

OHM LIGHTING LLC

660 4TH STREET #355
SAN FRANCISCO, CA 94107
415 215 1436
WWW.OHMLIGHT.COM

AC MARRIOTT HOTEL

ARCHITECTURAL LIGHTING DESIGN
SPECIFICATION SHEETS

PERMIT SET

OCTOBER 5, 2016

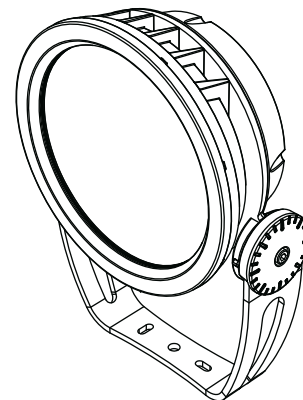
Client _____ Project name _____

Order# _____ Type _____ Qty _____

FEATURES AND BENEFITS

Physical :

- Low copper content high pressure die-cast aluminum housing
- Heavy aluminum formed yoke (standard yoke included)
- Stainless steel hardware
- Silicone sealing devices
- Clear tempered glass
- Dual chamber design for heat management and ease of maintenance
- Electro-statically applied polyester powder coat finish
- 5.44 kg / 12 lbs
- EPA: Front = 0.94 sq. ft. / 0.087 sq. m. Side = 0.56 sq. ft. / 0.052 sq. m.
- IP66
- IK10 rated
- Meets 3G ANSI C136.31 Vibration standard for bridge applications
- Corrosion-resistant coating for hostile environments*



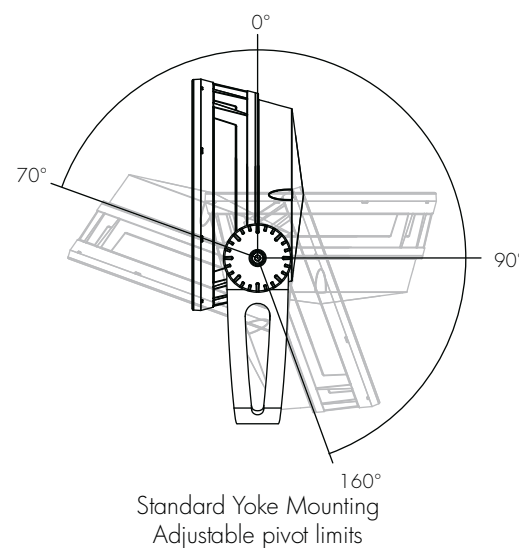
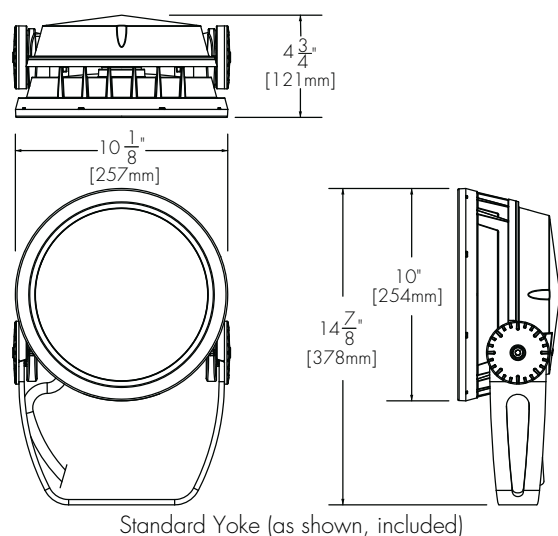
Performance :

- Minimum 1 fc (10.7 lux) @ 387 feet (118m) distance (4000K, 6° optic)
- 3,425 delivered lumens and 150,271 candelas at nadir (4000K, 6° optic)
- 6°, 10°, 20°, 40° or 60° optics available
- CRI value: 80+
- Lumen maintenance 120,000 hrs [L70 @ 25°C]
- Lumen measurements comply with LM - 79 - 08 standard
- Operating temperatures: -25° C to 50° C [-13F to 122F]



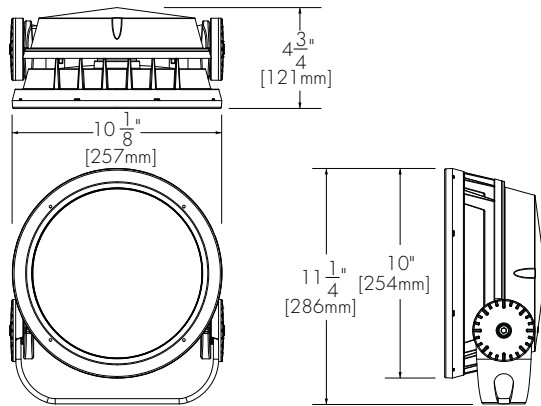
Electrical :

- Line voltage luminaire for 100 to 277V
- Power and data in 1 cable, 3ft/1 m cord (#16-5)
- 50 watts
- Dimming options: 0-10 volt, DMX/RDM enabled, DALI, Lumentalk or Lutron® EcoSystem® enabled



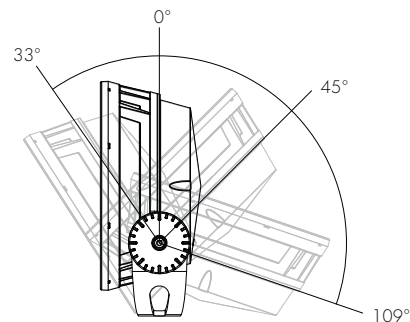
* Use only when exposed to salt spray and harsh chemicals. This option is not required for normal outdoor exposure!

MOUNTING OPTION

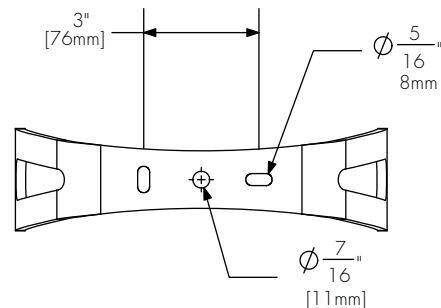


SY

Short Yoke Mounting



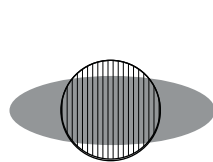
Short Yoke mounting
adjustable pivot limits



Standard and Short Yoke mounting
holes Pattern

OPTICAL OPTIONS

***Factory installed**



LSLH

Linear Spread Lens
Horizontal distribution
(not adjustable on site)



LSLV

Linear Spread Lens
Vertical distribution
(not adjustable on site)

Factory installed, available for 6° to 40° optics.
See Optical Accessories for field adjustable spread lens.

ACCESSORIES - continued

Order separately

Optical Accessories:

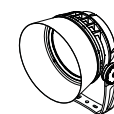
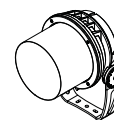
LBL-SN-___-BK Snoot accessory. Please specify desired exterior finish from the list below.
Interior surface painted black.

LBL-SNW-___-BK Snoot Wide accessory. Please specify desired exterior finish from the list below.
Interior surface painted black.

LBL-VS-___-BK Visor accessory. Please specify desired exterior finish from the list below.
Interior surface painted black.

LBL-WG-___ Wire Guard accessory. Please specify desired exterior finish from the list below.

LBL-LSLA-___ Linear Spread Lens Adjustable accessory. Please specify desired exterior finish from the list below.



Available finishes:

BK - Black Sandtex
BRZ - Bronze Sandtex
SI - Silver Sandtex
WH - Smooth white, low gloss
BKTX - Textured black
BRZTX - Textured bronze, non-metallic
GRATX - Textured medium gray
GRNTX - Textured green
WHTX - Textured white
CC - Custom color and finish (please specify RAL color)¹

Accessory combinations:

+	Snoot	Snoot Wide	Visor	Wire Guard
Snoot	NO	NO	NO	YES
Visor	NO	NO	NO	YES
Linear Spread Lens Adjustable	YES	YES	YES	NO

Accessory combinations must be ordered together on a single line.
 Ex: A Snoot + Wire Guard combination order code is **LBL-SNWG-BK-BK**.

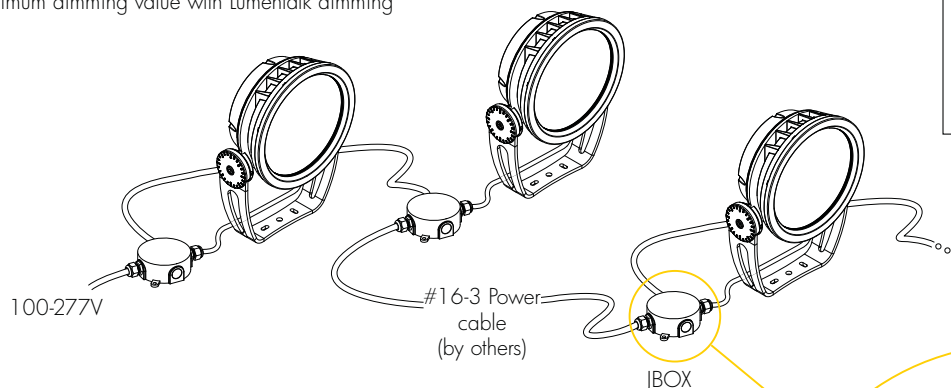
Notes:

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TYPICAL WIRING DIAGRAMS

Non-Dimming or Lumentalk Dimming Version

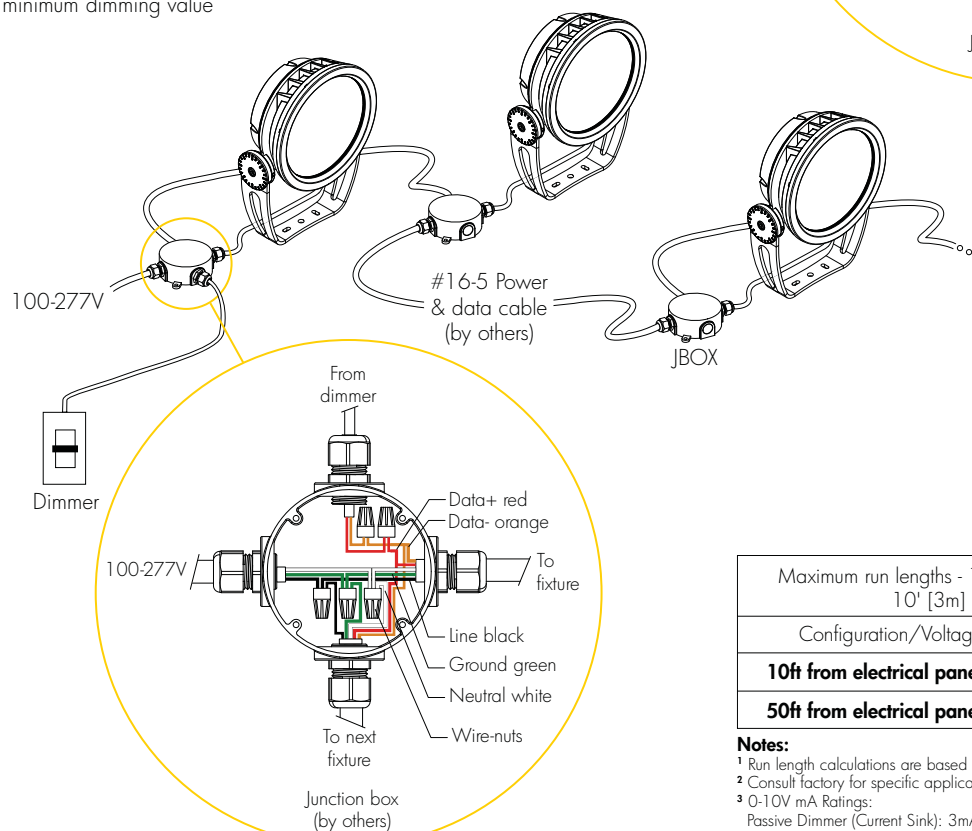
1% minimum dimming value with Lumentalk dimming



American Color Code	CE Color Code	USE
Green	Yellow/Green	Ground
Black	Brown	Live 100-277V
White	Blue	Neutral
Red/Purple	Black	0-10V / Data +
Orange	Grey	0-10V / Data -

Dimming Version (0-10V)

10% minimum dimming value



Maximum run lengths - 15A maximum, 16AWG cable, 10' [3m] on center spacing				
Configuration/Voltage	120V	208V	240V	277V
10ft from electrical panel	22	32	36	39
50ft from electrical panel	18	28	32	35

Notes:

- Run length calculations are based on a voltage drop of no more than 25V.
- Consult factory for specific applications and max. cable length recommendations.
- 0-10V mA Ratings:
Passive Dimmer (Current Sink): 3mA per fixture
Active Dimmer (Current Source): 0.5mA per fixture

HOW TO ORDER

LBL	120	30K	VN	Select:	BRZ	NO	SY
1	2	3	4	5	6	7	8

1 Housing:

LBL - Lumenbeam™ Large

2 Voltage:

100 - 100 volts **220** - 220 volts
120 - 120 volts **240** - 240 volts
208 - 208 volts **277** - 277 volts

3 Colors and Color temperatures:

27K - 2700K
30K - 3000K
35K - 3500K
40K - 4000K
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RD - Red
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4 Optic:

VN - Very Narrow 6°



NS - Narrow Spot 10°



NF - Narrow Flood 20°



FL - Flood 40°



WFL - Wide Flood 60°



5 Optical Option:

LSLH - Linear Spread Lens Horizontal distribution¹
LSLV - Linear Spread Lens Vertical distribution¹

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7 Control:

NO - No Dimming
LT - Lumentalk³
DIM - 0-10V Dimming option⁴
DMX/RDM - DMX/RDM enabled⁵
DALI - DALI Dimming option³
ES - Lutron® EcoSystem® Enabled Dimming⁶

8 Option:

SY - Short Yoke
3GV - 3G ANSI C136.31 Vibration Rating
CRC - Corrosion-resistant coating for hostile environments
CE - CE (certification covers European Economic Area)

Notes:

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⁴ 10% minimum dimming value. Current Sink: 3mA/fixture, Current Source: 0.5mA/fixture. ⁵ 1% minimum dimming value. 1 DMX address per fixture. ⁶ One EcoSystem® address per fixture. 1% minimum dimming value.

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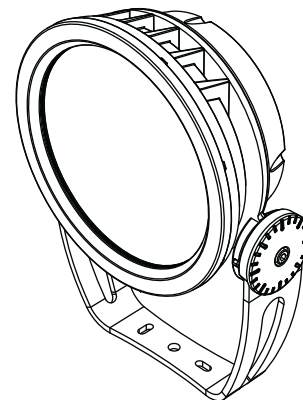
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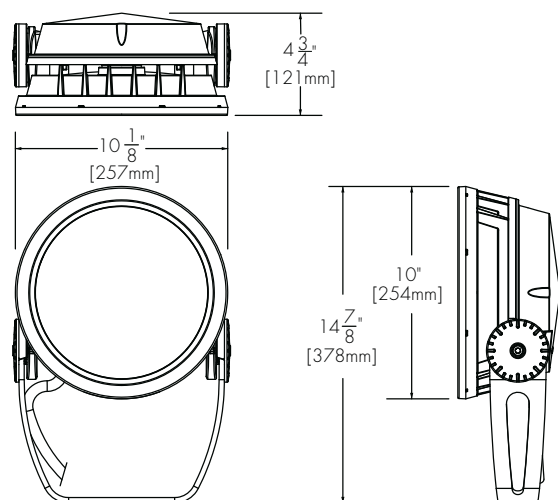
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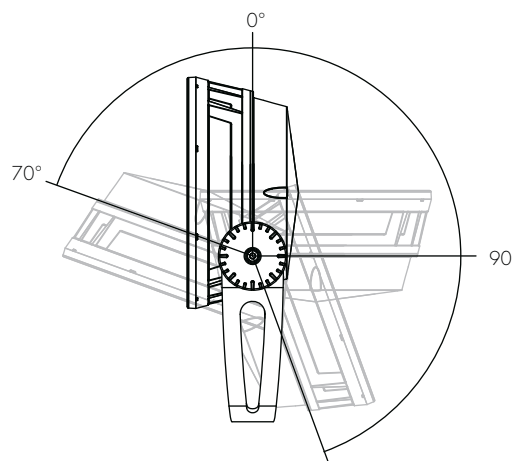
IK10

lumen talk

EcoSystem Enabled



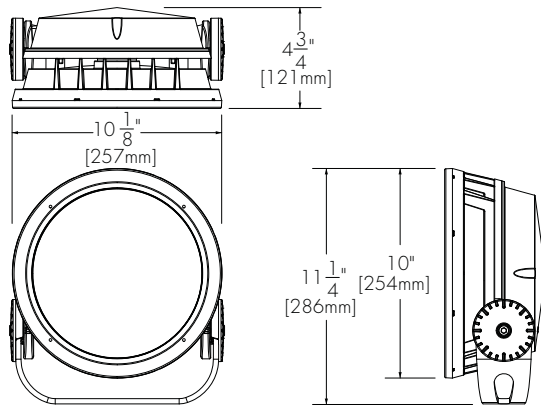
Standard Yoke (as shown, included)



Standard Yoke Mounting
Adjustable pivot limits

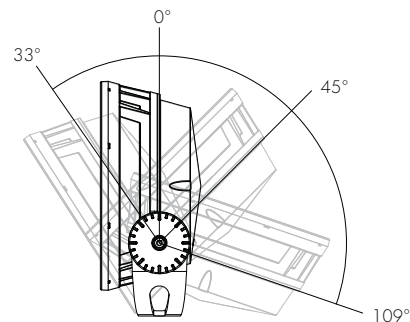
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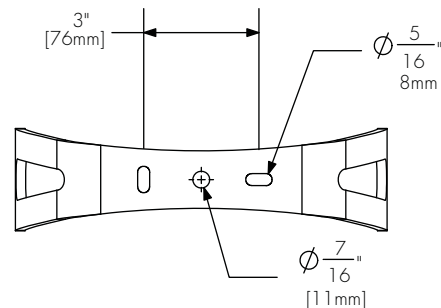


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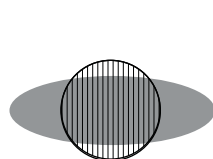
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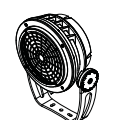
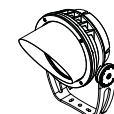
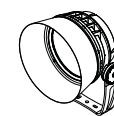
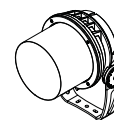
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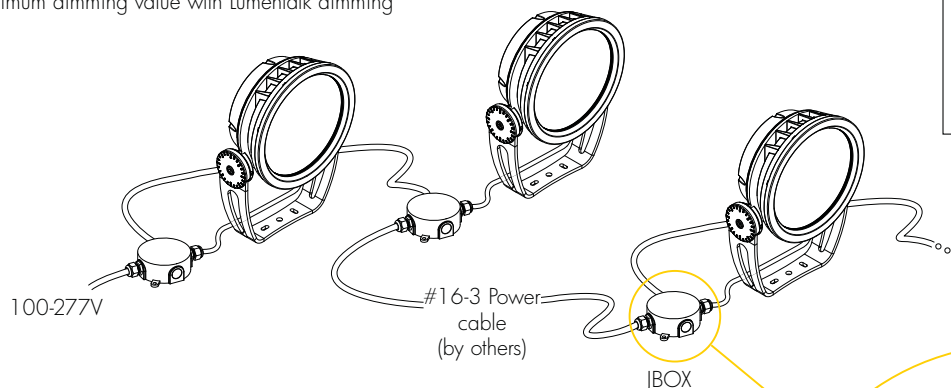
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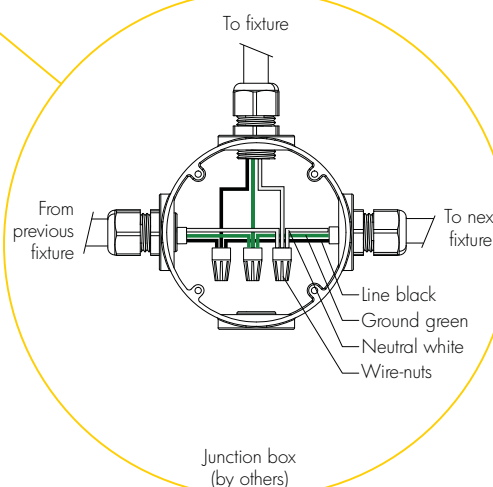
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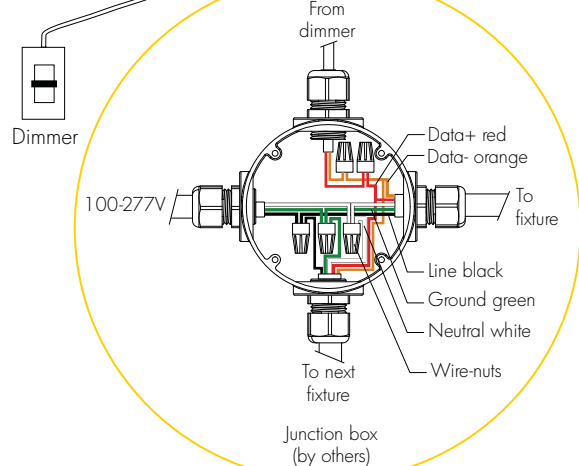
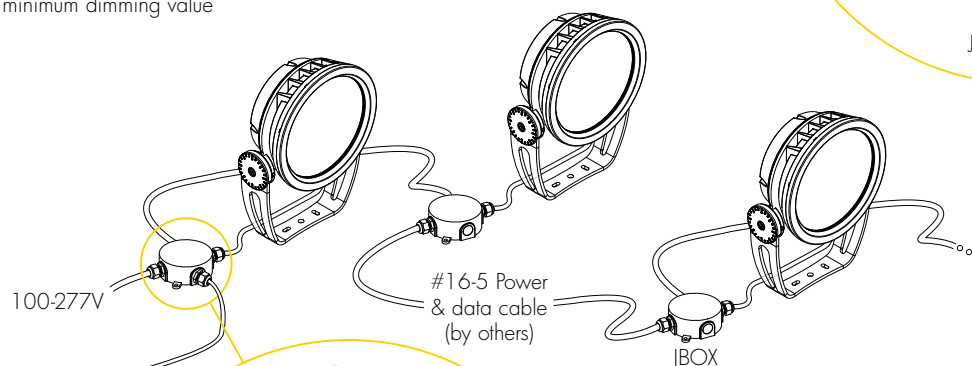


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Notes:

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Wall luminaires with single-sided light output

Housing: Extruded and die cast aluminum. Mounts directly to a BEGA 19537 box (provided). Die castings are marine grade, copper free ($\leq 0.3\%$ copper content) A360.0 aluminum alloy.

Enclosure: Tempered, clear glass, flush to the die casting to prevent water accumulation. Fully gasketed for weather tight operation using a 'U' channel molded silicone rubber gasket.

Electrical: 18W LED luminaire, 20.5 total system watts, -40°C start temperature. Integral 120V through 277V electronic LED driver, 0-10V dimming. LED module(s) are available from factory for easy replacement. Standard LED color temperature is 3000K with an 85 CRI. Available in 4000K (85 CRI); add suffix K4 to order.

Notes: LEDs supplied with luminaire. Due to the dynamic nature of LED technology, LED luminaire data on this sheet is subject to change at the discretion of BEGA-US. For the most current technical data, please refer to www.bega-us.com.

Finish: All BEGA standard finishes are polyester powder coat with minimum 3 mil thickness. Available in four standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

CSA certified to U.S. and Canadian standards for wet locations. Protection class IP65

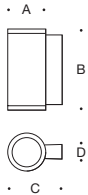
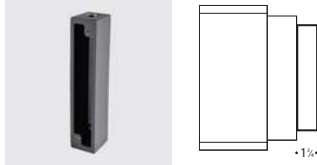
Weight: 7.3 lbs

Luminaire Lumens: 803

Tested in accordance with LM-79-08

Mounting options:

79547 Surface-mount wiring box



These luminaires mount over a custom BEGA recessed box. This box can be shipped ahead of the luminaire.

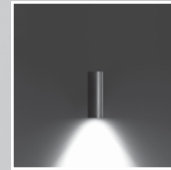
Narrow beam upwards or downwards

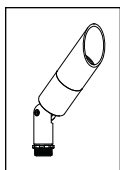


Lamp	β	A	B	C	D	Wiring box*
66 698* 18W LED	19.5°	5 $\frac{5}{8}$	11 $\frac{3}{4}$	7 $\frac{7}{8}$	1 $\frac{5}{8}$	19537

β = Beam angle *Small opening wiring box included.

Type:
BEGA Product:
Project:
Voltage:
Color:
Options:
Modified:



the power of
dimming

MICRO NITE STAR™

NOTE: requires remote power supply

PROJECT:

TYPE:

CATALOG
NUMBER:

SOURCE:

NOTES:

CATALOG NUMBER LOGIC

Example MN - LED - e67 - SP - BZW - 12 - 11 - B - 360SL

Material

Blank - Aluminum
B - Brass

Series

MN - Micro Nite Star™

Source

LED - 'e' Technology with Integral Dimming Driver (See Specifications for Dimming)
Designed for use with remote 12VAC BKSSL® transformers. Requires magnetic Low Voltage dimmer

LED Type

e67 - 7WLED/2.7K e69 - 7WLED/4K
e68 - 7WLED/3K e75 - 7WLED/Amber

Optics*

SP - Spot (Green Indicator)NFL - Narrow Flood (Yellow Indicator)FL - Flood (Blue Indicator)

Finish

Aluminum Finish

Powder Coat Color	Satin	Wrinkle
Bronze	BZP	BZW
Black	BLP	BLW
White (Gloss)	WHP	WHW
Aluminum	SAP	—
Verde	—	VER

Brass Finish

Machined	MAC
Polished	POL
Mitique™	MIT

Premium Finish

ABP Antique Brass Powder	CMG Cascade Mountain Granite	RMG Rocky Mountain Granite
AMG Aleutian Mountain Granite	CRI Cracked Ice	SDS Sonoran Desert Sandstone
AQW Antique White	CRM Cream	SMG Sierra Mountain Granite
BCM Black Chrome	HUG Hunter Green	TXF Textured Forest
BGE Beige	MDS Mojave Desert Sandstone	WCP Weathered Copper
BPP Brown Patina Powder	NBP Natural Brass Powder	WIR Weathered Iron
CAP Clear Anodized Powder	OCP Old Copper	Also available in RAL Finishes See submittal SUB-1439-00

Lens Type

12 - Soft Focus Lens13 - Rectilinear Lens

Shielding

11 - Honeycomb Baffle

Cap Style

A - 45°B - 90°C - FlushD - 45° less Weep Hole
(Interior Use Only)E - 90° less Weep Hole
(Interior Use Only)

Option

360SL - 360SL™ Rotational Knuckle Mounting System

DRIVER DATA

Input Volts

12VAC/DC 50/60Hz

InRush Current

<1A (non-dimmed)

Dimmable

Magnetic Low Voltage Dimmer

Operation Ambient Temperature

-10°F-130°F

LM79 DATA

BK No.	CCT (Typ.)	Input Watts (Typ.)	CRI (Typ.)
e67	2700K	7	80
e68	3000K	7	80
e69	4000K	7	80
e75	Amber (590nm)	7	~

L70 DATA

Minimum Rated Life (hrs.) 70% of initial lumens (L70)
50,000
50,000
50,000
50,000

*OPTICAL DATA

Beam Type	Angle	CBCP	Visual Indicator
Spot	20°	3991	Green Dot
Narrow Flood	25°	1887	Yellow Dot
Flood	30°	1469	Blue Dot

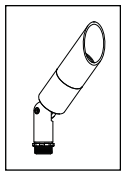
B-K LIGHTING

40429 Brickyard Drive • Madera, CA 93636 • USA
559.438.5800 • FAX 559.438.5900
www.bklighting.com • info@bklighting.com

RELEASED
06-06-16

DRAWING NUMBER
SUB000927

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BKSSL
SOLID STATE LIGHTING

the power of
dimming

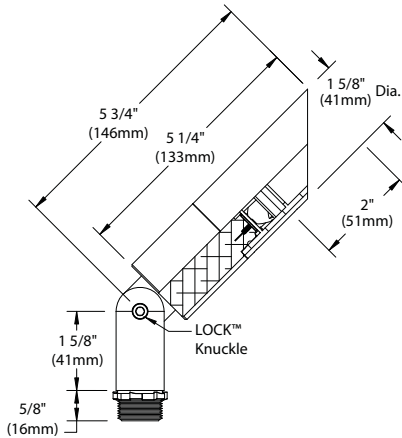


MICRO NITE STAR™

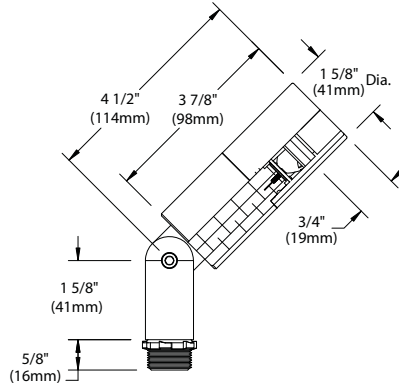
PROJECT:

TYPE:

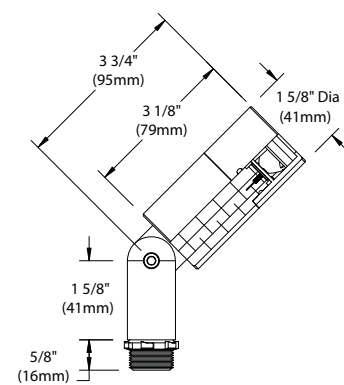
"A/D" CAP



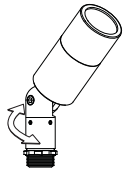
"B/E" CAP



"C" CAP



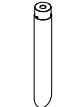
360 SL™



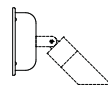
Accessories (Configure separately)

All dimensions indicated on this submittal are nominal.
Contact Technical Sales if you require more stringent specifications.

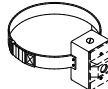
Mounting:



Power Pipe™



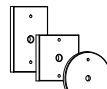
Power Canopy™



Tree Strap™



Stems



Canopies



UPM™

Remote Transformers:



TR Series



Power Pipe™



UPMRM™

Horizontal Rotation
(Optional 360SL™ Knuckle)

SPECIFICATIONS

GreenSource Initiative™

Metal and packaging components are made from recycled materials. Manufactured using renewable solar energy, produced on site. Returnable to manufacturer at end of life to ensure cradle-to-cradle handling. Packaging contains no chlorofluorocarbons (CFC's). Use of this product may qualify for GreenSource efficacy and recycling rebate(s). Consult www.bklighting.com/greensource for program requirements.

Materials

Furnished in Copper-Free Aluminum (Type 6061-T6) or Brass (Type 360).

Body

Fully machined from solid billet. Unibody design provides enclosed, water-proof wireway and integral heat sink for maximum component life. Integral knuckle for maximum mechanical strength. High temperature, silicone 'O' Ring provides water-tight seal.

Knuckle

The LOCK™ (Locking 'O' Ring Compression Knuckle) is comprised of two components. The first is integral to the body and features an interior, machined taper. The second is machined from solid billet and features a second, reverse angle taper. The resultant mechanical taper-lock allows a full 180° vertical adjustment without the use of serrated teeth, which inherently limit aiming. High temperature, silicone 'O' Ring provides water-tight seal and compressive resistance to maintain fixture position. Design withstands 73 lb. static load prior to movement to ensure decades of optical alignment. 1/2" pipe thread for mounting.

Optional 360SL™ additionally provides biaxial source control with 360° horizontal rotation in addition to vertical adjustment.

Cap

Fully machined. Accommodates [1] lens or louver media. Choose from 45° cutoff ('A' or 'D'), 5/8" deep bezel with 90° cutoff ('B' or 'E'), or flush lens ('C') cap styles. 'A' and 'B' caps include weep-hole for water and debris drainage. 'D' and 'E' caps exclude weep-hole and are for interior use only.

Lens

Shock resistant, tempered, glass lens is factory adhered to fixture cap and provides hermetically sealed optical compartment. Specify soft focus (#12) or rectilinear (#13) lens.

BKSSL®

Integrated solid state system with 'e' technology is scalable for field upgrade. Modular design with electrical quick disconnects permit field maintenance. High power, forward throw source complies with ANSI C78.377 binning requirements. Exceeds ENERGY STAR® lumen maintenance requirements. LM-80 certified components.

Integral, constant current driver. 12VAC/VDC input. 50/60Hz. Proprietary input control scheme achieves power factor correction and eliminates inrush current. Output, over-voltage, open-circuit, and short circuit protected. Inrush current limited to <1A (non-dimming). Conforms to Safety Std. C22.2 No. 250.13-12.

Dimming

Line voltage dimmable via magnetic low voltage dimmer. For use with low voltage dimmer with dedicated neutral conductor. For purposes of dimming: Remote magnetic transformer with BKSSL® Power of 'e' technology loads should be loaded to 25% of the transformer VA (watts) rated value.

Optics

Interchangeable OPTIKIT™ modules permit field changes to optical distribution. Color-coded for easy reference: Spot (SP) = Green. Narrow Flood (NFL) = Yellow. Flood (FL) = Blue.

Remote Transformer

For use with 12VAC BKSSL remote transformer or magnetic transformers only. B-K Lighting cannot guarantee performance with third party manufacturers' transformers.

Wiring

Teflon® coated, 18AWG, 600V, 250° C rated and certified to UL 1659 standard.

Hardware

Tamper-resistant, stainless steel hardware. LOCK™ aiming screw is additionally black oxide treated for additional corrosion resistance.

Finish

StarGuard®, our exclusive RoHs compliant, 15 stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating. Brass components are available in powder coat or handcrafted metal finish.

Warranty

5 year limited warranty.

Certification and Listing

ITL tested to IESNA LM-79. UL Listed. Certified to CAN/CSA/ANSI Standards. RoHs compliant. Suitable for indoor or outdoor use. Suitable for use in wet locations. Suitable for installation within 4' of the ground. IP66 Rated. Made in USA.



RoHS



*Teflon is a registered trademark of DuPont Corporation.

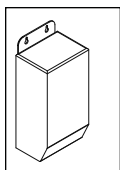
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B-K LIGHTING

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RELEASED
06-06-16

DRAWING NUMBER
SUB000927



Magnetic Transformer

TR SERIES

PROJECT:	
TYPE:	
CATALOG NUMBER:	
SOURCE:	
NOTES:	

CATALOG NUMBER LOGIC

Example **TR150** - **120**

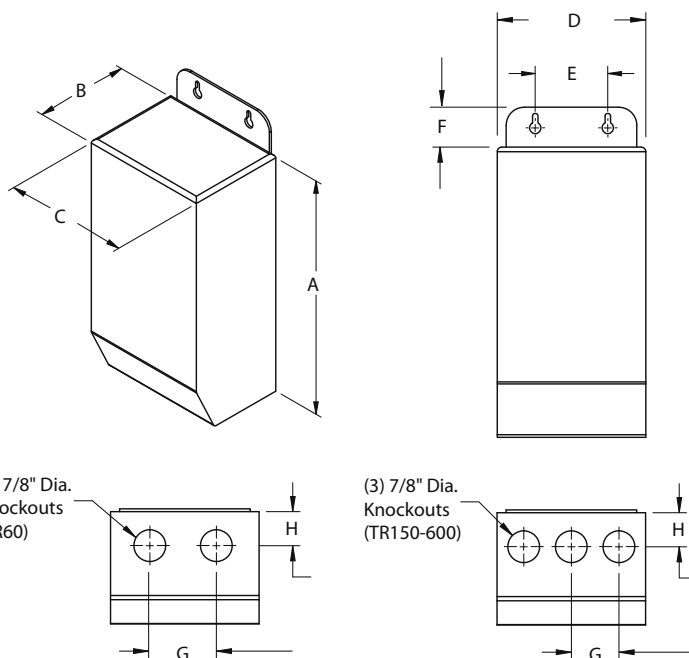
Series

Input Voltage

TR60 - 60W Magnetic Transformer
TR150 - 150W Magnetic Transformer
TR300 - 300W Magnetic Transformer
TR600 - 600W Magnetic Transformer

120 - 120 Volt
277 - 277 volt

DIMENSIONS



TRANSFORMER DATA

All dimensions indicated on this submittal are nominal.
Contact Technical Sales if you require more stringent specifications.

Series	Input Voltage	Max. Load	Circuit Breaker	Weight	Height A	Depth B	C	D	E	F	G	H
TR60	120V	60W	8A	3.7 lbs.	7-1/2"	2-15/16"	3"	3-7/64"	1-1/2"	1-1/16"	1-1/2"	3/4"
TR150	120V	150W	25A	6 lbs.	8"	3-3/32"	4-3/32"	5-1/2"	4-1/8"	1-1/8"	1-5/16"	15/16"
TR300	120V	300W	25A	7.13 lbs.	8"	3-3/32"	4-3/32"	5-1/2"	4-1/8"	1-1/8"	1-5/16"	15/16"
TR600	120V	600W	25A	14.9 lbs.	9-13/32"	4-3/32"	4-19/32"	5-3/4"	4-5/8"	1-1/16"	1-1/2"	1-1/4"
TR60	277V	60W	8A	3.7 lbs.	7-1/2"	2-15/16"	3"	3-7/64"	1-1/2"	1-1/16"	1-1/2"	3/4"
TR150	277V	150W	25A	6 lbs.	8"	3-3/32"	4-3/32"	5-1/2"	4-1/8"	1-1/8"	1-5/16"	15/16"
TR300	277V	300W	25A	7.13 lbs.	8"	3-3/32"	4-3/32"	5-1/2"	4-1/8"	1-1/8"	1-5/16"	15/16"
TR600	277V	600W	25A	14.9 lbs.	9-13/32"	4-3/32"	4-19/32"	5-3/4"	4-5/8"	1-1/16"	1-1/2"	1-1/4"

SPECIFICATIONS

Housing

Stainless steel, NEMA Outdoor 3R rated enclosure. [2] (TR60) or [3] (TR150-600) bottom entry 7/8" knockouts provide access to wiring compartment. Riveted, hinged cover opens vertically from bottom to top for service access.

Transformer

Fully encapsulated, Class B insulated, low voltage magnetic transformer. 120VAC or 277VAC input. 12VAC output (fully loaded). 0.6A (120VAC) or 0.3A (277VAC) maximum no load input current. Manual thermal reset. Secondary circuit breaker. Enclosure temperature <65° C when fully loaded (in 40° C ambient).

For use with halogen and **BKSSL** products. Fully dimmable utilizing magnetic low voltage dimmers. Consult fixture specification for dimming capability.

Output Wiring

See B-K Lighting Low Voltage Design Guide on reverse.

Warranty

Limited five year warranty.

Certification and Listings

Nema Type 3R Enclosure. Suitable for indoor and outdoor use. UL Listed to ANSI/UL Standard 1012.



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SUBMITTAL DATE
7-30-13

SUBMITTAL NUMBER
TR-SERIES

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Low Voltage Guide

Many B-K LIGHTING fixtures operate on 12 volts. Taking advantage of these energy-saving fixtures requires appropriate care in planning the electrical wiring system. To maintain expected lamp performance, we recommend the following procedures in sizing your low-voltage wiring system.

SIZING OF LOW VOLTAGE WIRING

1. Locate and plot fixtures on plan. Choose the lighting equipment necessary to create the desired lighting effects. Mark lamp wattage for each fixture location.
2. Identify potential transformer locations. The ideal locations are those which provide for the shortest possible low voltage distances (inconspicuous areas, behind rocks, shrubbery, etc., within the landscape). UPM, Power Pipe™, Power Pipe II™, or, if available, transformers integral in the fixture are good ways to hide the transformer and reduce voltage drop problems.
3. Add the total wattage for the proposed low voltage run. Measure the wire lengths from the transformer to the fixture locations. Find the distance to the "CENTER OF LOAD" of the low voltage run.

$$\text{CENTER OF LOAD} = \frac{\text{Distance from first to last fixture}}{(2) \text{ Two}} + \text{Distance from transformer to first fixture}$$

4. Using the B-K LIGHTING Wire Selection Table, select the wattage column which applies. Look down the column stopping at a distance, in feet, that is equal or greater than the "CENTER OF LOAD" distance. Look across to find the proper wire size for your layout.

Note: In the event of multiple runs from a given transformer, treat each run separately.

12-VOLT WIRE SELECTION TABLE

WIRE SIZE	TOTAL WATTAGE																
	12	20	24	35	40	50	60	70	80	100	105	120	140	150	160	200	250
12	178	106	89	60	53	42	35	30	26	21	20	17	15	13	—	—	—
10	283	169	141	96	85	67	56	48	42	33	32	28	24	22	19	17	13
8	450	269	225	154	135	107	90	77	67	54	51	45	38	36	31	27	21
6	715	428	357	245	214	171	143	122	107	85	81	71	61	57	49	42	34

CENTER OF LOAD WIRING DISTANCES IN FEET

The Wire Selection Table provided is based on a maximum allowable voltage drop of 5%. Electrical designs which allow greater than 5% voltage drop, reduce rated light output beyond acceptable levels.

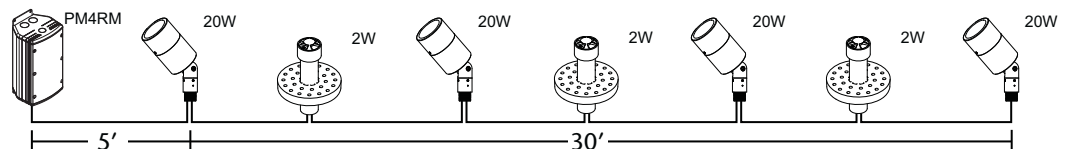
The importance of the proper wire selection is demonstrated below. Both examples have the same total watts and identical overall lengths of wire run, yet require different wire sizes, or multiple wire runs, to operate within the 5% maximum voltage drop B-K LIGHTING criteria.

EXAMPLE:

Total wattage:
(20w x 4) + (2w x 3) = 86 watts

CENTER OF LOAD:
 $\left(\frac{30'}{2}\right) + 5' = 20'$

SINGLE WIRE RUN:
12 gauge

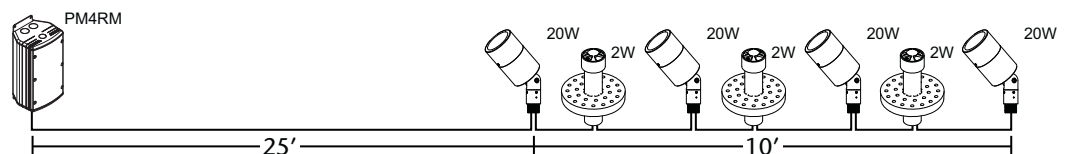


EXAMPLE:

Total wattage:
(20w x 4) + (2w x 3) = 86 watts

CENTER OF LOAD:
 $\left(\frac{10'}{2}\right) + 25' = 30'$

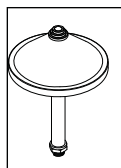
SINGLE WIRE RUN:
10 gauge



TRANSFORMERS

For areas which are far reaching from fixtures, running 120 volt power to each fixture location with individual transformers, such as TRSS75 or TRSS150, provides an excellent economic solution to voltage drop. These transformers can also be specified in the UPM, Power Pipe™, and Power Pipe II™ transformer housings.

Note: Installations should be in accordance with the National Electric Code and applicable local codes.



1130™ PATH LIGHT

**NOTE - requires power pipe
mounting and remote power supply**

PROJECT:

TYPE:

CATALOG
NUMBER:

SOURCE:

NOTES:

CATALOG NUMBER LOGIC

Example **1130** - **LED** - **e50** - **NAT** - **24** - **30**

Series

1130 - 1130 Path Light

Source

LED - 'e' Technology with Integral Dimming Driver (See Specifications for Dimming)
Designed for use with remote 12VAC BKSSL® transformers. Requires magnetic Low Voltage Dimmer.

LED Type

e50 - 5WLED/2.7K **e56** - 5WLED/Amber
e51 - 5WLED/3K
e52 - 5WLED/4K
Requires BKSSL Transformer.

Finish

NAT - Natural
BP - Brown Patina
POL - Polish
NIC - Nickel Plate
(Also Available with Powder Coat Finish)

Premium Finish

Powder Coat Color	Satin	Wrinkle
Bronze	BZP	BZW
Black	BLP	BLW
White (Gloss)	WHP	WHW
Aluminum	SAP	—
Verde	—	VER

ABP Antique Brass Powder	CMG Cascade Mountain Granite	RMG Rocky Mountain Granite
AMG Aleutian Mountain Granite	CRI Cracked Ice	SDS Sonoran Desert Sandstone
AQW Antique White	CRM Cream	SMG Sierra Mountain Granite
BCM Black Chrome	HUG Hunter Green	TXF Textured Forest
BGE Beige	MDS Mojave Desert Sandstone	WCP Weathered Copper
BPP Brown Patina Powder	NBP Natural Brass Powder	WIR Weathered Iron
CAP Clear Anodized Powder	OCP Old Copper	Also available in RAL Finishes See submittal SUB-1439-00

Stem Length (Specify inches)

12", 18", 24", 30", 36" or 42"

Option

CLR - Clear Coat Protection
For use with Natural (NAT) and Polished (POL) Finishes
30 - #30 Clamp on Blades
Includes additional 12" Stem for Direct Burial

LM79 DATA

BK No.	CCT (Typ.)	Input Watts (Typ.)	CRI (Typ.)	Minimum Rated Life (hrs.) 70% of initial lumens (L70)
e50	2700K	4.9	90	50,000
e51	3000K	4.9	90	50,000
e52	4000K	4.9	75	50,000
e56	Amber (590nm)	4.9	~	50,000

L70 DATA

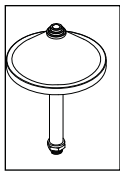
TEKA ILLUMINATION

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RELEASED
06-14-16

DRAWING NUMBER
SUB000954

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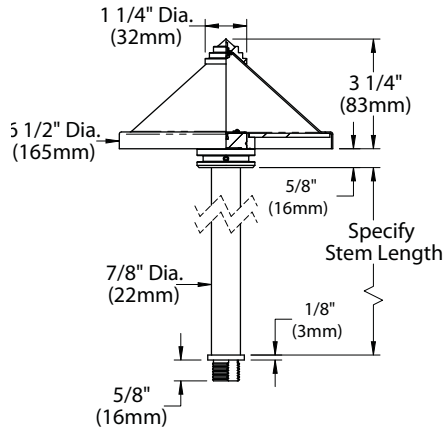


1130™ PATH LIGHT

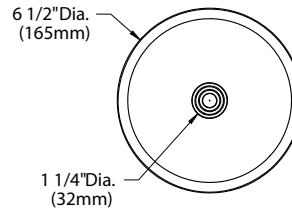
PROJECT:

TYPE:

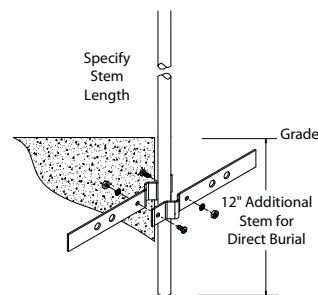
SIDE VIEW



TOP VIEW



#30 CLAMP ON BLADES (Optional)



Accessories (Configure separately)

- PMC - Pillar Mount Canopy
- 20 - #20 Surface Mount Adaptor
- PP - Power Pipe™
- UPMRM - Universal Power Module™ Remote
- TR - TR Series Magnetic Low Voltage Transformer



PMC



#20



Power Pipe™



UPMRM



TR Series

All dimensions indicated on this submittal are nominal.
Contact Technical Sales if you require more stringent specifications.

SPECIFICATIONS

GreenSource Initiative™

Metal and packaging components are made from recycled materials. Manufactured using renewable solar energy, produced onsite. Returnable to manufacturer at end of life to ensure cradle-to-cradle handling. Packaging contains no chlorofluorocarbons (CFC's). Use of this product may qualify for GreenSource efficacy and recycling rebate(s). Consult www.tekaillumination.com/greensource for program requirements.

Enduring Metals

Constructed from copper, brass, bronze, and stainless steel. These lifetime materials are inherently corrosion resistant.

Shade

Hand spun from high purity, solid copper plate. High temperature, silicone 'O' Ring provides water tight seal.

Lens

Injection molded 6 1/4" clear acrylic lens is factory adhered to shade and provides sealed optical compartment.

Stem

Machined from heavy wall 7/8" O.D. copper.

BKSSL®

Integrated solid state system with 'e' technology is scalable for field upgrade. Modular design with electrical quick disconnects permit field maintenance. High power, forward throw source complies with ANSI C78.377 binning requirements. Exceeds ENERGY STAR® lumen maintenance requirements. LM-80 certified components.

Integral, constant current driver. 12VAC/VDC input. 50/60Hz. Proprietary input control scheme achieves power factor correction and eliminates inrush current. Output, over-voltage, open-circuit, and short circuit protected. Inrush current limited to <1A (non-dimming). Conforms to Safety Std. C22.2 No. 250.13-12.

Dimming

Line voltage dimmable via magnetic low voltage dimmer. For use with low voltage dimmer with dedicated neutral conductor. For purposes of dimming: Remote magnetic transformer with BKSSL® Power of 'e' technology loads should be loaded to 25% of the transformer VA (watts) rated value.

Installation

Machined 1/2" NPT adaptor for mounting to suitable enclosure. Optional #30 Clamp-on Blades include an additional 12" stem for direct burial and leads extending 60" from fixture to facilitate live splice in suitable

Transformer

For use with 12VAC remote transformer.

Wiring

Black, 16/2 PVC coated wire. 150V 60° C rated and certified to UL 1659 standard. Leads extend 6" from fixture to facilitate live splice in suitable enclosure.

Hardware

Tamper resistant, stainless steel hardware.

Finish

Natural (NAT): Copper and brass components are sand blasted to expose the porous metal surface. Over time, and with exposure to the elements, the metals will naturally 'weather' resulting in a unique patina.

Optional Factory Applied Finishes

Metal Finish: Hand-crafted metal finishes include brown patina (BP), polish (POL), and nickel plate (NIC).

Powder Coat Finish: Class 'A' TGIC polyester powder coating. RoHS compliant.

Clear Coat Protection

Optional ceramic clear coating seals and protects underlying metals and protects against discoloration, fading, and wear. Highly impervious to chemicals, solvents, and graffiti. For use with natural (NAT) and polish (POL) finishes.

Warranty

5 year limited warranty.

Listings

ITL tested to IESNA LM-79. UL Listed. Certified to CAN/CSA/ANSI Standards. RoHS compliant. Suitable for indoor or outdoor use. Suitable for use in wet locations. Additionally suitable for installation within 4' of the ground. IP65 Rated. Made in USA.



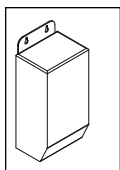
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RELEASED
06-14-16

DRAWING NUMBER
SUB000954



Magnetic Transformer

TR SERIES

PROJECT:	
TYPE:	
CATALOG NUMBER:	
SOURCE:	
NOTES:	

CATALOG NUMBER LOGIC

Example **TR150** - **120**

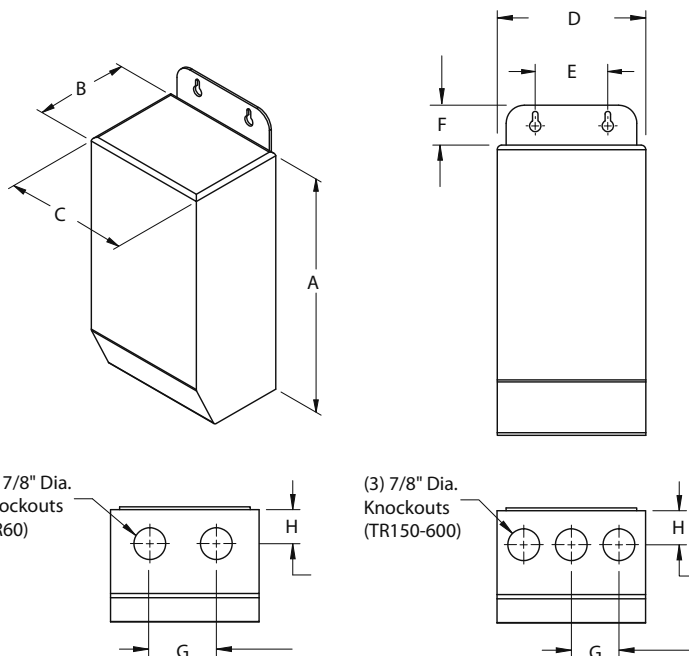
Series

Input Voltage

TR60 - 60W Magnetic Transformer
TR150 - 150W Magnetic Transformer
TR300 - 300W Magnetic Transformer
TR600 - 600W Magnetic Transformer

120 - 120 Volt
277 - 277 volt

DIMENSIONS



TRANSFORMER DATA

All dimensions indicated on this submittal are nominal.
Contact Technical Sales if you require more stringent specifications.

Series	Input Voltage	Max. Load	Circuit Breaker	Weight	Height A	Depth B	C	D	E	F	G	H
TR60	120V	60W	8A	3.7 lbs.	7-1/2"	2-15/16"	3"	3-7/64"	1-1/2"	1-1/16"	1-1/2"	3/4"
TR150	120V	150W	25A	6 lbs.	8"	3-3/32"	4-3/32"	5-1/2"	4-1/8"	1-1/8"	1-5/16"	15/16"
TR300	120V	300W	25A	7.13 lbs.	8"	3-3/32"	4-3/32"	5-1/2"	4-1/8"	1-1/8"	1-5/16"	15/16"
TR600	120V	600W	25A	14.9 lbs.	9-13/32"	4-3/32"	4-19/32"	5-3/4"	4-5/8"	1-1/16"	1-1/2"	1-1/4"
TR60	277V	60W	8A	3.7 lbs.	7-1/2"	2-15/16"	3"	3-7/64"	1-1/2"	1-1/16"	1-1/2"	3/4"
TR150	277V	150W	25A	6 lbs.	8"	3-3/32"	4-3/32"	5-1/2"	4-1/8"	1-1/8"	1-5/16"	15/16"
TR300	277V	300W	25A	7.13 lbs.	8"	3-3/32"	4-3/32"	5-1/2"	4-1/8"	1-1/8"	1-5/16"	15/16"
TR600	277V	600W	25A	14.9 lbs.	9-13/32"	4-3/32"	4-19/32"	5-3/4"	4-5/8"	1-1/16"	1-1/2"	1-1/4"

SPECIFICATIONS

Housing

Stainless steel, NEMA Outdoor 3R rated enclosure. [2] (TR60) or [3] (TR150-600) bottom entry 7/8" knockouts provide access to wiring compartment. Riveted, hinged cover opens vertically from bottom to top for service access.

Transformer

Fully encapsulated, Class B insulated, low voltage magnetic transformer. 120VAC or 277VAC input. 12VAC output (fully loaded). 0.6A (120VAC) or 0.3A (277VAC) maximum no load input current. Manual thermal reset. Secondary circuit breaker. Enclosure temperature <65° C when fully loaded (in 40° C ambient).

For use with halogen and **BKSSL** products. Fully dimmable utilizing magnetic low voltage dimmers. Consult fixture specification for dimming capability.

Output Wiring

See B-K Lighting Low Voltage Design Guide on reverse.

Warranty

Limited five year warranty.

Certification and Listings

Nema Type 3R Enclosure. Suitable for indoor and outdoor use. UL Listed to ANSI/UL Standard 1012.



B-K LIGHTING

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SUBMITTAL DATE
7-30-13

SUBMITTAL NUMBER
TR-SERIES

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Low Voltage Guide

Many B-K LIGHTING fixtures operate on 12 volts. Taking advantage of these energy-saving fixtures requires appropriate care in planning the electrical wiring system. To maintain expected lamp performance, we recommend the following procedures in sizing your low-voltage wiring system.

SIZING OF LOW VOLTAGE WIRING

1. Locate and plot fixtures on plan. Choose the lighting equipment necessary to create the desired lighting effects. Mark lamp wattage for each fixture location.
2. Identify potential transformer locations. The ideal locations are those which provide for the shortest possible low voltage distances (inconspicuous areas, behind rocks, shrubbery, etc., within the landscape). UPM, Power Pipe™, Power Pipe II™, or, if available, transformers integral in the fixture are good ways to hide the transformer and reduce voltage drop problems.
3. Add the total wattage for the proposed low voltage run. Measure the wire lengths from the transformer to the fixture locations. Find the distance to the "CENTER OF LOAD" of the low voltage run.

$$\text{CENTER OF LOAD} = \frac{\text{Distance from first to last fixture}}{(2) \text{ Two}} + \text{Distance from transformer to first fixture}$$

4. Using the B-K LIGHTING Wire Selection Table, select the wattage column which applies. Look down the column stopping at a distance, in feet, that is equal or greater than the "CENTER OF LOAD" distance. Look across to find the proper wire size for your layout.

Note: In the event of multiple runs from a given transformer, treat each run separately.

12-VOLT WIRE SELECTION TABLE

WIRE SIZE	TOTAL WATTAGE																
	12	20	24	35	40	50	60	70	80	100	105	120	140	150	160	200	250
12	178	106	89	60	53	42	35	30	26	21	20	17	15	13	—	—	—
10	283	169	141	96	85	67	56	48	42	33	32	28	24	22	19	17	13
8	450	269	225	154	135	107	90	77	67	54	51	45	38	36	31	27	21
6	715	428	357	245	214	171	143	122	107	85	81	71	61	57	49	42	34

CENTER OF LOAD WIRING DISTANCES IN FEET

The Wire Selection Table provided is based on a maximum allowable voltage drop of 5%. Electrical designs which allow greater than 5% voltage drop, reduce rated light output beyond acceptable levels.

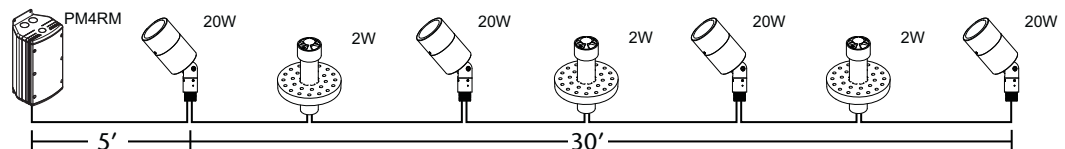
The importance of the proper wire selection is demonstrated below. Both examples have the same total watts and identical overall lengths of wire run, yet require different wire sizes, or multiple wire runs, to operate within the 5% maximum voltage drop B-K LIGHTING criteria.

EXAMPLE:

Total wattage:
(20w x 4) + (2w x 3) = 86 watts

CENTER OF LOAD:
 $\left(\frac{30'}{2}\right) + 5' = 20'$

SINGLE WIRE RUN:
12 gauge

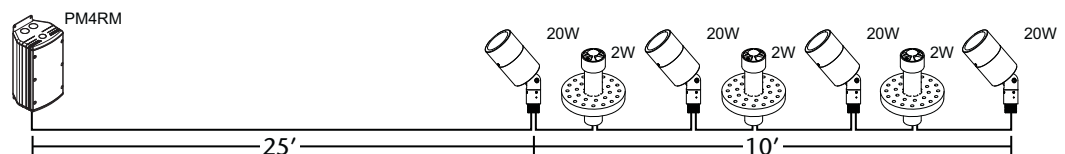


EXAMPLE:

Total wattage:
(20w x 4) + (2w x 3) = 86 watts

CENTER OF LOAD:
 $\left(\frac{10'}{2}\right) + 25' = 30'$

SINGLE WIRE RUN:
10 gauge



TRANSFORMERS

For areas which are far reaching from fixtures, running 120 volt power to each fixture location with individual transformers, such as TRSS75 or TRSS150, provides an excellent economic solution to voltage drop. These transformers can also be specified in the UPM, Power Pipe™, and Power Pipe II™ transformer housings.

Note: Installations should be in accordance with the National Electric Code and applicable local codes.

AC HOTEL FIXTURE SCHEDULE							
ID	QTY	MODEL	DESCRIPTION	LOAD	WATTS/VOLTS	NOTES	LAMP
EA	4	LUMENPULSE# LBL-120-30K-VN-BRZ-NO-SY	10-1/8"diameter, yoke mounted LED adjustable downlight with aluminum shoud	NON-DIM	50w/100-277V	Fixture located at building facade.	Integral warm white LED 3000K
EA1	4	LUMENPULSE# LBL-120-30K-NS-BRZ-NO-SY	10-1/8"diameter, yoke mounted LED adjustable downlight with aluminum shoud	NON-DIM	50w/100-277V	Fixture located at building facade.	Integral warm white LED 3000K
EB	9	BEGA# 66 698-BRZ/ 19537 (Custom Junction Box, Can Ship in Advance)	5-7/8"diameter, surface mounted LED downlight	NON-DIM	18w/ 120-277V	Fixture located at building facade.	Integral warm white LED 3000K
EC	12	BK LIGHTING# MN-LED-e68-FL-BZP-12-B	1-5/8"diameter, surface mounted LED adjustable fixture	NON-DIM	7w/12V	Surface mounted fixture. Fixture requires remote power supply.	Integral warm white LED 3000K
ED	31	BK LIGHTING# 1130-LED-e51-BZP-18/ PP	6-1/2"diameter, power pipe mounted LED path light	NON-DIM	5w/12V	Fixture requires power pipe mounting and remote power supply.	Integral warm white LED 3000K
EE	1	TBD	Fountain Light	NON-DIM	TBD	Fixture located at perimeter of fountain.	

- General Notes:
1. All lighting equipment must be UL or ETL listed and labeled.
 2. Contractor to confirm all lighting fixtures and lamp compatibility.
 3. Interior design to verify height of chandeliers, pendants, and wall sconces.
 4. Contractor to confirm all recessed housingsand trim kits for ceiling and wall compatibility, verify obstructions prior to ordering.
 5. Interior of coves to be painted with matte white paint, free of joint compound or other obstructions that may cause any lack of lighting uniformity.
 6. Contractor responsible for ordering all power supplies, dimming interfaces, leader cables, connector cables and termination ends if required.
 7. Contractor responsible for ordering all parts necessary for a complete and fully functional system.
 8. Fixture that requires remote toroidal low voltage transformer should be locatedd in a well-ventilated, accessible and concealed location, contractor to coordinate.
 9. Remote power supplies per contractor, coordinate wire lengths and gauge to prevent voltage drop.
 10. Equipment with 0-10V dimmable power supplies requires 4 wire rough in. Refer to specification and installation sheets for additional information.

SYMBOL LEGEND

<div><div>○</div><div>TYPE: ZONE:</div><div><div></div><div></div></div></div>		<div>LIGHTING FIXTURE TYPE</div> <div>LIGHTING CONTROL ZONE</div>
TYPE	SYMBOL	
EA	<div><div></div>EA</div>	
EA1	<div><div></div>EA1</div>	
EB	<div><div></div>EB</div>	
EC	<div><div></div>EC</div>	
ED	<div><div></div>ED</div>	

Ohm

lighting

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PROJECT
AC HOTEL

REVISIONS

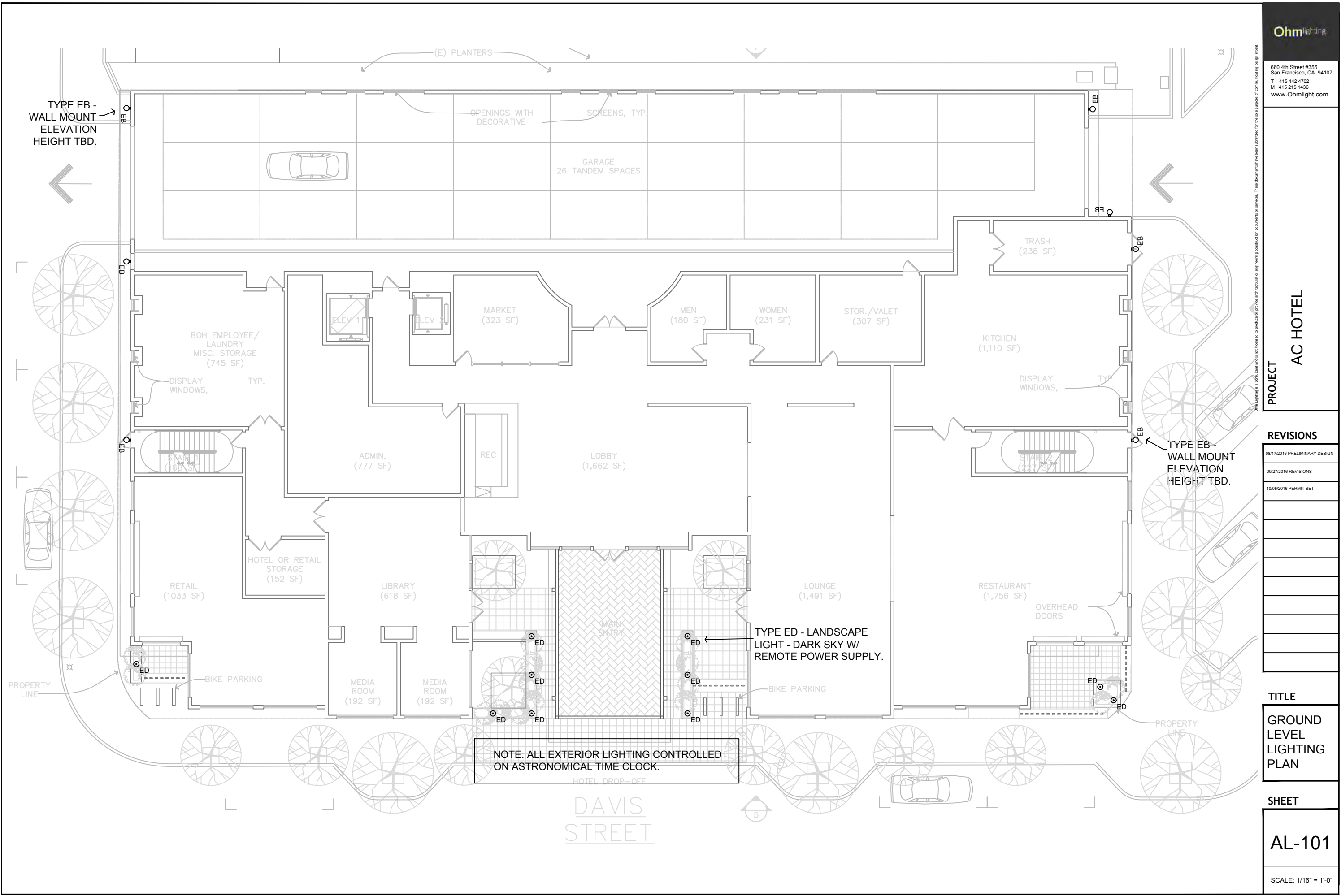
08/17/2016 PRELIMINARY DESIGN

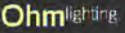
09/27/2016 REVISIONS

10/05/2016 PERMIT SET

TITLE
FIXTURE
SCHEDULE

SHEET
AL-001





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PROJECT

AC HOTEL

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10/05/2016	PERMIT SET

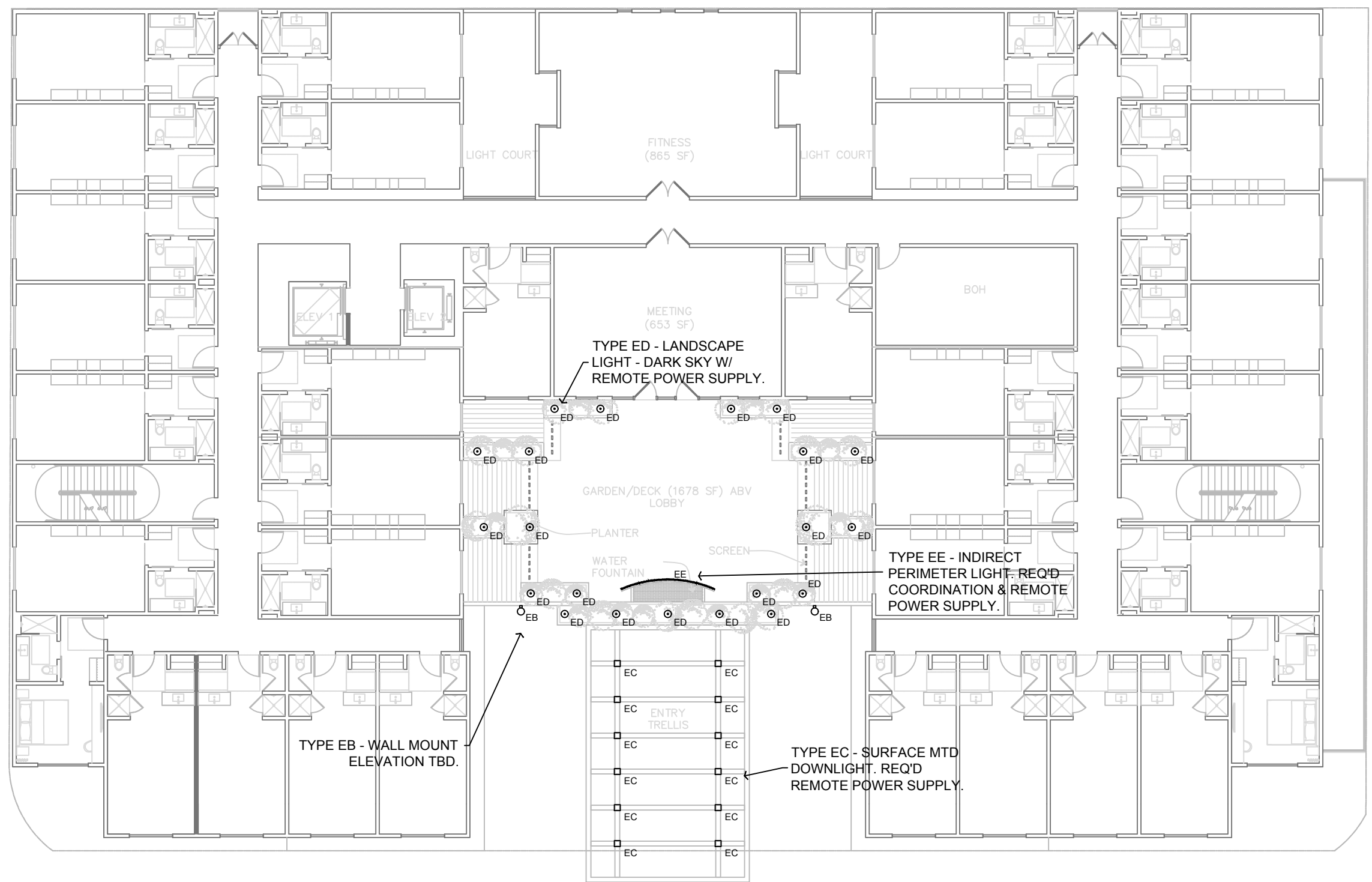
TITLE

GROUND
LEVEL
LIGHTING
PLAN

SHEET

AL-101

SCALE: 1/16" = 1'-0"



PROJECT
AC HOTEL

REVISIONS

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09/27/2016 REVISIONS
10/05/2016 PERMIT SET

TITLE

SECOND
LEVEL
LIGHTING
PLAN

SHEET

AL-102

SCALE: 1/16" = 1'-0"



1 BUILDING ELEVATION NORTH @5th



2 BUILDING ELEVATION SOUTH @4th

REVISIONS

08/17/2016 PRELIMINARY DESIGN
09/27/2016 REVISIONS
10/05/2016 PERMIT SET



1 BUILDING ELEVATION WEST @DAVIS

PROJECT
AC HOTEL

REVISIONS

08/17/2016 PRELIMINARY DESIGN
09/27/2016 REVISIONS
10/05/2016 PERMIT SET

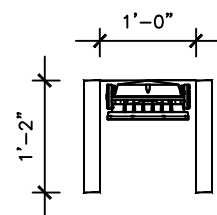
TITLE

EXTERIOR
LIGHTING
ELEVATION

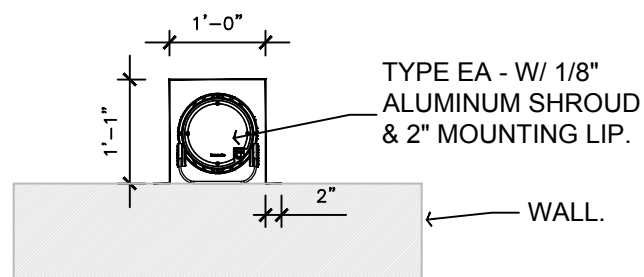
SHEET

AL-202

SCALE: N/A



3 TYPE EA MOUNTING DETAIL FRONT VIEW
SCALE: 1/2" = 1'-0"



4 TYPE EA MOUNTING DETAIL END VIEW
SCALE: 1/2" = 1'-0"



1 TYPE EA/ EA1 LIGHTING LOCATIONS



2 TYPE EA/ EA1 LIGHTING LOCATIONS

REVISIONS

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10/05/2016	PERMIT SET

TITLE

EXTERIOR
LIGHTING
DETAILS

SHEET

AL-203

SCALE: N/A