. Rebates are based on total fixture wattage. (Fixture must be a commercial downlight; not all products listed qualify for rebates)

LED Exterior Canopy, Soffit and Wall Pack Fixtures, DLC-Qualified

Rebates are based on one-for-one replacement of HID canopy, soffit or wall pack fixtures with LED fixtures rated for exterior use. Rebates are based on HID lamp wattage and total fixture wattage. Wall packs can be installed in parking garages, however parking garage ceiling fixtures do not qualify for this rebate. Wall packs must include wall pack terminology on spec sheet to qualify for rebate.

LED Refrigerated Case Lighting, DLC-Qualified

Rebates are based on replacement of T12 or T8 linear 5- to 6-foot fluorescent refrigerated case door lighting with 5- to 6-foot LED refrigerated case door strip lighting. Rebates are per door, not per lamp. Linear LED tube lights do not qualify for this rebate, but can be considered under the Custom Efficiency program.

LED Parking Garage Fixtures, DLC-Qualified

Eligible parking garage structures need to be either underground or semi-enclosed above ground. The lighting within the garage must operate 24 hours a day. Rebates are based on a one-for-one replacement of HID (including mercury vapor, high-pressure sodium, metal halide, or pulse-start metal halide) ranging in size from 150W-175W. Rebates are based on HID lamp wattage and total fixture wattage. LED retrofit kits are not available for prescriptive rebates, but can be analyzed in the Custom Efficiency program. The 3 to 6 times rule does not apply to this rebate measure.

LED Troffer Fixture & Retrofit Kits, DLC-Qualified

Rebates are based on a one-for-one fixtures and retrofit kits replacement of existing linear fluorescent recessed troffer systems to qualify for rebates. Eligible LED fixture types are 2X2, 2X1, 2X4, 1X4, and retrofit kits. LED T8 tubes do not qualify for the retrofit kit, but can be considered under the Custom Efficiency program. The program adopts the DLC definition: Common recessed, suspended, or surface-mounted fixtures intended to provide ambient lighting in settings such as office spaces, schools, retail stores, and other commercial environments. Products submitted in these categories must meet the stated form factors with a tolerance of ±4 inches.

ENERGY STAR and DesignLights Consortium Qualified Product Lists

ENERGY STAR and DesignLights Consortium Qualified Product Lists (QPL) to earn a prescriptive rebate. Prescriptive products that are not listed on the DLC QPL can be evaluated under the Custom Efficiency program.

The DLC promotes quality, performance and energy efficient commercial sector lighting solutions through collaboration among its federal, regional, state, utility, and energy efficiency program members, luminaire manufacturers, lighting designers and other industry stakeholders throughout the U.S. Visit designlights.org/QPL to search for qualified commercial products

ENERGY STAR promotes energy savings, highest quality of products, reduced maintenance costs, cooling costs, and guaranteed minimum three-year warranty. Visit energystar.gov/products to search for qualified commercial products.

Additional Rules and Requirements

- New interior lighting equipment must operate during weekday peak-demand hours (9:00 a.m. – 9:00 p.m.). With the exception of LED canopy, soffit, and wall pack fixtures, along with parking garage fluorescent fixtures, equipment that only operates at night must be preapproved through the Custom Efficiency program.
- Rebate items must be installed on the Xcel Energy electric account listed on the application.
- These rebates assume a one-for-one replacement of fixtures (in retrofit situations) that will result in energy savings
- Xcel Energy recommends Illuminating Engineering Society (IES) light levels
- For fluorescent ballasts, please include product specs listing the ballast factor (BF) and ballast efficacy factor (BEF). NOTE: Sending inadequate invoice documentation or incomplete/incorrect forms will delay the rebate payment



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LED ROI Calculator presented by MyLEDLightingGuide.com

Enter your values in the light green data entry fields and then click on the 'Calculate Savings' button below

Current Lighting Watts per bulb (W)	400
LED Lighting Watts per bulb (W)	125
Total Number of Fixtures or Bulbs	35
Daily Operating Hours (hrs)	12
Working Days Per Month	31
kWh Cost	0.10
Maintenance & Ballast Monthly (per Bulb)	5
HVAC Load Monthly Cost Factor (%)	0
Cost per single LED Bulb	690
Cost for Installation (per bulb)	30
Rebates (Utilities or Government) (per bulb)	50
EPAct Rebates (per bulb)	0

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I've read and agree to all the terms in the disclaimer.

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FINANCIAL BENEFITS

	Current Lighting	LED Lighting
Watts per bulb (W)	400	125
Number of Fixtures or Bulbs	35	35
Daily Operating Hours (hrs)	12	12
Watt-hours per day (Wh)	168000	52500
Kilo-watt-hours per day (kWh)	168	53
Working Days Per Month	31	31
Total kWh per Month (kWh)	5208	1627.5
kWh Cost	0.1	0.1
Monthly kWh Cost	520.80	162.75
Maintenance & Ballast Monthly (per Bulb)	5	0.00
Maintenance & Ballast Monthly Total	175.00	0.00
HVAC Load Monthly Cost Factor (%)	0	0%
HVAC Monthly Cost from Lighting	0.00	0.00
Cost per Month w/ HVAC and Maintenance	695.80	162.75
Total annual cost to operate	8349.60	1953.00

LED ROI

Cost per single LED Bulb	690
Cost of Installation per single LED Bulb	30
Rebates per single LED Bulb	50
EPAct Rebates per single LED Bulb	0
Total Savings Monthly with LED	533.05
Total Savings Annually with LED	6396.60
Total Savings over 10 Years	63966.00
Total Cost to retrofit with LED	23450.00
Payback Period in Months	43.99

R.O.I.

ENVIRONMENTAL BENEFITS

	Current Lighting	LED Lighting
Annual System Electricity Usage (kWh)	62496.00	19530.00
kWh Cost	0.10	0.10
Annual System Cost	6249.60	1953.00

Energy Savings from kWh Reduction	4296.60
CO2 Emissions Reduction (lbs)*	57144.78
Car Removal Equivalent (cars)**	4.99
Tree Planting Equivalent (acres of trees)***	10.99

*Calculation based on USEPA eGRID2007 Version 1.1 estimated national avg of 1.33 lbs CO2/kWh

**Calculation based on USEPA Emission Facts, 2000 <http://www.epa.gov/oms/consumer/f00013.htm>

***Calculation based on Urban Forestry Administration estimate of 2.6 tons of CO2 stored per acre of trees per year <http://www.trees-ddot.dc.gov/ufa/cwp/view,a.1293.q.575431.asp>

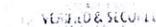
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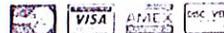
LED Lighting Info

- [LED Return on Investment Calculator](#)
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- [Guide to Retrofit](#)
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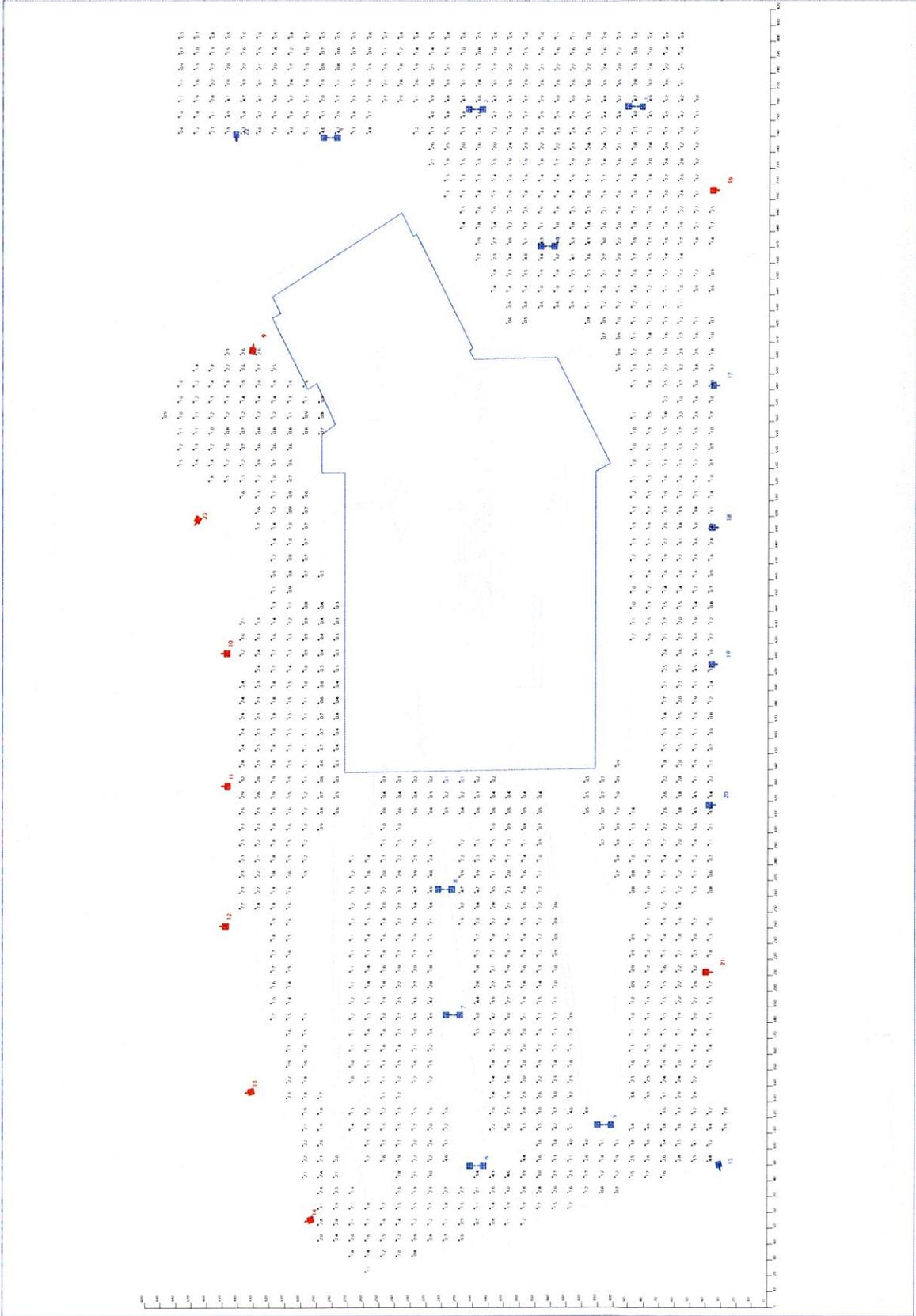


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Scale: as noted
Date: 6/2016
Filename: Router Labs\031615B.AGI
Drawn By: DKH

The Lighting Analysis, Electrical Energy Analysis and Visual Simulation Lighting Design provided by RAB Lighting Inc. is intended for informational purposes only and is not intended for construction. Construction documents prepared by RAB Lighting Inc. are the sole authority for construction. RAB Lighting Inc. is not responsible for construction documents prepared by others. RAB Lighting Inc. is not responsible for construction documents prepared by others. RAB Lighting Inc. is not responsible for construction documents prepared by others.



Scale: 1 inch= 30 Ft.

Calculation Summary											
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	Description	PtSpLr	PtSpctb	Meter Type
Parking Lot	Illuminance	Fc	1.92	5.8	0.1	19.20	58.00	readings taken at 0-0" AFG	10	10	Horizontal

Luminaire Schedule

Symbol	Qty	Tag	Label	Arrangement	Lum. Lumens	Min	Avg/Min	Max/Min	Description	LLF	Type	Lum. Watts	Arr. Watts	Total Watts	Filename
A	9	A	ALED3T125-480	SINGLE	11431	11431	19.20	58.00	TYPE III POLE MOUNT	1.000	TYPE III POLE MOUNT	134.3	134.3	1208.7	ALED3T125-480 - Cool - ITL83219.IES
B	6	B	ALED4T125-480	SINGLE	12513	12513	19.20	58.00	TYPE IV POLE MOUNTED	1.000	TYPE IV POLE MOUNTED	133.8	133.8	802.8	ALED4T125-480 - Cool - ITL83222.IES
B2	8	B2	ALED4T125-480X2@180°	BACK-BACK	12513	12513	19.20	58.00	TYPE IV POLE MOUNTED 2@180°	1.000	TYPE IV POLE MOUNTED 2@180°	133.8	267.6	2140.8	ALED4T125-480 - Cool - ITL83222.IES

Expanded Luminaire Location Summary

LumNo	Tag	X	Y	MTG HT	Orient
1	B2	759.15	88.17	30	90
2	B2	759.15	85.17	30	270
3	B2	757.48	190.56	30	90
4	B2	757.48	187.56	30	270
5	B2	671.05	144.52	30	90
6	B2	671.05	141.52	30	270
7	B2	739.48	283.4	30	90
8	B2	739.48	280.4	30	270
9	B2	115.37	107.33	30	90
10	B2	115.37	104.33	30	270
11	B2	89.44	189.13	30	90
12	B2	89.44	186.13	30	270
13	B2	184.9	204.37	30	90
14	B2	184.9	201.37	30	270
15	B2	264.55	209.6	30	90
16	B2	264.55	206.6	30	270
17	A	607.837	330.773	30	171.453
18	A	413.7	350.06	30	270
19	A	329.83	349.64	30	270
20	A	241.16	350.82	30	270
21	A	135.91	334.341	30	283.488
22	A	54.689	296.388	30	288.609
23	B	67.654	307.56	30	15.715
24	A	706.22	33.61	30	90
25	B	582.96	33.08	30	90
26	B	493.15	33.73	30	90
27	B	406.78	33.94	30	90
28	B	317.9	35.2	30	90
29	A	212.11	37.13	30	90
30	B	738.48	341.95	30	0
31	A	495.701	367.493	30	330.116
Total Quantity: 31					



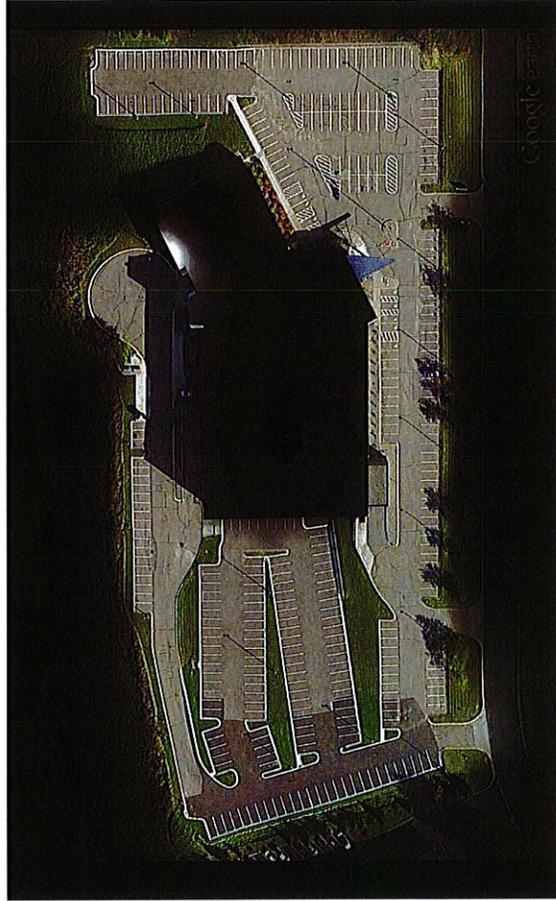
ALED3T125-480 ALED4T125-480 ALED4T125-480X2@180°
 EPA: 0.75 EPA: 0.75 EPA: 1.20
 Weight: 32.0 lbs Weight: 32.0 lbs Weight: 64.0 lbs

NOTES:
 * The light loss factor (LLF) is a product of many variables, only lamp lumen depreciation (LLD) is included in this calculation.
 * Illumination values shown (in footcandles) are the predicted results for planes of calculation either at the top and bottom of the luminaire or at the luminaire mounting height.

* The calculated results of this lighting simulation represent an anticipated prediction of system performance. The actual results may vary due to site specific conditions, luminaire mounting height, and luminaire mounting configuration.

* Mounting height determination is job site specific, our lighting simulations assume a mounting height of 30 feet. Mounting height may vary based on site specific conditions.

* 100% Lighting Inc. luminaire and product designs are protected under U.S. and International intellectual property laws. Patents issued or pending apply.



Job Name: Photo Labs
 Lighting Layout: Maple Plain, MN
 Version: B
 Prepared For: Photo Labs
 2738 Winnetka Ave N Ste 215
 New Hope, MN 55427
 10000 Kenwood Way, Suite 100
 RAB LIGHTING
 952-222-1000 • RAB@RAB.COM

Scale: as noted
 Date: 6/2016
 Filename: Photo Labs 031615B.AGI
 Drawn By: DK Baines

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ALED3T125/480



Specification grade area lights available in IES Type III distributions. For use for roadway, general parking and other area lighting applications where a larger pool of lighting is required. Replaces up to 400W metal halide. Patent pending thermal management system. 5 Year Warranty.

Color: Bronze

Weight: 32.0 lbs

Project:
Proto Labs

Type:
Parking Lot

Prepared By:
K. Deines

Date:
03/16/2015

Driver Info

Type:	Constant Current
120V:	N/A
208V:	N/A
240V:	N/A
277V:	N/A
Input Watts:	134W
Efficiency:	93%

LED Info

Watts:	125W
Color Temp:	5000K (Cool)
Color Accuracy:	66 CRI
L70 Lifespan:	100,000
LM79 Lumens:	11,431
Efficacy:	85 LPW

Technical Specifications

Listings

UL Listing:

Suitable for wet locations.

IESNA LM-79 & LM-80 Testing:

RAB LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80, and have been received the Department of Energy "Lighting Facts" label.

DLC Listed:

This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities.

Dark Sky Approved:

The International Dark Sky Association has approved this product as a full cutoff, fully shielded luminaire.

LED Characteristics

Lifespan:

100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations.

Color Stability:

LED color temperature is warranted to shift no more than 200K in CCT over a 5 year period.

Color Uniformity:

RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2011.

Construction

IES Classification:

The Type III distribution is ideal for roadway, general parking and other area lighting applications where a larger pool of lighting is required. It is intended to be located near the side of the area, allowing the light to project outward and fill the area.

Effective Projected Area:

EPA = 0.75

Ambient Temperature:

Suitable for use in 40°C (104°F) ambient temperatures.

Cold Weather Starting:

The minimum starting temperature is -40°F/-40°C.

Thermal Management:

Superior thermal management with external Air-Flow fins.

Housing:

Die-cast aluminum housing, lens frame and mounting arm.

Mounting:

Heavy-duty mounting arm with "O" ring seal & stainless steel screws

Reflector:

Specular vacuum-metallized polycarbonate

Gaskets:

High-temperature silicone gaskets

Finish:

Our environmentally friendly polyester powder coatings are formulated for high-durability and long-lasting color, and contains no VOC or toxic heavy metals.

Green Technology:

Mercury and UV free, and RoHS compliant. Polyester powder coat finish formulated without the use of VOC or toxic heavy metals.

For use on LEED Buildings:

IDA Dark Sky Approval means that this fixture can be used to achieve LEED Credits for Light Pollution Reduction.

Other

LEDs:

Multi-chip, high-output, long-life LEDs

Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish.

Country of Origin:

Designed by RAB in New Jersey and assembled in the USA by RAB's IBEW Local 3 workers.

Buy American Act Compliant:

This product is a COTS item manufactured in the United States, and is compliant with the Buy American Act.

Recovery Act (ARRA) Compliant:

This product complies with the 52.225-21 "Required Use of American Iron, Steel, and Manufactured Goods-- Buy American Act-- Construction Materials (October 2010).

Trade Agreements Act Compliant:

This product is a COTS item manufactured in the United States, and is compliant with the Trade Agreements Act.

GSA Schedule:

Suitable in accordance with FAR Subpart 25.4.

Technical Specifications (continued)

Electrical

Drivers:

Two Drivers, Constant Current, Class 2, 1750mA, 347-480V, 50/60Hz, 0.30A, Power Factor 94.3%

Ballast Volts:

480V

Surge Protection:

4kV

Custom

THD:

14.1% at 480V

California Title 24:

See ALED3T125/D10, ALED3T125/BL, ALED3T125/PCS, ALED3T125/PCS2, or ALED3T125/PCT for a 2013 California Title 24 compliant product.

Optical

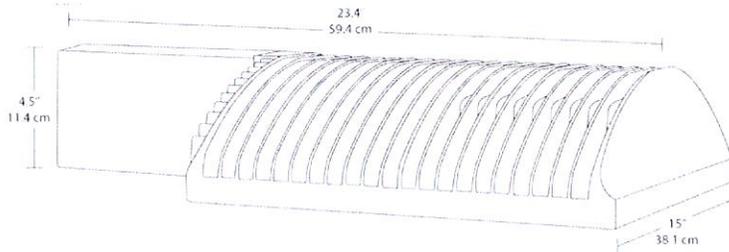
Replacement:

The ALED125 replaces 320W Metal Halide Area Lights.

ALED3T125/480



Dimensions



Features

- 66% energy cost savings vs. HID
- 100,000-hour LED lifespan
- Type III distribution
- 5-year warranty

Ordering Matrix

Family	Distribution	Watts	Mount	Color Temp	Finish	Voltage	Photocell	Dimming	Bi-Level
ALED									
	2T = Type II	150 =	Blank = Arm	Blank =	Blank =	Blank = 120-	Blank = No Photocell	Blank = No	Blank = No Bi-
	3T = Type III	150W	SF =	Cool	Bronze	277V	/PC = 120V Button	Dimming	Level
	4T = Type IV	125 =	Slipfitter	Y = Warm	W = White	/480 = 480V	/PC2 = 277V Button	/D10 = Dimmable	/BL = Bi-Level
		125W		N = Neutral	RG = Gray		/PCS = 120V Swivel		
		105 =					/PCS2 = 277V Swivel		
		105W					/PCT = 120-277V Twistlock		
							/PCS4 = 480V Swivel		
							/PCT4 = 480V Twistlock		

ALED4T125/480



Specification grade area lights available in IES Type IV distributions. Suited for mounting on the sides of buildings and walls, and for illuminating the perimeter of parking areas. Replaces up to 400W metal halide. Patent pending management system. 5 Year Warranty.

Color: Bronze

Weight: 32.0 lbs

Project:
Proto Labs

Type:
Parking Lot

Prepared By:
K. Deines

Date:
03/16/2015

Driver Info

Type:	Constant Current
120V:	N/A
208V:	N/A
240V:	N/A
277V:	N/A
Input Watts:	134W
Efficiency:	93%

LED Info

Watts:	125W
Color Temp:	5000K (Cool)
Color Accuracy:	68 CRI
L70 Lifespan:	100,000
LM79 Lumens:	12,513
Efficacy:	94 LPW

Technical Specifications

Listings

UL Listing:

Suitable for wet locations.

IESNA LM-79 & LM-80 Testing:

RAB LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80, and have been received the Department of Energy "Lighting Facts" label.

DLC Listed:

This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities.

Dark Sky Approved:

The International Dark Sky Association has approved this product as a full cutoff, fully shielded luminaire.

LED Characteristics

Lifespan:

100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations.

Color Stability:

LED color temperature is warranted to shift no more than 200K in CCT over a 5 year period.

Color Uniformity:

RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2011.

Construction

IES Classification:

The Type IV distribution (also known as a Forward Throw) is especially suited for mounting on the sides of buildings and walls, and for illuminating the perimeter of parking areas. It produces a semiCircular distribution with essentially the same candlepower at lateral angles from 90° to 270°.

Effective Projected Area:

EPA = 0.75

Ambient Temperature:

Suitable for use in 40°C (104°F) ambient temperatures.

Cold Weather Starting:

The minimum starting temperature is -40°F/-40°C.

Thermal Management:

Superior thermal management with external Air-Flow fins.

Housing:

Die-cast aluminum housing, lens frame and mounting arm.

Mounting:

Heavy-duty mounting arm with "O" ring seal & stainless steel screws

Reflector:

Specular vacuum-metallized polycarbonate

Gaskets:

High-temperature silicone gaskets

Finish:

Our environmentally friendly polyester powder coatings are formulated for high-durability and long-lasting color, and contains no VOC or toxic heavy metals.

Green Technology:

Mercury and UV free, and RoHS compliant. Polyester powder coat finish formulated without the use of VOC or toxic heavy metals.

For use on LEED Buildings:

IDA Dark Sky Approval means that this fixture can be used to achieve LEED Credits for Light Pollution Reduction.

Other

LEDs:

Multi-chip, high-output, long-life LEDs

Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish.

Country of Origin:

Designed by RAB in New Jersey and assembled in the USA by RAB's IBEW Local 3 workers.

Buy American Act Compliant:

This product is a COTS item manufactured in the United States, and is compliant with the Buy American Act.

Recovery Act (ARRA) Compliant:

This product complies with the 52.225-21 "Required Use of American Iron, Steel, and Manufactured Goods-- Buy American Act-- Construction Materials (October 2010).

Trade Agreements Act Compliant:

This product is a COTS item manufactured in the United States, and is compliant with the Trade Agreements Act.

GSA Schedule:

Suitable in accordance with FAR Subpart 25.4.

Technical Specifications (continued)

Electrical

Drivers:

Two Drivers, Constant Current, Class 2, 1750mA, 347-480V, 50/60Hz, 0.30A, Power Factor 94.3%

Ballast Volts:

480V

Surge Protection:

4kV

Custom

THD:

14.2% at 480V

California Title 24:

See ALED4T125/D10, ALED4T125/BL, ALED3T125/PCS, ALED4T125/PCS2, or ALED4T125/PCT for a 2013 California Title 24 compliant product.

Optical

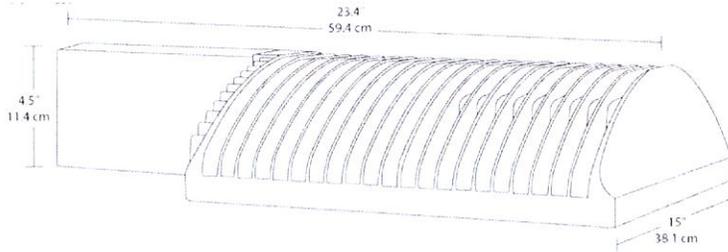
Replacement:

The ALED125 replaces 320W Metal Halide Area Lights.

ALED4T125/480



Dimensions



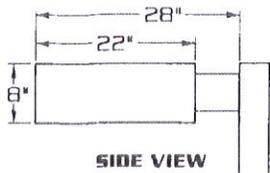
Features

- 66% energy cost savings vs. HID
- 100,000-hour LED lifespan
- Type IV distribution
- 5-year warranty

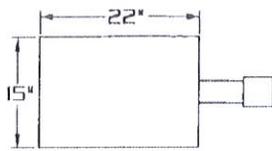
Ordering Matrix

Family	Distribution	Watts	Mount	Color Temp	Finish	Voltage	Photocell	Dimming	Bi-Level
ALED									
	2T = Type II	150 =	Blank = Arm	Blank =	Blank =	Blank = 120-	Blank = No Photocell	Blank = No	Blank = No Bi-
	3T = Type III	150W	SF =	Cool	Bronze	277V	/PC = 120V Button	Dimming	Level
	4T = Type IV	125 =	Slipfitter	Y = Warm	W = White	/480 = 480V	/PC2 = 277V Button	/D10 = Dimmable	/BL = Bi-Level
		125W		N = Neutral	RG = Gray		/PCS = 120V Swivel		
		105 =					/PCS2 = 277V Swivel		
		105W					/PCT = 120-277V Twistlock		
							/PCS4 = 480V Swivel		
							/PCT4 = 480V Twistlock		

[400 WATT MAX.]

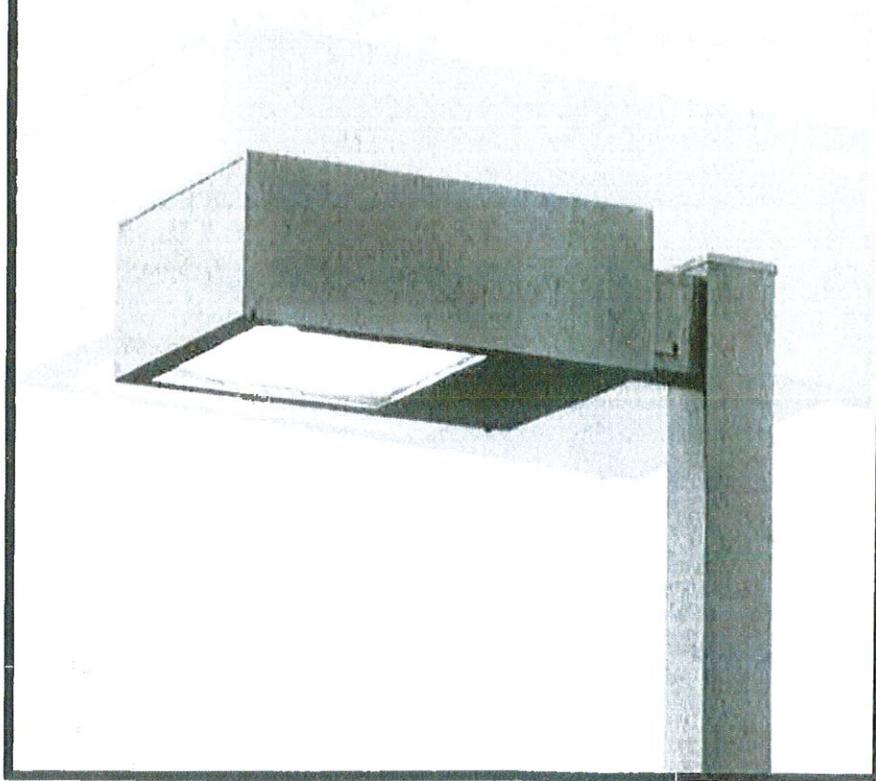


SIDE VIEW



TOP VIEW

VERSALUX



E.P.A. = 1.72



SPECIFICATIONS

- HOUSING:** ONE PIECE HEAVY GAUGE DIE FORMED ALUMINUM CONSTRUCTION WITH SEPARATE BALLAST COMPARTMENT.
- LENS ASS'Y:** ONE PIECE HINGED HEAVY GAUGE DIE FORMED ALUMINUM DOOR FRAME SURROUNDS 3/16" CLEAR TEMPERED GLASS LENS. GLASS IS SEALED TO DOOR WITH HIGH TEMPERATURE SILICONE SEAL. TWO CAPTIVE THUMB SCREWS DISENGAGE LENS ASSEMBLY FROM HOUSING WITHOUT THE USE OF TOOLS.
- OPTICS:** COMPUTER DESIGNED ONE PIECE SEMI SPECULAR HYDROFORMED REFLECTOR COMBINES WITH LENS TO PRODUCE A HIGHLY EFFICIENT, SHARP CUTOFF. OPTICS ARE FIELD ROTATABLE.
- GASKETING:** CLOSED CELL EPDM GASKETING COMPRESSED BETWEEN DOOR AND HOUSING SEALS OPTICAL CHAMBER.
- LAMP HOLDER:** MOGUL BASE PORCELAIN.
- LAMP:** (BY OTHERS)
- BALLAST:** H.P.F./C.W.A. AUTO TRANSFORMER, -20° STARTING TEMPERATURE. ELECTRICAL COMPONENTS ARE MOUNTED TO HINGED REMOVABLE TRAY FOR EASY ACCESS.
- ARM:** 3" X 5" X 6" LONG HEAVY WALL EXTRUDED ALUMINUM. ARM IS SECURED TO HOUSING AND TO POLE WITH STAINLESS STEEL RODS.
- FINISH:** POLYESTER POWDER COAT - STATE OF THE ART 20 PSI PRESSURE POWER WASH AT 140° TEMPERATURE INCORPORATES FOUR STEP IRON PHOSPHATE PROCESS TO CLEANSE AND PRETREAT THE METAL SURFACE FOR MAXIMUM PAINT ADHESION. ELECTROSTATICALLY APPLIED TEXTURED POLYESTER POWDER TOP COAT IS BAKED AT 400° TEMPERATURE FOR MAXIMUM HARDNESS AND EXTERIOR DURABILITY.

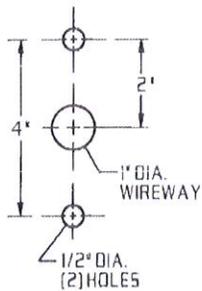
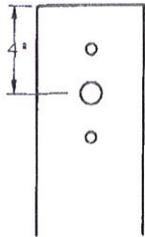


U.S. ARCHITECTURAL
LIGHTING

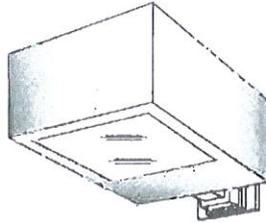
100 WEST AVENUE, PO BOX 115, WRENSHIRE, VT 05371
703.887.2280
WWW.USCALIB.COM

121

POLE DRILLING TEMPLATE

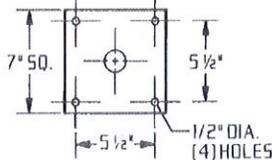


WALL MOUNT

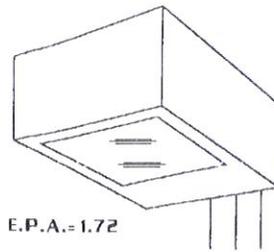


EXTRUDED ALUMINUM ARM AND CAST ALUMINUM WALL BRACKET ASSEMBLY PROVIDED WITH BUILT IN GASKETED WIRE ACCESS FOR FIXTURE/SUPPLY WIRE CONNECTION.

WALL PLATE



**LAMP SIZE:
100 - 400 WATT**



E.P.A.=1.72

RECTILINEAR HEAVY GAUGE ALUMINUM HOUSING.

FIELD ROTATABLE OPTICS.

FIELD ADJUSTABLE OPTICS, TYPE II AND III LIGHT DISTRIBUTION.

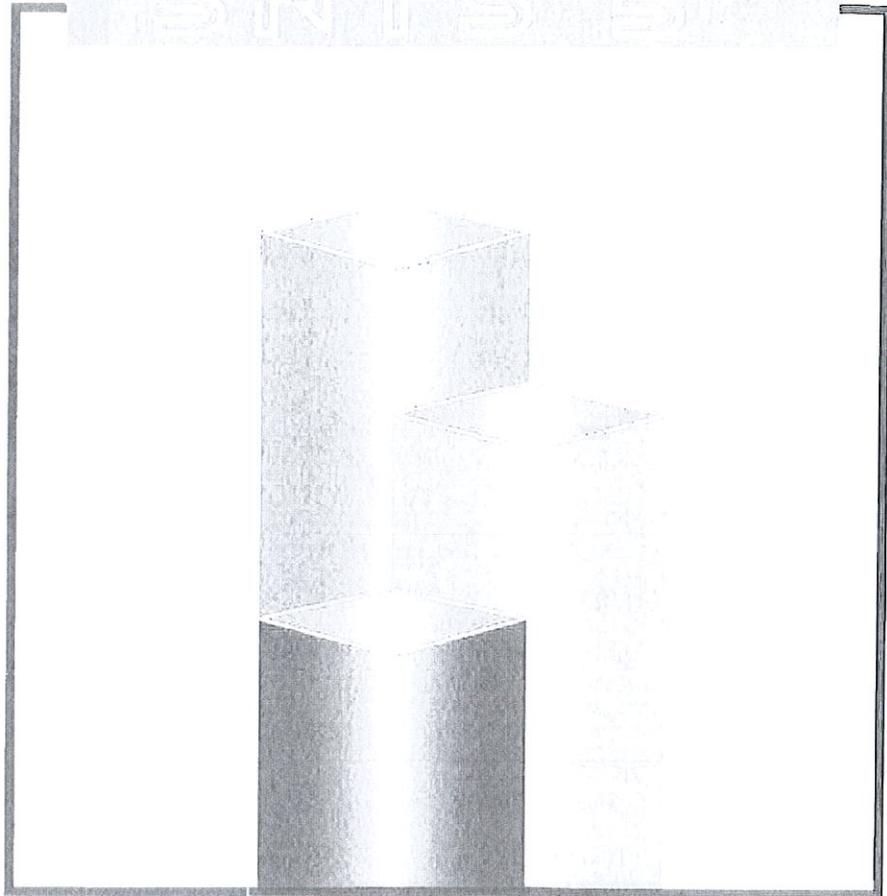
HINGED BALLAST TRAY, WITH QUICK DISCONNECT PLUG FOR EASY ACCESS TO ELECTRICAL COMPONENTS.

TOOLESS LUMINAIRE ACCESS.

ORDERING INFORMATION

MODEL NO. : VRS	OPTICS	WATTAGE TYPE VOLTAGE	MOUNTING	FINISH	OPTIONS
MODEL NO. : VRS	<input type="checkbox"/> TYPE I I (hydroform) <input type="checkbox"/> TYPE II II (hydroform) <input type="checkbox"/> TYPE III III (hydroform) <input checked="" type="checkbox"/> TYPE IV (FORWARD THROW) IV (segmented) <input type="checkbox"/> TYPE V V-SQ (segmented)	WATTAGE TYPE VOLTAGE <input checked="" type="checkbox"/> 400 <input type="checkbox"/> HPS <input type="checkbox"/> 120 <input type="checkbox"/> 250 <input checked="" type="checkbox"/> MH <input type="checkbox"/> 208 <input type="checkbox"/> 200 <input type="checkbox"/> MV <input type="checkbox"/> 240 <input type="checkbox"/> 175 <input type="checkbox"/> 277 <input type="checkbox"/> 150 <input checked="" type="checkbox"/> 480 <input type="checkbox"/> 100 <input type="checkbox"/> MT	ARM MOUNT <input checked="" type="checkbox"/> 1 STREET LIGHTING ARM MOUNT <input type="checkbox"/> ST23 (TO FIT OVER 2 3/8" O.D. ARM) ADJUSTABLE KNUCKLE <input type="checkbox"/> NKLE23 (TO FIT OVER 2 3/8" O.D.) <input type="checkbox"/> NKLE27 (TO FIT OVER 2 7/8" O.D.) WALL MOUNT <input type="checkbox"/> WM	STANDARD TEXTURED FINISH <input type="checkbox"/> BLACK RAL-9005-T <input type="checkbox"/> WHITE RAL-9003-T <input type="checkbox"/> GREY RAL-7004-T <input type="checkbox"/> DRK BRONZE RAL-8019-T <input type="checkbox"/> GREEN RAL-6005-T FOR SMOOTH FINISH REMOVE SUFFIX "T" (EXAMPLE: RAL-5500) SEE WEBSITE FOR ADJUSTMENT LOCATIONS	<input type="checkbox"/> CLEAR POLYCARBONATE DIFFUSER LEX <input type="checkbox"/> HOUSE SIDE SHIELD HS <input type="checkbox"/> PHOTO CELL + VOLTAGE (EXAMPLE: PC120V) PC+V <input type="checkbox"/> TWIST LOCK PHOTO CELL+VOLTAGE (EXAMPLE TPC120V) TPC+V <input type="checkbox"/> TWIST LOCK RECEPTACLE ONLY TPR <input type="checkbox"/> SINGLE FUSE (120V., 277V) SF <input type="checkbox"/> DOUBLE FUSE (208V., 240V) DF <input type="checkbox"/> TAMPER PROOF TP
		METAL HALIDE UNITS ONLY USE ED28 LAMP FOR 400 W. USE MEDIUM BASE LAMP FOR 100 W.	SEE ACCESSORIES SECTION FOR ST23 AND NKLE DETAILS		

SNTS 5"



5" SQUARE STRAIGHT STEEL

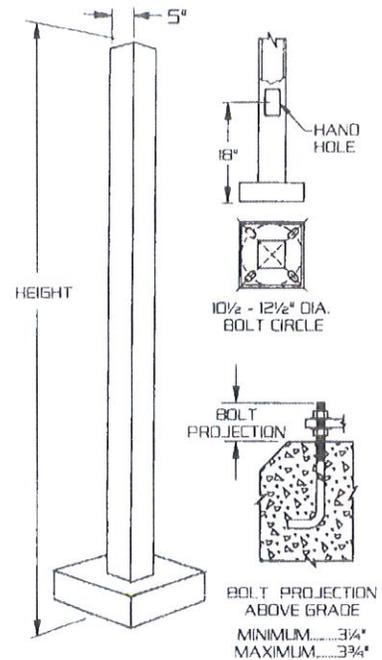
SPECIFICATIONS

- SHAFT:** 5" SQUARE, FABRICATED FROM HIGH GRADE STRUCTURAL STEEL TUBE. SHAFT CONFORMS TO ASTM-A-501-68 SPECIFICATIONS. MEETS OR EXCEEDS MINIMUM YIELD STRENGTH OF 46,000 P.S.I. WALL THICKNESS 11 GA. (.120 WALL) OR 7 GA. (.160 WALL) AS SPECIFIED. REINFORCED HAND HOLE IS FURNISHED WITH COVER. SHAFT IS FURNISHED WITH GROUND LUG LOCATED INSIDE POLE ON WALL OPPOSITE HAND HOLE.
- BASE PLATE:** FABRICATED FROM STRUCTURAL QUALITY HOT ROLLED STEEL. MEETS OR EXCEEDS MINIMUM YIELD STRENGTH OF 36,000 P.S.I. BASE TELESCOPES AND IS CIRCUMFERENTIALLY WELDED TO POLE SHAFT. SLOTTED BOLT HOLES PROVIDE 1" FLEXIBILITY ON EITHER SIDE OF BOLT CIRCLE CENTERLINE.
- ANCHORAGE:** (4) ANCHOR BOLTS FABRICATED FROM HOT ROLLED STEEL BAR. MINIMUM YIELD STRENGTH OF 50,000 P.S.I. BOLTS HAVE "L" BEND ON ONE END AND ARE THREADED ON THE OTHER END. BOLTS ARE FULLY GALVANIZED AND ARE FURNISHED WITH TWO NUTS AND TWO WASHERS.
- BASE COVER:** FABRICATED FROM HEAVY GAUGE QUALITY CARBON STEEL. TWO PIECE COVER CONCEALS BASE.
- FINISH:** FOUR (4) STAGE FINISH PROCESS IS TOPPED BY TWO (2) COLOR COATS OF ULTRAVIOLET RESISTANT ACRYLIC ENAMEL. THE UNIQUE SURFACE PREPARATION PROCESS INCLUDES TWO (2) CLEANING AND TWO (2) PRIME COATS WHICH PROVIDE A RUST FREE SUBSTRATE PRIOR TO APPLICATION OF THE FINISH COATS.

SNTS SERIES

ENGINEERING DATA Maximum EPA - Square Feet

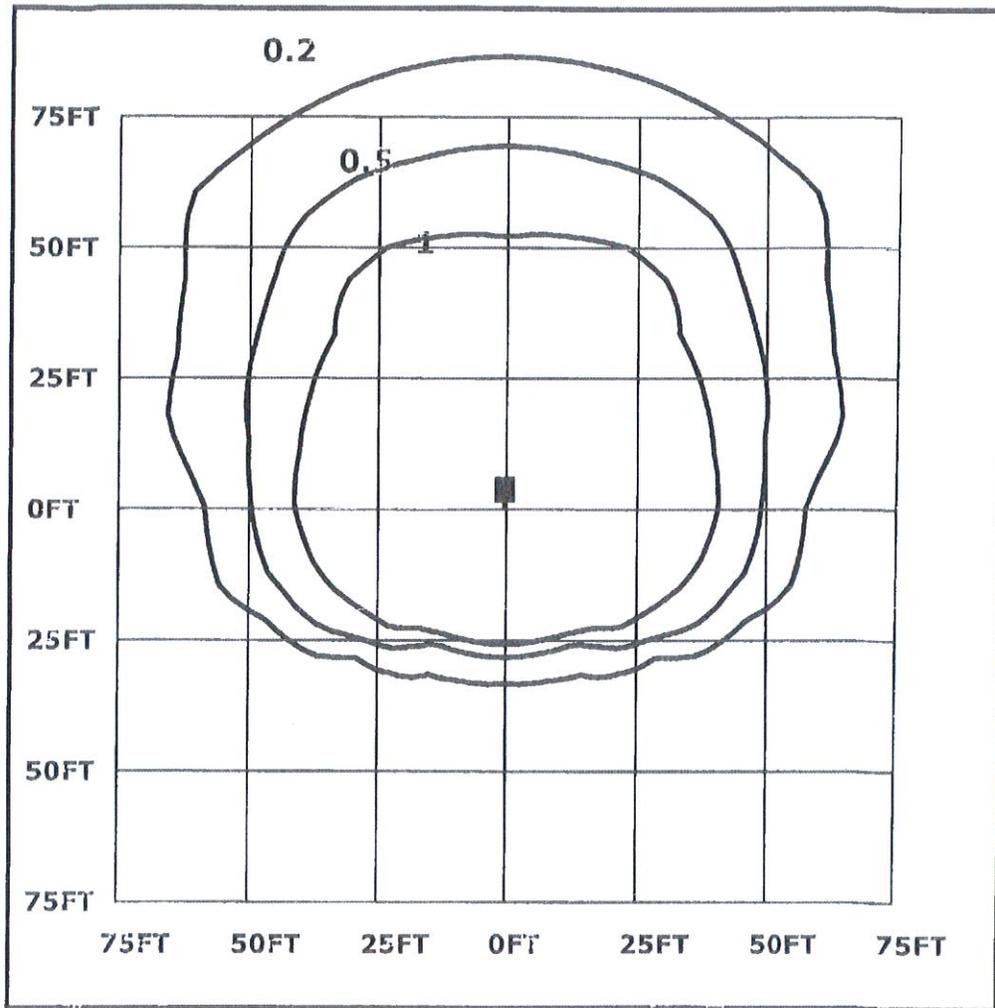
Catalog Number	Maximum Fixt. wgt.	100 MPH	90 MPH	80 MPH	70 MPH
SNTS 185-11	400	10.9	14.5	20.2	27.0
SNTS 205-11	400	8.6	12.0	16.6	23.3
SNTS 205-7	450	15.7	19.2	25.1	31.2
SNTS 255-11	400	5.1	6.5	9.8	14.6
SNTS 255-7	400	9.4	12.4	17.0	23.8
SNTS 305-11	350	N/A	2.8	5.7	7.5
SNTS 305-7	375	5.6	8.7	12.1	18.2
SNTS 355-7	350	2.5	5.2	9.3	14.9



All above design calculations are based on sustained wind forces plus additional 1.3 wind gust
(Example: Pole rated at 80 MPH withstands 104 MPH gusts)

MODEL NO. : SNTS	POLES	MOUNTING	FINISH	OPTIONS
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MODEL NO. : SNTS	POLES	MOUNTING	FINISH	OPTIONS																																				
	<table border="1"> <thead> <tr> <th>POLE HEIGHT</th> <th>WALL THICKNESS</th> <th>BOLT CIRCLE</th> <th>ANCHORAGE</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> 185-11</td> <td>18'</td> <td>11</td> <td>11 1/2" 1"X36"X4'</td> </tr> <tr> <td><input type="checkbox"/> 205-11</td> <td>20'</td> <td>11</td> <td>11 1/2" 1"X36"X4'</td> </tr> <tr> <td><input type="checkbox"/> 205-7</td> <td>20'</td> <td>7</td> <td>11 1/2" 1"X36"X4'</td> </tr> <tr> <td><input type="checkbox"/> 255-11</td> <td>25'</td> <td>11</td> <td>11 1/2" 1"X36"X4'</td> </tr> <tr> <td><input type="checkbox"/> 255-7</td> <td>25'</td> <td>7</td> <td>11 1/2" 1"X36"X4'</td> </tr> <tr> <td><input checked="" type="checkbox"/> 305-11</td> <td>30'</td> <td>11</td> <td>11 1/2" 1"X36"X4'</td> </tr> <tr> <td><input type="checkbox"/> 305-7</td> <td>30'</td> <td>7</td> <td>11 1/2" 1"X36"X4'</td> </tr> <tr> <td><input type="checkbox"/> 355-7</td> <td>35'</td> <td>7</td> <td>11 1/2" 1"X36"X4'</td> </tr> </tbody> </table>	POLE HEIGHT	WALL THICKNESS	BOLT CIRCLE	ANCHORAGE	<input type="checkbox"/> 185-11	18'	11	11 1/2" 1"X36"X4'	<input type="checkbox"/> 205-11	20'	11	11 1/2" 1"X36"X4'	<input type="checkbox"/> 205-7	20'	7	11 1/2" 1"X36"X4'	<input type="checkbox"/> 255-11	25'	11	11 1/2" 1"X36"X4'	<input type="checkbox"/> 255-7	25'	7	11 1/2" 1"X36"X4'	<input checked="" type="checkbox"/> 305-11	30'	11	11 1/2" 1"X36"X4'	<input type="checkbox"/> 305-7	30'	7	11 1/2" 1"X36"X4'	<input type="checkbox"/> 355-7	35'	7	11 1/2" 1"X36"X4'	<input type="checkbox"/> 2 3/8"X4" TENON PT23 <input type="checkbox"/> 2 7/8"X4" TENON PT27 <input type="checkbox"/> OTHER TENON MT _____ DRILL MOUNT <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2-180 <input type="checkbox"/> 2-90 <input type="checkbox"/> 3-90 <input type="checkbox"/> 4-90 <input type="checkbox"/> 3-120 3-120 REQUIRES PT27 AND T3120 ADAPTER	STANDARD TEXTURED FINISH <input type="checkbox"/> BLACK RAL-9005-T <input type="checkbox"/> WHITE RAL-9003-T <input type="checkbox"/> GREY RAL-7004-T <input type="checkbox"/> DRK BRONZE RAL-8019-T <input type="checkbox"/> GREEN RAL-6005-T <input type="checkbox"/> PRIME PAINT PP <input type="checkbox"/> GALVANIZED GLV <input type="checkbox"/> THERMOSET POLYESTER POWDER PDR FOR SMOOTH FINISH REPLY SUFFIX 1 (EXAMPLE: 1-7L-1-00) EX. *BB-ITE PDR *SUFFIX 1, CC, 1,	<input type="checkbox"/> DUPLEX RECEPTACLE DUP <input type="checkbox"/> GFI RECEPTACLE GFI <input type="checkbox"/> 3 WAY ADAPTER T3120 <input type="checkbox"/> 1/2" COUPLING CPLN1/2 <input type="checkbox"/> 3/4" COUPLING CPLN3/4 <input type="checkbox"/> 2" COUPLING CPLN2 (SPECIFY COUPLING LOCATION) SEE ACCESSORIES SECTION FOR OTHER OPTIONS
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LAYOUT SUMMARY

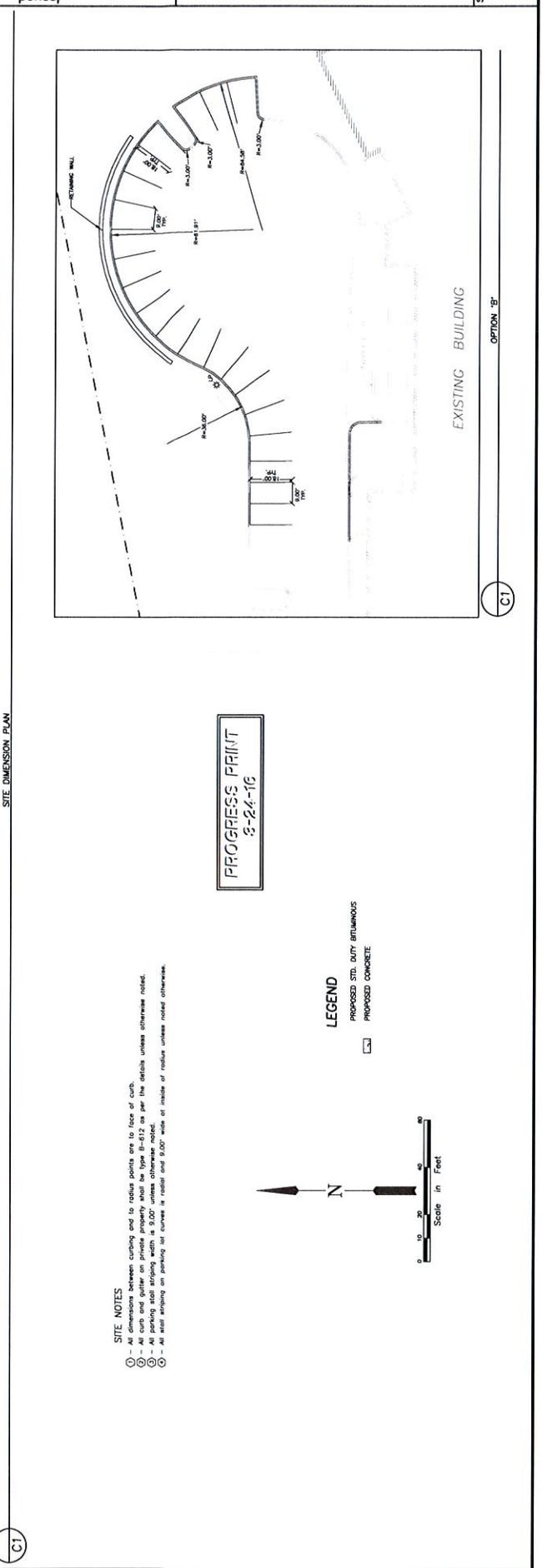
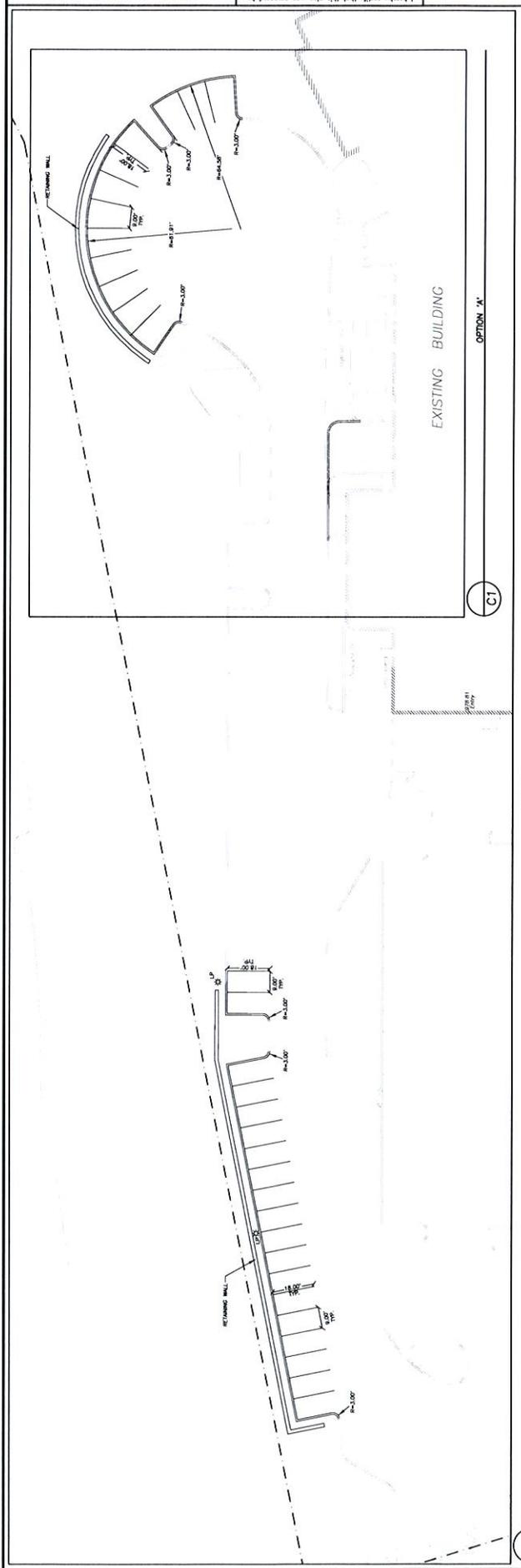
PRODUCT: Versalux
 FILE: VRS-4-40M.IES
 HEIGHT: 30 FT
 INITIAL LUMENS: 36000
 LLF: 1

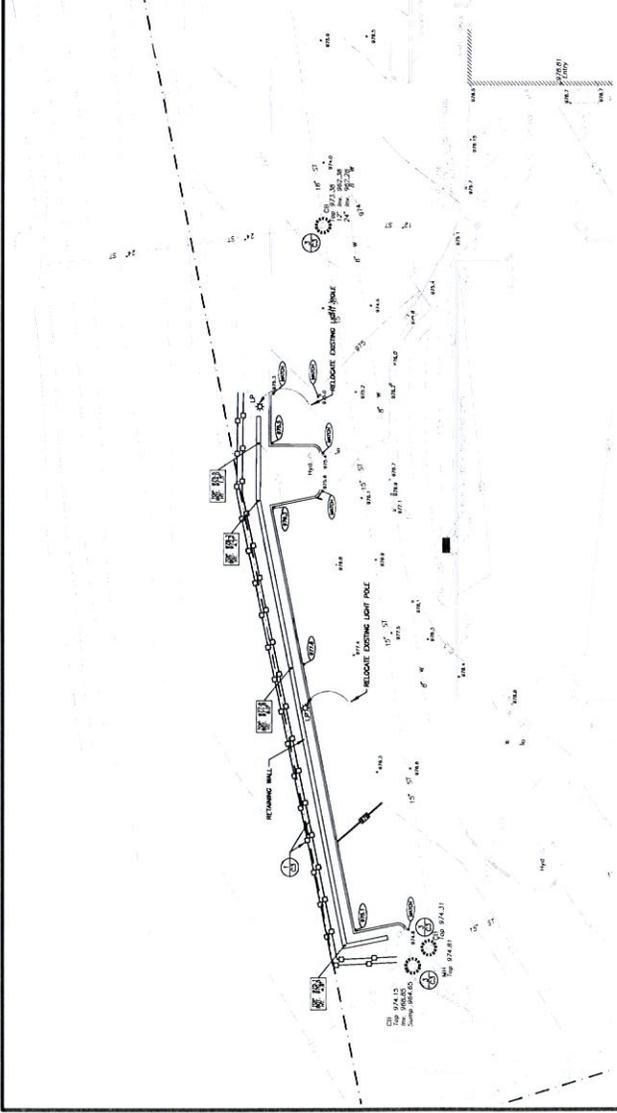
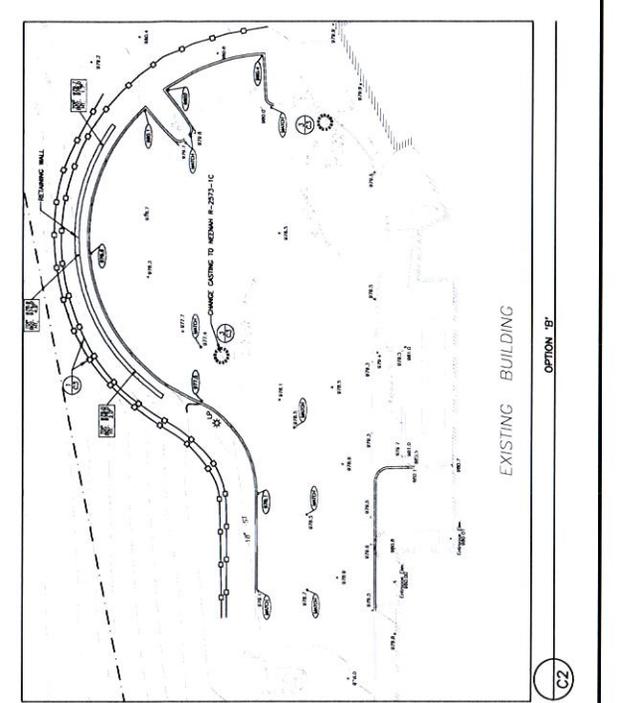
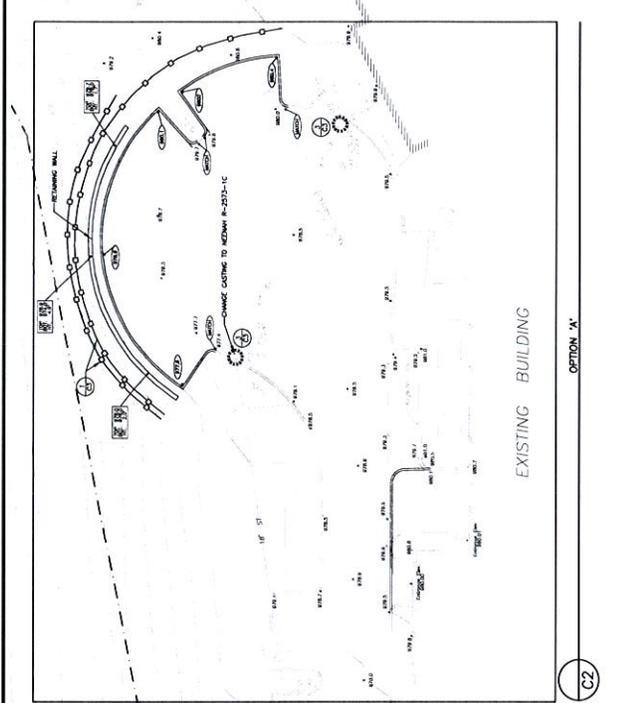
PERFORMANCE

DOWNWARD EFFICIENCY: 64.87%
 UPLIGHT (ABOVE 90°)*: 0.00%
 HIGH ANGLE LIGHT (80°-90°)*: .68%
 * As Percent of Lamp Lumens

DESCRIPTION

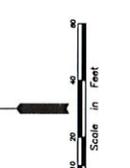
Type IV Horizontal Segmented Reflector





GRADING NOTES
 1 - All elevations shown are to final surfaces.
EROSION CONTROL NOTES
 1 - All erosion control measures shown shall be installed prior to grading operations and maintained until all areas disturbed have been restored.
 2 - Sweep paved public streets as necessary where construction sediment has been deposited.
 3 - All erosion control measures shall be installed and maintained until the construction activity in that portion of the site has temporarily or permanently ceased.
 4 - Temporary soil stockpiles must have silt fence around them.
 5 - Excess concrete/water from concrete trucks shall be disposed of in a portable washout.
 6 - Concrete wash or washout of all C-enclosed areas.

- LEGEND**
- PROPOSED STD. DUTY BITUMINOUS
 - PROPOSED CONCRETE
 - PROPOSED CONTOUR
 - PROPOSED ELEVATION
 - SILT FENCE
 - INLET PROTECTION DEVICE
 - EXISTING CONTOUR
 - EXISTING ELEVATION



SPECIFICATIONS

GENERAL

1. General:
 - A. Review, verify, and note any other specifications or requirements to be added to the Plans.
 - B. Verify that all materials, products, and methods of construction are approved by the Engineer.
 - C. Verify that all materials, products, and methods of construction are approved by the Engineer.
 - D. Verify that all materials, products, and methods of construction are approved by the Engineer.
 - E. Verify that all materials, products, and methods of construction are approved by the Engineer.
 - F. Verify that all materials, products, and methods of construction are approved by the Engineer.
 - G. Verify that all materials, products, and methods of construction are approved by the Engineer.
 - H. Verify that all materials, products, and methods of construction are approved by the Engineer.
 - I. Verify that all materials, products, and methods of construction are approved by the Engineer.

SITE CLEARING

1. GENERAL:
 - A. Remove trees, stumps, and other vegetation or obstructions to be removed, to permit installation of improvements shown on the Plans.
 - B. Remove all existing structures, foundations, and other improvements to be removed, to permit installation of improvements shown on the Plans.
 - C. Remove all existing structures, foundations, and other improvements to be removed, to permit installation of improvements shown on the Plans.
 - D. Remove all existing structures, foundations, and other improvements to be removed, to permit installation of improvements shown on the Plans.
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GRASSING, EROSION CONTROL, AND TURF ESTABLISHMENT

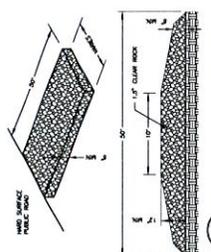
1. GENERAL:
 - A. All grassing, erosion control, and turf establishment shall be in accordance with the Minnesota, Wisconsin, and other applicable requirements of the Minnesota Department of Transportation, Wisconsin Department of Transportation, and other applicable agencies.
 - B. All grassing, erosion control, and turf establishment shall be in accordance with the Minnesota, Wisconsin, and other applicable requirements of the Minnesota Department of Transportation, Wisconsin Department of Transportation, and other applicable agencies.
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BITUMINOUS PAVEMENT

1. GENERAL:
 - A. Provide bituminous pavement in accordance with the Minnesota, Wisconsin, and other applicable requirements of the Minnesota Department of Transportation, Wisconsin Department of Transportation, and other applicable agencies.
 - B. Provide bituminous pavement in accordance with the Minnesota, Wisconsin, and other applicable requirements of the Minnesota Department of Transportation, Wisconsin Department of Transportation, and other applicable agencies.
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PORTLAND CEMENT CONCRETE PAVEMENT

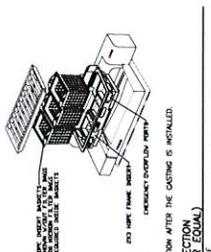
1. GENERAL:
 - A. Provide portland cement concrete pavement in accordance with the Minnesota, Wisconsin, and other applicable requirements of the Minnesota Department of Transportation, Wisconsin Department of Transportation, and other applicable agencies.
 - B. Provide portland cement concrete pavement in accordance with the Minnesota, Wisconsin, and other applicable requirements of the Minnesota Department of Transportation, Wisconsin Department of Transportation, and other applicable agencies.
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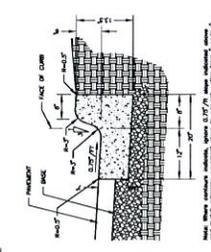
1 SILT FENCE
NO SCALE



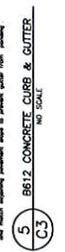
2 ROCK CONSTRUCTION ENTRANCE
NO SCALE



3 INLET PROTECTION (INFRASAFE OR EQUAL)
NO SCALE



4 PAVEMENT SECTION
NO SCALE



5 B612 CONCRETE CURB & GUTTER
NO SCALE

PROGRESS PRINT
3-24-16