

# Bank of America



## EXTERIOR LIGHTING PROGRAM

**MA5-146  
557 Tremont St,  
Boston, MA, 02118**

### DRAWING INDEX:

- COVER SHEET
- LU-1 GENERAL NOTES
- LU-2 LUMINAIRE SCHEDULE
- LU-3 OVERALL SITE PLAN
- LU-4 FULL SITE PHOTOMETRICS PLAN AT GRADE
- LU-5 FIXTURE REMOVAL PLAN
- LU-6 DIMENSIONING PLAN
- LU-7 LANDSCAPING PLAN
- LU-8 ATM COMPLIANCE AREA PHOTOMETRICS PLAN - FOR BANK USE ONLY
- LU-9 ELEVATIONS
- LU-10 EXISTING CONDITIONS



**VICINITY MAP**

**v2 221021**



Facility Analysis + Engineering

Office: (972) 771-6038

1629 Smirl Drive, Suite 200, Heath, Texas 75032

[www.gmr1.com](http://www.gmr1.com)

### SCOPE OF WORK

COUNT	NOTES
8	REPLACE EXISTING FIXTURE
12	OUT OF SCOPE
2	ADD NEW FIXTURE

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**CONTRACTOR RESPONSIBILITY NOTES:**

- CONTRACTOR SHALL BE RESPONSIBLE FOR PERMITTING, INCLUDING COORDINATION WITH THE LOCAL JURISDICTION AND ANY ASSOCIATED PERMIT FEES OR PROCESSING. CONTRACTOR SHALL NOTIFY GMR UPON RECEIPT OF PERMIT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITTING DOCUMENTS THAT ARE NOT INCLUDED IN THE LIGHTING DESIGN PACKAGE. THESE INCLUDE, BUT ARE NOT LIMITED TO, STAMPED ELECTRICAL DRAWINGS, STAMPED POLE BASE DRAWINGS, AND PROFESSIONAL SURVEYS.
- SHOULD STAMPED PHOTOMETRIC DRAWINGS BE REQUIRED, CONTRACTOR SHALL ENGAGE LOCAL ENGINEER OR LIGHTING DESIGNER AS REQUIRED TO PROVIDE STAMP ON GMR PHOTOMETRIC DESIGN DOCUMENTS.
- CONTRACTOR SHALL PROVIDE THE BANKING CENTER NOTIFICATION AT LEAST ONE WEEK IN ADVANCE OF VISITING SITES OR STARTING WORK.
- CONTRACTOR SHALL VERIFY VOLTAGE REQUIREMENTS FOR FIXTURES PRIOR TO PLACEMENT OF FIXTURE ORDERS.
- CONTRACTOR TO VERIFY LIGHTING CONTROLS PRIOR TO BEGINNING CONSTRUCTION. SEE LIGHTING CONTROL NOTES.
- CONTRACTOR SHALL RECEIVE FORMAL APPROVAL FROM GMR ON ANY FIXTURE MODIFICATIONS OR VARIATIONS FROM THE LUMINAIRE SCHEDULE.
- CONTRACTOR SHALL VERIFY EXISTING AND PROPOSED FIXTURE MOUNTING CONDITIONS IN FIELD. ANY SPECIAL MOUNTING HARDWARE NEEDED FOR PROPOSED FIXTURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL SUPPLY ALL NEW LIGHT POLES. NEW LIGHT POLES SHALL MATCH EXISTING CONDITIONS ON SITE FOR POLE TYPE AND PAINT COLOR.
- CONTRACTOR SHALL ORDER ALL FIXTURES FROM BORDER STATES IN ACCORDANCE WITH BANK OF AMERICA NATIONAL ACCOUNT. CONTACT NATIONAL ACCOUNT QUOTES DEPARTMENT AT BOA@BORDERSTATES.COM OR 704-372-3040.
- CONTRACTOR SHALL PERFORM ALL NECESSARY PATCHING OR REPAINTING FOR ADDED, REMOVED, OR REPLACED FIXTURES.
- CONTRACTOR SHALL REPAIR ANY DISTURBED AREAS BACK TO EXISTING CONDITION INCLUDING PAVED AREAS, LANDSCAPED AREAS, ETC.
- CONTRACTOR SHALL VERIFY AND DOCUMENT COMPLETED WORK DURING NIGHT HOURS. ALL FIXTURES MUST BE FUNCTIONAL DURING NIGHT HOURS PRIOR TO SCHEDULING A FINAL SURVEY WITH GMR.
- CONTRACTOR SHALL PROVIDE BEFORE AND AFTER NIGHT TIME PHOTOS OF THE SITE.
- CONTRACTOR SHALL UTILIZE THE "BOA ELP INCENTIVE SITE SURVEY FORM" TO DOCUMENT THE EXACT DETAILS OF EACH FIXTURE BEING REMOVED FOR REBATE AND ENERGY SAVINGS CALCULATION PURPOSES.
- CONTRACTOR SHALL RECEIVE A PUNCHLIST FROM GMR UPON FINAL SURVEY FOR ANY REMAINING ITEMS TO BE COMPLETED.

**SITE ABBREVIATIONS:**

- PL = PROPERTY LINE
- AFG = ABOVE FINISHED GRADE
- FC = FOOTCANDLE
- CBO = CONTROLLED BY OTHERS
- AHD = AFTER HOUR DEPOSITORY

**CONTROLS & ADDITIONAL NOTES:**

**LIGHTING CONTROL NOTES:**

THE CONTRACTOR SHALL VERIFY THE CONTROLS FOR ALL EXTERIOR LIGHTING AND ATM/AHD INTERIOR LOBBIES ON THE SITE (EXCLUDING SIGNAGE) AND ADJUST ACCORDING TO THE FOLLOWING:

- IC3 CONTROL:**  
CONTRACTOR SHALL VERIFY THAT EXTERIOR LIGHTING CIRCUITS ARE CONTROLLED BY THE CORRECT IC3 CIRCUIT. WHERE EXTERIOR LIGHTING IS INCLUDED ON CONTROL CIRCUITS FOR INTERIOR SYSTEMS, INTERIOR LIGHTING, OR EXTERIOR SIGNAGE, CONTRACTOR SHALL ADJUST EXTERIOR LIGHTING TO THE CORRECT CONTROL CIRCUIT AS REQUIRED.
- PHOTOCELL CONTROL:**  
CONTRACTOR SHALL REPLACE EXISTING PHOTOCELLS WITH NEW AND INSTALL IN A LOCATION BEST SUITED TO PROVIDE APPROPRIATE LIGHT EXPOSURE SUCH THAT EXTERIOR LIGHTS ARE ON DURING DARKNESS.
- TIME CLOCK CONTROL:**  
CONTRACTOR SHALL VERIFY LOCATION OF TIME CLOCK. IF TIME CLOCK IS IN ELECTRICAL ROOM ALONG WITH IC3 CONTROLS, CONTRACTOR SHALL ADJUST CIRCUIT TO BE CONTROLLED BY IC3 EXTERIOR LIGHTING CONTROLS. IF TIME CLOCK IS IN A REMOTE LOCATION NOT IN CLOSE PROXIMITY TO THE IC3 CONTROLS, CONTRACTOR SHALL VERIFY TIME CLOCK IS SET PROPERLY AND LEAVE CIRCUIT ON TIME CLOCK CONTROL.
- MANUAL CONTROL:**  
CONTRACTOR SHALL VERIFY THAT NO EXTERIOR LIGHTING IS CONTROLLED MANUALLY. IF ANY EXTERIOR LIGHTING IS ON A MANUALLY CONTROLLED CIRCUIT, CONTRACTOR SHALL ADJUST TO BE CONTROLLED BY PHOTOCELL OR IC3, WHICHEVER IS MOST ECONOMICALLY ACCOMPLISHED.

**ADDITIONAL CONTRACTOR NOTES:**

**CONSTRUCTION COMPLETION VERIFICATION**

UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL PROVIDE VERIFICATION IN WRITING TO THE BANK OF AMERICA PJM THAT ALL WORK IS COMPLETE ACCORDING TO THE CONSTRUCTION DOCUMENTS, AND THAT ALL EXTERIOR LIGHTING IS FUNCTIONING DURING NIGHTTIME HOURS. COMPLETION PHOTOS, TAKEN AT NIGHT, SHALL BE PROVIDED IN THE FOLLOWING FORMAT:

- PROVIDE A SINGLE DOCUMENT CONTAINING THE FOLLOWING:
  - SITE PHOTOS FROM ALL SIDES OF BUILDING
  - MINIMUM OF 3 PHOTOS OF EACH COMPLIANCE AREA (ATM(S), AFTER-HOUR DEPOSITORIES, ASSOCIATE ENTRY) FROM DIFFERENT ANGLES
  - MINIMUM OF 2 PHOTOS OF ALL NON-COMPLIANCE AREAS FROM DIFFERENT ANGLES

**FIXTURE CLARIFICATION NOTES:**

- OUT OF SCOPE** - EXISTING FIXTURES TO REMAIN ON SITE WITHOUT MODIFICATION. NO ACTION REQUIRED UNLESS NOTED OTHERWISE.
- REMOVE AND PATCH** - EXISTING FIXTURES TO BE FULLY REMOVED AND ANY PAINTING, PATCHING OR ELECTRICAL WORK NEEDED IS TO BE ASSESSED AND PERFORMED BY CONTRACTOR.
- REPLACE EXISTING FIXTURE** - EXISTING FIXTURE TO BE FULLY REMOVED AND REPLACED IN THE SAME LOCATION WITH A NEW FIXTURE. CONTRACTOR TO VERIFY IF POLE AND/OR POLE BASE IS SUFFICIENT FOR THE NEW FIXTURES. ANY PAINTING, PATCHING OR ELECTRICAL WORK NEEDED IS TO BE ASSESSED AND PERFORMED BY CONTRACTOR.
- ADD NEW FIXTURE** - NEW FIXTURES TO BE ADDED. ANY PAINTING, PATCHING OR ELECTRICAL WORK NEEDED TO BE ASSESSED AND PERFORMED BY CONTRACTOR.
- ADD NEW POLE & FIXTURE** - A NEW POLE AND FIXTURE TO BE ADDED. CONTRACTOR TO SPECIFY POLE TO MATCH EXISTING STYLE AND COLOR AND, IF NOT PROVIDED, POLE BASE DATA FOR NEW POLE LOCATIONS. CONTRACTOR TO VERIFY IF POLE AND POLE BASE IS SUFFICIENT FOR THE HEIGHT, LOCATION AND FIXTURE SPECIFIED.
- GMR DOES NOT SPECIFY MOUNTING HARDWARE FOR ANY SPECIFIED FIXTURES. CONTRACTOR IS TO WORK WITH DISTRIBUTOR AND/OR MANUFACTURER ON A CASE BY CASE BASIS TO IDENTIFY AND ORDER REQUIRED MOUNTING HARDWARE.
- CONTRACTOR TO VERIFY WHETHER EXISTING WIRING LOCATIONS OR THE ADDITION OF WIRING FOR NEW FIXTURE LOCATIONS IS SUFFICIENT FOR THE DESIGNATED FIXTURE LOCATION.
- CONTRACTOR TO SPECIFY POLE COLOR AND TYPE PRIOR TO ORDERING.
- ALL FIXTURES ARE ASSUMED BRONZE IN COLOR UNLESS NOTED OTHERWISE IN THE LUMINAIRE SCHEDULE. CONTRACTOR TO CONFIRM PRIOR TO ORDERING.

**GENERAL NOTES:**

- EXISTING CONDITIONS SHOWN ON THE DRAWINGS ARE BASED ON A LIMITED AMOUNT OF INFORMATION AVAILABLE TO THE ENGINEER. ALL SUCH CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO SUBMITTING THE BID AND ADJUSTED IF NECESSARY. NO ADDITIONAL COMPENSATION SHALL BE GRANTED AFTER AWARDED A BID FOR ANY EQUIPMENT, MATERIAL OR LABOR REQUIRED TO REWORK OR OTHERWISE MODIFY EXISTING CONDITIONS. THIS LIGHTING DESIGN IS BASED ON A COMBINATION OF STATE STANDARDS, THE BANK'S CURRENT SECURITY POLICY FOR EXTERIOR ATM AND AFTER-HOUR DEPOSITORIES AND BANK GUIDELINES FOR NON-SECURITY COMPLIANCE ZONES.
- TRIM ALL TREES/LANDSCAPING TO MINIMIZE IMPEDING LIGHT FROM ANY LIGHT FIXTURES THAT IMPACT THE 60' RADIUS AROUND ALL ATMS AND A RADIUS OF 50' AROUND ALL AFTER-HOUR DEPOSITORIES. CONSIDERATION MUST BE GIVEN TO TREES/LANDSCAPING IN A STATE OF FULL FOLIAGE/BLOOM AND FUTURE GROWTH. ALL LANDSCAPING WORK WILL BE PERFORMED BY OTHERS WITH A SEPARATE PERMIT (IF REQUIRED).
- ALL MOUNTING HEIGHTS ARE INTENDED TO THE BOTTOM OF THE FIXTURE.
- CONTRACTOR TO FIELD VERIFY FIXTURE PLACEMENT DIMENSIONS PRIOR TO CONSTRUCTION.
- DIMENSIONING PROVIDED IS FOR PROPOSED FIXTURE LOCATIONS ONLY, UNLESS OTHERWISE NOTED ON THE DRAWING.
- THE CONTRACTOR SHALL ATTEMPT TO ELIMINATE THE USE OF EXPOSED CONDUIT WHERE POSSIBLE. IF EXPOSED CONDUIT IS NECESSARY, THE CONTRACTOR SHALL VERIFY USE WITH PROJECT MANAGER.
- ALL EXISTING LIGHTS WILL BE REPLACED WITH LED LIGHTS AND ALL PROPOSED LIGHTS WILL ALSO BE LED, UNLESS OTHERWISE NOTED.
- ALL FIXTURES ARE TO BE MOUNTED ABOVE FINISH GRADE, UNLESS OTHERWISE NOTED, MATCH EXISTING POLE BASES.



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NO.	DESCRIPTION	REVISED BY



South End  
MA5-146  
557 Tremont St.  
Boston, MA, 02118

**GENERAL NOTES**

DESIGNED BY: JWE	DRAWN BY: JWE
REVIEWED BY: AWD	APPROVED BY: KRM

THIS LIGHTING PLAN ILLUSTRATES ILLUMINANCE LEVELS CALCULATED FROM LABORATORY DATA UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICAN (IESNA) APPROVED METHODS. ACTUAL SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINAIRES MAY VARY DUE TO VARIATIONS IN WEATHER, ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS AND OTHER RELATED VARIABLE FIELD CONDITIONS.

DIST NO. LU-1



\*\*SEE FIXTURE CLARIFICATION NOTE #9\*\*

LUMINAIRE SCHEDULE

\*\*CONTRACTOR TO VERIFY MOUNTING ACCESSORIES BEFORE ORDERING\*\*

SYMBOL	TOTAL FIXTURE COUNT	TYPE	NEW POLE COUNT	MANUFACTURER	MODEL	MODEL NUMBER	NOTES	MOUNTING HEIGHT	MOUNTING ACCESSORY	BUG RATING	MOUNTING	TOTAL WATTAGE
	1	UDA1	-	CREE	CDR	CDR-4-B-ALS(1000L)-9ACK(30K)-10V5-WH-UNV	ADD NEW FIXTURE	MATCH EXISTING CANOPY HEIGHT	-	B1-U1-G0	RECESSED CANOPY MOUNT	12 W
	5	UEK1	-	CREE	ZR22	ZR-22-40L-830-10V5-UNV	REPLACE EXISTING FIXTURE	MATCH EXISTING CANOPY HEIGHT	-	B2-U0-G1	RECESSED CANOPY MOUNT	160 W
	1	USF1	-	CREE	SECURITY EDGE	SEC-EDG-3M-WM-02-E-UL-BZ-525-30K	REPLACE EXISTING FIXTURE	MATCH EXISTING	-	B1-U0-G1	WALL MOUNT	37 W
	1	USF2	-	CREE	SECURITY EDGE	SEC-EDG-3M-WM-02-E-UL-BZ-525-30K	ADD NEW FIXTURE	9' AFG	-	B1-U0-G1	WALL MOUNT	37 W
	2	UU1	-	LITHONIA	EML17	EML17-RT-49LED525MA-3K-R4-GCF-MVOLT-QSM-DNAXD	REPLACE EXISTING FIXTURE	MATCH EXISTING	EAL4WB-DNAXD	B1-U1-G1	WALL MOUNT	174 W
	2	YA1	-	-	-	-	OUT OF SCOPE	-	-	-	RECESSED CANOPY MOUNT	0 W
	2	YB1	-	-	-	-	OUT OF SCOPE	-	-	-	POLE MOUNT	0 W
	2	YH1	-	-	-	-	OUT OF SCOPE	-	-	-	POLE MOUNT	0 W
	6	YK1	-	-	-	-	OUT OF SCOPE	-	-	-	WALL MOUNT	0 W
GRAND TOTAL WATTAGE												420 W

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LUMINAIRE SCHEDULE

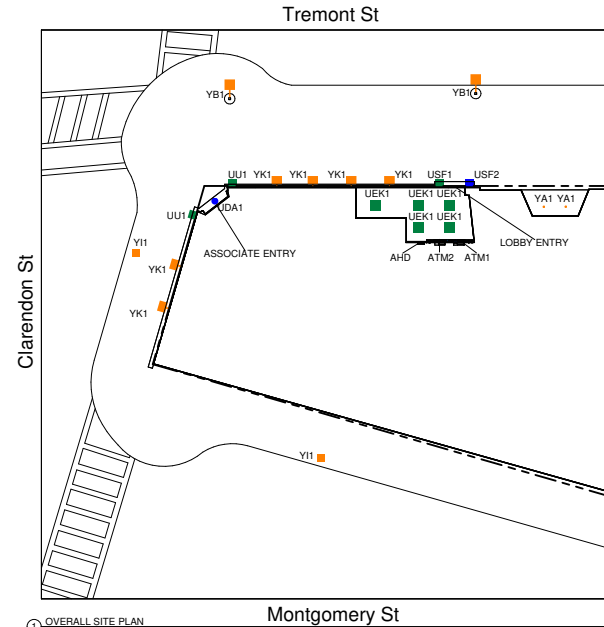
DESIGNED BY: JWE      DRAWN BY: JWE

REVIEWED BY: AWD      APPROVED BY: KRM

SHEET NO. LU-2

THIS LIGHTING PLAN ILLUSTRATES ILLUMINANCE LEVELS CALCULATED FROM LABORATORY DATA UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICAN (IESNA) APPROVED METHODS. ACTUAL SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINAIRES MAY VARY DUE TO VARIATIONS IN WEATHER, ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS AND OTHER RELATED VARIABLE FIELD CONDITIONS.

TOTAL FIXTURE COUNT	TYPE	NOTES	MOUNTING HEIGHT
1	UDA1	ADD NEW FIXTURE	MATCH EXISTING CANOPY HEIGHT
5	UEK1	REPLACE EXISTING FIXTURE	MATCH EXISTING CANOPY HEIGHT
1	USF1	REPLACE EXISTING FIXTURE	MATCH EXISTING
1	USF2	ADD NEW FIXTURE	9' AFG
2	UU1	REPLACE EXISTING FIXTURE	MATCH EXISTING
2	YA1	OUT OF SCOPE	-
2	YB1	OUT OF SCOPE	-
2	YI1	OUT OF SCOPE	-
6	YK1	OUT OF SCOPE	-



① OVERALL SITE PLAN  
3/32" = 1'-0"

Bank of America



BLUE = NEW FIXTURE  
 GREEN = EXISTING FIXTURE LOCATION TO BE REPLACED  
 ORANGE = EXISTING FIXTURE TO REMAIN  
 TURQUOISE = FIXTURE TO BE REMOVED  
 PINK = REPLACE WITH NEW POLE AT NEW HEIGHT  
 --- = PROPERTY LINE BASED ON COUNTY APPRAISAL INFORMATION  
 --- = INDICATES NEW SECURITY FENCE



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South End  
MA5-146  
557 Tremont St.  
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OVERALL SITE PLAN

DESIGNED BY:	JWE	DRAWN BY:	JWE
REVIEWED BY:	AWD	APPROVED BY:	KRM

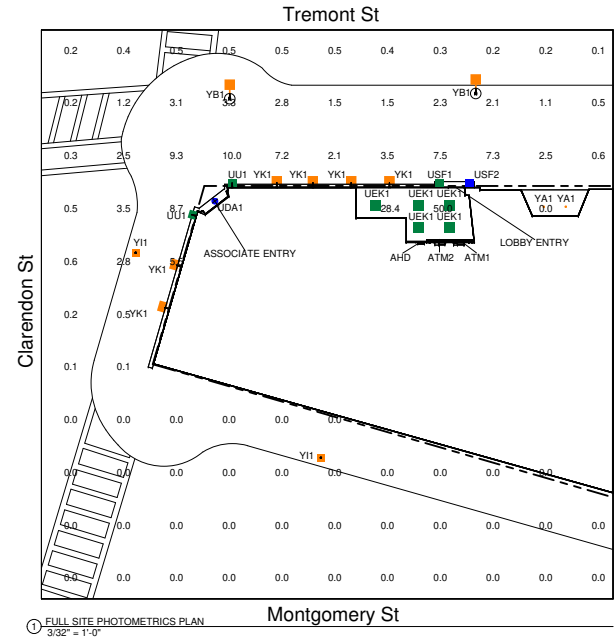
PROJECT NO. LU-3

SITE NOTES:	EXISTING CONDITIONS:
1. LIGHTING IS REQUIRED FOR COMPLIANCE AND WILL REQUIRE LANDLORD APPROVAL PRIOR TO INSTALLATION. BANK MUST HAVE LANDLORD AGREE TO LEAVE FIXTURES ON ALL HOURS OF DARKNESS.	1. EXISTING POLES - SQUARE, STEEL BOUND, DECORATIVE 2. EXISTING POLE BASES - DIRECT BURY, DECORATIVE 3. EXISTING DRIVE THRU CEILING - NA

THIS LIGHTING PLAN ILLUSTRATES ILLUMINANCE LEVELS CALCULATED FROM LABORATORY DATA UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICAN (IESNA) APPROVED METHODS. ACTUAL SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINAIRES MAY VARY DUE TO VARIATIONS IN WEATHER, ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS AND OTHER RELATED VARIABLE FIELD CONDITIONS.

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- NOTES:
1. THE SCOPE OF WORK FOR THIS PROJECT IS LIMITED TO EXTERIOR LIGHTING RENOVATIONS AS SHOWN ON THE PLANS.
  2. ALL PROPOSED LIGHTS WILL BE FULL CUT OFF LED LIGHT FIXTURES.
  3. ALL EXISTING LIGHTS WILL BE REPLACED WITH FULL CUT OFF LED LIGHT FIXTURES.
  4. REFERENCE THE LUMINAIRE SCHEDULE (SHEET LU-5) FOR ADDITIONAL LIGHT FIXTURE INFORMATION.



① FULL SITE PHOTOMETRICS PLAN  
3/32" = 1'-0"

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- BLUE = NEW FIXTURE
- GREEN = EXISTING FIXTURE LOCATION TO BE REPLACED
- ORANGE = EXISTING FIXTURE TO REMAIN
- TURQUOISE = FIXTURE TO BE REMOVED
- PINK = REPLACE WITH NEW FIXTURE AT NEW HEIGHT
- = PROPERTY LINE BASED ON COUNTY APPRAISAL INFORMATION
- = INDICATES NEW SECURITY FENCE



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FULL SITE PHOTOMETRICS PLAN

DESIGNED BY	JWE	CHECKED BY	JWE
REVIEWED BY	AWD	APPROVED BY	KRM

LU-4

THIS LIGHTING PLAN ILLUSTRATES ILLUMINANCE LEVELS CALCULATED FROM LABORATORY DATA UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICAN (IESNA) APPROVED METHODS. ACTUAL SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINAIRES MAY VARY DUE TO VARIATIONS IN WEATHER, ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS AND OTHER RELATED VARIABLE FIELD CONDITIONS.

CALCULATION SUMMARY FULL SITE					
Calculation Points Name	Average	Maximum	Minimum	Ave/Min	Max/Min
FULL SITE @ GRADE	2.1 fc	50.0 fc	0.0 fc	0.0	0.0

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# SHEET INTENTIONALLY LEFT BLANK

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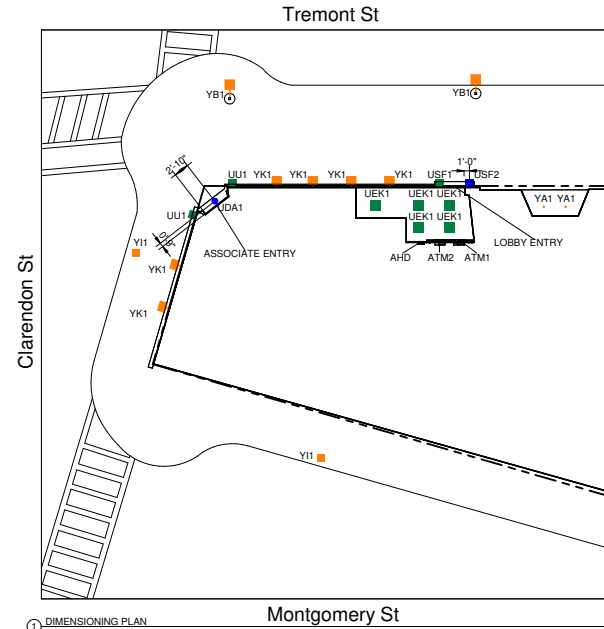
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**FIXTURE REMOVAL PLAN**

DESIGNED BY: JWE	DRAWN BY: JWE
REVIEWED BY: AWD	APPROVED BY: KRM

SHEET NO. LU-5

TOTAL FIXTURE COUNT	TYPE	NOTES	MOUNTING HEIGHT
1	UDA1	ADD NEW FIXTURE	MATCH EXISTING CANOPY HEIGHT
5	UEK1	REPLACE EXISTING FIXTURE	MATCH EXISTING CANOPY HEIGHT
1	USF1	REPLACE EXISTING FIXTURE	MATCH EXISTING
1	USF2	ADD NEW FIXTURE	9' AFG
2	UU1	REPLACE EXISTING FIXTURE	MATCH EXISTING
2	YA1	OUT OF SCOPE	-
2	YB1	OUT OF SCOPE	-
2	YI1	OUT OF SCOPE	-
6	YK1	OUT OF SCOPE	-



① DIMENSIONING PLAN  
3/32" = 1'-0"

Bank of America



- BLUE = NEW FIXTURE
- GREEN = EXISTING FIXTURE LOCATION TO BE REPLACED
- ORANGE = EXISTING FIXTURE TO REMAIN
- TURQUOISE = FIXTURE TO BE REMOVED
- PINK = REPLACE WITH NEW FIXTURE AT NEW HEIGHT
- - - = PROPERTY LINE BASED ON COUNTY APPRAISAL INFORMATION
- = INDICATES NEW SECURITY FENCE



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DIMENSIONING PLAN

DESIGNED BY:	JWE	DRAWN BY:	JWE
REVIEWED BY:	AWD	APPROVED BY:	KRM

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LU-6



# SHEET INTENTIONALLY LEFT BLANK

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LANDSCAPING PLAN

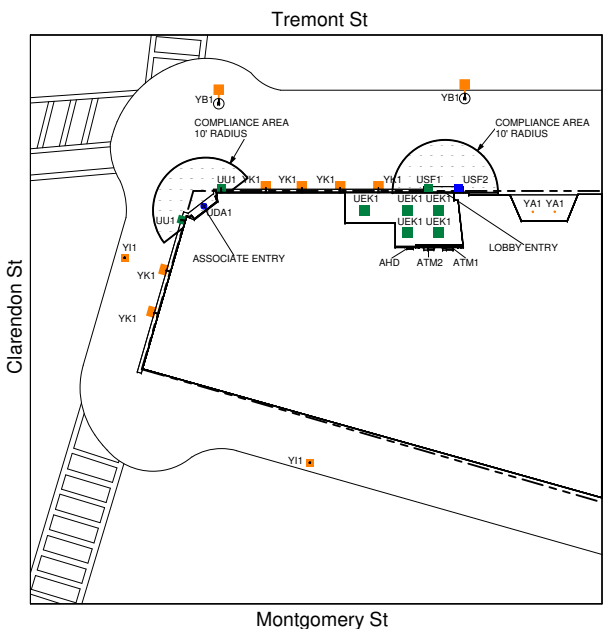
DESIGNED BY: JWE	DRAWN BY: JWE
REVIEWED BY: AWD	APPROVED BY: KRM

SHEET NO. LU-7





BLUE = NEW FIXTURE  
 GREEN = EXISTING FIXTURE LOCATION TO BE REPLACED  
 ORANGE = EXISTING FIXTURE TO REMAIN  
 TURQUOISE = FIXTURE TO BE REMOVED  
 PINK = REPLACE WITH NEW FIXTURE AT NEW HEIGHT  
 --- = PROPERTY LINE BASED ON COUNTY APPRAISAL INFORMATION  
 --- = INDICATES NEW SECURITY FENCE



① ATM COMPLIANCE AREA PHOTOMETRICS PLAN  
3/32" = 1'-0"

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REVISION NO.	DESCRIPTION	DATE



South End  
 MA5-146  
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**ATM COMPLIANCE AREA PHOTOMETRICS PLAN**

DESIGNED BY: JWE      CHECKED BY: JWE

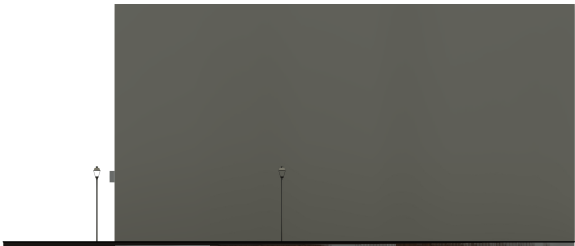
APPROVED BY: AWD      APPROVED BY: KRM

LU-8

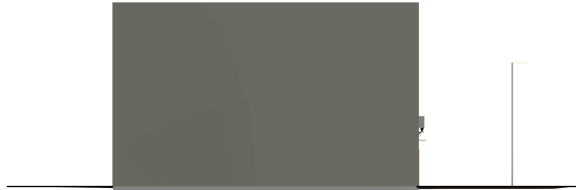
CALCULATION SUMMARY COMPLIANCE					
Calculation Points Name	Average	Maximum	Minimum	Ave/Min	Max/Min
ASSOCIATE ENTRY 10' @ 36"	15.0 fc	23.9 fc	6.0 fc	2.5	4.0
LOBBY ENTRY 10' @ 36"	11.0 fc	14.8 fc	6.8 fc	1.6	2.2

NOTES:  
 1. READINGS ARE MEASURED AT 90" (5') ABOVE GRADE.  
 2. THE SCOPE OF WORK FOR THIS PROJECT IS LIMITED TO EXTERIOR LIGHTING RENOVATIONS AS SHOWN ON THE PLANS.  
 3. REFERENCE THE LUMINAIRE SCHEDULE FOR ADDITIONAL LIGHT FIXTURE INFORMATION.  
 4. GC TO VERIFY WITH LOCAL AUTHORITY HAVING JURISDICTION ON TREE TRIMMING AND/OR REMOVAL PRIOR TO COMMENCING WORK.

THIS LIGHTING PLAN ILLUSTRATES ILLUMINANCE LEVELS CALCULATED FROM LABORATORY DATA UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICAN (IESNA) APPROVED METHODS. ACTUAL SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINAIRES MAY VARY DUE TO VARIATIONS IN WEATHER, ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS AND OTHER RELATED VARIABLE FIELD CONDITIONS.



① ELEVATION 1  
3/32" = 1'-0"



② ELEVATION 2  
3/32" = 1'-0"



③ ELEVATION 3  
3/32" = 1'-0"



④ ELEVATION 4  
3/32" = 1'-0"

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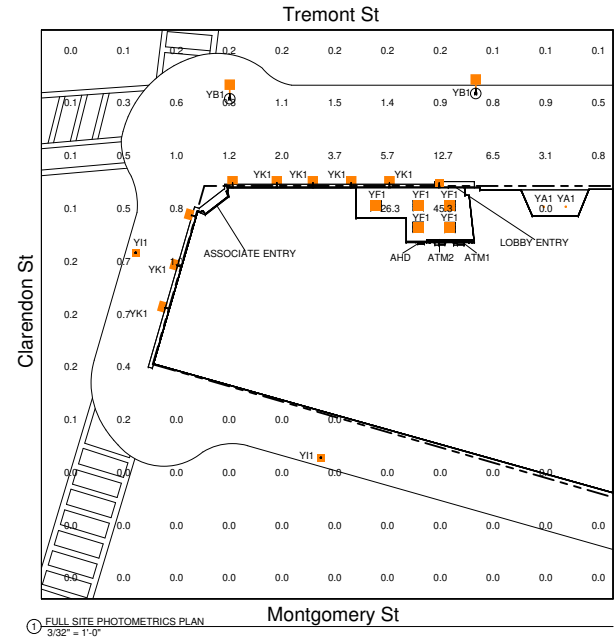
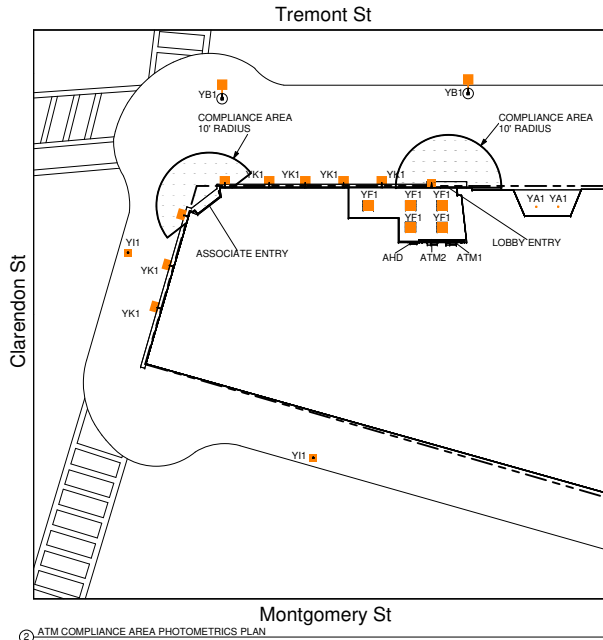
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ELEVATIONS

DESIGNED BY: JWE	DRAWN BY: JWE
REVIEWED BY: AWD	APPROVED BY: KRM

SHEET NO. LU-9

- NOTES:
1. THE SCOPE OF WORK FOR THIS PROJECT IS LIMITED TO EXTERIOR LIGHTING RENOVATIONS AS SHOWN ON THE PLANS.
  2. ALL PROPOSED LIGHTS WILL BE FULL CUT OFF LED LIGHT FIXTURES.
  3. ALL EXISTING LIGHTS WILL BE REPLACED WITH FULL CUT OFF LED LIGHT FIXTURES.
  4. REFERENCE THE LUMINAIRE SCHEDULE (SHEET LU-5) FOR ADDITIONAL LIGHT FIXTURE INFORMATION.



**Bank of America**



- BLUE = NEW FIXTURE
- GREEN = EXISTING FIXTURE LOCATION TO BE REPLACED
- ORANGE = EXISTING FIXTURE TO REMAIN
- TURQUOISE = FIXTURE TO BE REMOVED
- PINK = REPLACE WITH NEW FIXTURE AT NEW HEIGHT
- = PROPERTY LINE BASED ON COUNTY APPRAISAL INFORMATION
- = INDICATES NEW SECURITY FENCE



CALCULATION SUMMARY COMPLIANCE					
Calculation Points Name	Average	Maximum	Minimum	Ave/Min	Max/Min
ASSOCIATE ENTRY 10' @ 36"	1.2 fc	1.9 fc	0.0 fc	0.0	0.0
LOBBY ENTRY 10' @ 36"	13.6 fc	26.3 fc	5.3 fc	2.5	4.9

CALCULATION SUMMARY FULL SITE					
Calculation Points Name	Average	Maximum	Minimum	Ave/Min	Max/Min
FULL SITE @ GRADE	1.5 fc	45.3 fc	0.0 fc	0.0	0.0

THIS LIGHTING PLAN ILLUSTRATES ILLUMINANCE LEVELS CALCULATED FROM LABORATORY DATA UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICAN (IESNA) APPROVED METHODS. ACTUAL SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINAIRES MAY VARY DUE TO VARIATIONS IN WEATHER, ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS AND OTHER RELATED VARIABLE FIELD CONDITIONS.

v2 221021

REVISION NO.	DESCRIPTION	DATE



South End  
MA5-146  
557 Tremont St.  
Boston, MA, 02118

EXISTING CONDITIONS	
DESIGNED BY: JWE	DRAWN BY: JWE
REVIEWED BY: AWD	APPROVED BY: KRM

LU-10

THIS PLAN SET IS PROPRIETARY AND CONFIDENTIAL INFORMATION OF THE BANK AND THE USE OF THIS DESIGN IS PROHIBITED WITHOUT THE EXPRESS PERMISSION OF THE BANK

# SEC-EDG-3M/3MB-WM

Cree Edge™ Security Wall Pack Luminaire – Type III Medium – Wall Mount

## Product Description

Slim, low profile design. Luminaire end cap is rugged die cast aluminum with integral, weathertight LED driver compartments and high performance aluminum heat sinks specifically designed for LED applications. Housing is rugged aluminum. Furnished with low copper lightweight mounting box designed for installation over standard and mud ring single gang J-Boxes. Secures to wall with four 3/16" (5mm) screws (by others). Conduit entry from top, bottom, sides and rear. Allows mounting for uplight or downlight. Designed and approved for easy through-wiring. Includes leaf / debris guard.

## Performance Summary

Utilizes BetaLED® Technology

Patented NanoOptic® Product Technology

Made in the U.S.A. of U.S. and imported parts

CRI: Minimum 70 CRI

CCT: 5700K (+ / - 500K) Standard, 4000K (+ / - 300K)

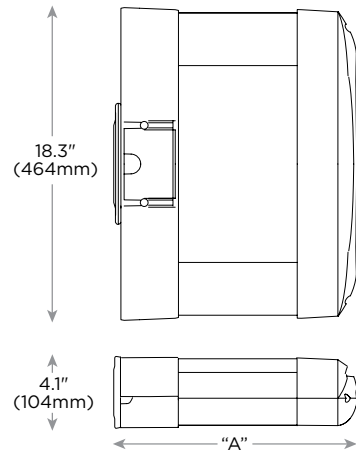
Limited Warranty\*: 10 years on luminaire / 10 years on Colorfast DeltaGuard® finish

## Accessories

### Field Installed Accessories

**XA-BRDSPK**  
Bird Spikes

## USF1 &



LED Count (x10)	Dim. "A"
02	9.9" (251mm)
04	11.9" (303mm)
06	13.9" (353mm)
08	15.9" (404mm)
10	17.9" (455mm)
12	19.9" (505mm)

## Ordering Information

Example: SEC-EDG-3M-WM-02-E-UL-SV-350-OPTIONS

SEC-EDG		WM		E					Options
Product	Optic	Mounting	LED Count (x10)	Series	Voltage	Color Options	Drive Current		custom 30K 300K Color
SEC-EDG	3M Type III Medium 3MB Type III Medium w/ BLS	WM Wall	02 04 06 08 10 12	E	UL Universal 120-277V UH Universal 347-480V 34 347V	SV Silver (Standard) BK Black BZ Bronze PB Platinum Bronze WH White	350 350mA 525* 525mA 700** 700mA		<b>40K 4000K Color Temperature</b> - Color temperature per luminaire <b>DIM 0-10V Dimming</b> - Control by others - Refer to dimming spec sheet for details - Can't exceed specified drive current <b>F Fuse</b> - Not available with UH or 34 voltages - Not available with all ML options. Refer to ML spec sheet for availability with ML options <b>P Photocell</b> - Not available with all ML options. Refer to ML spec sheet for availability with ML options - Must specify voltage other than UH <b>ML Multi-Level</b> - Refer to ML spec sheet for details

\* See www.cree.com/lighting/products/warranty for warranty terms

\* Available on luminaires with 20-80 LEDs

\*\* Available on luminaires with 20-60 LEDs



Rev. Date: 12/20/13



# SEC-EDG-3M/3MB-WM

## Product Specifications

### CONSTRUCTION & MATERIALS

- Slim, low profile design
- Luminaire sides are rugged die cast aluminum with integral, weathertight LED driver compartments and high performance aluminum heat sinks specifically designed for LED applications
- Housing is rugged aluminum
- Furnished with low copper, light weight mounting box designed for installation over standard and mud ring single gang J-Boxes
- Luminaire can also be direct mounted to a wall and surface wired
- Secures to wall with four 3/16" (5mm) screws (by others)
- Conduit entry from top, bottom, sides, and rear
- Allows mounting for uplight or downlight
- Designed and approved for easy through-wiring
- Includes leaf / debris guard
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Standard is silver. Bronze, black, white, and platinum bronze are also available

### ELECTRICAL SYSTEM

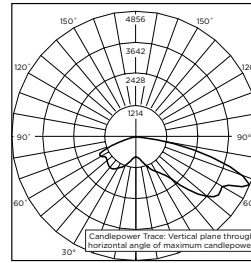
- **Input Voltage:** 120-277V or 347-480V, 50 / 60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral weathertight J-Box with leads (wire nuts) for easy power hook up
- Integral 10kV surge suppression protection standard
- To address inrush current, slow blow fuse or type C / D breaker should be used

### REGULATORY & VOLUNTARY QUALIFICATIONS

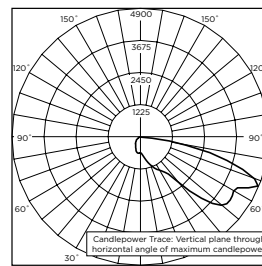
- cULus Listed
- Suitable for wet locations
- Enclosure rated IP66 per IEC 60529 when ordered without P or ML options
- Consult factory for CE Certified products
- 10kV surge suppression protection tested in accordance with IEEE / ANSI C62.41.2
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Product qualified on the DesignLights Consortium™ ("DLC") Qualified Products List ("QPL") when ordered without full backlight control shield
- Dark Sky Friendly, IDA Approved
- Meets Buy American requirements within ARRA

## Photometry

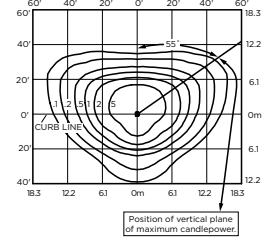
All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP certified laboratory.



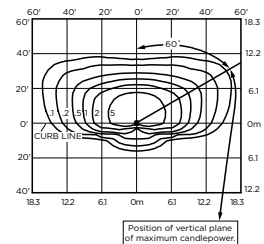
**ITL Test Report #: 79173**  
**SEC-EDG-3M-\*\*-06-E-UL-700-40K**  
**Initial Delivered Lumens: 10,343**



**CSA Test Report #: 6648**  
**ARE-EDG-3MB-\*\*-06-E-UL-700**  
**Initial Delivered Lumens: 7,740**



**SEC-EDG-3M-\*\*-08-E-UL-525-40K**  
**Mounting Height: 10' (3.0m) A.F.G.**  
**Initial Delivered Lumens: 11,220**  
**Initial FC at grade**



**SEC-EDG-3MB-\*\*-08-E-UL-525-40K**  
**Mounting Height: 10' (3.0m) A.F.G.**  
**Initial Delivered Lumens: 8,300**  
**Initial FC at grade**

### IES Files

To obtain an IES file specific to your project consult:  
<http://www.cree.com/lighting/tools-and-support/exterior-ies-configuration-tool>

## Weight

LED Count (x10)	Weight
02	20 lbs (9.1kg)
04	22 lbs (10.0kg)
06	25 lbs (11.3kg)
08	27 lbs (12.2kg)
10	31 lbs (14.1kg)
12	32 lbs (14.5kg)

## Lumen Output, Electrical, and Lumen Maintenance Data

Type III Medium and Type III Medium Distribution w/ BLS																
LED Count (x10)	5700K				4000K				System Watts 120-480V	TOTAL CURRENT						50K Hours Projected Lumen Maintenance Factor @ 15°C (59°F)***
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens w/ BLS*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens w/ BLS*	BUG Ratings** Per TM-15-11		120V	208V	240V	277V	347V	480V	
<b>350mA @ 25°C (77°F)</b>																
02	2,105	B1 U0 G1	1,557	B1 U0 G1	2,027	B1 U0 G1	1,499	B1 U0 G1	25	0.21	0.13	0.11	0.10	0.08	0.07	93%
04	4,209	B1 U0 G1	3,114	B1 U0 G1	4,054	B1 U0 G1	2,999	B1 U0 G1	46	0.36	0.23	0.21	0.20	0.15	0.12	
06	6,242	B2 U0 G2	4,617	B1 U0 G1	6,011	B2 U0 G2	4,446	B1 U0 G1	66	0.52	0.31	0.28	0.26	0.20	0.15	
08	8,323	B2 U0 G2	6,157	B1 U0 G2	8,015	B2 U0 G2	5,929	B1 U0 G2	90	0.75	0.44	0.38	0.34	0.26	0.20	
10	10,379	B3 U0 G3	7,677	B1 U0 G2	9,994	B3 U0 G3	7,393	B1 U0 G2	110	0.92	0.53	0.47	0.41	0.32	0.24	
12	12,454	B3 U0 G3	9,213	B1 U0 G2	11,993	B3 U0 G3	8,872	B1 U0 G2	130	1.10	0.63	0.55	0.48	0.38	0.28	
<b>525mA @ 25°C (77°F)</b>																
02	2,947	B1 U0 G1	2,180	B1 U0 G1	2,837	B1 U0 G1	2,099	B1 U0 G1	37	0.30	0.19	0.17	0.16	0.12	0.10	92%
04	5,893	B2 U0 G2	4,359	B1 U0 G1	5,675	B2 U0 G2	4,198	B1 U0 G1	70	0.58	0.34	0.31	0.28	0.21	0.16	
06	8,739	B2 U0 G2	6,464	B1 U0 G2	8,415	B2 U0 G2	6,225	B1 U0 G2	101	0.84	0.49	0.43	0.38	0.30	0.22	
08	11,652	B3 U0 G3	8,619	B1 U0 G2	11,220	B3 U0 G3	8,300	B1 U0 G2	133	1.13	0.66	0.58	0.51	0.39	0.28	
<b>700mA @ 25°C (77°F)</b>																
02	3,599	B1-U0-G1	2,662	B1 U0 G1	3,466	B1 U0 G1	2,564	B1 U0 G1	50	0.41	0.25	0.22	0.20	0.15	0.12	90%
04	7,198	B2-U0-G2	5,325	B1 U0 G2	6,952	B2 U0 G2	5,127	B1 U0 G2	93	0.78	0.46	0.40	0.36	0.27	0.20	
06	10,674	B3-U0-G3	7,896	B1 U0 G2	10,279	B3 U0 G3	7,603	B1 U0 G2	134	1.14	0.65	0.57	0.50	0.39	0.29	

\* Actual production yield may vary between -4 and +10% of initial delivered lumens  
 \*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit [www.iesna.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf](http://www.iesna.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf)  
 \*\*\* For recommended lumen maintenance factor data see TD-13. Calculated L<sub>70</sub> based on 6,000 hours LM-80-08 testing: >100,000 hours

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[www.cree.com/lighting](http://www.cree.com/lighting)

T (800) 236-6800 F (262) 504-5415





# EML17

## Munich Pendant Eurotique Family



UU

Catalog Number
Notes
Type

Hit the Tab key or mouse over the page to see all interactive elements.

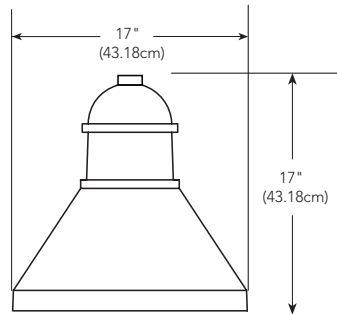
### Introduction

The Munich is a European-styled pendant luminaire suitable for use with a variety of Eurotique decorative arms and poles.

Intended for use in pedestrian areas such as retail environments, public parks, city centers and commercial areas or other spaces with decorative requirements and a contemporary theme.

### Specifications

**EPA:** 0.86ft<sup>2</sup>  
**Height:** 17"  
**Diameter:** 17"  
**Weight:** 60 lbs



### Ordering Information

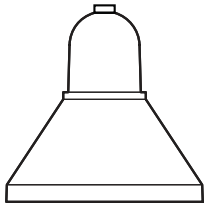
**EXAMPLE:** EML17 ST 63LED 350MA 4K R3 GCF 120 DDBXD

EML17														
Series	Base		Performance Package		Color Temperature		Distribution		Lens Option		Voltage	Mounting	Finish	
EML17	ST	Smooth	49LED 350MA	5,000 lumens	3K	3000K	R2	Type 2	GCF	Glass clear flat	MVOLT	QSM Quick Stem Mount	DDBXD	Super durable dark bronze
	RT	Ringed	49LED 525MA	6,700 lumens	4K	4000K	R3	Type 3	GCSG	Glass clear sag	120		DBLXD	Super durable black
	FLT	Fluted	63LED 350MA	6,000 lumens	5K	5000K	R4	Type 4			208		DNAXD	Super durable natural aluminum
			63LED 525MA	8,200 lumens			R5	Type 5			240		DWHXD	Super durable white
										277			ANBK	Antique black
										347			ANDB	Antique dark bronze
										480			ANDG	Antique dark green
													ANVG	Antique verde green

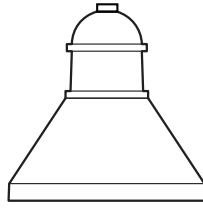


COMMERCIAL OUTDOOR

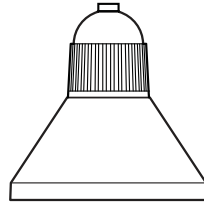
## Base



ST  
Smooth

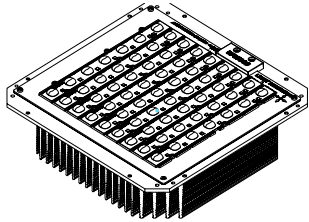


RT  
Ringed



FLT  
Fluted

## Performance Package

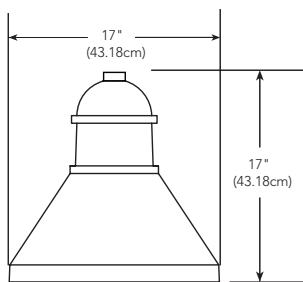


63 LED Light Engine Module

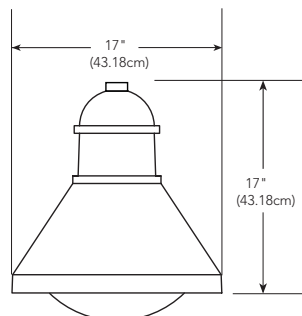
Performance Package	Watts	Distribution	3000K CCT		4000K CCT		5000K CCT	
			Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy
49LED 350mA	59	R2	4,495	76	4,994	85	4,994	85
		R3	4,780	81	5,311	90	5,311	90
		R4	4,669	79	5,188	88	5,188	88
		R5	4,955	84	5,506	93	5,506	93
49LED 525mA	87	R2	6,030	69	6,700	77	6,700	77
		R3	6,412	74	7,125	82	7,125	82
		R4	6,264	72	6,960	80	6,960	80
		R5	6,648	76	7,387	85	7,387	85
63LED 350mA	74	R2	5,434	73	6,038	82	6,038	82
		R3	5,779	78	6,421	87	6,421	87
		R4	5,645	76	6,272	85	6,272	85
		R5	5,991	81	6,657	90	6,657	90
63LED 525mA	110	R2	7,322	67	8,135	74	8,135	74
		R3	7,786	71	8,651	79	8,651	79
		R4	7,605	69	8,450	77	8,450	77
		R5	8,072	73	8,969	82	8,969	82

Data is considered accurate as of the revision date, shown in the highest operating temperature available. Antique Street Lamps reserves the right to modify specifications without notice.

## Lens Option



GCF  
Glass, Clear Flat



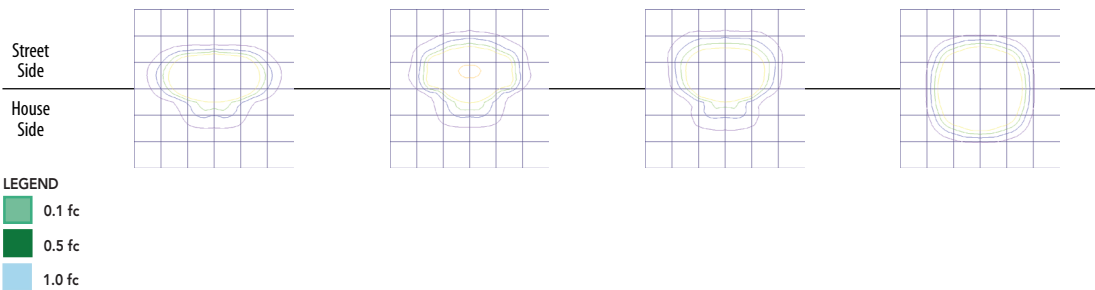
GCSG  
Glass, Clear Sag



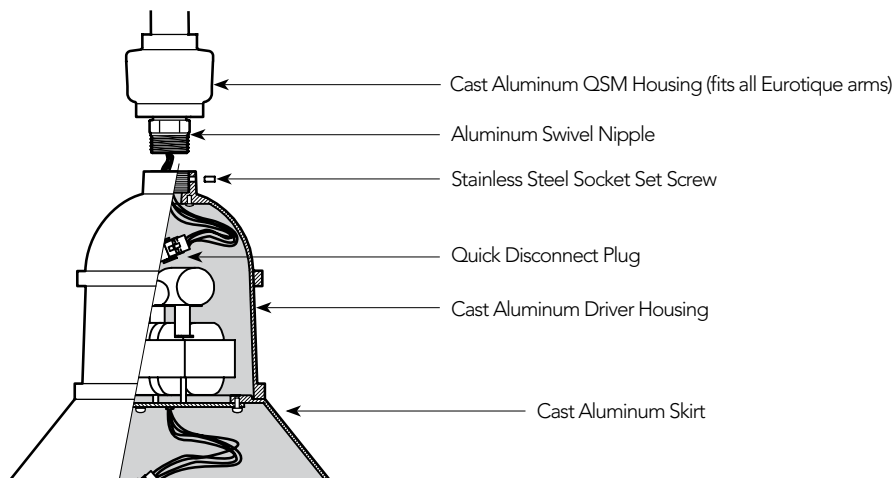
Consistent with LEED<sup>®</sup> goals & Green Globes<sup>™</sup> criteria for light pollution reduction

Notes:  
Nighttime Friendly<sup>™</sup> distributions available with GCF lens only.

## Distribution



## Installation



## FEATURES & SPECIFICATIONS

### INTENDED USE

This European-styled pendant or wall mount decorative luminaire is perfect for area lighting in retail, city-center, pedestrian areas or any other space with decorative requirements with a contemporary theme.

### CONSTRUCTION

This luminaire consists of a driver housing with an attached skirt to shield the source from view while allowing the widest distribution. The light source is protected by your choice of a flat or sag-glass lens and assembled with stainless steel hardware. Driver and light engine assembly mount on a removeable assembly plate and are furnished with quick-disconnect plugs for ease of installation and maintenance.

### FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling.

### OPTICS

Precision acrylic refractive optics for optimum light distribution through the flat or sag glass lens. Light engines are available in 3000K, 4000K or 5000K with a color rendering index (CRI) of 70 and is shielded by the skirt which blocks the view of the source from high angles.

### ELECTRICAL

Light engine consists of either 49 or 63 high-efficiency LEDs mounted to a metal core circuit board and aluminum heat sink ensuring optimal thermal management and long life. Class 1 electronic driver is designed to have a power factor > 90%, THD < 20% and an expected life of 100,000 hours.

### INSTALLATION

Mounts via a welded quick stem mount swivel to the Urban 4" or 5" diameter arms see arm specification sheets for details on mounting options.

### LISTINGS

CSA certified to U.S. and Canadian standards and labeled as suitable for wet locations.

### WARRANTY

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: [www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

**Note:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25C. Specifications subject to change without notice.