



URBAN DESIGN COMMISSION APPLICATION CITY OF MADISON

This form may also be completed online at:
<http://www.cityofmadison.com/planning/documents/UDCApplication.pdf>

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

Please complete all sections of the application, including the desired meeting date and the type of action requested.

Date Submitted: <u>11-30-2016</u>	☐ Informational Presentation
UDC Meeting Date: <u>DECEMBER 14TH</u>	☒ Initial Approval
Combined Schedule Plan Commission Date (if applicable): _____	☒ Final Approval

1. Project Address: 719 W. BADGER ROAD UDD No. 7
 Project Title (if any): BURGER KING

2. This is an application for (Check all that apply to this UDC application):

☐ New Development ☒ Alteration to an Existing or Previously-Approved Development

A. Project Type:

- ☒ Project in an Urban Design District* (public hearing-\$300 fee)
☐ Project in the Downtown Core District (DC) or Urban Mixed-Use District (UMX) (\$150 fee, Minor Exterior Alterations)
☐ Suburban Employment Center (SEC) or Campus Institutional District (CI) or Employment Campus District (EC)
☐ Planned Development (PD)
☐ General Development Plan (GDP)
☐ Specific Implementation Plan (SIP)
☐ Planned Multi-Use Site or Planned Residential Complex

B. Signage:

- ☐ Comprehensive Design Review* (public hearing-\$300 fee) ☐ Street Graphics Variance* (public hearing-\$300 fee)
☐ Signage Exception(s) in an Urban Design District (public hearing-\$300 fee)

C. Other:

☐ Please specify: _____

3. Applicant, Agent & Property Owner Information:

Applicant Name: DOUGLAS PAHL
 Street Address: 116 KING ST.
 Telephone: (608) 204-7464 Fax: () _____

Company: ARO EBERLE ARCHITECTS
 City/State: MADISON, WI Zip: 53703
 Email: Pahl@AroEberle.com

Project Contact Person: ABOVE
 Street Address: _____
 Telephone: () _____ Fax: () _____

Company: _____
 City/State: _____ Zip: _____
 Email: _____

Project Owner (if not applicant): PAUL DOBBEL
 Street Address: 1797 YELK RD.
 Telephone: (608) 825-4930 Fax: () _____

City/State: MARSHALL, WI Zip: 53557
 Email: pdoebel@y4hou.com

4. Applicant Declarations:

A. Prior to submitting this application, the applicant is required to discuss the proposed project with Urban Design Commission staff. This application was discussed with AL MARTIN on 11-10-2016.
(name of staff person) (date of meeting)

B. The applicant attests that all required materials are included in this submittal and understands that if any required information is not provided by the application deadline, the application will not be placed on an Urban Design Commission agenda for consideration.

Name of Applicant: DOUGLAS PAHL

Relationship to Property: ARCHITECT / DESIGNER

Authorized Signature: [Signature]

Date: 11-30-2016

AGENDA ITEM #
 LEGISTAR # 75293
 ALD. DIST. 14

NOV 30 2016
 8:50 A.M.
 Planning & Community
 & Economic Development



116 King St, Suite 202
Madison, WI 53703
(608) 204-7464

Al Martin
Urban Design Commission

November 30, 2016

Dear Mr. Martin,

Southern Wisconsin Foods LLC. Would like to renovate their Burger King Restaurant at 719 West Badger Road in Madison, WI. The renovation project includes improvements to the interior dining room spaces, service line, kitchen, and restroom spaces. Exterior improvements to the entire exterior façade are also planned, which include all new materials, higher parapets to shield mechanical equipment, and new LED exterior lighting. The project includes a 136 S.F. addition to the East side of the building to accommodate additional storage for the restaurant.

Aro Eberle Architects has completed 6 other renovations of Burger King Restaurants in Wisconsin for Southern Wisconsin Foods. Each has been successful in transforming outdated restaurants that needed renovation into new looking restaurants bearing the updated Burger King image.

Our proposal packet includes images of the current restaurant as well as colored elevations of the proposed new look. Please don't hesitate to request additional information if needed. We can provide before and after images of the previously renovated restaurants if desired.

Thank you,
Doug Pahl, AIA

A handwritten signature in black ink that reads "DPahl". The signature is stylized and appears to be written with a marker or thick pen.

DESCRIPTION

The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated and UL/cUL Listed for wet locations.

SPECIFICATION FEATURES

Construction

Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, die-cast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

Optics

Patented, high-efficiency injection-molded AccuLED Optics technology. Optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT 70 CRI. Optional 6000K CCT and 3000K CCT.

Electrical

LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Standard with 0-10V dimming. Shipped standard with Eaton proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 530mA and 700mA drive currents.

Mounting

STANDARD ARM MOUNT: Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during assembly. When mounting two or more luminaires at 90° and 120° apart, the EA extended arm may be required. Refer to the arm mounting requirement table.

Round pole adapter included.

For wall mounting, specify wall mount bracket option. 3G vibration rated. **QUICK MOUNT ARM:** Arm is bolted directly to the pole and the fixture slides onto the quick mount arm and is secured via a single fastener, facilitating quick and easy installation. The versatile, patent pending, quick mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8". Removal of the door on the quick mount arm enables wiring of the fixture without having to access the driver compartment. A knock-out enables round pole mounting.

Finish

Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is powder coated black. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.

Warranty

Five-year warranty.



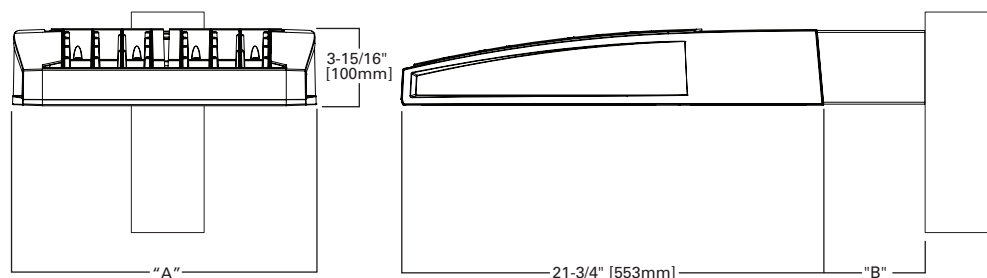
GLEON GALLEON LED

1-10 Light Squares

Solid State LED

AREA/SITE LUMINAIRE

DIMENSIONS



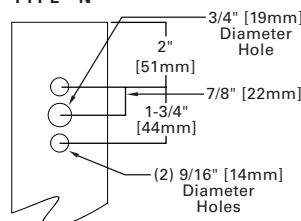
DIMENSION DATA

Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length ¹	Weight with Arm (lbs.)	EPA with Arm ² (Sq. Ft.)
1-4	15-1/2" (394mm)	7" (178mm)	10" (254mm)	33 (15.0 kgs.)	0.96
5-6	21-5/8" (549mm)	7" (178mm)	10" (254mm)	44 (20.0 kgs.)	1.00
7-8	27-5/8" (702mm)	7" (178mm)	13" (330mm)	54 (24.5 kgs.)	1.07
9-10	33-3/4" (857mm)	7" (178mm)	16" (406mm)	63 (28.6 kgs.)	1.12

NOTES: 1. Optional arm length to be used when mounting two fixtures at 90° on a single pole. 2. EPA calculated with optional arm length.

DRILLING PATTERN

TYPE "N"



CERTIFICATION DATA

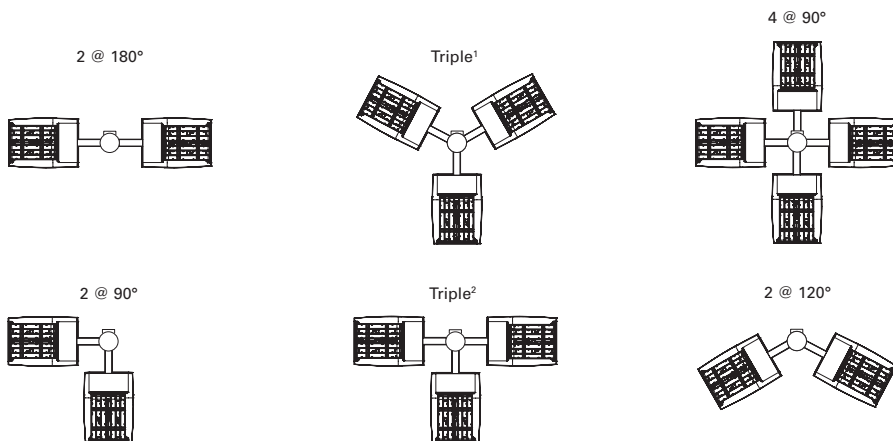
UL/cUL Wet Location Listed
ISO 9001
LM79 / LM80 Compliant
3G Vibration Rated
IP66 Rated
DesignLights Consortium™ Qualified*

ENERGY DATA

Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120V-277V 50/60Hz
347V & 480V 60Hz
-40°C Min. Temperature
40°C Max. Temperature
50°C Max. Temperature (HA Option)

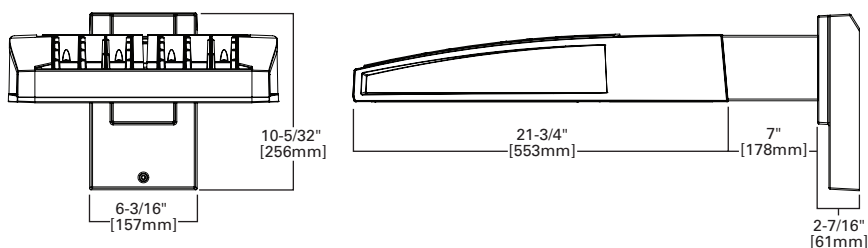
ARM MOUNTING REQUIREMENTS

Configuration	90° Apart	120° Apart
GLEON-AE-01	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-02	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-03	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-04	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-05	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AE-06	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AE-07	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AE-08	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AE-09	16" Extended Arm (Required)	16" Extended Arm (Required)
GLEON-AE-10	16" Extended Arm (Required)	16" Extended Arm (Required)

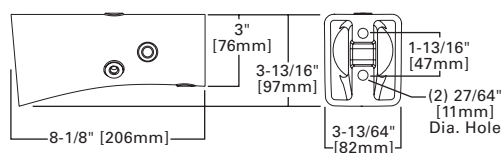


NOTES: 1 Round poles are 3 @ 120°. Square poles are 3 @ 90°. 2 Round poles are 3 @ 90°.

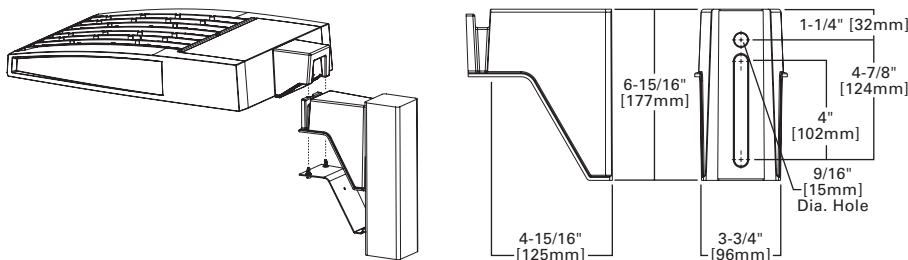
STANDARD WALL MOUNT



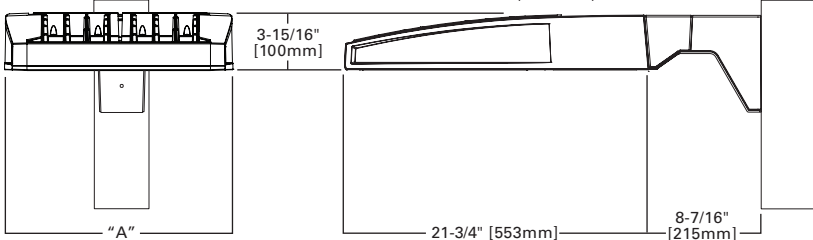
MAST ARM MOUNT



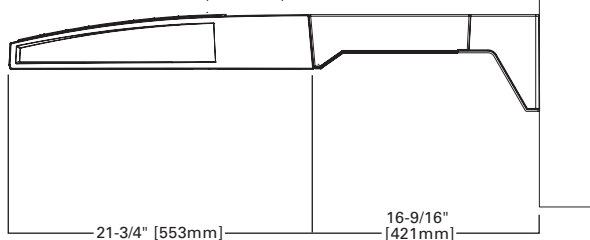
QUICK MOUNT ARM (INCLUDES FIXTURE ADAPTER)



QM Quick Mount Arm (Standard)



QMEA Quick Mount Arm (Extended)

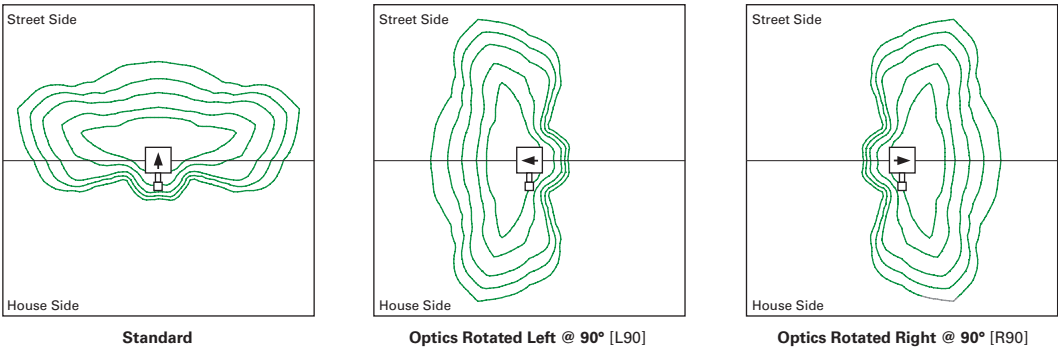


QUICK MOUNT ARM DATA

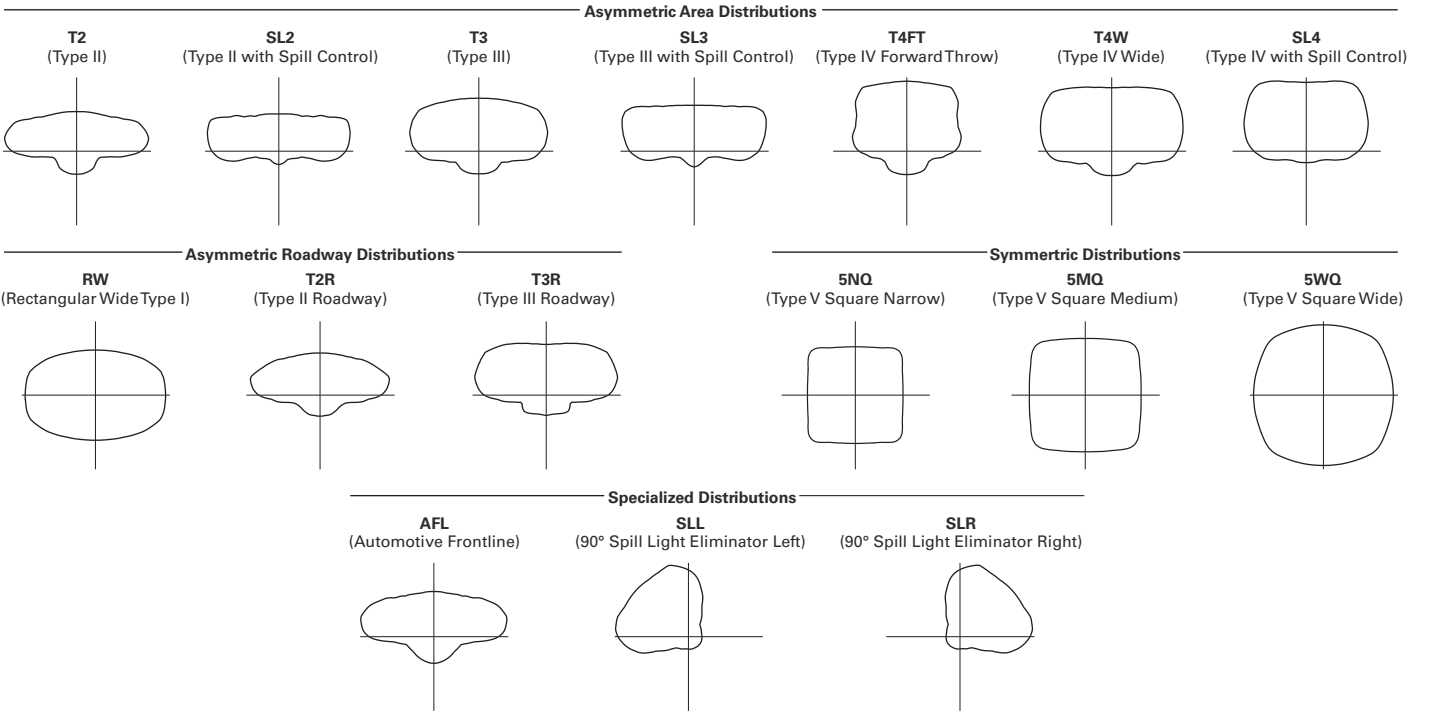
Number of Light Squares ^{1,2}	"A" Width	Weight with QM Arm (lbs.)	Weight with QMEA Arm (lbs.)	EPA (Sq. Ft.)
1-4	15-1/2" (394mm)	35 (15.91 kgs.)	38 (17.27 kgs.)	1.11
5-6 ³	21-5/8" (549mm)	46 (20.91 kgs.)	49 (22.27 kgs.)	
7-8	27-5/8" (702mm)	56 (25.45 kgs.)	59 (26.82 kgs.)	

NOTES: 1 QM option available with 1-8 light square configurations. 2 QMEA option available with 1-6 light square configurations. 3 QMEA arm to be used when mounting two fixtures at 90° on a single pole.

OPTIC ORIENTATION



OPTICAL DISTRIBUTIONS



NOMINAL POWER AND LUMENS (1A)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Drive Current		1A	1A	1A	1A	1A	1A	1A	1A	1A	1A
Nominal Power (Watts)		56	107	157	213	264	315	370	421	475	528
Input Current @ 120V (A)		0.47	0.90	1.31	1.79	2.21	2.64	3.09	3.51	3.96	4.41
Input Current @ 208V (A)		0.28	0.51	0.74	1.02	1.25	1.48	1.76	1.99	2.22	2.50
Input Current @ 240V (A)		0.25	0.45	0.65	0.90	1.10	1.30	1.55	1.75	1.95	2.20
Input Current @ 277V (A)		0.23	0.41	0.59	0.82	1.00	1.18	1.41	1.59	1.77	2.00
Optics											
T2	Lumens	5,272	10,303	15,373	20,313	25,168	30,118	35,618	40,357	45,018	49,842
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5
T2R	Lumens	5,597	10,938	16,321	21,565	26,719	31,974	37,813	42,844	47,792	52,914
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G4	B4-U0-G5
T3	Lumens	5,374	10,501	15,669	20,704	25,652	30,697	36,303	41,134	45,884	50,802
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
T3R	Lumens	5,493	10,735	16,017	21,164	26,222	31,379	37,110	42,048	46,904	51,930
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4FT	Lumens	5,405	10,562	15,760	20,824	25,801	30,875	36,514	41,372	46,150	51,096
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	Lumens	5,335	10,426	15,556	20,555	25,468	30,476	36,042	40,838	45,554	50,436
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SL2	Lumens	5,263	10,285	15,347	20,278	25,124	30,066	35,556	40,288	44,940	49,756
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
SL3	Lumens	5,373	10,500	15,667	20,701	25,649	30,693	36,298	41,128	45,878	50,794
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL4	Lumens	5,105	9,976	14,886	19,669	24,370	29,163	34,488	39,078	43,591	48,262
	BUG Rating	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
5NQ	Lumens	5,542	10,830	16,160	21,352	26,455	31,658	37,439	42,421	47,320	52,392
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4
5MQ	Lumens	5,644	11,029	16,457	21,745	26,942	32,241	38,128	43,202	48,191	53,356
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
5WQ	Lumens	5,659	11,059	16,501	21,803	27,014	32,327	38,230	43,317	48,320	53,498
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
SLL/SLR	Lumens	4,722	9,227	13,767	18,191	22,539	26,971	31,897	36,141	40,315	44,635
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
RW	Lumens	5,492	10,732	16,014	21,159	26,216	31,372	37,101	42,038	46,893	51,918
	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
AFL	Lumens	5,512	10,771	16,072	21,236	26,311	31,486	37,236	42,191	47,063	52,107
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4

* Nominal data for 4000K CCT.

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000
50°C*	> 90%	> 170,000

* 50°C lumen maintenance data applies to 530mA and 700mA drive currents.

NOMINAL POWER AND LUMENS (700MA)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Drive Current		700mA	700mA	700mA	700mA	700mA	700mA	700mA	700mA	700mA	700mA
Nominal Power (Watts)		38	72	105	138	176	210	243	276	314	348
Input Current @ 120V (A)		0.32	0.59	0.86	1.14	1.45	1.72	2	2.28	2.58	2.86
Input Current @ 208V (A)		0.21	0.36	0.51	0.67	0.87	1.02	1.18	1.34	1.53	1.69
Input Current @ 240V (A)		0.19	0.32	0.45	0.59	0.77	0.90	1.04	1.18	1.35	1.49
Input Current @ 277V (A)		0.20	0.29	0.40	0.51	0.69	0.80	0.91	1.02	1.20	1.31
Optics											
T2	Lumens	3,854	7,531	11,237	14,847	18,395	22,013	26,033	29,497	32,904	36,430
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
T2R	Lumens	4,091	7,995	11,929	15,762	19,529	23,370	27,638	31,316	34,932	38,676
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
T3	Lumens	3,928	7,676	11,453	15,133	18,750	22,437	26,534	30,065	33,537	37,132
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
T3R	Lumens	4,015	7,846	11,707	15,469	19,166	22,936	27,124	30,733	34,283	37,957
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
T4FT	Lumens	3,951	7,720	11,519	15,221	18,858	22,567	26,688	30,240	33,732	37,347
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	Lumens	3,900	7,620	11,370	15,024	18,615	22,276	26,343	29,849	33,296	36,864
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL2	Lumens	3,847	7,518	11,217	14,821	18,364	21,975	25,988	29,447	32,847	36,368
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
SL3	Lumens	3,927	7,675	11,451	15,131	18,747	22,434	26,531	30,061	33,533	37,126
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
SL4	Lumens	3,731	7,292	10,880	14,376	17,812	21,315	25,208	28,562	31,861	35,275
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5	B2-U0-G5	B3-U0-G5
5NQ	Lumens	4,051	7,916	11,811	15,606	19,336	23,139	27,365	31,006	34,587	38,294
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3
5MQ	Lumens	4,125	8,062	12,029	15,894	19,692	23,565	27,869	31,577	35,224	38,999
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
5WQ	Lumens	4,136	8,083	12,061	15,936	19,745	23,628	27,943	31,661	35,318	39,103
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
SLL/SLR	Lumens	3,451	6,744	10,063	13,296	16,474	19,714	23,314	26,416	29,467	32,625
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
RW	Lumens	4,014	7,844	11,704	15,465	19,162	22,930	27,118	30,726	34,274	37,948
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
AFL	Lumens	4,029	7,873	11,747	15,522	19,231	23,014	27,216	30,838	34,399	38,086
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3

* Nominal data for 4000K CCT.

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000
50°C*	> 90%	> 170,000

* 50°C lumen maintenance data applies to 530mA and 700mA drive currents.

NOMINAL POWER AND LUMENS (530MA)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Drive Current		530mA	530mA	530mA	530mA	530mA	530mA	530mA	530mA	530mA	530mA
Nominal Power (Watts)		30	54	80	105	130	159	184	209	234	259
Input Current @ 120V (A)		0.25	0.45	0.66	0.86	1.07	1.32	1.52	1.72	1.93	2.14
Input Current @ 208V (A)		0.17	0.28	0.39	0.51	0.63	0.78	0.9	1.02	1.14	1.26
Input Current @ 240V (A)		0.17	0.25	0.35	0.45	0.55	0.70	0.80	0.90	1.00	1.10
Input Current @ 277V (A)		0.19	0.24	0.32	0.40	0.49	0.64	0.72	0.80	0.89	0.98
Optics											
T2	Lumens	3,079	6,017	8,978	11,862	14,697	17,588	20,800	23,567	26,289	29,106
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4
T2R	Lumens	3,269	6,388	9,531	12,593	15,603	18,672	22,082	25,020	27,909	30,900
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4
T3	Lumens	3,138	6,133	9,150	12,091	14,980	17,926	21,200	24,021	26,795	29,667
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
T3R	Lumens	3,208	6,269	9,354	12,359	15,313	18,325	21,671	24,555	27,390	30,326
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
T4FT	Lumens	3,156	6,168	9,203	12,161	15,067	18,030	21,323	24,160	26,950	29,839
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
T4W	Lumens	3,116	6,088	9,084	12,004	14,872	17,797	21,047	23,848	26,602	29,453
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
SL2	Lumens	3,074	6,006	8,962	11,842	14,672	17,558	20,764	23,527	26,244	29,056
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
SL3	Lumens	3,138	6,132	9,149	12,089	14,978	17,924	21,197	24,018	26,791	29,662
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
SL4	Lumens	2,981	5,826	8,693	11,486	14,231	17,030	20,140	22,820	25,456	28,184
	BUG Rating	B0-U0-G1	B1-U0-G2	B1-U0-G3	B1-U0-G3	B1-U0-G3	B2-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5
5NQ	Lumens	3,236	6,324	9,437	12,469	15,449	18,487	21,863	24,773	27,634	30,595
	BUG Rating	B1-U0-G0	B2-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2
5MQ	Lumens	3,296	6,441	9,610	12,698	15,733	18,828	22,266	25,229	28,142	31,158
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3
5WQ	Lumens	3,305	6,458	9,636	12,732	15,775	18,878	22,325	25,296	28,217	31,241
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
SLL/SLR	Lumens	2,757	5,388	8,040	10,623	13,162	15,751	18,627	21,105	23,543	26,066
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4
RW	Lumens	3,207	6,267	9,351	12,356	15,309	18,320	21,666	24,549	27,384	30,319
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3
AFL	Lumens	3,219	6,290	9,385	12,401	15,365	18,387	21,745	24,638	27,484	30,429
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3

* Nominal data for 4000K CCT.

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000
50°C*	> 90%	> 170,000

* 50°C lumen maintenance data applies to 530mA and 700mA drive currents.

ORDERING INFORMATION

Sample Number: GLEON-AE-04-LED-E1-T3-GM-700

Product Family ^{1,2}	Light Engine	Number of Light Squares ³	Lamp Type	Voltage	Distribution	Color	Mounting
GLEON=Galleon	AE=1A Drive Current	01=1 02=2 03=3 04=4 05=5 06=6 07=7 ⁴ 08=8 ⁴ 09=9 ⁵ 10=10 ⁵	LED=Solid State Light Emitting Diodes	E1=(120-277V) 347=347V ⁶ 480=480V ^{6,7}	T2=Type II T2R=Type II Roadway T3=Type III T3R=Type III Roadway T4FT=Type IV Forward Throw T4W=Type IV Wide 5NQ=Type V Narrow 5MQ=Type V Square Medium 5WQ=Type V Square Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I AFL=Automotive Frontline	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White	[Blank]=Arm for Round or Square Pole EA=Extended Arm ⁸ MA=Mast Arm Adapter ⁹ WM=Wall Mount QM=Quick Mount Arm (Standard Length) ¹⁰ QMEA=Quick Mount Arm (Extended Length) ¹¹
Options (Add as Suffix)					Accessories (Order Separately)		
2L=Two Circuits ^{12,13} 7030=70 CRI / 3000K ¹⁴ 8030=80 CRI / 3000K ¹⁵ 7050=70 CRI / 5000K ¹⁵ 7060=70 CRI / 6000K ¹⁴ 530=Drive Current Factory Set to 530mA ¹⁶ 700=Drive Current Factory Set to 700mA ¹⁶ P=Button Type Photocontrol (120, 208, 240 or 277V) PER7=NEMA 7-PIN Twistlock Photocontrol Receptacle R=NEMA Twistlock Photocontrol Receptacle HA=50°C High Ambient ^{13,17} MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height ^{18,19,20,21,22} MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height ^{18,19,20,21,22} MS/DIM-L40=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height ^{18,19,20,21} MS/DIM-L40W=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height (Wide Range) ^{18,19,20,21,25} MS/X-L08=Bi-Level Motion Sensor, Maximum 8' Mounting Height ^{18,19,20,21,22,26} MS/X-L20=Bi-Level Motion Sensor, 9' - 20' Mounting Height ^{18,19,20,21,23,26} MS/X-L40=Bi-Level Motion Sensor, 21' - 40' Mounting Height ^{18,19,20,21,24,26} MS/X-L40W=Bi-Level Motion Sensor, 21' - 40' Mounting Height (Wide Range) ^{18,19,20,21,25,26} MS-L08=Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height ^{18,19,20,21,22} MS-L20=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height ^{18,19,20,21,23} MS-L40=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height ^{18,19,20,21,24} MS-L40W=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height (Wide Range) ^{18,19,20,25} DIMRF-LW=LumaWatt Wireless Sensor, Wide Lens for 8' - 16' Mounting Height ²⁷ DIMRF-LN=LumaWatt Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height ²⁷ L90=Optics Rotated 90° Left R90=Optics Rotated 90° Right MT=Factory Installed Mesh Top TH=Tool-less Door Hardware LCF=Light Square Trim Plate Painted to Match Housing ²⁸ HSS=Factory Installed House Side Shield ²⁹ CE=CE Marking ³⁰					OA/RA1016=NEMA Photocontrol Multi-Tap - 105-285V OA/RA1027=NEMA Photocontrol - 480V OA/RA1201=NEMA Photocontrol - 347V OA/RA1013=Photocontrol Shorting Cap OA/RA1014=120V Photocontrol MA1252=10kV Surge Module Replacement MA1036-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon MA1037-XX=2 @ 180° Tenon Adapter for 2-3/8" O.D. Tenon MA1197-XX=3 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon MA1188-XX=4 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon MA1189-XX=2 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon MA1190-XX=3 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon MA1191-XX=2 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon MA1038-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon MA1039-XX=2 @ 180° Tenon Adapter for 3-1/2" O.D. Tenon MA1192-XX=3 @ 120° Tenon Adapter for 3-1/2" O.D. Tenon MA1193-XX=4 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon MA1194-XX=2 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon MA1195-XX=3 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon FSIR-100=Wireless Configuration Tool for Occupancy Sensor ³¹ GLEON-MT1=Field Installed Mesh Top for 1-4 Light Squares GLEON-MT2=Field Installed Mesh Top for 5-6 Light Squares GLEON-MT3=Field Installed Mesh Top for 7-8 Light Squares GLEON-MT4=Field Installed Mesh Top for 9-10 Light Squares GLEON-QM=Quick Mount Arm Kit ¹⁰ GLEON-QM-EA=Quick Mount Extended Length Arm Kit ¹¹ LS/HSS=Field Installed House Side Shield ^{28,32}		

NOTES:

- Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information.
- DesignLights Consortium™ Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
- Standard 4000K CCT and minimum 70 CRI.
- Not compatible with extended quick mount arm (QMEA).
- Not compatible with standard quick mount arm (QM) or extended quick mount arm (QMEA).
- Requires the use of a step down transformer when combined with MS/DIM, MS/X or DIMRF.
- Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
- May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table.
- Factory installed.
- Maximum 8 light squares.
- Maximum 6 light squares.
- 2L is not available with MS/X or MS/DIM at 347V or 480V. 2L in AE-02 through AE-04 requires a larger housing, normally used for AE-05 or AE-06. Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table.
- Not available with LumaWatt wireless sensors.
- Extended lead times apply. Use dedicated IES files for 3000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website.
- Extended lead times apply. For 8030, factor 7030 IES files x .92 (8% lumen loss). For 7050, use 7060 IES files.
- 1 Amp standard. Use dedicated IES files for 530mA and 700mA when performing layouts. These files are published on the Galleon luminaire product page on the website.
- 50°C lumen maintenance data applies to 530mA and 700mA drive currents.
- Consult factory for more information.
- Utilizes internal step-down transformer when 347V or 480V is selected.
- The FSIR-100 accessory is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
- Not available with HA option.
- Approximately 22' detection diameter at 8' mounting height.
- Approximately 40' detection diameter at 20' mounting height.
- Approximately 60' detection diameter at 40' mounting height.
- Approximately 100' detection diameter at 40' mounting height.
- Replace X with number of light squares operating in low output mode.
- LumaWatt wireless sensors are factory installed only requiring network components RF-EM-1, RF-GW-1 and RF-ROUT-1 in appropriate quantities. See www.eaton.com/lighting for LumaWatt application information.
- Not available with house side shield (HSS).
- Only for use with SL2, SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected.
- CE is not available with the DIMRF, MS, MS/X, MS/DIM, P, R or PER7 options. Available in 120-277V only.
- This tool enables adjustment of parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
- One required for each Light Square.

MEDIUM LED WALL PACK (SWM)

LEDs - Select high-brightness LEDs. Color temperature 5000K (CW), 4000K (NW) and 3000K (WW). CRI = 65 (All values nominal).

CONSTRUCTION - Die-cast aluminum housing with stainless steel hardware, tempered flat glass lens and silicon gaskets. Knock-out of top of housing for available photocell accessory.

THERMAL MANAGEMENT - Driver and LED module are mounted directly to aluminum housing to maximize heat dissipation.

DIMMING - 0-10 volt dimming standard.

INSTALLATION - Luminaire features a back plate design that can be easily mounted to any vertical surface.

ELECTRICAL - Class 2 driver has universal voltage (120-277v, 50/60 Hz) input. Active power factor correction (0.98 typical) and protection against over-voltage, over-temperature, short-circuit conditions and lightning (ANSI/IEEE 62.41 Class A).

OPERATING TEMPERATURE - -35° to 40°C (-31° to 104°F)

EXPECTED LIFE - Minimum 50,000 hours.

PHOTOMETRICS - Please visit our web site at www.lsi-industries.com for detailed photometric data.

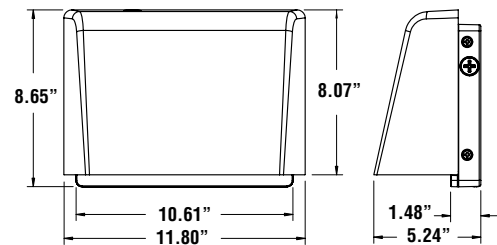
WARRANTY - Limited 5-year warranty.

LISTING - UL listed to U.S. and Canadian safety standards. Suitable for wet locations. For a list of the specific products in this series that are DLC listed, please consult the LED Lighting section of our website or the Design Lights website at www.designlights.org.

This product, or selected versions of this product, meet the standards listed below. Please consult factory for your specific requirements.



DIMENSIONS



LIGHT OUTPUT - SWM

Lumens	Watts	LPW
4080	42	98

LUMINAIRE ORDERING INFORMATION

TYPICAL ORDER EXAMPLE: **SWM 2 LED NW UE GBZ**

Prefix	Distribution	Light Source	Color Temperature	Voltage	Color
SWM - 42-watt LED Wall Pack	2	LED	CW - Cool White (5000K) NW - Neutral White (4000K) WW - Warm White (3000K)	UE - Universal Electronic (120-277V)	GBZ - Grey Bronze

ACCESSORY ORDERING INFORMATION (Accessories are field installed)

Description	Order Number
120VAC Photocell	SW PC1
208-277VAC Photocell	SW PC2

BUG LISTING

SWM - TYPE 2

Color Temp. *	Lumens	Watts	LER	BUG Rating
CW	4076	42	98	B2-U0-G0

* Color Temperature: CW-5000K



Project Name _____ Fixture Type _____
Catalog # _____

07/28/16
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LSI INDUSTRIES INC.



IES ROAD REPORT
PHOTOMETRIC FILENAME : SWM-2-LED-CW-UE.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]32973
[TESTLAB] UNDERWRITERS LABORATORIES INC.
[ISSUE DATE] 5/5/2014
[MANUFAC] LSI INDUSTRIES
[LUMCAT] SWM-2-LED-CW-UE
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] TEST PROCEDURE: IESNA LM-79-08

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4076
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	41.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1744.9
Maximum Candela Angle	0H 7.5V
Maximum Candela (<90 Degrees Vertical)	1744.9
Maximum Candela Angle (<90 Degrees Vertical)	0H 7.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	27.5 (0.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT
PHOTOMETRIC FILENAME : SWM-2-LED-CW-UE.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	706.3	N.A.	17.3
FM - Front-Medium (30-60)	1393.8	N.A.	34.2
FH - Front-High (60-80)	173.1	N.A.	4.2
FVH - Front-Very High (80-90)	3.7	N.A.	0.1
BL - Back-Low (0-30)	666.9	N.A.	16.4
BM - Back-Medium (30-60)	1076.3	N.A.	26.4
BH - Back-High (60-80)	55.5	N.A.	1.4
BVH - Back-Very High (80-90)	0.7	N.A.	0.0
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	4076.3	N.A.	100.0
BUG Rating	B2-U0-G0		

IES ROAD REPORT
PHOTOMETRIC FILENAME : SWM-2-LED-CW-UE.IES

CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>55.0</u>	<u>60.0</u>	<u>62.5</u>	<u>65.0</u>
0.0	1723.8	1723.8	1723.8	1723.8	1723.8	1723.8	1723.8	1723.8	1723.8	1723.8
2.5	1736.4	1722.3	1723.2	1724.7	1725.4	1728.3	1730.2	1729.4	1730.2	1729.9
5.0	1740.1	1725.6	1726.5	1726.7	1728.6	1731.2	1731.5	1728.7	1729.4	1730.2
7.5	1744.9	1728.9	1729.2	1728.7	1728.3	1728.7	1728.4	1726.4	1727.8	1727.1
10.0	1744.7	1729.3	1729.6	1727.4	1728.6	1727.1	1726.2	1722.2	1724.3	1723.4
12.5	1740.8	1725.4	1726.2	1723.7	1725.1	1723.8	1721.4	1717.6	1720.8	1719.2
15.0	1731.4	1718.5	1718.7	1714.2	1715.8	1716.0	1713.2	1710.9	1711.1	1710.6
17.5	1716.7	1705.1	1705.1	1701.1	1703.0	1703.9	1700.0	1698.6	1700.2	1699.9
20.0	1701.1	1691.7	1689.3	1688.0	1688.4	1690.5	1688.0	1685.3	1686.9	1685.7
22.5	1686.1	1670.3	1670.7	1670.8	1672.5	1674.8	1673.3	1671.4	1672.3	1671.7
25.0	1655.2	1645.6	1647.1	1647.8	1652.3	1656.2	1656.0	1656.8	1658.5	1661.9
27.5	1630.1	1616.5	1619.1	1621.2	1626.9	1633.9	1645.1	1654.8	1659.8	1665.7
30.0	1594.2	1584.9	1589.2	1592.2	1598.6	1614.9	1649.3	1665.7	1673.1	1680.1
32.5	1561.0	1550.8	1554.1	1559.4	1570.5	1605.2	1656.3	1660.0	1655.6	1649.7
35.0	1536.4	1530.5	1529.4	1524.6	1543.8	1597.5	1619.6	1606.1	1595.9	1585.0
37.5	1513.8	1509.5	1511.2	1504.9	1525.8	1563.2	1547.7	1534.5	1525.6	1518.1
40.0	1448.3	1445.2	1461.7	1481.4	1518.8	1497.9	1470.6	1461.3	1452.7	1444.8
42.5	1381.1	1375.3	1389.3	1427.3	1488.8	1442.9	1395.7	1384.8	1374.6	1363.1
45.0	1331.0	1325.5	1328.7	1361.8	1421.3	1389.2	1325.2	1304.6	1290.4	1275.4
47.5	1288.9	1284.2	1294.6	1312.9	1341.2	1322.6	1247.8	1216.7	1204.5	1192.2
50.0	1158.2	1151.8	1185.5	1245.4	1277.5	1238.5	1155.2	1129.7	1120.8	1109.8
52.5	1022.8	1019.7	1048.4	1108.3	1178.4	1147.6	1052.4	1039.6	1030.6	1018.8
55.0	916.2	915.6	936.4	972.1	1033.9	1032.1	940.3	922.2	912.4	902.0
57.5	724.6	720.0	801.5	853.8	891.7	883.8	824.8	801.8	781.6	752.8
60.0	495.7	490.1	517.9	667.7	754.5	745.8	695.6	623.7	585.8	539.2
62.5	268.6	262.5	325.4	425.3	571.4	626.5	501.3	404.1	367.5	338.2
65.0	190.6	186.9	191.5	212.8	324.5	465.3	299.8	243.2	218.8	198.7
67.5	156.9	153.9	156.1	158.9	169.9	192.9	173.2	146.8	139.2	134.4
70.0	124.5	122.4	123.5	127.0	129.4	128.8	121.2	115.6	112.9	109.2
72.5	95.4	93.6	95.0	96.1	97.5	97.7	94.0	91.2	89.6	86.8
75.0	68.3	66.2	67.6	67.8	69.3	70.8	69.2	67.6	66.2	64.2
77.5	46.6	44.2	44.8	43.7	44.3	46.0	46.3	46.0	44.8	44.1
80.0	26.7	24.1	25.2	26.0	26.2	25.8	26.6	27.5	27.1	26.8
82.5	7.8	6.4	7.4	9.1	11.4	12.9	12.2	12.3	13.1	13.3
85.0	2.5	1.8	1.7	1.8	2.0	2.7	4.1	4.3	4.2	4.2
87.5	1.5	1.7	1.5	1.5	1.4	1.2	0.7	1.0	1.0	1.0
90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

IES ROAD REPORT
PHOTOMETRIC FILENAME : SWM-2-LED-CW-UE.IES

CANDELA TABULATION - (Cont.)

132.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Vert. Angles **Horizontal Angles**

	<u>67.5</u>	<u>70.0</u>	<u>72.5</u>	<u>75.0</u>	<u>77.5</u>	<u>80.0</u>	<u>82.5</u>	<u>85.0</u>	<u>87.5</u>	<u>90.0</u>
0.0	1723.8	1723.8	1723.8	1723.8	1723.8	1723.8	1723.8	1723.8	1723.8	1723.8
2.5	1728.2	1726.1	1726.7	1726.8	1729.8	1732.1	1733.0	1734.4	1732.2	1732.1
5.0	1727.4	1724.4	1725.2	1723.8	1726.8	1728.6	1730.0	1729.9	1727.6	1726.4
7.5	1723.4	1720.6	1721.7	1720.3	1721.5	1723.7	1724.5	1724.1	1721.8	1719.6
10.0	1719.9	1717.4	1716.6	1715.8	1717.3	1718.9	1719.3	1718.9	1715.1	1712.9
12.5	1714.8	1712.4	1712.1	1709.6	1710.8	1712.1	1711.6	1710.1	1706.5	1703.5
15.0	1706.2	1703.2	1702.1	1699.6	1700.0	1700.4	1698.8	1696.8	1691.3	1688.7
17.5	1693.6	1690.5	1688.3	1684.6	1684.7	1683.8	1682.1	1678.9	1672.8	1668.9
20.0	1679.6	1674.4	1671.8	1666.3	1666.1	1663.8	1662.2	1658.9	1651.8	1647.8
22.5	1663.8	1660.9	1655.8	1649.9	1648.8	1646.9	1646.0	1642.9	1635.8	1632.3
25.0	1657.2	1655.6	1652.3	1647.4	1648.2	1648.0	1646.6	1642.6	1636.2	1631.7
27.5	1662.8	1662.4	1661.8	1660.8	1663.9	1665.9	1665.4	1664.7	1659.0	1655.8
30.0	1674.6	1668.3	1661.4	1653.9	1650.1	1646.6	1644.7	1640.1	1631.6	1628.0
32.5	1634.6	1619.2	1604.8	1592.9	1584.2	1577.9	1574.8	1568.9	1558.2	1554.7
35.0	1566.1	1548.5	1530.9	1518.6	1508.3	1502.1	1498.2	1493.5	1485.0	1482.8
37.5	1500.1	1483.9	1466.6	1454.2	1441.8	1435.3	1429.0	1425.1	1416.0	1414.7
40.0	1430.4	1414.0	1397.0	1382.6	1368.1	1360.4	1354.8	1347.8	1340.8	1338.2
42.5	1347.9	1331.6	1315.7	1300.6	1286.8	1278.6	1274.1	1268.6	1261.4	1259.1
45.0	1261.6	1247.1	1233.3	1221.4	1210.6	1202.2	1199.4	1196.1	1189.5	1186.2
47.5	1180.2	1167.7	1156.1	1146.2	1135.5	1128.1	1123.6	1118.8	1113.2	1112.9
50.0	1099.8	1089.9	1077.4	1068.4	1057.8	1049.2	1041.8	1037.1	1033.4	1033.4
52.5	1009.4	1000.0	986.9	977.2	965.6	955.6	947.0	941.0	935.8	933.3
55.0	892.5	873.8	847.7	827.0	802.3	780.1	762.3	745.9	736.7	734.6
57.5	729.5	691.0	650.8	622.1	588.7	561.3	540.9	519.3	507.7	499.8
60.0	504.3	463.9	426.6	406.6	387.2	374.4	364.0	352.8	348.0	343.9
62.5	316.9	297.1	272.8	255.5	238.4	226.0	216.1	206.4	203.0	199.6
65.0	183.4	171.0	157.6	149.3	142.8	138.2	134.6	131.8	129.9	127.3
67.5	129.6	126.0	121.6	118.5	116.3	113.6	110.6	107.2	104.9	103.4
70.0	106.1	102.9	99.1	96.6	94.2	92.3	90.1	86.4	83.8	82.1
72.5	84.0	81.3	77.9	75.4	73.1	71.0	68.9	65.8	63.3	61.4
75.0	62.5	60.8	57.9	55.8	53.7	51.2	49.4	47.2	45.1	43.7
77.5	42.8	41.7	39.7	38.4	36.6	35.0	33.3	31.6	30.0	28.8

IES ROAD REPORT
PHOTOMETRIC FILENAME : SWM-2-LED-CW-UE.IES

CANDELA TABULATION - (Cont.)

80.0	26.1	25.6	24.5	24.0	22.7	21.8	20.5	19.5	18.2	17.7
82.5	13.4	13.4	12.6	12.8	12.2	11.5	10.7	10.2	9.8	9.3
85.0	4.8	4.4	4.6	4.9	4.3	4.6	4.4	4.1	3.8	3.8
87.5	0.9	1.0	1.1	1.1	0.9	1.1	1.1	0.8	0.8	0.8
90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Vert. Horizontal Angles
Angles

	<u>95.0</u>	<u>105.0</u>	<u>115.0</u>	<u>125.0</u>	<u>135.0</u>	<u>145.0</u>	<u>155.0</u>	<u>165.0</u>	<u>175.0</u>	<u>180.0</u>
0.0	1723.8	1723.8	1723.8	1723.8	1723.8	1723.8	1723.8	1723.8	1723.8	1723.8
2.5	1731.1	1719.2	1720.6	1715.2	1710.6	1705.2	1702.0	1701.1	1698.8	1711.6
5.0	1724.4	1709.6	1710.2	1702.3	1695.8	1689.1	1684.6	1682.9	1680.3	1691.8
7.5	1716.1	1698.7	1696.7	1686.9	1678.2	1671.3	1665.0	1662.6	1660.7	1671.8
10.0	1708.2	1688.5	1683.8	1671.2	1661.9	1652.8	1645.2	1644.6	1643.5	1654.7
12.5	1696.9	1674.8	1668.8	1653.4	1643.6	1634.8	1625.1	1622.4	1621.3	1632.8
15.0	1680.4	1655.6	1648.0	1632.2	1622.0	1613.5	1603.6	1599.0	1598.6	1611.4
17.5	1660.3	1632.8	1624.4	1607.2	1596.2	1589.2	1579.2	1573.3	1571.2	1584.4
20.0	1638.4	1609.2	1601.2	1583.4	1571.3	1563.3	1553.2	1547.6	1544.8	1557.1
22.5	1619.6	1587.2	1576.9	1560.0	1548.5	1538.4	1528.7	1522.4	1519.1	1529.0
25.0	1617.3	1579.2	1561.4	1535.4	1524.6	1515.2	1503.7	1498.4	1495.8	1503.6

IES ROAD REPORT
PHOTOMETRIC FILENAME : SWM-2-LED-CW-UE.IES

CANDELA TABULATION - (Cont.)

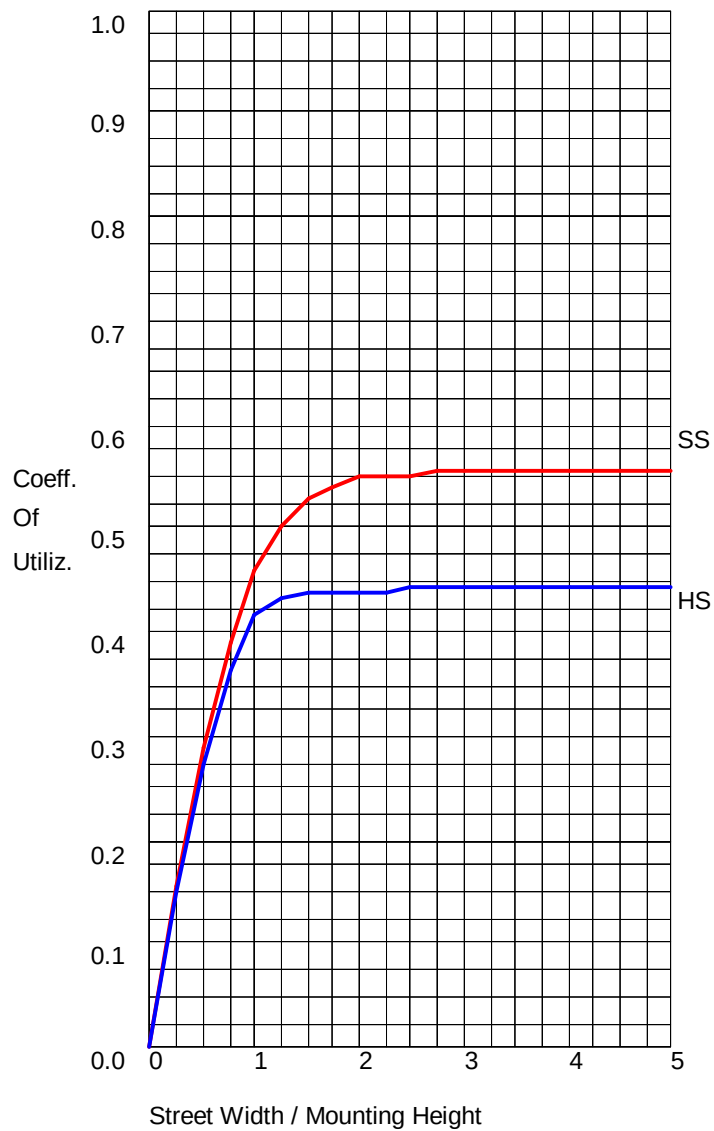
27.5	1640.6	1599.2	1567.4	1525.6	1499.3	1488.9	1480.2	1473.7	1468.9	1476.5
30.0	1614.8	1591.4	1590.7	1544.5	1488.9	1464.7	1453.7	1444.2	1435.9	1444.4
32.5	1544.5	1533.4	1550.0	1560.6	1512.4	1451.2	1420.8	1407.2	1395.9	1402.7
35.0	1473.0	1457.6	1470.8	1507.6	1540.3	1453.2	1382.1	1363.4	1349.8	1353.7
37.5	1404.0	1392.5	1396.2	1422.9	1495.6	1444.1	1334.6	1314.1	1300.3	1305.0
40.0	1324.3	1319.3	1331.1	1352.6	1403.7	1386.6	1282.8	1259.4	1243.4	1246.0
42.5	1244.2	1243.1	1263.2	1291.2	1313.6	1289.4	1224.3	1179.8	1118.3	1081.6
45.0	1171.8	1169.3	1190.1	1226.2	1230.8	1193.4	1107.4	733.2	608.7	587.1
47.5	1100.4	1096.7	1115.7	1156.7	1147.8	1078.9	605.6	503.6	465.0	444.7
50.0	1023.3	1017.2	1039.9	1083.2	1061.5	625.7	448.8	346.9	297.5	276.9
52.5	915.2	927.2	962.3	1004.6	883.8	435.0	290.7	182.3	145.8	134.8
55.0	720.7	755.8	852.2	906.4	470.0	281.2	139.6	94.6	92.8	91.5
57.5	487.5	514.5	641.1	691.2	316.4	136.2	81.9	75.2	73.8	72.9
60.0	337.2	350.9	418.6	412.3	166.7	75.1	64.9	60.3	57.8	56.3
62.5	192.7	213.7	284.7	242.8	76.9	58.5	51.7	46.6	43.7	41.7
65.0	118.6	111.6	143.9	115.1	55.6	45.3	37.0	29.1	25.3	23.1
67.5	94.8	85.6	77.4	58.2	42.2	31.0	20.2	15.4	13.1	11.9
70.0	74.6	68.6	54.3	39.8	28.7	15.5	9.7	6.8	4.9	4.9
72.5	56.4	52.2	37.2	26.9	14.6	6.2	3.1	2.1	1.9	1.8
75.0	40.8	37.0	24.1	14.5	5.9	1.8	1.5	0.7	0.9	0.3
77.5	27.6	22.4	14.2	6.2	2.1	0.4	0.1	0.2	0.1	0.0
80.0	16.8	12.1	6.2	2.4	0.9	0.0	0.1	0.0	0.0	0.0
82.5	8.8	5.6	2.3	0.8	0.3	0.0	0.2	0.2	0.0	0.0
85.0	3.4	2.0	1.1	0.4	0.5	0.1	0.2	0.1	0.2	0.0
87.5	0.7	0.5	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.0
90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

IES ROAD REPORT
PHOTOMETRIC FILENAME : SWM-2-LED-CW-UE.IES

CANDELA TABULATION - (Cont.)

167.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

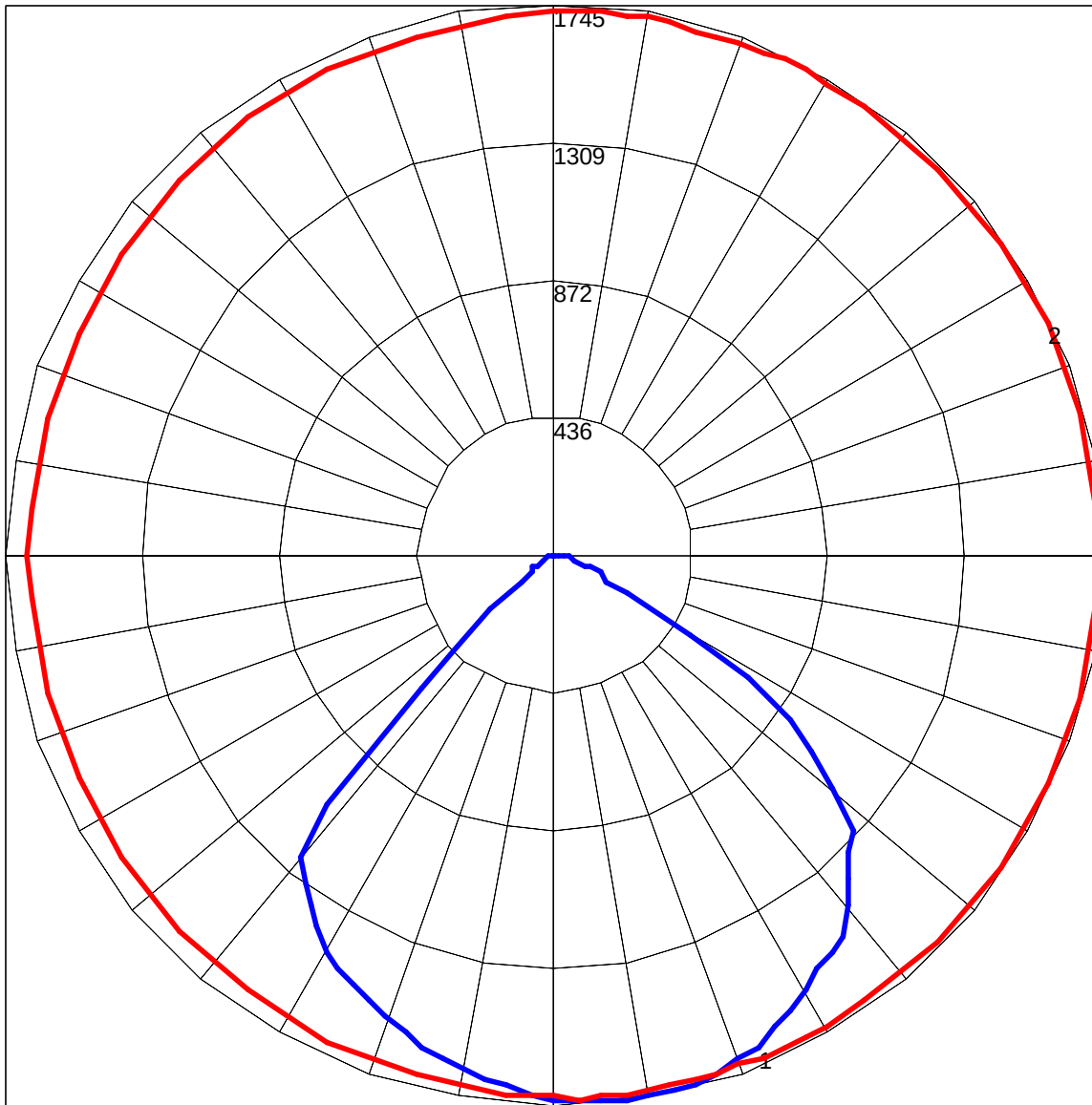
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

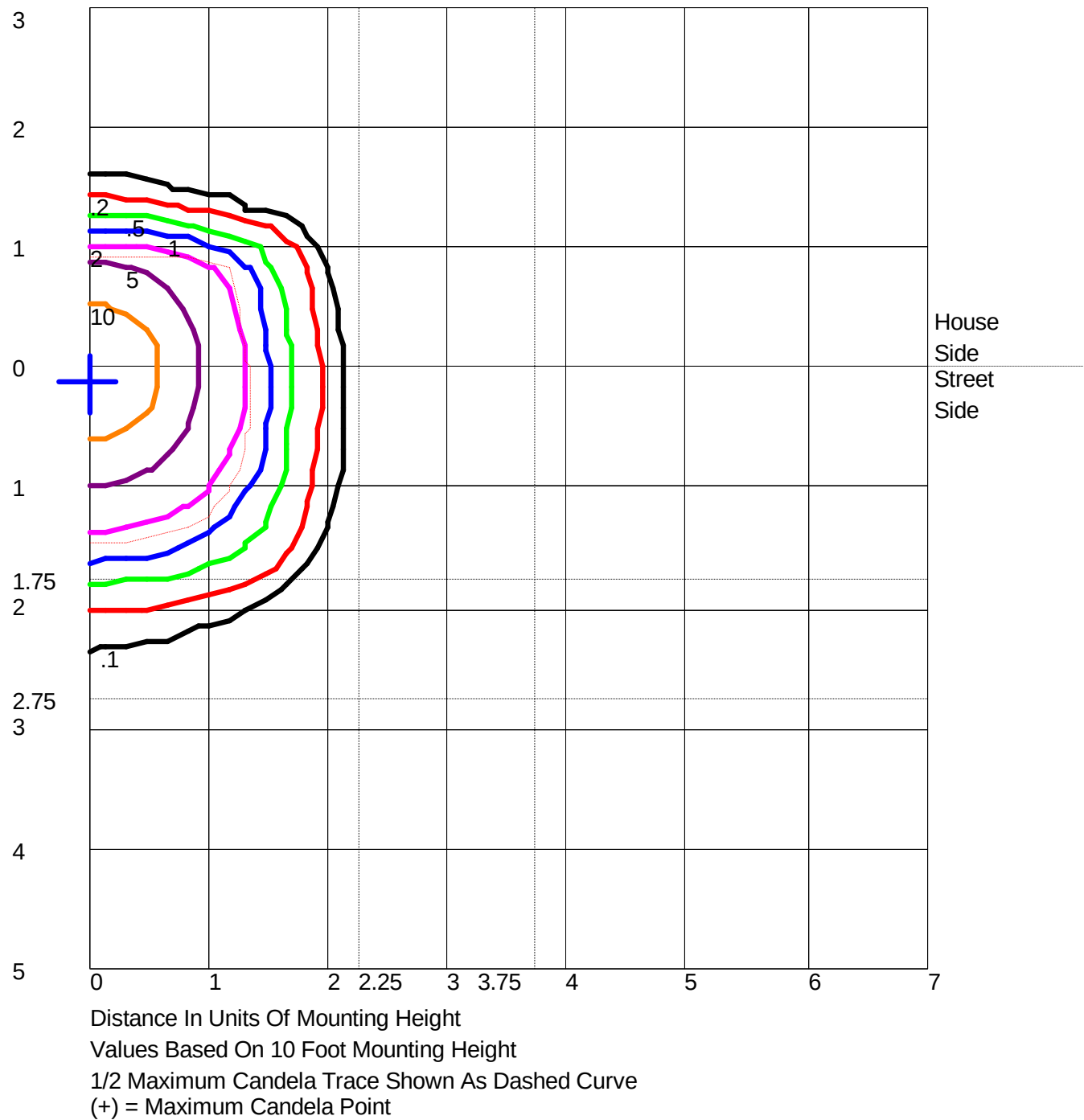
	Lumens	Percent Of Luminaire
Downward Street Side	2276.9	55.9
Downward House Side	1799.5	44.1
Downward Total	4076.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	4076.4	100.0

POLAR GRAPH

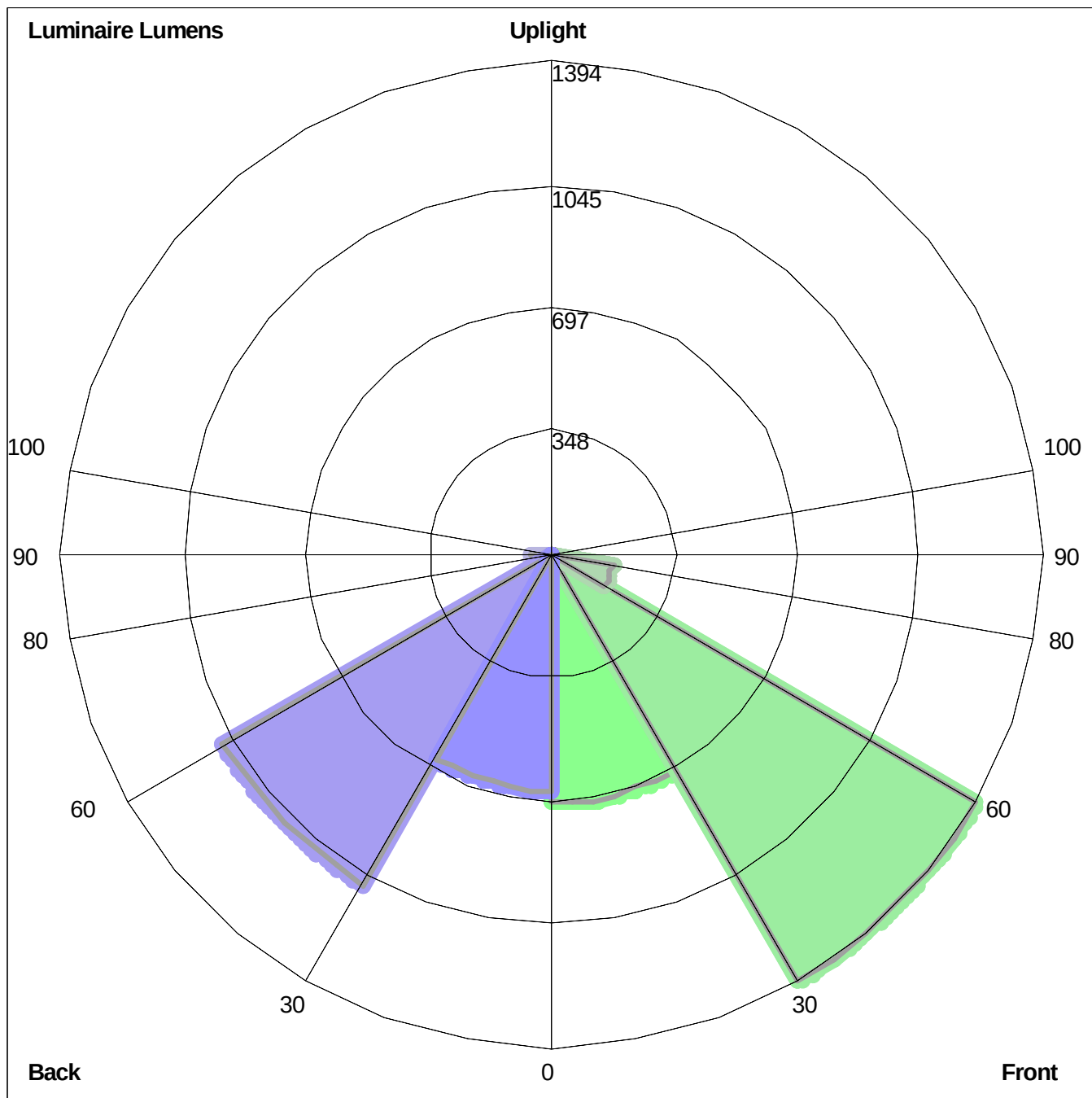


Maximum Candela = 1744.9 Located At Horizontal Angle = 0, Vertical Angle = 7.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (7.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=706.3, Medium=1393.8, High=173.1, Very High=3.7
Back: Low=666.9, Medium=1076.3, High=55.5, Very High=0.7
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G0

DESCRIPTION

The Vaportite LED Series is an energy efficient industrial Vaportite fixture that features rugged and durable construction. The Vaportite LED incorporates a full metal fixture liner inside a reinforced fiberglass housing with a high impact diffuser. This Vaportite series is suitable for interior and exterior applications and can be surface or chain mounted.

The Vaportite LED Series has been designed for maximum operation in commercial institutional and industrial environments and can operate in a wide range of temperatures (-20°C to 25°C) and is ideal for cold storage environments.

SPECIFICATION FEATURES

Construction

Fiberglass housing is reinforced polyester and self-extinguishing (ASTM-D635-74) plastic of a permanent pearl gray color. A watertite hub for 1/2" conduit entry is provided at each end of housing (standard) for continuous feed. Polyurethane gasketing is formed in the housing providing a continuous seamless seal for the diffuser. Four sturdy cam latches clamp diffuser tightly for a positive seal between housing, gasketing and diffuser. Electrical components and fixtures are UL/ cUL listed for Wet Locations.

Electrical

Long-Life LED system coupled with electrical driver to deliver optimal performance. LED's available in 3500, 4000 and 5000K with a CRI $\geq$ 85. Projected life is 60,000 hours at 91% lumen output. cULus listed. Electronic drivers are available for 120-277V applications. A 0-10V dimming control is available (standard). IP65 rated and NSF certified (4' only).

Lens

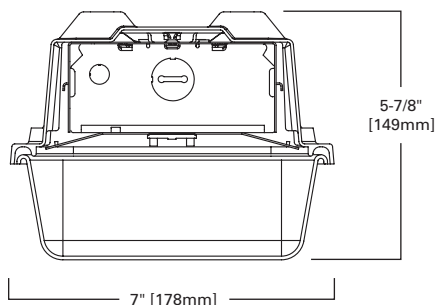
DR=Internal Prismatic Lens/15% DR High Impact Additive.
DR100=Internal Prismatic Lens/100% DR High Impact Additive.

Warranty

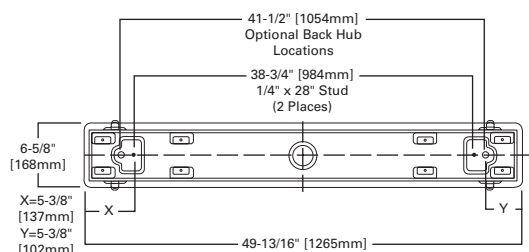
Vaportite LED features a five year limited warranty.

Compliance

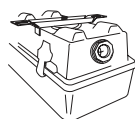
DesignLights Consortium™ Qualified and classified for DLC Standard (some models are not DLC qualified), refer to www.designlights.org for details.



MOUNTING DATA



INSTALLATION DATA



MOUNTING BRACKETS
Furnished
Two per 2' and 4' Unit
Four per 8' Unit



OPTIONAL CHAN HANGING SET
(VT2-CHAIN/SET-U)
Includes 6 ft. of chain, 4 large S-Hooks and 4 small S-Hooks
Order One (1) Kit for each 2' or 4' Fixture



VAPORTITE LED

4' INDUSTRIAL LED LAMP

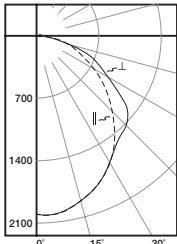
Vaportite Industrial Refrigerated Case



ENERGY DATA

Input Watts:
4VT2-LD4-4 (4,000 lumens)=38W
4VT2-LD4-6 (6,000 lumens)=57.3W
4VT2-LD4-8 (8,000 lumens)=81.1W

PHOTOMETRICS



4VT2-LD4-6-DR-UNV-L835-CD1-U

Electronic Driver
Linear LED 3500K
Spacing criterion:
(H) 1.2 x mounting
height, (L) 1.2 x
mounting height
Lumens: 5882
Input Watts: 56W
Efficacy: 104.7 lm/W
Test Report:
4VT2-LD4-6-DR-
UNV-L835-CD1-U.
IES

Candlepower

Angle	Along H	45°	Across L
0	2000	2000	2000
5	2007	1979	1980
10	1981	1951	1956
15	1930	1900	1903
20	1857	1836	1844
25	1764	1748	1765
30	1645	1646	1660
35	1511	1522	1534
40	1375	1393	1468
45	1221	1271	1438
50	1062	1207	1343
55	903	1175	1148
60	749	1048	933
65	600	1151	771
70	461	591	600
75	332	398	426
80	206	249	255
85	94	137	127
90	34	75	63

Coefficients of Utilization

Effective floor cavity reflectance															20%							
rc rw RCR	80%				70%				50%				30%				10%				0%	
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	99				
1	108	103	98	94	105	101	96	93	96	93	90	92	89	87	88	86	84	82				
2	98	89	82	76	95	87	81	75	84	78	73	80	75	71	77	73	70	67				
3	89	78	70	63	86	76	69	62	73	67	61	70	65	60	68	63	59	56				
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	55	50	48				
5	75	62	52	46	73	60	52	45	58	51	45	56	49	44	54	48	44	41				
6	69	55	46	40	67	54	46	40	52	45	39	51	44	39	49	43	38	36				
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	38	34	32				
8	59	46	37	31	58	45	37	31	44	36	31	42	35	31	41	35	30	28				
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	25				
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23				

Zonal Lumen Summary

Zone	Lumens	% Fixture
0-30	1536	26.1
0-40	2490	42.3
0-60	4463	75.9
0-90	5804	98.7
0-180	5882	100.0

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours)	Theoretical L70 (Hours)
25°C	> 91%	> 247,000

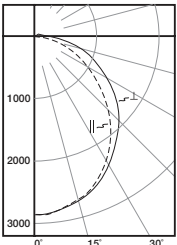
ORDERING INFORMATION

SAMPLE NUMBER: 4VT2-LD4-4-DR-UNV-L840-CD1-WL-U

Series⁽²⁾ 4VT2=4' Vaportite Lamp Type LD4=LED 4.0 LED Lumens Output 4=4000 Lumens 6=6000 Lumens 8=8000 Lumens Lens DR=Internal Prismatic Lens/15% DR High Impact Additive DR100=Internal Prismatic Lens/100% DR High Impact Additive FR50=Frosted Lens/15% DR High Impact Additive⁽¹⁾	Distribution [Blank]=Medium (Standard) W=Wide Distribution Voltage UNV=Universal Voltage 120-277 Remote Emergency Enclosure VT-REM-EL=Emergency Installed, 700 lumens⁽³⁾	Lamps L835=3500K, LED L840=4000K, LED L850=5000K, LED Driver Type CD1=1 Dimming Driver 5LTD1=5th Light DALI	WL=Wet Location Label Options SSL=Stainless Steel Latches TH=(2) Top Watertite Hubs TEH=(2) Top and (2) End Watertite Hubs (all Watertite Hubs have 1/2" Conduit Entry) Accessories (order separately) VT2-Chain/Set-U=Chain Hanging Set Includes 6 ft. of chain, 4 large S-Hooks and 4 small S-Hooks Order One (1) Kit for each 2' or 4' Fixture VT2-SS-MBK=Stainless Steel Mounting Bracket	Packaging U=Unit Pack
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NOTES: ⁽¹⁾ Not available in wide distribution. ⁽²⁾ DesignLights Consortium™ Qualified and classified for DLC Standard (some models are not DLC qualified), refer to www.designlights.org for details. ⁽³⁾ EL must specify 120 or 277V only.

Specifications & dimensions subject to change without notice. Consult your Eaton Representative for availability and ordering information.



4VT2-LD4-8-FR50-UNV-L835-CD1-WL-U

Electronic Driver
Linear LED 3500K
Spacing criterion:
(H) 1.2 x mounting
height, (L) 1.3 x
mounting height
Lumens: 8553
Input Watts: 81W
Efficacy: 105.5 lm/W
Test Report:
4VT2-LD4-8-FR50-
UNV-L835-CD1-WL-
U.IES

Candlepower

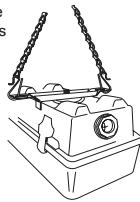
Angle	Along H	45°	Across L
0	2854	2854	2854
5	2857	2829	2842
10	2811	2790	2804
15	2733	2723	2742
20	2626	2629	2658
25	2484	2508	2545
30	2316	2365	2408
35	2120	2195	2253
40	1904	2011	2086
45	1678	1819	1914
50	1451	1622	1736
55	1222	1422	1558
60	1009	1229	1368
65	810	1034	1171
70	622	843	959
75	446	659	748
80	287	487	555
85	148	341	392
90	45	228	271

Coefficients of Utilization

rc rw RCR	Effective floor cavity reflectance 20%															0%					
	80%				70%				50%				30%				10%				
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50		30	10			
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	96			
1	107	102	97	93	104	99	95	91	94	91	87	90	87	84	85	83	81	79			
2	97	88	81	75	94	86	79	74	82	76	72	78	73	69	74	71	67	65			
3	88	77	69	62	85	75	68	61	72	65	60	69	63	58	66	61	57	54			
4	81	68	59	53	78	67	58	52	64	57	51	61	55	50	59	53	49	46			
5	74	61	52	45	72	60	51	45	57	50	44	55	48	43	53	47	42	40			
6	69	55	46	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35			
7	64	50	41	35	62	49	41	35	47	40	34	45	39	34	44	38	33	31			
8	59	46	37	31	57	45	37	31	43	36	30	42	35	30	40	34	30	28			
9	55	42	34	28	54	41	33	28	40	32	27	38	32	27	37	31	27	25			
10	52	39	31	25	50	38	30	25	37	30	25	36	29	25	34	29	24	23			

Zonal Lumen Summary

Zone	Lumens	% Fixture
0-30	2200	25.7
0-40	3573	41.8
0-60	6232	96.4
0-90	8248	100.0
0-180	8553	100.0



SHIPPING DATA

Catalog No.	Wt.
4VT2-LD4	18 lbs.

LED PATRIOT® WALL SCNCE (XPWS3)



DOE LIGHTING FACTS

Department of Energy has verified representative product test data and results in accordance with its Lighting Facts Program. Visit www.lightingfacts.com for specific catalog strings.

LIGHT OUTPUT - XPWS3					
		Distribution/Lumens (Nominal)			
Milliamps	# of LEDs	Type FT	Type WT	Type WW	Watts
Cool White 350 mA	28	3100	3000	3200	34
	48	5100	5100	5200	55
	28	3700	3600	3800	44
	48	6200	6100	6300	72
Neutral White 450 mA	28	2900	2900	3100	34
	48	4900	4800	4900	55
	28	3500	3500	3700	44
	48	5800	5700	5800	72

LED Chips are frequently updated therefore values may increase.

Also available in traditional light sources

US patent 7828456, 8002428 and CAN 2736757 & 2736757 and MX patent 29631 and ISRL 49679 and AUS 2008312668 and US & Int'l. patents pending

SMARTTEC™ -LSI drivers feature integral sensor which reduces drive current, when ambient temperatures exceed rated temperature

ENERGY SAVING CONTROL OPTIONS - DIM- 0-10 volt dimming enabled with controls by others.

OPTIONAL INTEGRAL MOTION SENSOR - Passive infrared motion sensor activates switching of luminaire light levels. High level light is activated when passersby enter target zone and increased to full bright in 1-2 seconds. Low light level (30% of maximum drive current) is activated when target zone is absent of motion activity for 5 minutes and is gradually ramped down (10 seconds) to low level. Sensor detection range 110° horizontal x 93° vertical x 10 meters maximum distance.

EXPECTED LIFE - Minimum 60,000 hours to 100,000 hours depending upon the ambient temperature of the installation location. See LSI web site for specific guidance.

LEDS - Available with 28 or 48 select high-brightness LEDs in Cool White (5000K) or Neutral White (4000K) color temperature, 70 CRI.

OPTICS/DISTRIBUTIONS - Ultra-high efficiency reflectors provide three distributions. Choose from Wide Throw (WT), Forward Throw (FT) or Wall Wash (WW).

HOUSING - One-piece die-cast aluminum housing is smoothly contoured rectangular shape. Mounting hardware is stainless steel or electro-zinc plated steel. Housing and optical unit are sealed with extruded silicone gasket; supply conductors with molded EPDM bushing.

OPTICAL UNIT - Clear tempered optical-grade flat glass lens sealed to the aluminum optic housing creates an IP65 rated unit. Pressure stabilizing breather allows super-tight protection while preventing cycling from building up internal pressures and vacuums that can stress optical unit seals.

WALL MOUNTING - Galvanized-steel universal wall mounting plate easily mounts directly to 4" octagonal or square junction box. EPDM gasket is supplied to be installed between mounting plate and junction box, sealing junction box from entrance of water. Universal plate permits fixture to be mounted in uplighting (indoor only) or downlighting position.

POLE MOUNTING - XPMA (for square) or XPMA (for round) allows mounting to poles in single and D180 configurations. Use with 3" reduced drilling pattern.

ELECTRICAL - Two-stage surge protection (including separate surge protection built into electronic driver) meets IEEE C62.41.2-2002, Location Category C. Available with universal voltage power supply 120-277VAC (50/60Hz input) or 347-480VAC.

DRIVER - Available in 350mA and 450mA drive currents (Drive currents are factory programmed). Components are fully encased in potting material for IP65 moisture resistance. Driver complies with IEC and FCC standards. Driver can be easily accessed.

EMERGENCY OPTIONS - Optional integral emergency battery-back-up options are available. BB option operates in 0°C to 60°C ambient temperature and CWBB operates in -20°C to 60°C ambient temperature. When primary AC power failure occurs, both options operate 10 LEDs for minimum of 90 minutes.

OPERATING TEMPERATURE - -40°C to +50°C (-40°F to +122°F)

FINISH - Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling.

WARRANTY - LSI LED fixtures carry a limited 5-year warranty.

PHOTOMETRICS - Please visit our web site at www.lsi-industries.com for detailed photometric data.

SHIPPING WEIGHT (in carton) - 30 lbs./13.6Kg

LISTING - ETL listed to ANSI/UL1598, UL8750 and other U.S. and international safety standards. Suitable for wet locations in downlight position. Optional Class 1 Division 2 (groups A, B, C & D) hazardous location rating is available (Select HL option). For a list of the specific products in this series that are DLC listed, please consult the LED Lighting section of our website or the Design Lights website at www.designlights.org.

This product, or selected versions of this product, meet the standards listed below. Please consult factory for your specific requirements.



Project Name _____ Fixture Type _____
Catalog # _____

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LED PATRIOT® WALL SCNCE (XPWS3)

LUMINAIRE ORDERING INFORMATION

TYPICAL ORDER EXAMPLE: **XPWS3 FT LED 48 450 CW UE WHT BB**

Prefix	Distribution	Light Source	# of LEDs	Drive Current	Color Temperature	Input Voltage	Finish	Optional Controls	Optional Sensor/Options
XPWS3 - LED Patriot Wall Sconce	WT - Wide Throw FT - Forward Throw WW - Wall Wash	LED	28 48	350 - 350mA 450 - 450mA	CW - Cool White (5000K) NW - Neutral White (4000K)	UE - Universal Voltage (120-277) 347-480	BLK - Black BRZ - Bronze GPT - Graphite MSV - Metallic Silver PLP - Platinum Plus SVG - Satin Verde Green WHT - White	Wireless Control System^{1,2} (blank) - None PCM - Platinum Control System PCMH - Host/Satellite Platinum Control System GCM - Gold Control System GCMH - Host/Satellite Gold Control System DIM - 0-10 volt dimming (required for satellite fixtures) Stand-Alone Control (blank) - None DIM - 0-10 volt dimming ³ (from external signal)	Sensor IMS - Integral Motion Sensor ⁴ PCI120 - 120V Button-Type Photocell ⁵ PCI208 - 208V Button-Type Photocell ⁵ PCI240 - 240V Button-Type Photocell ⁵ PCI277 - 277V Button-Type Photocell ⁵ PCI347 - 347V Button-Type Photocell ⁵ Options BB - Battery Back-up ⁶ CWBB - Cold Weather Battery Back-up ⁶ EMR2 - Two Emergency 12V Circuit Provisions with (2) 35 Watt Halogen Lamps ⁷ HL - Class 1, Division 2 Hazardous Location Rating, ETL Listed to UL844 ⁸ XPM - Pole Mounting Adaptor w/ Fixture Back Plate for Use with Square Poles ⁹ XPMAR4 - Pole Mounting Adaptor w/ Fixture Back Plate for Use with 4" O.D. Round Poles ⁹ XPMAR5 - Pole Mounting Adaptor w/ Fixture Back Plate for Use with 5" O.D. Round Poles ⁹

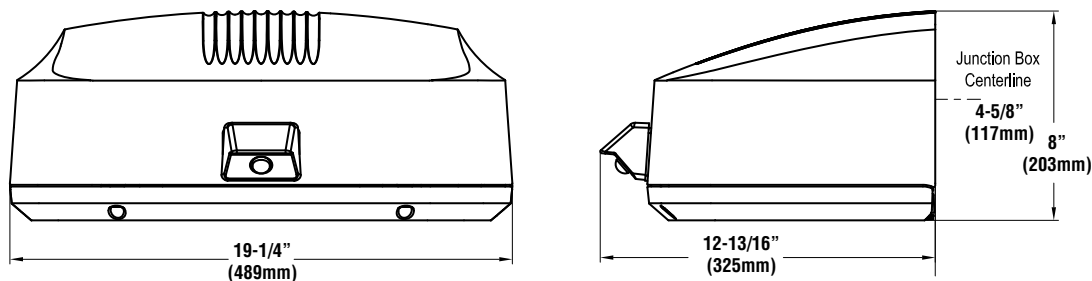
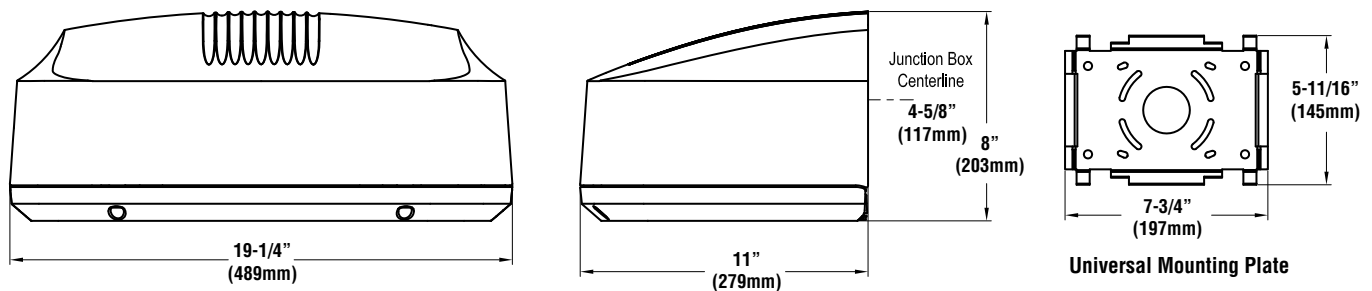
ACCESSORY ORDERING INFORMATION¹ (Accessories are field installed)

Description	Order Number	Description	Order Number
XPWS3 Polycarbonate Shield	244657	DFK208, 240 - Double Fusing	DFK208,240 ¹⁰
XPWS3 SW BLK - Surface Wiring Box (Available in black only)	356915BLK	DFK480 - Double Fusing	DFK480 ¹⁰
FK120 - Single Fusing	FK120 ¹⁰	FK347 - Single Fusing	FK347 ¹⁰
FK277 - Single Fusing	FK277 ¹⁰		

FOOTNOTES:

- For wireless controls information and accessories, see Controls section.
- Requires a SiteManager and override switch. Not compatible with battery back-up, IMS, EMR2 or HL Option.
- Not compatible with IMS option.
- Not compatible with wireless controls system or DIM.
- Not compatible with EMR2 or HL option.
- Available with UE voltage only. Not compatible with wireless controls system, EMR2 or HL option.
- Utilizes GZ4 sockets. 12 volt separate circuits required. Not available with wireless controls system, battery back-up, photocell, HL, XPM or XPMAR option.
- Not available with wireless controls system, battery back-up, photocell or EMR2 option.
- Not available with EMR2 option. Designed for 3" reduced drilling pattern. For S or D180 mounting configuration only.
- Fusing to be installed in a compatible junction box supplied by contractor.

DIMENSIONS



Shown with IMS Option



Project Name _____ Fixture Type _____
Catalog # _____

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BUG LISTING

XPWS3 - Type FT

Drive Current	Color Temp.*	Lumens	Watts	LER	BUG Rating
350	CW	3055	34	90	B1-U0-G1
		5094	55	93	B1-U0-G1
	NW	2919	34	86	B1-U0-G1
		4863	55	88	B1-U0-G1
450	CW	3730	44	85	B1-U0-G1
		6159	72	86	B2-U0-G1
	NW	3529	44	80	B1-U0-G1
		5775	72	80	B1-U0-G1

XPWS3 - Type WT

Drive Current	Color Temp.*	Lumens	Watts	LER	BUG Rating
350	CW	2977	34	88	B1-U0-G1
		5095	55	93	B2-U0-G1
	NW	2873	34	86	B1-U0-G1
		4791	55	87	B1-U0-G1
450	CW	3636	44	83	B1-U0-G1
		6144	72	85	B2-U0-G1
	NW	3465	44	79	B1-U0-G1
		5678	72	79	B2-U0-G1

XPWS3 - Type WW

Drive Current	Color Temp.*	Lumens	Watts	LER	BUG Rating
350	CW	3161	34	93	B2-U0-G0
		5209	55	95	B2-U0-G0
	NW	3074	34	90	B1-U0-G0
		4881	55	89	B2-U0-G0
450	CW	3844	44	87	B2-U0-G0
		6315	72	88	B2-U0-G0
	NW	3708	44	84	B2-U0-G0
		5751	71	81	B2-U0-G0

* Color Temperature: NW-4000K, CW-5000K



Project Name _____ Fixture Type _____
Catalog # _____

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IES ROAD REPORT
PHOTOMETRIC FILENAME : XPWS3-FT-LED-48-450-CW-UE.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-3064
[TESTLAB]LSI INDUSTRIES
[ISSUE DATE]03/20/12
[TEST DATE]03/20/12
[MANUFACTURER]LSI INDUSTRIES
[LUMEN CATEGORY]XPWS3-FT-LED-48-450-CW-UE
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[LED DRIVER]ELECTRONIC LED DRIVER

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6159
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	72
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3697
Maximum Candela Angle	25H 64V
Maximum Candela (<90 Degrees Vertical)	3697
Maximum Candela Angle (<90 Degrees Vertical)	25H 64V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	413 (6.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : XPWS3-FT-LED-48-450-CW-UE.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	632.8	N.A.	10.3
FM - Front-Medium (30-60)	2261.4	N.A.	36.7
FH - Front-High (60-80)	1579.0	N.A.	25.6
FVH - Front-Very High (80-90)	29.1	N.A.	0.5
BL - Back-Low (0-30)	559.2	N.A.	9.1
BM - Back-Medium (30-60)	895.4	N.A.	14.5
BH - Back-High (60-80)	194.5	N.A.	3.2
BVH - Back-Very High (80-90)	7.5	N.A.	0.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	6158.9	N.A.	100.0
BUG Rating	B2-U0-G1		

IES ROAD REPORT
PHOTOMETRIC FILENAME : XPWS3-FT-LED-48-450-CW-UE.IES

CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>	<u>85</u>
0.0	1534	1534	1534	1534	1534	1534	1534	1534	1534	1534
2.5	1526	1516	1520	1521	1526	1531	1539	1547	1550	1555
5.0	1485	1473	1479	1479	1497	1512	1527	1543	1554	1561
7.5	1417	1405	1415	1424	1460	1492	1519	1546	1561	1567
10.0	1367	1356	1364	1378	1409	1453	1502	1548	1573	1584
12.5	1340	1333	1343	1363	1382	1409	1469	1555	1606	1628
15.0	1296	1289	1303	1330	1357	1391	1441	1552	1653	1699
17.5	1259	1251	1264	1285	1322	1374	1423	1523	1691	1772
20.0	1257	1250	1261	1269	1287	1343	1411	1512	1717	1847
22.5	1251	1247	1261	1269	1282	1313	1406	1518	1765	1985
25.0	1245	1243	1258	1268	1284	1312	1412	1635	1941	2227
27.5	1244	1242	1250	1268	1292	1345	1510	1847	2181	2516
30.0	1233	1230	1249	1278	1307	1427	1688	2033	2344	2653
32.5	1219	1218	1243	1281	1347	1580	1876	2135	2352	2545
35.0	1223	1222	1235	1280	1414	1765	2007	2117	2270	2468
37.5	1262	1258	1258	1291	1531	1930	2055	2052	2179	2411
40.0	1318	1313	1315	1361	1709	2025	2059	1994	2075	2374
42.5	1389	1385	1384	1489	1918	2068	2039	1946	1942	2283
45.0	1425	1417	1426	1682	2082	2118	1984	1900	1855	2181
47.5	1563	1550	1528	1894	2207	2146	1918	1858	1794	2099
50.0	1799	1773	1729	2236	2294	2145	1866	1841	1799	2005
52.5	2079	2054	2042	2635	2412	2157	1890	1855	1842	1970
55.0	2098	2080	2244	3086	2576	2134	2006	1882	1884	1904
57.5	2287	2249	2362	3153	2881	2267	2103	1885	1894	1886
60.0	2501	2470	2713	3280	2944	2536	2116	1845	1852	1834
62.5	2551	2539	3017	3593	3099	2834	2065	1783	1700	1556
64.0	2287	2307	2955	3697	3390	2844	2062	1623	1416	1333
65.0	2144	2160	2791	3661	3479	2887	2067	1531	1331	1271
67.5	1634	1650	2126	2960	3606	3074	1932	1268	1125	1069
70.0	1079	1097	1422	2349	3007	2925	1754	1159	929	939
72.5	570	585	777	1669	2258	2170	1710	1108	764	805
75.0	208	216	300	927	1372	1413	1278	948	582	514
77.5	64	68	104	408	544	637	718	767	417	288
80.0	32	34	51	168	203	175	325	413	336	202
82.5	19	19	26	42	61	64	92	165	143	92
85.0	11	11	13	17	19	23	39	46	28	22
87.5	5	5	5	5	6	5	6	7	5	7
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>90</u>	<u>95</u>	<u>105</u>	<u>115</u>	<u>125</u>	<u>135</u>	<u>145</u>	<u>155</u>	<u>165</u>	<u>175</u>
0.0	1534	1534	1534	1534	1534	1534	1534	1534	1534	1534
2.5	1551	1552	1549	1545	1536	1528	1528	1524	1520	1512
5.0	1556	1558	1553	1542	1529	1514	1508	1499	1492	1481
7.5	1565	1564	1554	1535	1512	1489	1476	1457	1449	1435
10.0	1582	1577	1559	1529	1496	1457	1432	1407	1393	1374
12.5	1628	1618	1574	1521	1472	1425	1386	1355	1340	1321
15.0	1713	1704	1625	1531	1452	1386	1353	1319	1285	1254
17.5	1802	1794	1691	1561	1447	1370	1310	1232	1162	1113
20.0	1889	1877	1737	1583	1472	1351	1218	1083	971	902
22.5	2038	2006	1798	1603	1493	1298	1073	874	730	640
25.0	2275	2215	1934	1692	1499	1214	880	630	472	392

IES ROAD REPORT
PHOTOMETRIC FILENAME : XPWS3-FT-LED-48-450-CW-UE.IES

CANDELA TABULATION - (Cont.)

27.5	2560	2468	2138	1878	1555	1103	671	409	299	245
30.0	2675	2569	2271	2072	1619	994	506	276	211	165
32.5	2582	2479	2248	2142	1585	876	444	208	162	132
35.0	2516	2432	2199	2063	1450	778	448	193	150	127
37.5	2447	2349	2124	1900	1215	745	433	188	155	119
40.0	2432	2297	2051	1673	1009	715	416	221	153	114
42.5	2403	2239	1955	1359	858	635	385	231	151	107
45.0	2312	2138	1835	1030	670	541	338	270	140	104
47.5	2223	2055	1703	749	504	473	361	302	136	93
50.0	2140	2044	1603	566	422	412	398	260	128	68
52.5	2113	2060	1498	497	381	352	355	210	92	34
55.0	1963	1934	1357	463	362	300	305	143	87	31
57.5	1908	1862	1203	418	358	246	192	108	80	28
60.0	1807	1772	1044	358	362	169	143	71	54	27
62.5	1544	1491	834	292	295	107	98	70	46	27
64.0	1326	1259	677	240	207	109	87	55	37	26
65.0	1266	1205	619	222	165	99	73	51	40	25
67.5	1079	979	426	163	91	84	57	40	33	21
70.0	902	781	309	124	75	75	57	30	24	17
72.5	688	554	223	93	71	72	54	22	17	13
75.0	506	387	173	76	63	63	40	17	13	10
77.5	281	239	102	60	49	47	31	13	9	8
80.0	219	177	47	40	29	27	18	12	9	9
82.5	86	82	31	22	16	13	13	12	8	7
85.0	20	19	14	11	11	7	6	5	3	2
87.5	6	5	4	4	4	3	2	1	1	1
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

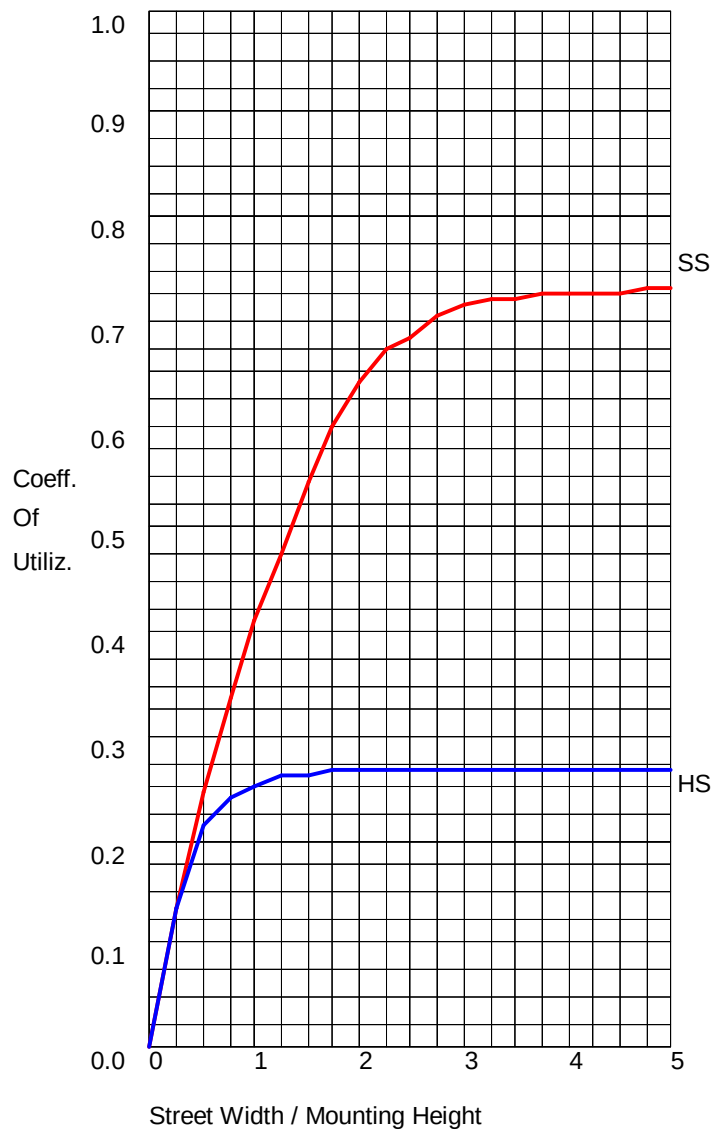
	<u>180</u>
0.0	1534
2.5	1508
5.0	1478
7.5	1429
10.0	1367
12.5	1314
15.0	1247
17.5	1104
20.0	888
22.5	628
25.0	380
27.5	237
30.0	158
32.5	124
35.0	116
37.5	108
40.0	104
42.5	102
45.0	98
47.5	88
50.0	69
52.5	26
55.0	21
57.5	21
60.0	23

IES ROAD REPORT
PHOTOMETRIC FILENAME : XPWS3-FT-LED-48-450-CW-UE.IES

CANDELA TABULATION - (Cont.)

62.5	24
64.0	24
65.0	23
67.5	20
70.0	15
72.5	12
75.0	9
77.5	8
80.0	9
82.5	6
85.0	3
87.5	1
90.0	0

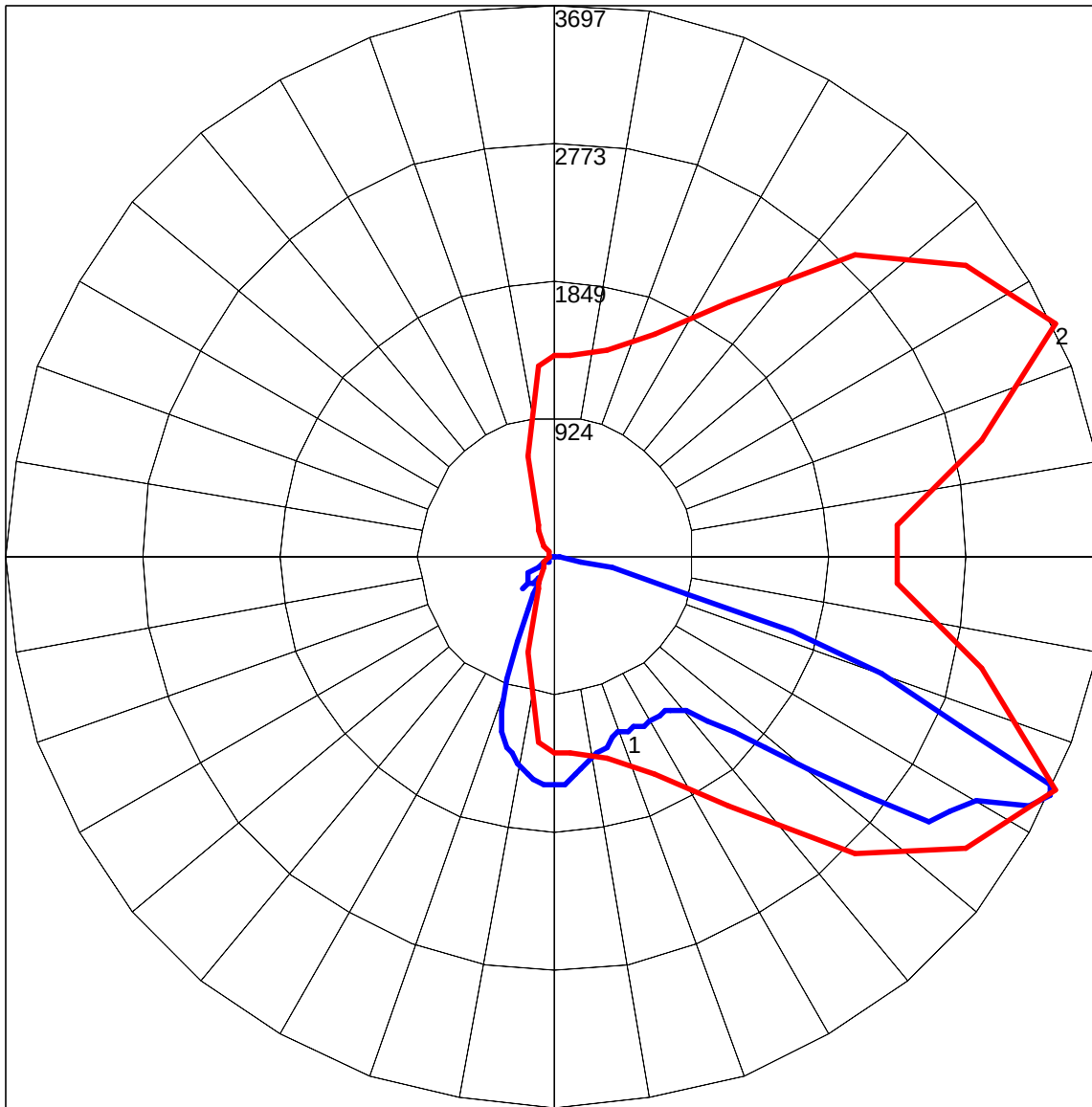
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

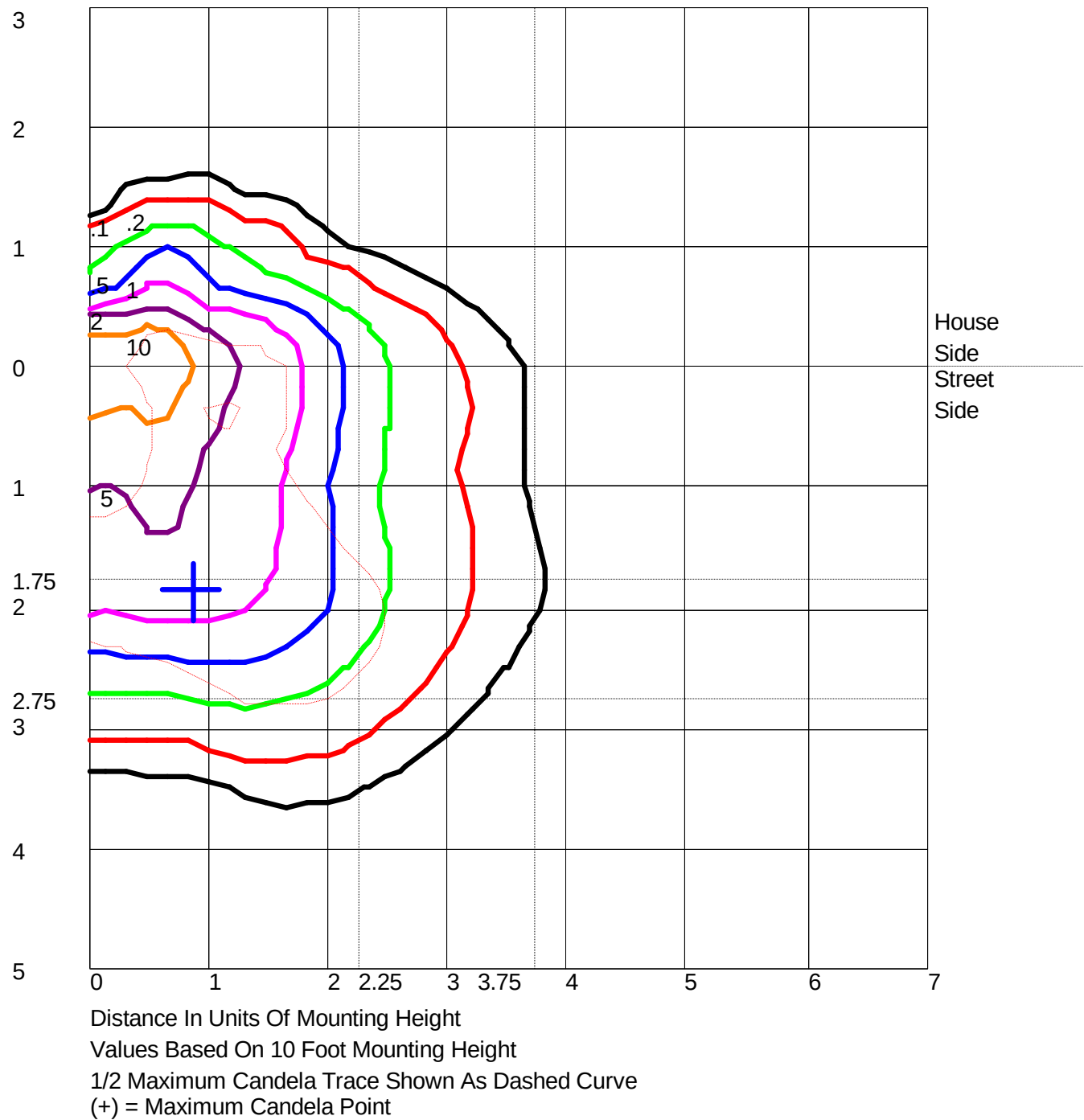
	Lumens	Percent Of Luminaire
Downward Street Side	4502.2	73.1
Downward House Side	1656.6	26.9
Downward Total	6158.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	6158.8	100.0

POLAR GRAPH

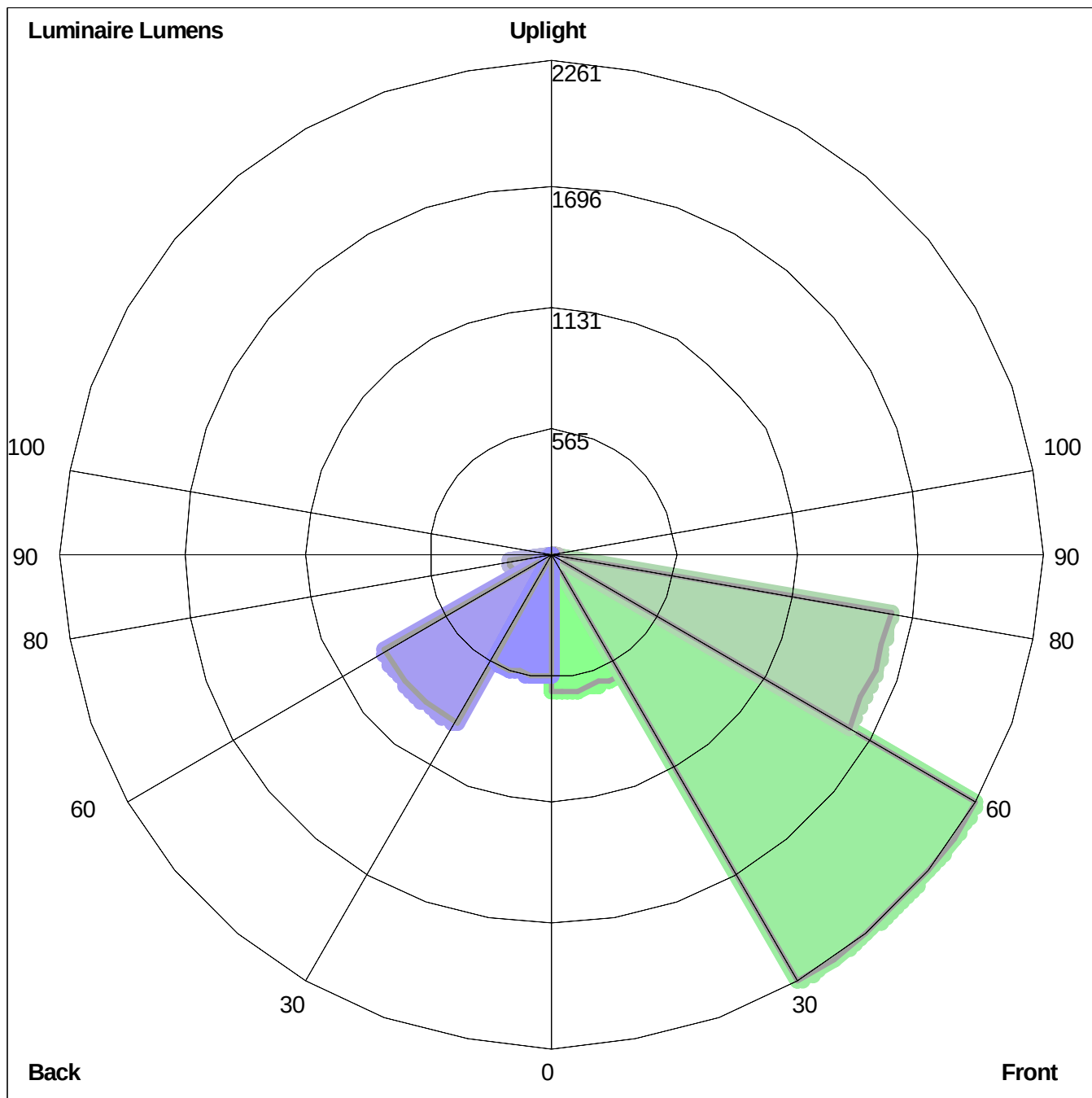


Maximum Candela = 3697 Located At Horizontal Angle = 25, Vertical Angle = 64
1 - Vertical Plane Through Horizontal Angles (25 - 205) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (64) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



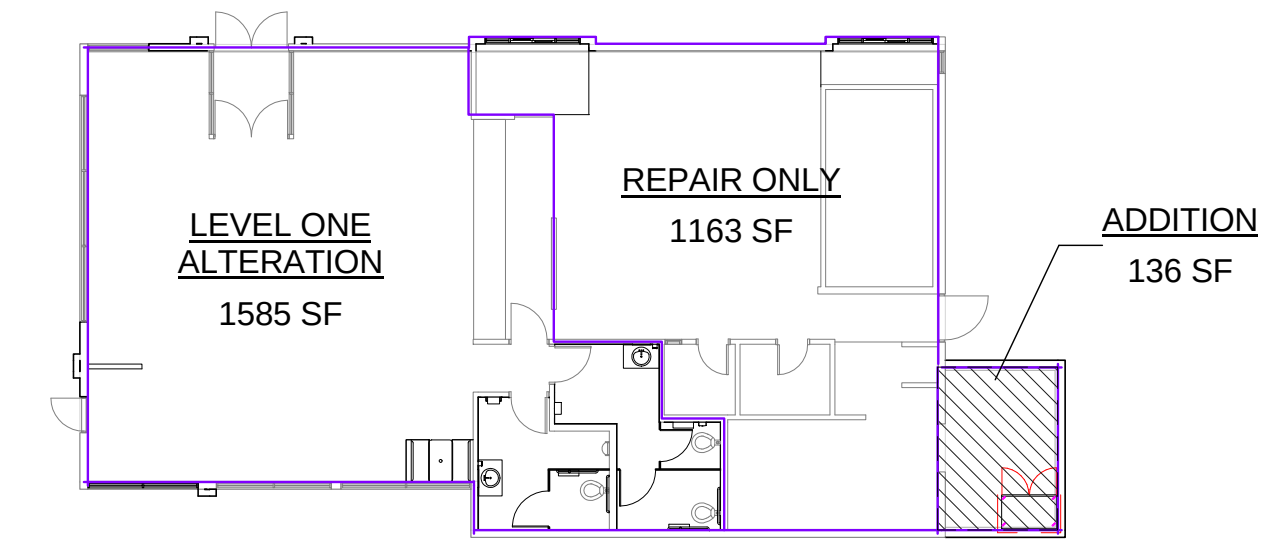
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=632.8, Medium=2261.4, High= 1579.0, Very High=29.1
Back: Low=559.2, Medium=895.4, High=194.5, Very High=7.5
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G1

719 W. Badger Road
Madison, WI 53713



116 King St, Suite 202 (608) 204-7464
Madison, WI 53703 AroEberle.com

HARMONY
Construction Management, Inc.

906 Jonathon Dr.
Madison, WI 53713
(608) 224-3310
harmonyconstructionmgmt.com

$$1/16'' = 1'-0''$$

APPLICABLE CODES:
WISCONSIN COMMERCIAL BUILDING CODE 2011 - EFFECTIVE
SEPTEMBER 1, 2011 (BASED ON 2009 INTERNATIONAL BUILDING
CODE WITH WISCONSIN AMENDMENTS - SPS 361 & 362)

2009 INTERNATIONAL ENERGY CONSERVATION CODE WITH
WISCONSIN AMENDMENTS (SPS 363)2009 INTERNATIONAL MECHANICAL CODE WITH WISCONSIN
AMENDMENTS (SPS 364)2009 INTERNATIONAL FUEL GAS CODE WITH WISCONSIN
AMENDMENTS (SPS 365)

2009 WISCONSIN PLUMBING CODE - SPS 381-387

WISCONSIN STATE ELECTRICAL CODE - SPS 316

BUILDING USE AND OCCUPANCY CLASSIFICATION:
GROUP A-2

CONSTRUCTION TYPE:
TYPE VB UNSPRINKLED

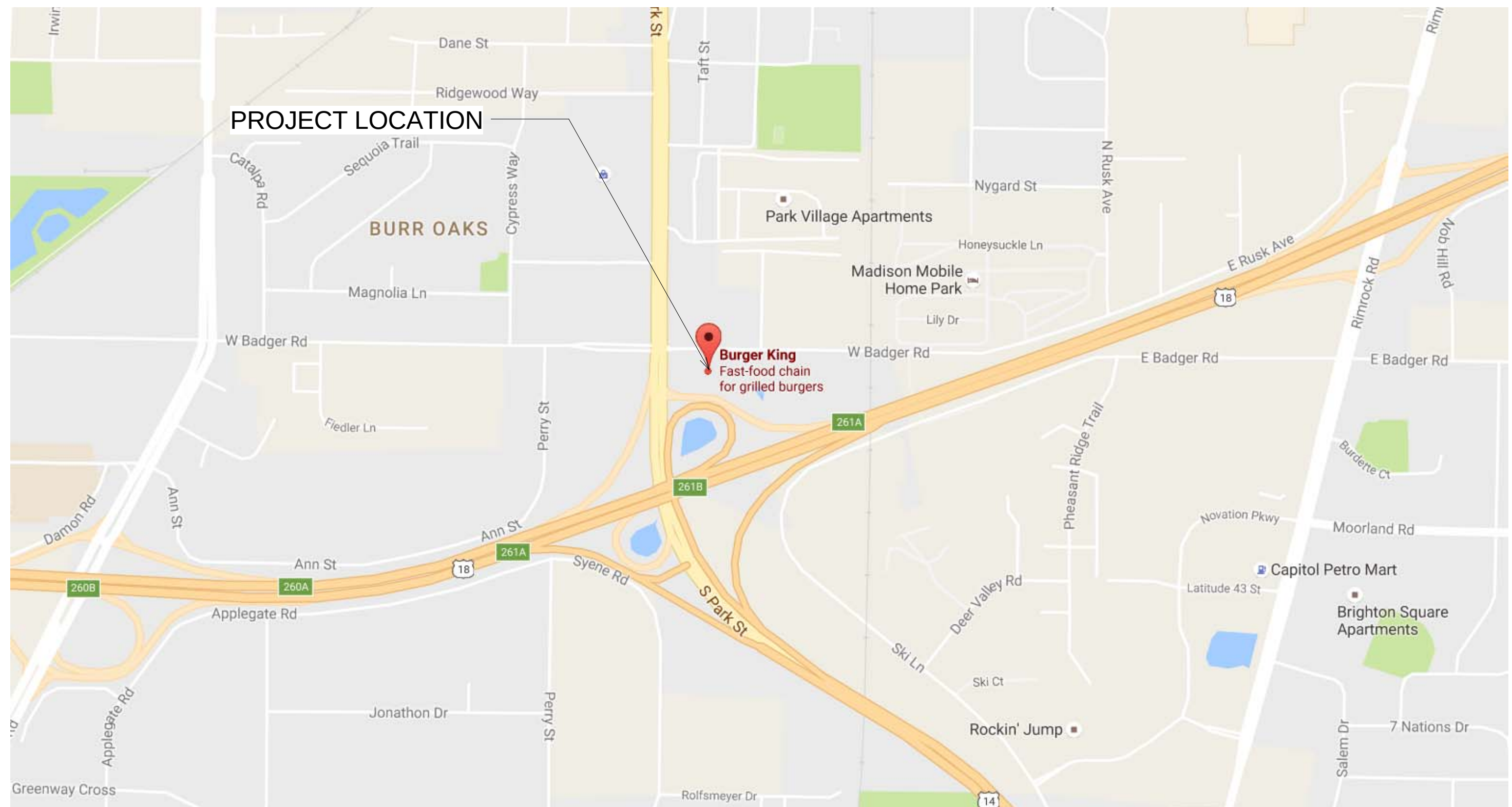
ALLOWABLE AREA/HEIGHT
GROUP A-2 - UNSPRINKLED
ALLOWABLE AREA: 6,000 PER STORY BASED ON TABLE 503;
ALLOWABLE HEIGHT: 1 STORY; 40FT

ACTUAL HEIGHT/AREA:
FIRST FLOOR = 2,884 GSF
HEIGHT = 19'-1"
STORIES = 1 ABOVE GRADE

OCCUPANT LOAD:
DINING AREA: 80 SEATS PROVIDED
KITCHEN / STORAGE: 10 EMPLOYEES
TOTAL OCCUPANTS: 90

MEANS OF EGRESS:
EXIT DOOR CLEAR WIDTH: 32"
EXIT WIDTH REQUIRED: 19"
EXIT WIDTH PROVIDED: 108"
EXITS REQUIRED: 2
EXITS PROVIDED: 3

PROJECT TYPE:
EXTERIOR: LEVEL II ALTERATION (NO ASSOCIATED AREA)
INTERIOR:
DINING AREA DECOR UPGRADE: LEVEL I ALTERATION
RESTROOM IMPROVEMENTS: LEVEL I ALTERATION
STORAGE ROOM: ADDITION



CONSTRUCTION MANAGER:

HARMONY CONSTRUCTION MANAGEMENT
906 JONATHAN ST.
MADISON, WI 53713
CONTACT: PAUL REED
608-224-3310
HARMONYINC@HARMONYCYM.NET

ARO EBERLE ARCHITECTS INC.
116 KING STREET, SUITE 202
MADISON, WI 53703
CONTACT: DOUGLAS PAHL, AIA
PH: (608) 204-7464
EMAIL: PAHL@AROEBERLE.COM

GENERAL	
T001	COVER SHEET
T002	NOTES, SYMBOLS, AND SCHEDULES
T003	LIGHTING SCHEDULE
T004	EXTERIOR FINISH SCHEDULE
T005	INTERIOR FINISH SCHEDULE

DEMOLITION	
D001	ARCHITECTURAL SITE PLAN - DEMO
D101	FIRST FLOOR DEMOLITION PLAN
D111	FIRST FLOOR CEILING DEMOLITION PLAN
D201	DEMOLITION ELEVATION

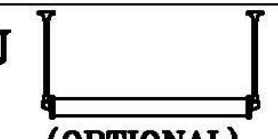
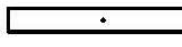
ARCHITECTURAL	
A400	ENLARGED PLANS & INTERIOR ELEVATIONS
A401	INTERIOR ELEVATIONS
A402	INTERIOR ELEVATIONS
A001	ARCHITECTURAL SITE PLAN
A101	FIRST FLOOR PLAN
A102	ROOF PLAN
A111	FIRST FLOOR REFLECTED CEILING PLAN
A201	EXTERIOR ELEVATIONS
A500	WALL SECTIONS
A501	WALL SECTIONS
A502	EXTERIOR DETAILS
A600	FINISH PLAN & SCHEDULE
A700	INTERIOR ELEVATIONS BATHROOMS

[illegible]

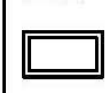
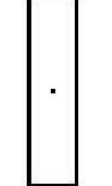
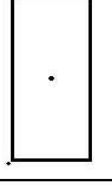
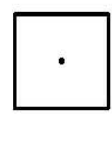
**SOUTHERN
WISCONSIN FOODS
LLC.
BURGER KING 12075
REMODELING
719 W. Badger Road
Madison, WI 53713**

PR	
Project number	HMC-16-03
Date	11/30/2016

T001

DATE: 02/11/2016						
EXTERIOR LIGHT FIXTURE SCHEDULE						
LED OPTIONS						
ALL REMODELS & NEW CONSTRUCTION EXTERIOR	TYPE	MANUFACTURER	CATALOG NO.	WATTAGE	COLOR TEMP.	REMARKS
	J  (OPTIONAL)	SECURITY	SLED-LED-48-DO-120-BL-ADJ	50	5200 K	4' LINEAR LED DESCRIPTION: GOOSE NECK EXTERIOR FIXTURE MARKED FOR WET LOCATION ***TO BE MOUNTED ON 12" ARM
		CREE (RUUD)-HERMITAGE	LFL-A-4-DO-UL-BK-53K	35	5300 K	
	K  (NEW CONSTRUCTION)	LSI	XSL2-S-LED-50-CW-120-WHT-CMT	86	5000 K	RECESSED SOFFIT LIGHT
		SECURITY	851/852-LED-60-U-W	30	5000 K	
	K  (REMODELS)	LSI	XSL2-S-LED-50-CW-120-WHT-CMT (RETROFIT)	86	5000 K	RECESSED SOFFIT LIGHT
		SECURITY	851/852-LED-60-U-W (RETROFIT)	30	5000 K	
	L 	LSI	XPWS3-FT-LED-48-450-CW-UE-MSV	72	5000 K	
		SECURITY	RWSC-30LED-WD-PS-MT (DOWN ONLY)	30	5000 K	
			RWSC-30LED-UD-PS-MT (UP / DOWN)	30	5000 K	
		CREE (RUUD)-HERMITAGE	RS-30WLED-DO-SV-120 (DOWN ONLY)	30	5300 K	
			RS-42WLED-UD-SV-120 (UP / DOWN)	42	5300 K	
		KONTECHUSA	KON-WS-40-XX (DOWN ONLY)	40	5000 K	
			KON-WS-60-XX (UP / DOWN)	60	5000 K	
	M 	KONTECHUSA	KON-DVP-182-14-JY	36	4500 K	TO BE USED AT AWNINGS ONLY
	N 	LSI	SWM-2-LED-CW-UE-GBZ	42	5000 K	WALL MOUNTED SECURITY LIGHT
		SECURITY	WGH-1LU-M	41	5000 K	
		CREE (RUUD)-HERMITAGE	E.WP1X031Z7	27	4000 K	
	O 					1. CONTINUOUS ARCHON TOWER LIGHTING 2. DOWNLIGHT 3. TO BE PLACED AT TOP OF ARCHON TOWER
		SECURITY	HIRAF-LED(96,72,48,36,24)-DO-120-BL (20/20 LIGHT) HIRAF-LED(96,72,48,36,24)-DO-120-PS (GARDEN GRILL)	8.5/FT. 8.5/FT.		
		CREE (RUUD)-HERMITAGE	LFL-A-(3,4,6,8)-DO-UL-BK-53K (20/20 LIGHT) LFL-A-(3,4,6,8)-DO-UL-CS-53K (GARDEN GRILL)	3'-28" 4'-35" 6'-52" 8'-70"	5300 K 5300 K	
	P 					1. ARCHON TOWER LIGHTING 2. UPLIGHT 3. TO BE PLACED ABOVE ARCHON TOWER CANOPY
		SECURITY	SL-LED(48,36)-DO-120-BL (20/20 LIGHT) SL-LED(48,36)-DO-120-PS (GARDEN GRILL)	50 50	5200 K 5200 K	
		CREE (RUUD)-HERMITAGE	LFL-A-(3,4)-UD-UL-BK-53K (20/20 LIGHT) LFL-A-(3,4)-UD-UL-CS-53K (GARDEN GRILL)	3'-18" 4'-23"	5300 K 5300 K	

CONTACT INFORMATION		
<u>SECURITY LIGHTING</u> ERIC HILLESLAND 630-636-8493 <u>LSI</u> RON LARIMORE 800-436-7800 x-3375 <u>LUMENS</u> WWW.LUMENS.COM 877-445-4486	<u>CREE / HERMITAGE</u> STEVE FRIEDMAN 262-504-5479 WYATT CULVER 615-843-3379	<u>TREND LIGHTING</u> JULIE SCHNEIDEWIND 626-506-6973 KONTECHUSA MIGUEL MARTINEZ 866-236-8701 JIM MILES jim@floridaelectronic.net 727-560-7985 DAVE VAN DER BEEK davidv2009@att.net 727-919-1816

INTERIOR LIGHT FIXTURE SCHEDULE							
20/20 LIGHT INTERIOR ACCENT FIXTURES	TYPE	MANUFACTURER	CATALOG NO.	WATTAGE	REMARKS		
	B1 	LUMENS	86998A / R7S-T3-118MM, 1X150W	150W	(SEE CONTACT INFORMATION BELOW) DECORATIVE MATTE-NICKEL WALL SCONCE. COORDINATE LOCATION AND QUANTITY WITH DECOR SUPPLIER. HEIGHT OF WALL SCONCE TO BE: 6"-6" CENTERED A.F.F.		
	B2 (OPTION 1) 	LSI	BESA CIERRO TYPE P4 "RUBY MATTE" (1 PENDANT FIXTURE) 1JT-4124RM-SN-LAMP	GU-24	DECORATIVE GLASS SINGLE PENDANT LIGHT.PENDANTS TO BE CENTERED OVER TABLES PER DECOR DRAWINGS. COORDINATE LOCATION AND QUANTITY WITH DECOR SUPPLIER. LOWEST BOTTOM OF LIGHT: 6"-6" A.F.F.		
		SECURITY	BESA CIERRO TYPE P4 "RUBY MATTE" (1 PENDANT FIXTURE) 1JT-4124RM-SN-LAMP	GU-24			
		CREE (RUUD)-HERMITAGE	BESA CIERRO TYPE P4 "RUBY MATTE" (1 PENDANT FIXTURE) 1JT-4124RM-SN-LAMP	GU-24			
B2 (OPTION 2) 	TREND LIGHTING	BKP-003 w/ BULBED		DECORATIVE PENDANT LIGHT WITH PENDANTS TO BE CENTERED OVER TABLES PER DECOR DRAWINGS. COORDINATE LOCATION AND QUANTITY WITH DECOR SUPPLIER. BOTTOM OF LIGHT ● 6"-6" A.F.F.			
LED OPTIONS							
ALL REMODELS & NEW CONSTRUCTION INTERIOR	TYPE	MANUFACTURER	CATALOG NO.	WATTAGE	COLOR TEMP.	REMARKS	
	C 	SECURITY	SLSP5741-31MODGU2415LED	15	3500 K	6" OR 7" DIAMETER RECESSED DOWN LIGHT	
		CREE (RUUD)-HERMITAGE	LR6-10L-30K-120-A-DR W/ SC6-BL-GU24 W/ LT6	11	3000 K		
	D 	LSI	PDL6K-LED-HO-WW-120	13	3000 K		6" OR 7" DIAMETER RECESSED DOWN LIGHT
		SECURITY	SLSD8XQL-LB6LEDA30K-WH	14	3000 K		
		CREE (RUUD)-HERMITAGE	LRS-10L-30K-120-A-DR W/ RC6-12W-GU24	11	3000 K		
	D2 					6" ADJUSTABLE, RECESSED WALL WASHER	
	E 	LSI	PEC14-LED-HO-RAD-WW-UE	34	3500 K	1. FOR REMODELS ONLY 2. TO BE USED IN RESTROOMS	
		SECURITY	LLT1430LWGFSA12FE-C388		3000 K		
		CREE (RUUD)-HERMITAGE	ZR14-40L-35K-10V	44	3500 K		
	G 	LSI	GA24-LED-HO-NW-UE-P12	57	4000 K	1. TO BE USED IN KITCHEN 2. 2x4 RECESSED LED	
		SECURITY	LJT24-40MLG-FSA12-EU-C388	40.8	4000 K		
		CREE (RUUD)-HERMITAGE	CR24-40L-40K-S	40	4000 K		
	H 	LSI	PEC22-LED-HO-RAD-WW-UE	45	3500 K	2x2 RECESSED LED	
		SECURITY					
		CREE (RUUD)-HERMITAGE	ZR22-32L-35K-10V	35	3500 K		
	EM 	LSI	LTEM-WH	(2) 1 LED		EMERGENCY LIGHT	
		SECURITY					
CREE (RUUD)-HERMITAGE		EM22RWH	11				
EMX 	LSI	LPRX-R-U-WH-LD11-R	(2) 1.1 LED		EXIT/EMERGENCY LIGHT		
	SECURITY	CORRC					
	CREE (RUUD)-HERMITAGE	EXDMBRWH	11				

NOTES	
1. NOT ALL LIGHT FIXTURE TYPES SHOWN ON SCHEDULE MAY BE USED ON THIS PROJECT. REFER TO LIGHTING PLAN FOR PROJECT SPECIFIC TYPES AND QUANTITIES.	
2. PENDANT FIXTURES "B2" MUST BE CENTERED OVER TABLE TOPS. COORDINATE WITH DECOR DRAWINGS.	
3. EXCEPT FOR DROPPED CEILING OPTION, ALL LIGHT FIXTURES IN DINING ROOM AREA AND RESTROOM CORRIDOR ARE TO BE SUPPORTED FROM EXPOSED ROOF TRUSSES.	
4. CONTRACTOR TO NOTIFY LIGHTING SUPPLIER OF THE FOLLOWING: FIXTURE TYPES 'C' AND 'D' WILL BE REQUIRED TO BE LENS AT THE LOCATIONS OVER THE SERVICE AREA AND OVER THE SELF-SERVE DRINK AREA. FIXTURE TYPE 'G2' WILL REQUIRE A LENS OR TUBE GUARD AT THOSE LOCATIONS.	

No.	Description	Date

SOUTHERN
WISCONSIN FOODS
LLC.

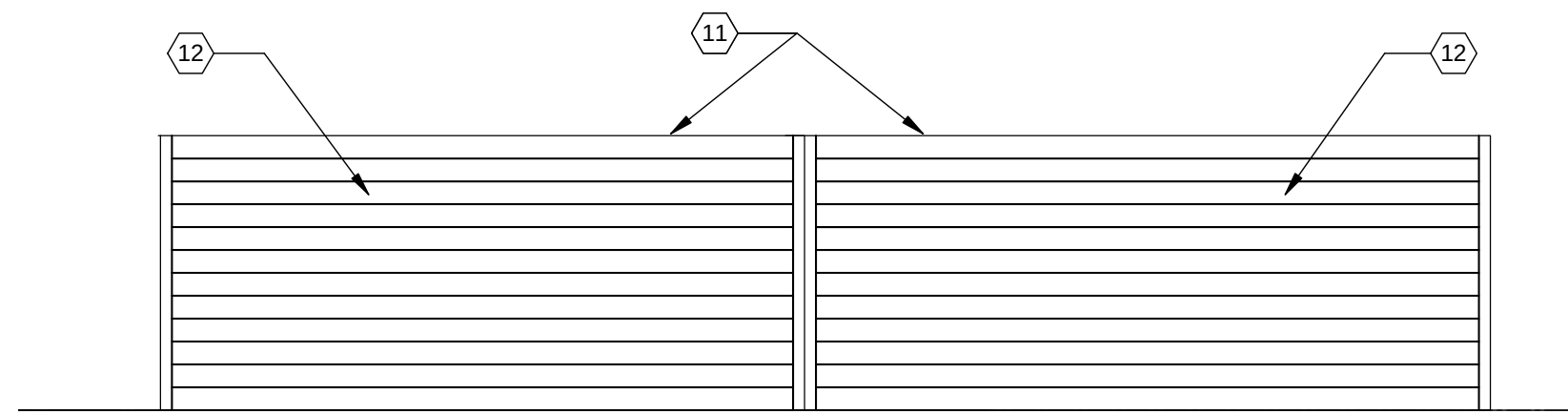
BURGER KING 12075
REMODELING

719 W. Badger Road
Madison, WI 53713

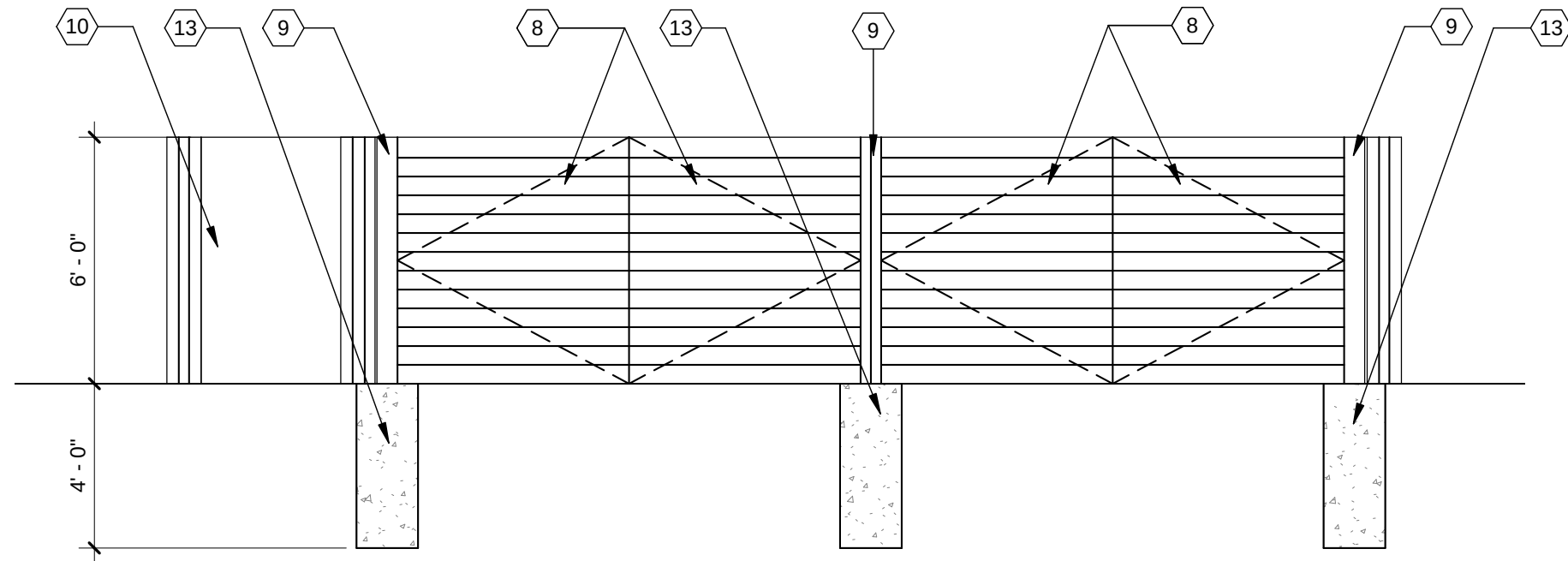
LIGHTING SCHEDULE

PR	
Project number	HMC-16-03
Date	11/30/2016

T003

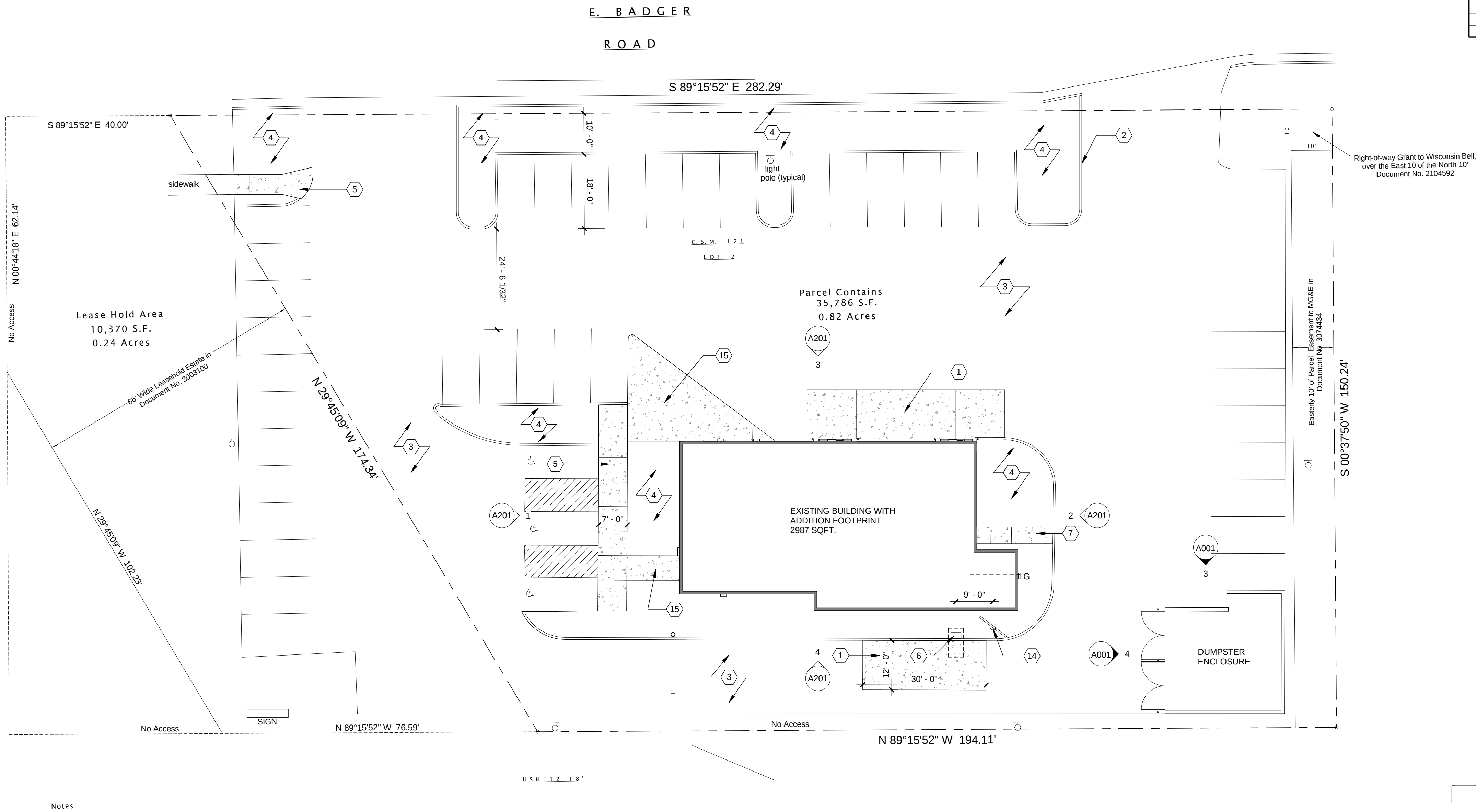


3 NORTH DUMPSTER ENCLOSURE ELEVATION
1/4" = 1'-0"



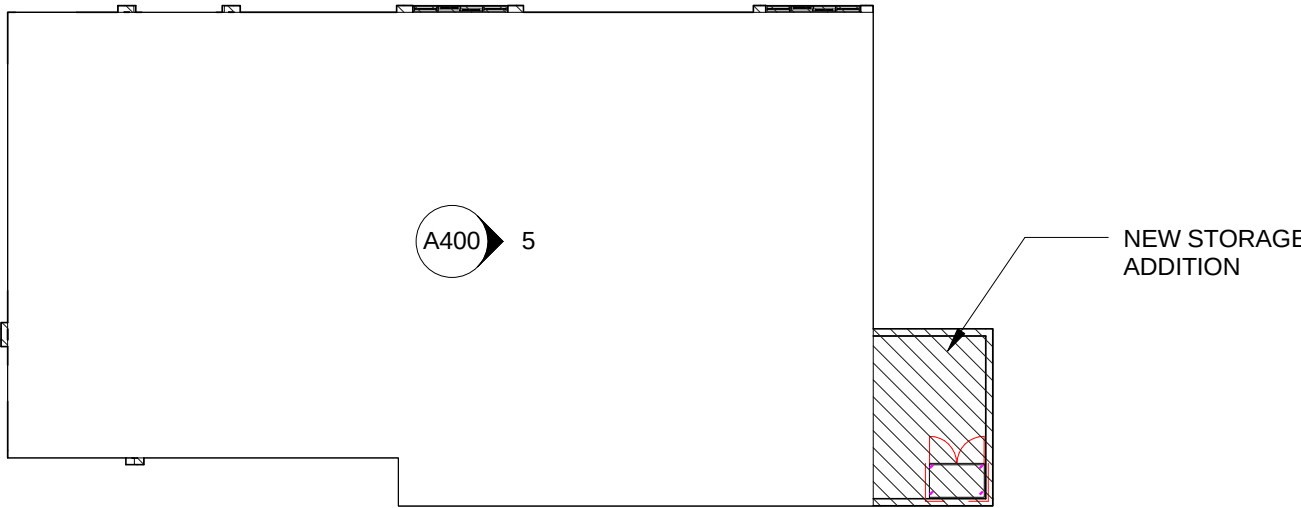
4 WEST DUMPSTER ENCLOSURE ELEVATION
1/4" = 1'-0"

KEYED NOTES	
1	NEW HEAVY DUTY CONCRETE SLAB: 6" CONCRETE PAVEMENT W/ 6X6 WWF; OVER 4" OF 1 1/4" DENSE GRADED BASE MEETING DOT SPEC. SECTION 305 OVER 6" OF 3" DENSE GRADED BASE MEETING DOT SPEC SECTION 305
2	NEW 6" CONCRETE CURB
3	MILL 1 1/2" WEAR LAYER (SURFACE COURSE) FROM PARKING LOT SURFACE; REPAIR BINDER LAYER OR BASE COURSE WHERE DAMAGED; REPAVE WITH 1 1/2" TYPE E-1 WEAR LAYER (SURFACE COURSE); RESTRIPE ENTIRE LOT TO MATCH EXISTING OR AS SHOW ON SITE PLAN.
4	NEW LANDSCAPING IN NEW OR EXISTING PLANTING BED - SEE LANDSCAPING PLANS
5	NEW CONCRETE SIDEWALK
6	NEW O.C.U. ON CONCRETE FOOTING
7	EXISTING SIDEWALK TO REMAIN
8	1X6 CEDAR SLATS W/ 2 COATS SEMI-TRANSPARENT, OIL BASED STAIN; ATTACH TO NEW PAINTED STEEL FRAME ATTACHED TO STEEL POST W/ HEAVY DUTY HINGES
9	CONC. FILLED 6X6X1/4" STEEL POSTS; WELDED TO 12X12X1/2" STEEL BASE PLATES ANCHORED INTO CONC. FOOTING
10	EP-2G OVER EXISTING STUCCO FINISH
11	MC-2G
12	LP, SMARTSIDE LAP SIDING, PAINTED TO MATCH EP-2G PROVIDE MATCHING TRIM AT CORNERS
13	18" DIA. CONC. FOOTING, 4'-0" DEEP, WITH 1/2" THREADED RODS EMBEDDED 24" FOR BASEPLATE ATTACHMENT
14	EXISTING MENU BOARD TO REMAIN, PAINT BASE AND CABINET BLACK
15	EXISTING CONCRETE WALK TO REMAIN



1 SITE PLAN - NEW WORK
1/16" = 1'-0"

5 ADDITION KEY PLAN
1/16" = 1'-0"



No.	Description	Date

SOUTHERN
WISCONSIN FOODS
LLC.

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REMODELING

719 W. Badger Road
Madison, WI 53713

ARCHITECTURAL
SITE PLAN

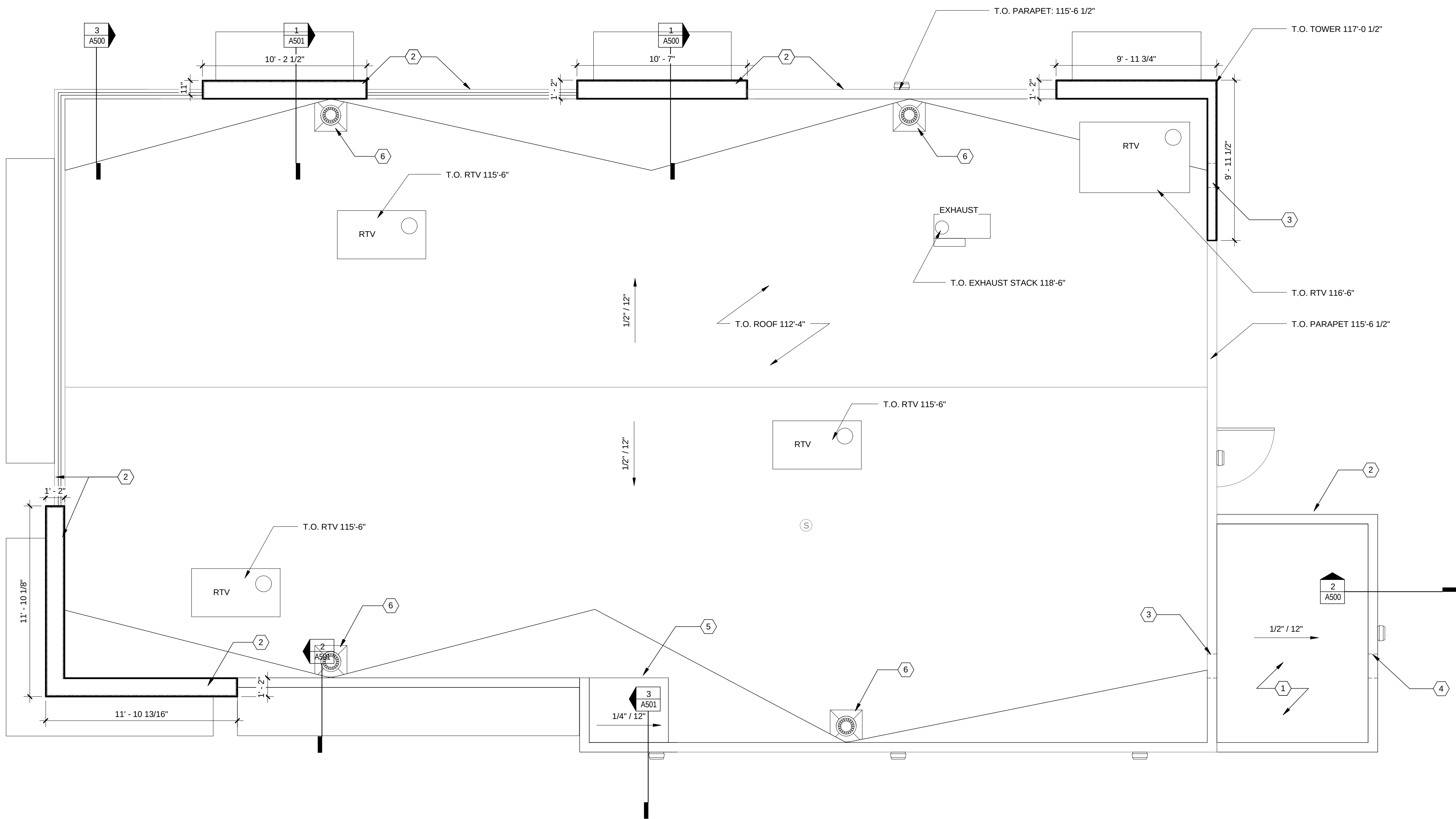
PR	
Project number	HMC-16-03
Date	11/30/2016

A001

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1 ROOF PLAN - NEW WORK

1/4" = 1'-0"



KEYED NOTES	
1	NEW PVC ROOF MEMBRANE
2	SHEET METAL COPING - SEE ELEVATIONS FOR TYPE
3	EXISTING THROUGH WALL SCUPPER
4	NEW THROUGH WALL SCUPPER
5	INFILL OVER SLOPED ROOF AREA, SLOPE 1/4"/FOOT COVER W/ PVC ROOF MEMBRANE
6	EXISTING ROOF DRAINS



116 King St, Suite 202
Madison, WI 53703

(608) 204-7464
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No.	Description	Date

SOUTHERN
WISCONSIN FOODS
LLC.

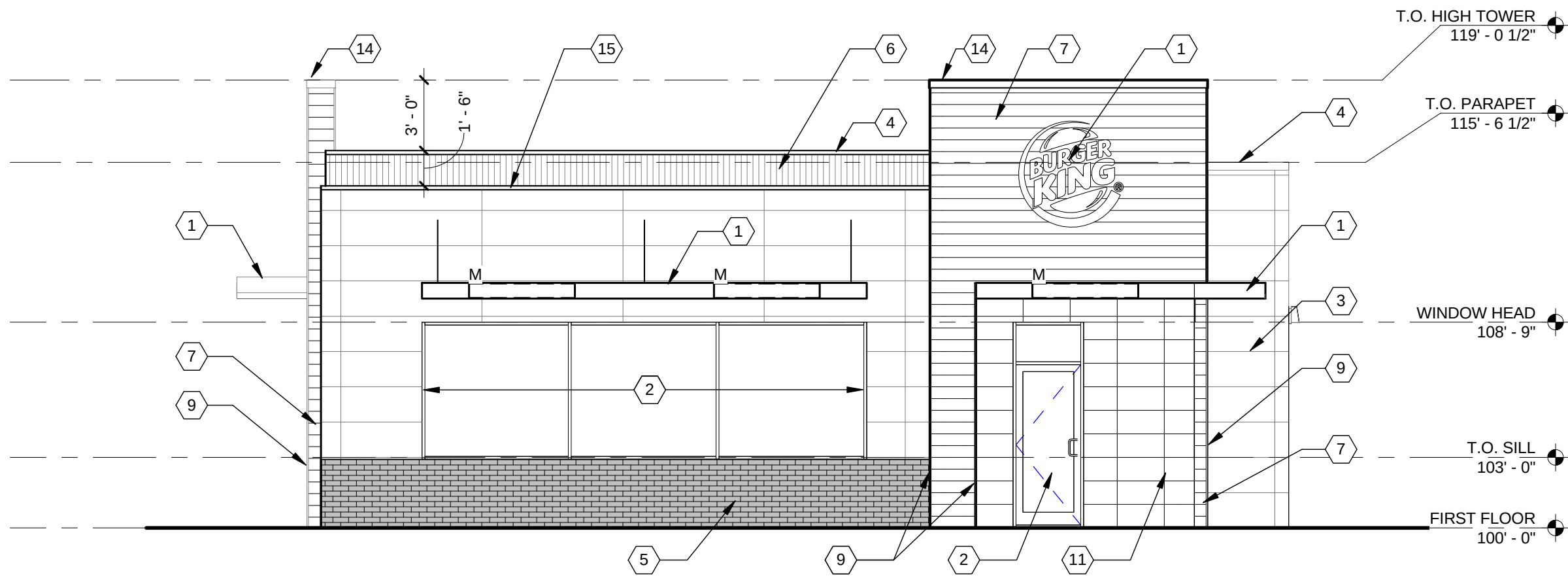
BURGER KING 12075
REMODELING

719 W. Badger Road
Madison, WI 53713

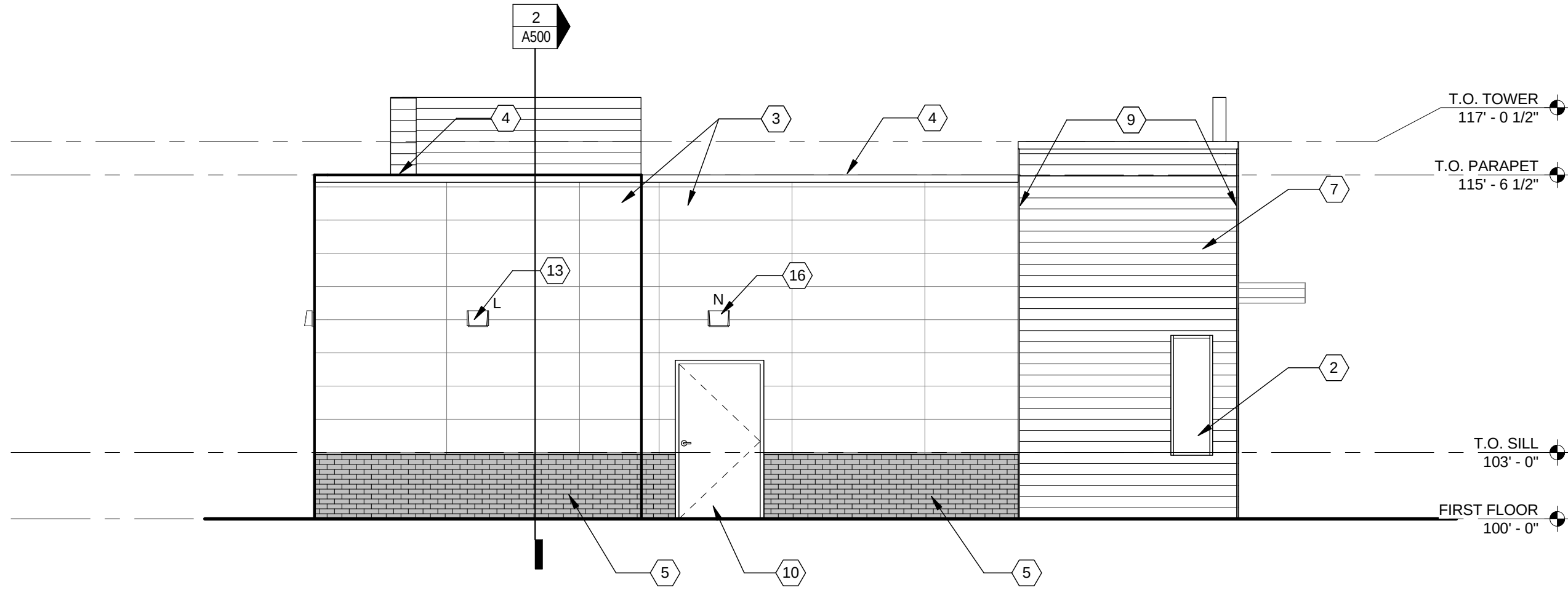
ROOF PLAN

PR	
Project number	HMC-16-03
Date	11/30/2016

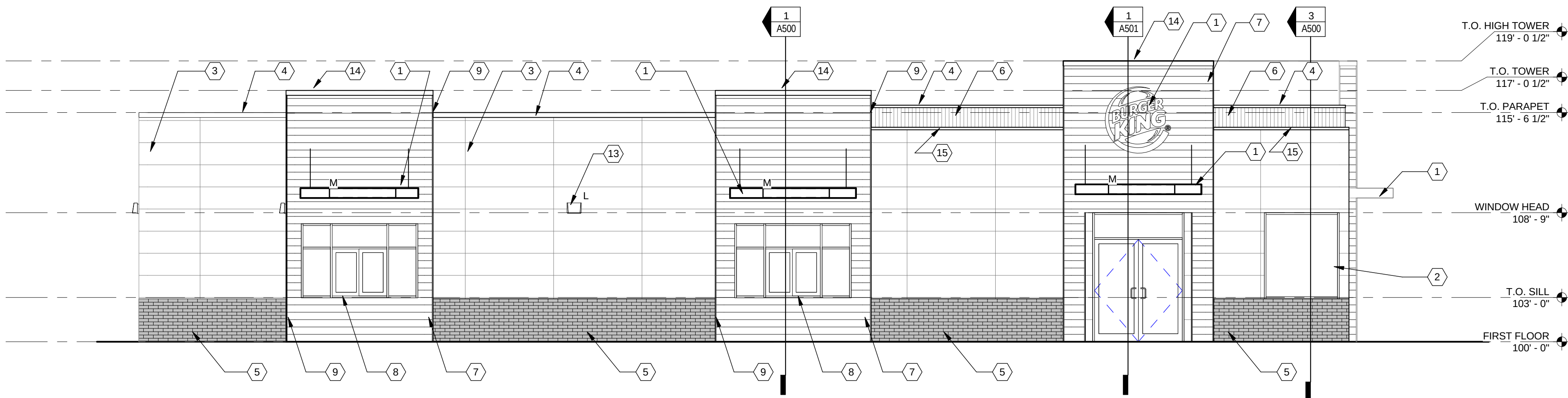
A102



1 WEST NEW WORK
3/16" = 1'-0"



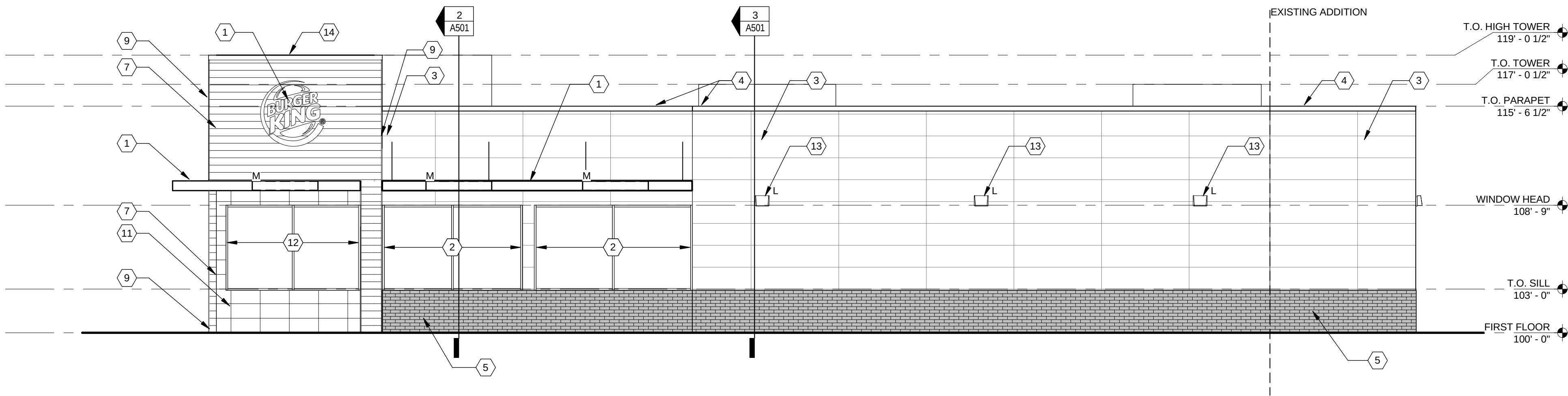
2 EAST NEW WORK
3/16" = 1'-0"



3 NORTH NEW WORK
3/16" = 1'-0"

KEYED NOTES

1	OFCI SIGNAGE ELEMENT
2	EXISTING STOREFRONT TO REMAIN
3	EF-1G
4	METAL FLASHING/COPING MC-1G
5	EB-1G
6	OFCI LIGHT BAND
7	EF-9G
8	SELF CLOSING DRIVE-THROUGH WINDOW
9	TR-1G
10	PAINT DOOR & FRAME EP-4G
11	ETC-1G W/ ECR-4G
12	NEW ALUM STOREFRONT SYSTEM, MATCH EXISTING TYPE AND FINISH - PROVIDE 1" INSULATED GLASS UNITS
13	NEW LED EXTERIOR LIGHTING
14	MC-3G
15	MC-2G
16	NEW LED WALL PACK TYPE N



4 SOUTH NEW WORK
3/16" = 1'-0"

No.	Description	Date

SOUTHERN
WISCONSIN FOODS
LLC.

BURGER KING 12075
REMODELING

719 W. Badger Road
Madison, WI 53713

EXTERIOR
ELEVATIONS

PR	
Project number	HMC-16-03
Date	11/30/2016

A201



SOUTH ELEVATION



WEST ELEVATION



NORTH ELEVATION



EAST ELEVATION

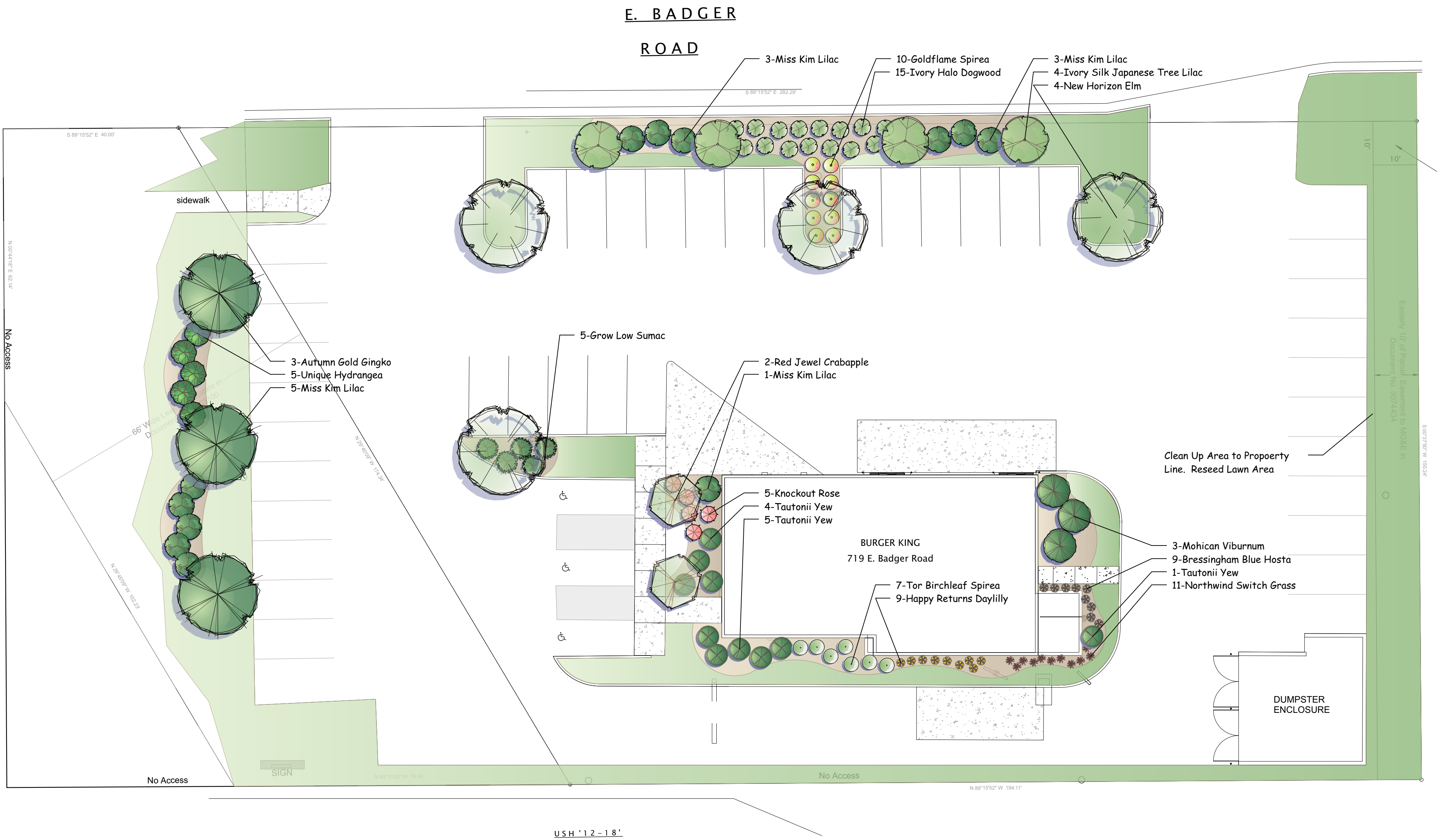


PAINTED MASONRY OR FIBER CEMENT PANEL

MASONRY

FAUX WOOD CEMENT BOARD PANEL

TILE



CITY OF MADISON LANDSCAPE WORKSHEET	
Landscape Calculations and Distribution	
(a) One (1) landscape unit shall be provided for each three hundred (300) square feet of developed area, with the exception of th IL and IG districts as specified in (b) below. Total square footage of developed area = 36,085 Developed area divided by 300 square feet = 120 Landscape Units	
(b) Within the Industrial - Limited (IL) and Industrial - General (IG) districts, one landscape unit shall be provided for every 600 square feet of developed area. Total square footage of developed area = Developed area divided by 600 square feet = 0 Landscape Units	
(c) One landscape unit consists of 5 landscape points. Landscape points are calculated as shown in the Tabulation of Points and Credits table. Landscape units multiplied by 5 landscape points = 601 Total Points Required	

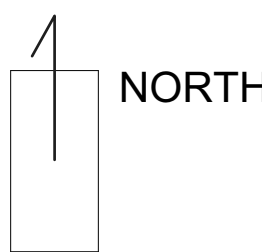
Tabulation of Points and Credits						
Plant Type/ Element	Minimum Size at Installation	Points	Credits/ Existing Landscaping		New/ Proposed Landscaping	
			Quantity	Points Achieved	Quantity	Points Achieved
Overstory deciduous tree	2 1/2 inch caliper	35	0	0	7	245
Ornamental Tree	1 1/2 inch caliper	15	0	0	6	90
Evergreen Tree	18" or 3 gallon	15	0	0	0	0
Shrub, deciduous	18" or 3 gallon	3	0	0	63	189
Shrub, evergreen	18" or 3 gallon	4	0	0	10	40
Ornamental Grass/ Perennial	18" or 3 gallon	2	0	0	30	60
Ornamental/ decorative fencing c	n/a	4 per 10 lineal ft.	0	0	0	0
Sub Totals				0		624
Total Points Provided =		624				

PLANT LIST						
Latin Name	Common Name	Quantity		Scheduled Size	Points Per Plant	Total Points
Existing Plants		0	0	0	0	0
					Existing Points:	0
Proposed Plants						
	16	16	114	16	135	624
Cornus alba 'Baihalo'	Ivory Halo Dogwood	15		18-24in	3	45
Ginkgo biloba 'Autumn Gold'	Autumn Gold Ginkgo	3		#15	35	105
Hemerocallis 'Happy Returns'	Happy Returns Daylily	9		4.5in Pot	2	18
Hosta 'Bressingham Blue'	Bressingham Blue Hosta	9		1 Gal	2	18
Hydrangea paniculata 'Unique'	Unique Hydrangea	5		2ft	4	20
Malus 'Red Jewel'	Red Jewel Crabapple	2		2in BB	15	30
Panicum virgatum 'Northwind'	Northwind Switch Grass	11		1 Gal	2	22
Rhus aromatica 'Grow Low'	Grow Low Sumac	5		15-18in	3	15
Rosa 'Knockout'	Knockout Rose	5		2 Gal	3	15
Spiraea betulifolia 'Tor'	Tor Birchleaf Spirea	7		12-15in	3	21
Spiraea japonica 'Goldflame'	Goldflame Spirea	10		15-18in	3	30
Syringa 'Miss Kim'	Miss Kim Lilac	12		2-3ft	3	36
Syringa reticulata 'Ivory Silk'	Ivory Silk Japanese Tree Lilac	4		2in BB	15	60
Taxus x media 'Tautonii'	Tautonii Yew	10		#5	4	40
Ulmus x 'New Horizon'	New Horizon Elm	4		2in BB	35	140
Viburnum lantana 'Mohican'	Mohican Viburnum	3		3ft	3	9
					Proposed Points:	624
					Total Points:	624

LANDSCAPE PLAN

BURGER KING

719 WEST BADGER ROAD
MADISON, WISCONSIN



SCALE

1/16"=1'-0"

DATE

NOVEMBER 18, 16

DESIGN

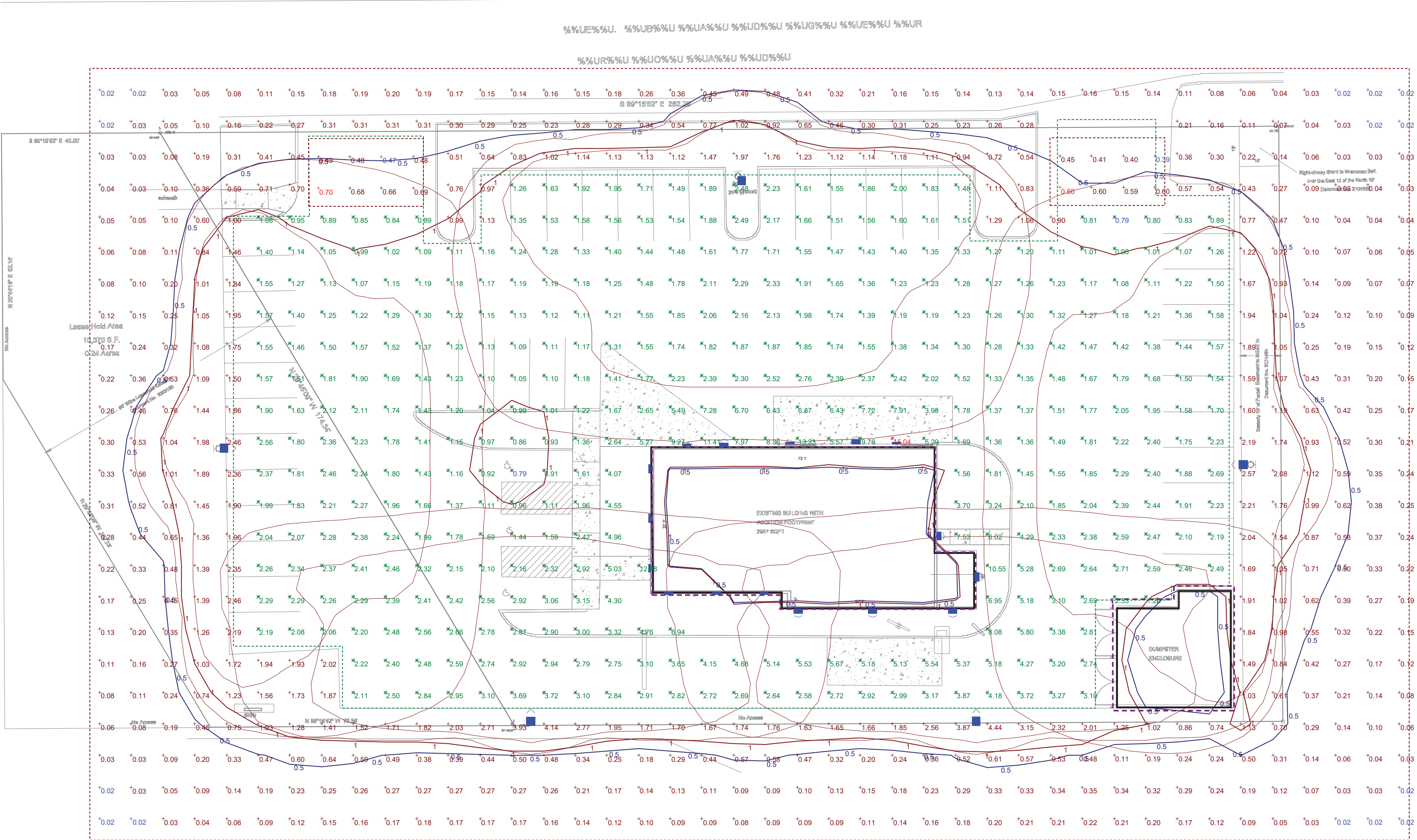
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REVISION

L-1

Schedule									
Symbol	Label	QTY	Catalog Number	Description	Lamp	Number Lamps	Lumens per Lamp	LLF	Wattage
	P1	4	GLEON-AF-03-LED-E1-SL3-HSS	TYPE III - AREA AND ROADWAY LUMINAIRE 70 CRI, 5000K, 1050mA 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD Retail, Roadway, Sidewalk, Site, Street, Substation, Security, Corrosion Resistant, Vandal Resistant, Wet Location ABSOLUTE PHOTOMETRY IS BASED ON CALIBRATION FACTORS CREATED USING LAB LUMEN STANDARDS IN GONIOPHOTOMETER WITH TEST DISTANCE OF 28.75 FEET		48	323.1219	0.9	166
	P2	6	GLEON-AF-03-LED-E1-T4W	TYPE IV - AREA AND ROADWAY LUMINAIRE 70 CRI, 5000K, 1050mA 16 LEDS EACH AND TYPE IV WIDE OPTICS Retail, Roadway, Sidewalk, Site, Street, Substation, Security, Corrosion Resistant, Vandal Resistant, Wet Location ABSOLUTE PHOTOMETRY IS BASED ON CALIBRATION FACTORS CREATED USING LAB LUMEN STANDARDS IN GONIOPHOTOMETER WITH TEST DISTANCE OF 28.75 FEET		48	376.1334	0.9	166
	L	14		Wallpack Luminaire, Type III Medium, 5000K	4 type MDA LEDs	1	2672.591	0.85	25.28
	M	18		4" VAPORTITE 4500K	LED	1	3576	0.85	39.9

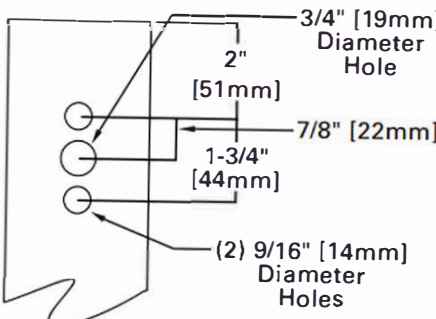
Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
General Parking & Pedestrian Areas	✕	2.37 fc	15.04 fc	0.79 fc	19.0:1	3.0:1
Lot Entrance/Exit 1	+	0.58 fc	0.70 fc	0.47 fc	1.5:1	1.2:1
Lot Entrance/Exit 2	+	0.51 fc	0.66 fc	0.39 fc	1.7:1	1.3:1
Overall Site Lighting Photometrics	+	1.42 fc	15.04 fc	0.02 fc	752:0:1	71.0:1
Tresspass Light @ 4' Above Ground	+	0.41 fc	4.48 fc	0.01 fc	448:0:1	41.0:1



SITE LIGHTING POINT BY POINT FOOT-CANDLE CALCULATION

DRILLING PATTERN

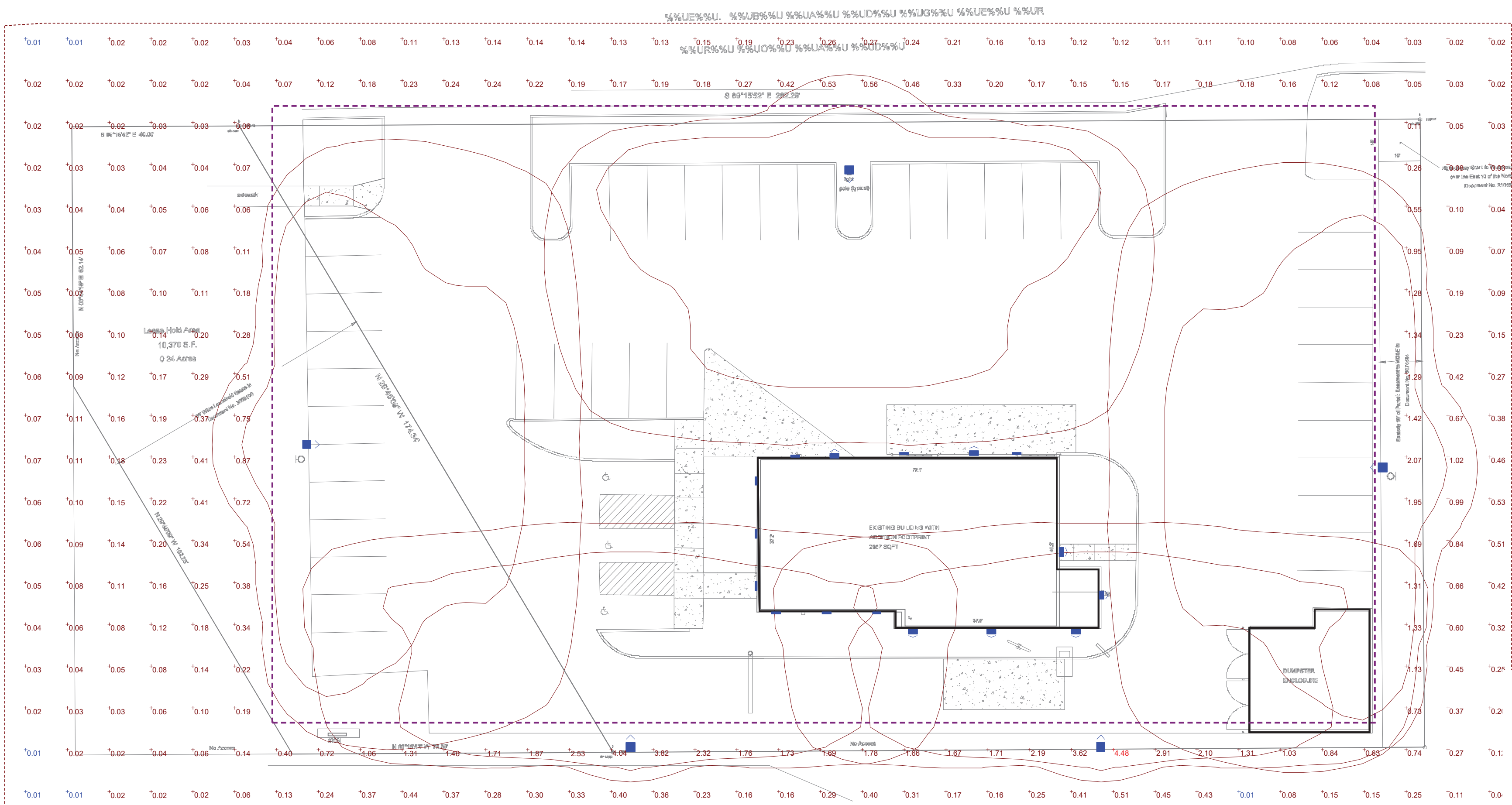
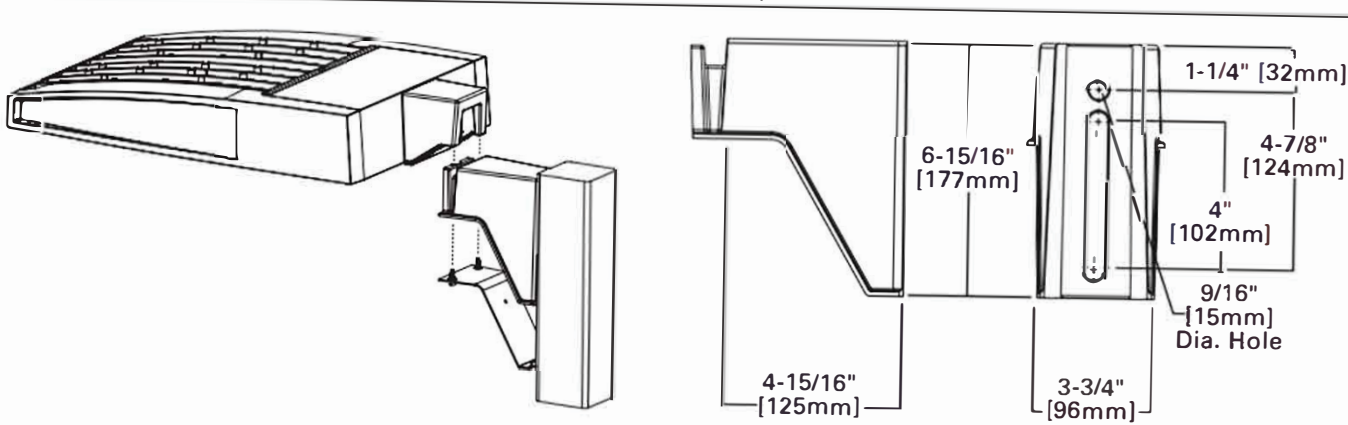
TYPE "N"



POLE MOUNTED LUMINAIRE DEMO AND NEW HEAD MOUNTING:

1. DISCONNECT AND REMOVE EXISTING DOUBLE HEADED LAMP HEADS.
2. DISPOSE OF EXISTING LAMP HEADS
3. DRILL HOLES IN EXISTING POLE PER THE BOLT PATTERN ON THE LIGHT FIXTURE MOUNTING CUT-SHEET.
4. CONTRACTORS OPTION - TENON MOUNT AFTER FIELD VERIFYING OUTSIDE DIAMETER OF THE POLL TOP.

QUICK MOUNT ARM (INCLUDES FIXTURE ADAPTER)



Plan View

Scale - 1" = 20ft

SITE TRESPASS LIGHTING CALCULATION



Badger Road Burger King
Madison, WI
Site Lighting Photometrics

BEAR VALLEY
ENGINEERING, INC.
COMMERCIAL BUILDING SPECIALISTS
MECHANICAL
ELECTRICAL
PLUMBING
HVAC
ROOFING
CONCRETE
PAINTING
LANDSCAPE
ARCHITECTURE
GENERAL CONTRACTING

Designer

Date

11/17/2016

Scale

Not to Scale

Drawing No.

Summary