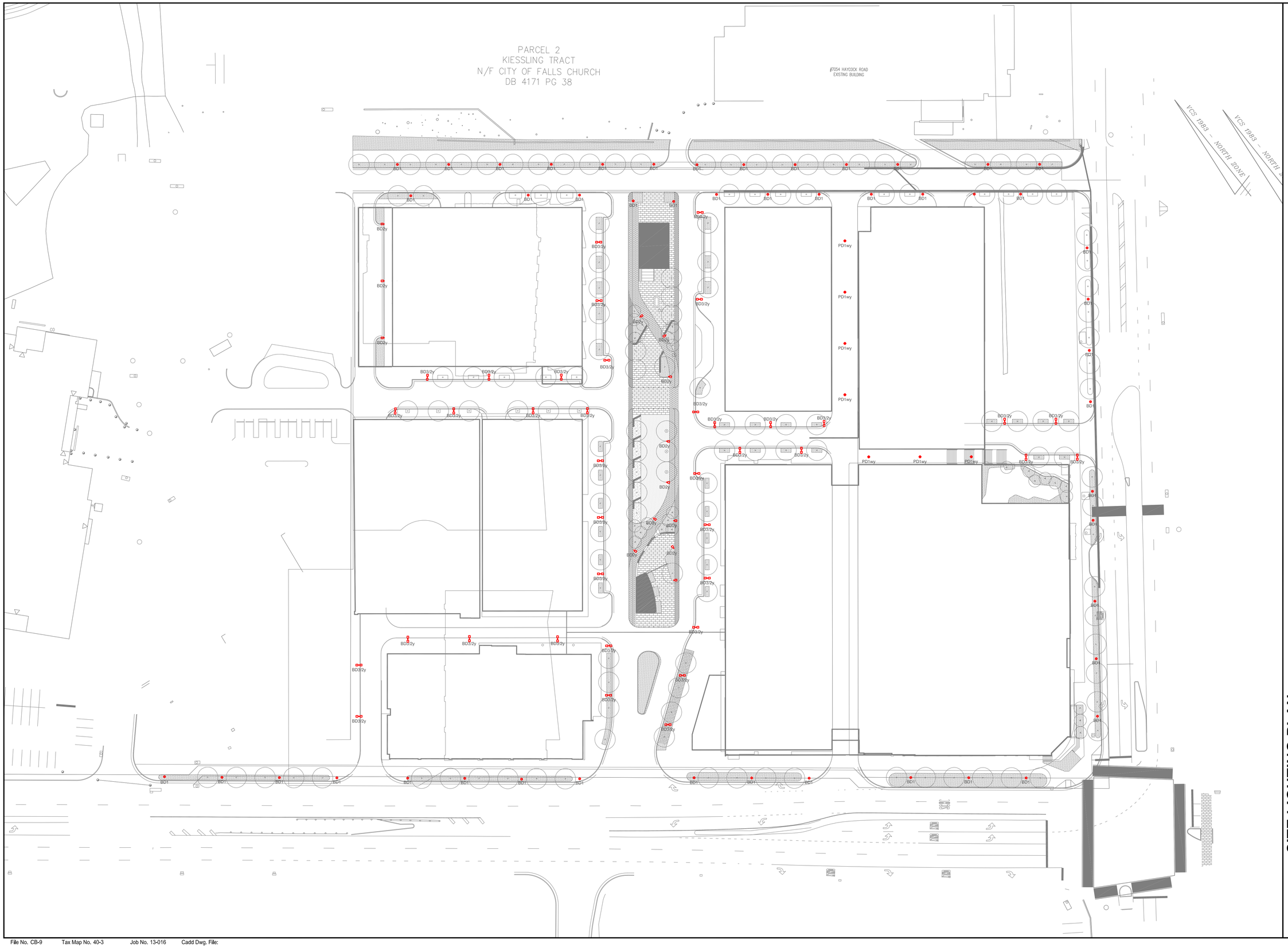

COMPANY

CHECKED:

DRAWN:

DATE: xx/xx/2020

SCALE: 1/40" = 1'-0"

SEAL

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NO.	DESCRIPTION	DATE	REV. BY	APPROVED	DATE
	SESP SUB 1	6/8/20			

SITE LIGHTING PLAN

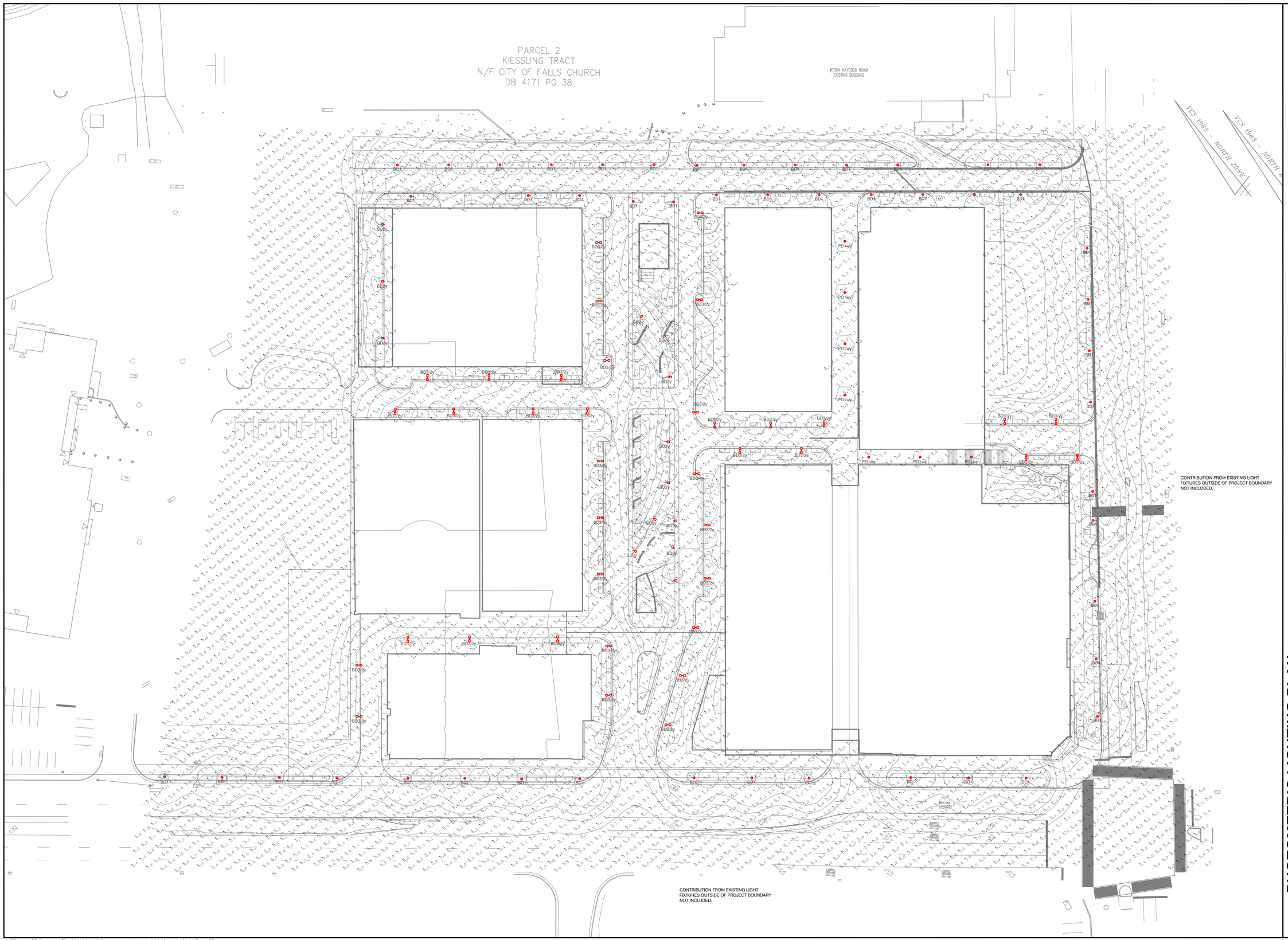
WEST FALLS CHURCH ECONOMIC DEVELOPMENT

SPECIAL EXCEPTION SITE PLAN

CITY OF FALLS CHURCH, VIRGINIA

File No. CB-9 Tax Map No. 40-3 Job No. 13-016 Cadd Dwg. File:

SHEET: **LT-1.0**



COMPANY

CHECKED:

DRAWN:

DATE: xx/xx/2020

SCALE: 1/40" = 1'-0"

SEAL

NO.	DESCRIPTION	DATE	REV. BY	APPROVED	DATE
	SESP SUB 1	6/8/20			

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PHOTOMETRIC LIGHTING PLAN

WEST FALLS CHURCH ECONOMIC DEVELOPMENT

SPECIAL EXCEPTION SITE PLAN

CITY OF FALLS CHURCH, VIRGINIA

File No. CB-9 Tax Map No. 40-3 Job No. 13-016 Cadd Dwg. File:

SHEET: LT-1.1

West Falls Church Site

Lighting Fixture Schedule
29 April 2020

mcla
ARCHITECTURAL LIGHTING DESIGN

General Notes:

1. Electrical Engineer shall verify voltages.
2. All fixture substitutions shall have a working sample provided for review within 10 working days upon request from the design team.
3. Judgment of fixture quality and optics, as equal, shall be determined by the Architect or Lighting Designer.
4. All transpositions of the specifications in this schedule must be complete and accurate in order to be considered valid.
5. Low-temperature ballast/drivers must be capable of starting at -18 degrees Celsius.
6. All fixtures shall have appropriate UL label, damp, or wet as required by local codes.
7. All fixtures shall include all accessories required for installation according to all local and national codes.
8. Prior to ordering any lighting equipment the contractor shall verify all locations and recess depths.
9. All lamps shall be installed according to the Lighting Fixture Schedule.
10. Contractor shall verify final voltages and ceiling trim compatibility prior to ordering fixtures.
11. All finishes to be verified by Architect / Interior Designer, prior to ordering.
12. Any unspecified or TBD finishes are to be assumed as standard available finishes for pricing, unless otherwise noted.
13. Ceiling thickness in excess of 3/4" shall be identified in writing by contractor/architect.
14. All fixtures shall be ordered with the appropriate ballasts/drivers/transformers that have UL and CBM labels. All ballasts/drivers/transformers must conform to local energy code requirements for performance, switching, and wiring (i.e. tandem).
15. Provide approved fire-rated enclosures for all lighting fixtures located in a fire-rated ceiling or wall.
16. All LED products shall be provided with no more than two(2) MacAdam ellipses of deviation unless dictated otherwise by Lighting Designer.
17. Responsibility for emergency lighting, local energy code calculations, and circuiting to meet code conformance remains with the Architect and Electrical Engineer as required by law.
18. All fixtures located in an insulated ceiling area, should have an IC housing (electrical contractor to coordinate).
19. All adjustable fixtures MUST be shipped to site with lamp facing straight down. Contractor to install all fixtures with lamp facing down, if procured otherwise. mcla to direct Contractor in re-aiming at walls, objects, etc. in the field during site visit arranged for that express purpose.
20. All white trim downlights to be painted to match the color of the ceiling, if ceiling is not white. This applies to both open downlights as well as pinhole aperture downlights.

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NO.	LAMP QUANTITY	LAMP WATTAGE	LAMP OUTPUT	LAMP TYPE AND ATTRIBUTES	POWER SUPPLY	DIMMING CONTROL	VOLTAGE	ACCEPTABLE ALTERNATE MANUFACTURERS	LOCATION	NOTES
BD1	Falls Church standard post top street light.	King Luminaire	K118R B3 AR IV 100 SSL Volt	1 ea.	100	6116 lm delivered	LED board 3000K 80CRI	INTEGRAL	NA				
BD2 Qy	LED decorative shoe box pedestrian scale fixture. Full cut-off type 2 optics. B1-U0-G1 BUG rating. 177" high pole.	Rama	RM 024L2 CLR 035C 30K UV1 5A SL RM60219-D2	1 ea.	28	2778 lm/ft delivered	LED board 3000K 80CRI	INTEGRAL					
BD3 Qy	LED decorative shoe box street light. Second head located at back side for use as pedestrian lighting. Full cut-off type 2 optics. B1-U0-G1 BUG rating. 236" high pole.	Rama	(2)RM 024L2 CLR 035C 30K UV1 5A SL RM60220-04	2 ea.	28	2778 lm/ft delivered	LED board 3000K 80CRI	INTEGRAL					
PD1 ey	Catenary mount area light.	Bega	84 405 K3 finish	1 ea.	35.7								

End of Schedule

K118 WASHINGTON - LED

The King Luminaire K118 Washington is a beautiful depiction of this street light classic. This historical acorn shape teamed with King Luminaire's high performance LED engines make for a perfect solution for city streets, parks, schools and commercial areas.

King Luminaire

PRODUCT SPECIFICATIONS

R1/B3/B2 LED ENGINE
Light engine shall be an array of 36, 42, 54 or 63 solid state Cree X-Series high power LEDs (light emitting diodes) mounted to a multi-sided, vertical heat sink of highly conductive aluminum. The LED emitters are mounted to removable circuit boards such that they are in full thermal contact with the vertical heat sink. The vertical heat sink is open at the bottom and vented at the top to provide appropriate dynamic airflow cooling for the LED array. The emitters are arranged in various patterns on each face of the vertical heat sink to provide the required light distribution.

The LED arrays include optical baffles constructed of optical grade ABS plastic with a vacuum metallized reflective surface or clear acrylic precision refractors over each diode. Optical options are designed to efficiently control light distribution in IESNA Type IV & V for the B3/B2 and Type III & V for the R1.

P4 LED ENGINE
Light engine shall include an array of Cree X-Series high power LEDs (light emitting diodes). The emitters shall be mounted to a metal core circuit board using SMT technology. The LEDs and circuit boards shall then be mounted to a high performance heat sink.

External light control shall consist of high precision refractive lenses mounted above the LED emitter arrays in such a way to achieve optimum uplight control. The lenses shall also control horizontal light distribution so that either Type II, III, IV or V IESNA distribution patterns are achieved.

LUMINAIRE CONSTRUCTION
All K118 Washington cast components shall consist of a heavy grade A319 cast aluminum. The main body or capital acts as an enclosure for the driver assembly and is of adequate thickness to give sufficient structural rigidity. The capital shall have an opening at the base tenon body to allow the luminaire to be mounted to a tenon of 3-1/2" maximum diameter. The luminaire shall be locked in place by means of heavy duty, stainless steel set-screws.

GLOBE ASSEMBLY
The protective globe shall be molded of either; rippled polycarbonate Miles Makrolon GP/OP Thermoplastic Polymer, or equivalent, or rippled acrylic Acrylite Plus Acrylic Polymer, or equivalent, having a minimum thickness of 0.125".

The globe assembly is a self-contained unit consisting of the globe, rugged cast locking ring, and the LED light engine and optical control. The LED light engine is of a modular design, and is able to be quickly removed from the globe assembly. The globe assembly is secured to the main housing by means of a spring-tensioned, twist-locking Rotolock™ unit to allow tool-less removal of the globe, while maintaining a secure seal between the globe assembly and the main body of the luminaire, making the K118 Washington suitable for an outdoor environment.

DRIVER
The LED universal dimmable driver will be class 2 and capable of 120 - 277V or 347 - 480V input voltage, greater than 0.9 power factor, less than 20% total harmonic distortion. The case temperature of the driver can range from -40°C up to 70°C. Each LED system comes with a standard surge protection designed to withstand up to 20kV/10kA of transient line surge as per IEEE C62.41.2 C High. An in-line ferrite choke is utilized to provide protection against EFTs. The driver assembly will be mounted on a heavy duty fabricated galvanized steel bracket to allow complete tool-less maintenance.

PHOTOMETRICS
Fixtures are tested to IESNA LM79 specifications. These reports are available upon request.

CHROMATICITY
High output LEDs come standard at 3000K & 4000K (+/- 300K) with a minimum nominal 70 CRI. Additional CCT emitters are available upon request.

LUMEN MAINTENANCE
Reported (TM21) and Calculated (L70) reports are available upon request with a minimum calculated value of 100,000 hrs.

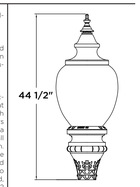
WIRING
All internal wiring and connections shall be completed so that it will be necessary only to attach the incoming supply connectors to Mate-N-Lok connectors or to a terminal block. Mate-N-Lok shall be certified for 600V operation. Internal wire connectors shall be crimp connector only and rated at 1000V and 150°C. All wiring to be CSA certified and/or UL listed, type SFF-2, SEWF-2, or SEW-2 No. 14 gauge, 150°C, 600V, and color coded for the required voltage.

THERMALS
Fixtures tested by a DOE sanctioned test facility to determine the maximum in-situ solder-point or junction-point temperatures of the LED emitters. This report is available upon request.

FINISH
Housing is finished with a 13 step KingCoat™ SuperDurable polyester TGIC powder coat. Standard colors include strobe white, brown metal, marina blue, gate gray, Chicago bronze, standard gold, standard black, federal green and rain forest. Please see our website for a complete list of colors. RAL and custom color matches are available.

MISCELLANEOUS
All exterior hardware and fasteners, wholly or partly exposed, shall be stainless steel alloy. All internal fasteners are stainless steel or zinc coated steel. All remaining internal hardware is stainless steel, aluminum alloy, or zinc coated steel.

WARRANTY
The K118 Washington LED luminaire comes with a 7 year limited warranty.



CERTIFICATION:
CSA US Listed
Suitable for wet locations
ISO 9001
IP66
ARRA Compliant
LM79 / LM80 Compliant

DRIVER INFO:
>0.9 Power Factor
<20% Total Harmonic Distortion
120 - 277V & 347 - 480V
-40°C Min. Case Temperature
70°C Max. Case Temperature
Surge Protection: ANSI C136.2 extreme level 20kV/10kA

EPA:
1.53 sq. ft.

FIXTURE WEIGHT:
38 lbs

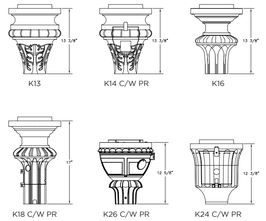
Not all product variations listed on this page are DLC qualified. Visit www.designlights.org/search to confirm qualification. Contact King Luminaire for product specifications. Contact King Luminaire for product specifications that are exempt from CSA Certification. 1-30-2020

mcla | West Falls Church | BD1
ARCHITECTURAL LIGHTING DESIGN | PROJECT - / - / - | FIXTURE TYPE 1 OF 2

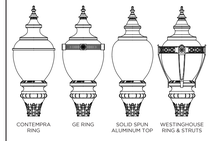
FIXTURE OPTIONS

K118 WASHINGTON - LED

Capital Options

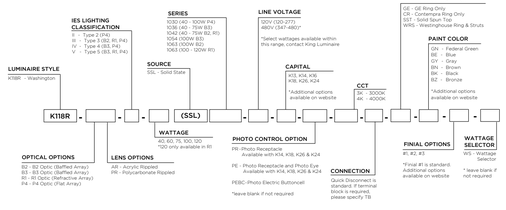


Decorative Options:



Finial Options:

HOW TO ORDER



StressCrete GROUP
www.scgrp.com
King Luminaire

mcla | West Falls Church | BD1
ARCHITECTURAL LIGHTING DESIGN | PROJECT - / - / - | FIXTURE TYPE 2 OF 2

landscape forms

RAMA AREA LIGHT

Product Data Sheet

Designed by Gonzalo Mila, Rama offers a minimalist design, universal aesthetic, and broad versatility. Directional lighting reduces light pollution and puts light where it is needed, and energy-efficient, warm white LEDs with a clear or frosted lens provide excellent performance and a great visual experience. Single or multiple luminaires that can be mounted in different positions on three standard pole heights make Rama suitable for any outdoor space. A simple clamping mechanism allows Rama luminaires to be retrofitted to existing 5" poles. With multiple distribution types and drive currents, Rama provides appropriate light levels for a variety of outdoor spaces and lighting requirements.

General Description

- Single, double, or spiral configurations
- Offered in 3 standard pole heights (4.5m, 6m, 8m)
- Optional ANSI136.41 7-pin twist lock receptacle
- Available in 24 and 48 LED configurations
- Multiple drive currents and distribution types
- Mounting template and anchor hardware included
- Zero up-light, International Dark-Sky approved
- UL Listed, suitable for wet locations

Electrical

120V-277V 50/60 Hz, Class 2 integrated dimmable driver. 1-10V dimming interface is standard, DALI compatible dimming interface available upon request. Rama ships prewired and fully assembled.

Rama R4
Type 2, Type 3, Type 4
Housing: Aluminum extrusion
Lamp: 24 Cree XPG2 LEDs
CCT: 3000K, 4000K
Drive Current: 350mA or 500mA
Lens: Clear / Frosted Glass
Power Supply: 120V-277V
Dimmable: 1-10V or DALI
Protection Rating: IP66

Rama R8
Type 2, Type 3, Type 4
Housing: Aluminum extrusion
Lamp: 48 Cree XPG2 LEDs
CCT: 3000K, 4000K
Drive Current: 350mA or 500mA
Lens: Clear / Frosted Glass
Power Supply: 120V-277V
Dimmable: 1-10V or DALI
Protection Rating: IP66

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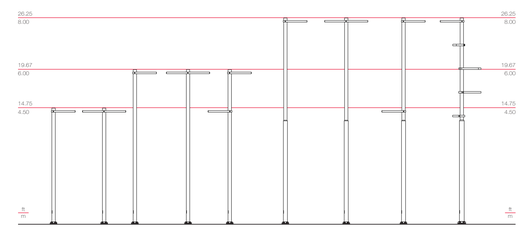
mcla | West Falls Church | BD2
ARCHITECTURAL LIGHTING DESIGN | PROJECT - / - / - | FIXTURE TYPE 1 OF 5

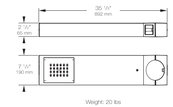
landscape forms

RAMA AREA LIGHT

Product Data Sheet

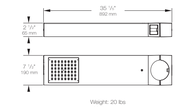


Rama R4



Weight: 20 lbs
EPA: 1.06 ft²

Rama R8



Weight: 20 lbs
EPA: 1.06 ft²

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mcla | West Falls Church | BD2
ARCHITECTURAL LIGHTING DESIGN | PROJECT - / - / - | FIXTURE TYPE 2 OF 5

COMPANY

CHECKED:
DRAWN:
DATE: xx/xx/2020
SCALE:

SEAL

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NO.	DESCRIPTION	DATE	REV. BY	APPROVED
	SESP SUB 1	6/8/20		

LIGHTING FIXTURE SCHEDULE & CUT SHEETS

WEST FALLS CHURCH ECONOMIC DEVELOPMENT

SPECIAL EXCEPTION SITE PLAN
CITY OF FALLS CHURCH, VIRGINIA

landscape forms

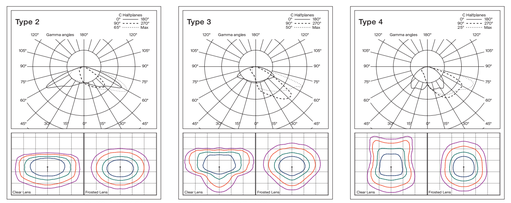
RAMA AREA LIGHT

Product Data Sheet

Performance Data

Model	LED Quantity	Drive Current	System Watts	Distribution Type	3000K 80 CRI			4000K 70 CRI		
					Lumens*	Efficacy*	BUG	Lumens*	Efficacy*	BUG
Rama R4	24	350	28	Type 2	2778	99	B1-U0-G1	3054	109	B1-U0-G1
				Type 3	3221	115	B1-U0-G1	3541	127	B1-U0-G1
				Type 4	3003	107	B1-U0-G1	3302	117	B1-U0-G1
		500	40	Type 2	3928	98	B1-U0-G1	4318	108	B1-U0-G1
				Type 3	4553	114	B1-U0-G1	5006	125	B1-U0-G1
				Type 4	4246	106	B1-U0-G1	4669	116	B1-U0-G1
Rama R8	48	350	53	Type 2	5332	100	B1-U0-G1	6246	118	B2-U0-G2
				Type 3	6180	117	B1-U0-G1	7241	137	B1-U0-G1
				Type 4	5763	108	B1-U0-G1	6752	127	B2-U0-G1
		500	75	Type 2	7292	97	B2-U0-G2	8557	114	B2-U0-G2
				Type 3	8454	113	B1-U0-G1	9919	132	B1-U0-G2
				Type 4	7883	105	B2-U0-G2	9250	123	B2-U0-G2

*Apply 0.85 multiplier for frosted lens option.



Isofootcandle plots for the Rama R4, 500mA, 4000K. Grid spacing equals units of mounting height (6m / 20ft).

1.0fc 0.5fc 0.2fc 0.1fc

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mcla	West Falls Church	BD2
ARCHITECTURAL LIGHTING DESIGN	PROJECT - / - / -	FIXTURE TYPE 3 OF 5

landscape forms

RAMA AREA LIGHT

Product Data Sheet

Designed by Gonzalo Mila, Rama offers a minimalist design, universal aesthetic, and broad versatility. Directional lighting reduces light pollution and puts light where it is needed, and energy-efficient, warm white LEDs with a clear or frosted lens provide excellent performance and a great visual experience. Single or multiple luminaires that can be mounted in different positions on three standard pole heights make Rama suitable for any outdoor space. A simple clamping mechanism allows Rama luminaires to be retrofitted to existing 3" poles. With multiple distribution types and drive currents, Rama provides appropriate light levels for a variety of outdoor spaces and lighting requirements.

General Description

- Single, double, or spiral configurations
- Offered in 3 standard pole heights (4.5m, 6m, 8m)
- Optional ANSI136.41 7-pin twist lock receptacle
- Available in 24 and 48 LED configurations
- Multiple drive currents and distribution types
- Mounting template and anchor hardware included
- Zero up-light, International Dark-Sky approved
- UL Listed, suitable for wet locations

Electrical

120V-277V 50/60 Hz, Class 2 integrated dimmable driver. 1-10V dimming interface is standard. DALI compatible dimming interface available upon request. Rama ships prewired and fully assembled.

Rama R4

Type 2, Type 3, Type 4
Housing: Aluminum extrusion
Lamp: 24 Cree XPG2 LEDs
CCT: 3000K, 4000K
Drive Current: 350mA or 500mA
Lens: Clear / Frosted Glass
Power Supply: 120V-277V
Dimmable: 1-10V or DALI
Protection Rating: IP66

Rama R8

Type 2, Type 3, Type 4
Housing: Aluminum extrusion
Lamp: 48 Cree XPG2 LEDs
CCT: 3000K, 4000K
Drive Current: 350mA or 500mA
Lens: Clear / Frosted Glass
Power Supply: 120V-277V
Dimmable: 1-10V or DALI
Protection Rating: IP66

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mcla	West Falls Church	BD3
ARCHITECTURAL LIGHTING DESIGN	PROJECT - / - / -	FIXTURE TYPE 1 OF 5

landscape forms

RAMA AREA LIGHT

Product Data Sheet

To Order Rama

Specify: Product, Lamp, Lens, Drive Current, Color Temperature, Input Voltage, Mounting Option and Finish.

Product	Lamp	Lens	Drive Current*	Color Temp.	Input Voltage	Mounting	Finish
RM Rama	024L2 (R4, 24 LED, Type 2) 048L2 (R8, 48 LED, Type 2) 024L3 (R4, 24 LED, Type 3) 048L3 (R8, 48 LED, Type 3) 024L4 (R4, 24 LED, Type 4) 048L4 (R8, 48 LED, Type 4)	CLR (Clear Glass) FRS (Frosted Glass)	035C (350mA) 05C (500mA)	30K (3000K) 40K (4000K)	UV1 (120-277VAC)	5A (w/ clamp - single mount) 5B (w/o clamp - double mount)	AL (Aluminum Silver)

EXAMPLE: RM – 048L2 – CLR – 035C – 30K – UV1 – 5A – AL

*Driver has an optional Constant Light Output (CLO) setting, which compensates for lumen depreciation by adjusting the power given to the LEDs, allowing light output to remain constant throughout the lifespan of the luminaire. Contact factory for additional details.

To Order Aluminum Rama Pole

Specify: Rama pole with optional 7-pin (ANSI 136.41) Twist Lock Receptacle and Powdercoat Color.

Height	Pole	Luminaire Configuration	Diameter	Wall Thick.	Twist Lock
4.5 meters	RM60219-01	(1) or (2) Rama luminaires at top	5"	.125"	No
	RM60219-02	(1) or (2) Rama luminaires at top	5"	.125"	Yes
6 meters	RM60220-01	(1) or (2) Rama luminaires at top	5"	.188"	No
	RM60220-02	(1) or (2) Rama luminaires at top	5"	.188"	Yes
	RM60220-03	(2) Rama luminaires at different heights	5"	.188"	No
	RM60220-04	(2) Rama luminaires at different heights	5"	.188"	Yes
8 meters	RM60221-01	(1) or (2) Rama luminaires at top	5" / 6"	.188"	No
	RM60221-02	(1) or (2) Rama luminaires at top	5" / 6"	.188"	Yes
	RM60221-03	(2) Rama luminaires at different heights	5" / 6"	.188"	No
	RM60221-04	(2) Rama luminaires at different heights	5" / 6"	.188"	Yes
	RM60226-01	(5) Rama luminaires in spiral configuration	5" / 7"	.188"	No
	RM60226-02	(5) Rama luminaires in spiral configuration	5" / 7"	.188"	Yes

EXAMPLE: RM60220-01 – Powdercoat Color

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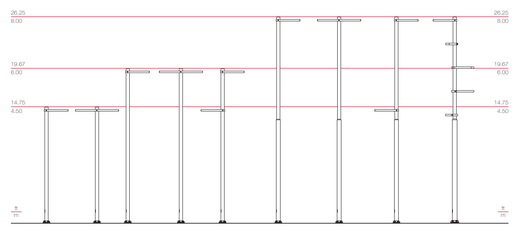
mcla	West Falls Church	BD2
ARCHITECTURAL LIGHTING DESIGN	PROJECT - / - / -	FIXTURE TYPE 4 OF 5

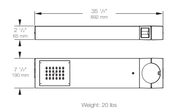
landscape forms

RAMA AREA LIGHT

Product Data Sheet

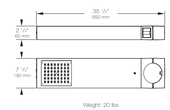


Rama R4



Weight: 20 lbs
EPA: 1.06 ft²

Rama R8



Weight: 20 lbs
EPA: 1.06 ft²

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mcla	West Falls Church	BD3
ARCHITECTURAL LIGHTING DESIGN	PROJECT - / - / -	FIXTURE TYPE 2 OF 5

landscape forms

RAMA AREA LIGHT

Product Data Sheet

Finish

The Rama luminaire is aluminum extrusion with a natural aluminum powdercoat finish offered by Santa & Cole. The Pangard III® powdercoat finish on poles is offered exclusively by Landscape Forms.

Product Modifications

Don't see what you are looking for? Our goal is to partner with you as the designer to manufacture solutions needed for the space you are creating. We offer the option to modify our standard product to meet certain design specifications or needs. Contact your local Landscape Forms representative to learn more about these offerings.

Warranty

Santa & Cole guarantees the composition and performance features of all material that shape the product for a period of three years. Electrical components including LED boards and electronic drivers are guaranteed for a period of five years.

Other

UL Listed, CE, RoHS Compliant, Dark-Sky Approved

Rama is designed by Santa & Cole
Rama design is protected by Spanish Industrial Design #147,594 and International Industrial Model #76912

Visit landscapeforms.com for more information. Specifications are subject to change without notice.
Landscape Forms supports the Landscape Architecture Foundation at the Second Century level.

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mcla	West Falls Church	BD2
ARCHITECTURAL LIGHTING DESIGN	PROJECT - / - / -	FIXTURE TYPE 5 OF 5

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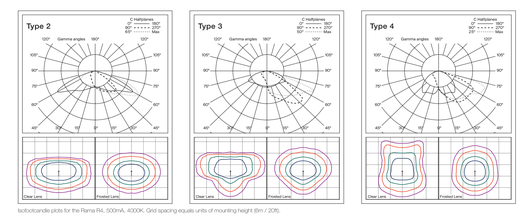
RAMA AREA LIGHT

Product Data Sheet

Performance Data

Model	LED Quantity	Drive Current	System Watts	Distribution Type	3000K 80 CRI			4000K 70 CRI		
					Lumens*	Efficacy*	BUG	Lumens*	Efficacy*	BUG
Rama R4	24	350	28	Type 2	2778	99	B1-U0-G1	3054	109	B1-U0-G1
				Type 3	3221	115	B1-U0-G1	3541	127	B1-U0-G1
				Type 4	3003	107	B1-U0-G1	3302	117	B1-U0-G1
		500	40	Type 2	3928	98	B1-U0-G1	4318	108	B1-U0-G1
				Type 3	4553	114	B1-U0-G1	5006	125	B1-U0-G1
				Type 4	4246	106	B1-U0-G1	4669	116	B1-U0-G1
Rama R8	48	350	53	Type 2	5332	100	B1-U0-G1	6246	118	B2-U0-G2
				Type 3	6180	117	B1-U0-G1	7241	137	B1-U0-G1
				Type 4	5763	108	B1-U0-G1	6752	127	B2-U0-G1
		500	75	Type 2	7292	97	B2-U0-G2	8557	114	B2-U0-G2
				Type 3	8454	113	B1-U0-G1	9919	132	B1-U0-G2
				Type 4	7883	105	B2-U0-G2	9250	123	B2-U0-G2

*Apply 0.85 multiplier for frosted lens option.



Isofootcandle plots for the Rama R4, 500mA, 4000K. Grid spacing equals units of mounting height (6m / 20ft).

1.0fc 0.5fc 0.2fc 0.1fc

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mcla	West Falls Church	BD3
ARCHITECTURAL LIGHTING DESIGN	PROJECT - / - / -	FIXTURE TYPE 3 OF 5

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	SESP SUB 1	6/8/20			

LIGHTING FIXTURE CUT SHEETS

WEST FALLS CHURCH
ECONOMIC DEVELOPMENT
SPECIAL EXCEPTION SITE PLAN
CITY OF FALLS CHURCH, VIRGINIA

File No. CB-9 Tax Map No. 40-3 Job No. 13-016 Cadd Dwg. File:

SHEET: LT-2.1

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RAMA AREA LIGHT

Product Data Sheet

To Order Rama

Specify: Product, Lamp, Lens, Drive Current, Color Temperature, Input Voltage, Mounting Option and Finish.

Product	Lamp	Lens	Drive Current*	Color Temp.	Input Voltage	Mounting	Finish
RM Rama	024L2 (R4, 24 LED, Type 2) 048L2 (R8, 48 LED, Type 2) 024L3 (R4, 24 LED, Type 3) 048L3 (R8, 48 LED, Type 3) 024L4 (R4, 24 LED, Type 4) 048L4 (R8, 48 LED, Type 4)	CLR (Clear Glass) FRS (Frosted Glass)	035C (350mA) 05C (500mA)	30K (3000K) 40K (4000K)	UV1 (120-277VAC)	5A (w/ clamp - single mount) 5B (w/o clamp - double mount)	AL (Aluminum Silver)

EXAMPLE: RM – 048L2 – CLR – 035C – 30K – UV1 – 5A – AL

*Driver has an optional Constant Light Output (CLO) setting, which compensates for lumen depreciation by adjusting the power given to the LEDs, allowing light output to remain constant throughout the lifespan of the luminaire. Contact factory for additional details.

To Order Aluminum Rama Pole

Specify: Rama pole with optional 7-pin (ANSI 136.41) Twist Lock Receptacle and Powdercoat Color.

Height	Pole	Luminaire Configuration	Diameter	Wall Thick	Twist Lock
4.5 meters	RM60219-01	(1) or (2) Rama luminaires at top	5"	.125"	No
	RM60219-02	(1) or (2) Rama luminaires at top	5"	.125"	Yes
6 meters	RM60220-01	(1) or (2) Rama luminaires at top	5"	.188"	No
	RM60220-02	(1) or (2) Rama luminaires at top	5"	.188"	Yes
	RM60220-03	(2) Rama luminaires at different heights	5"	.188"	No
	RM60220-04	(2) Rama luminaires at different heights	5"	.188"	Yes
8 meters	RM60221-01	(1) or (2) Rama luminaires at top	5" / 6"	.188"	No
	RM60221-02	(1) or (2) Rama luminaires at top	5" / 6"	.188"	Yes
	RM60221-03	(2) Rama luminaires at different heights	5" / 6"	.188"	No
	RM60221-04	(2) Rama luminaires at different heights	5" / 6"	.188"	Yes
	RM60226-01	(5) Rama luminaires in spiral configuration	5" / 7"	.188"	No
	RM60226-02	(5) Rama luminaires in spiral configuration	5" / 7"	.188"	Yes

EXAMPLE: RM60220-01 – Powdercoat Color

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mcla ARCHITECTURAL LIGHTING DESIGN	West Falls Church PROJECT - / - / -	BD3 FIXTURE TYPE	4 OF 5

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RAMA AREA LIGHT

Product Data Sheet

Finish

The Rama luminaire is aluminum extrusion with a natural aluminum powdercoat finish offered by Santa & Cole. The Pangard II® powdercoat finish on poles is offered exclusively by Landscape Forms.

Product Modifications

Don't see what you are looking for? Our goal is to partner with you as the designer to manufacture solutions needed for the space you are creating. We offer the option to modify our standard product to meet certain design specifications or needs. Contact your local Landscape Forms representative to learn more about these offerings.

Warranty

Santa & Cole guarantees the composition and performance features of all material that shape the product for a period of three years. Electrical components including LED boards and electronic drivers are guaranteed for a period of five years.

Other

UL Listed, CE, RoHS Compliant, Dark-Sky Approved

Rama is designed by Santa & Cole

Rama design is protected by Spanish Industrial Design #147,594 and International Industrial Model #76912

Visit landscapeforms.com for more information. Specifications are subject to change without notice. Landscape Forms supports the Landscape Architecture Foundation at the Second Century level.

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mcla ARCHITECTURAL LIGHTING DESIGN	West Falls Church PROJECT - / - / -	BD3 FIXTURE TYPE	5 OF 5

LED pendant luminaire for catenary systems - shielded light **BEGA**

Application
LED pendant luminaire for catenary systems with shielded, downward directed light distribution. The cable hanger system is suitable of transverse suspension systems and longitudinal chain systems. The luminaires are designed specifically to illuminate plazas, passageways and pedestrian zones.

Materials
Luminaire housing constructed of die-cast marine grade, copper free (≤0.3% copper content) A360.0 aluminum alloy
Stainless steel hanger clamp suitable for 3/16" to 7/16" diameter cable adjustable up to 5° off level
Cable glands will accept electrical supply cable with diameter 3/8" to 1/2"
Clear safety glass
Reflector made of pure anodized aluminum
High temperature silicone gasket
Mechanically captive stainless steel fasteners

NRTL listed to North American Standards, suitable for wet locations
Protection class IP65
Effective projection area: 1.0 sq. ft.
Weight: 14.8lbs

Electrical

Operating voltage	120-277VAC
Minimum start temperature	-30°C
LED module wattage	35.7 W
System wattage	40.0W
Controllability	0-10V dimmable
Color rendering index	Ra> 80
Luminaire lumens	4,207 lumens (4000K)
Lifetime at Ta=15°C	> 500,000 h (L70)
Lifetime at Ta=30°C	269,000 h (L70)

LED color temperature
☐ 4000K - Product number + **K4**
☐ 3500K - Product number + **K35**
☐ 3000K - Product number + **K3**
☐ 2700K - Product number + **K27**

BEGA can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

Finish
All BEGA standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness.

Available colors ☐ Black (BLK) ☐ White (WHT) ☐ RAL:
☐ Bronze (BRZ) ☐ Silver (SLV) ☐ CUS:

Type:
BEGA Product:
Project:
Modified:

LED pendant luminaire - for catenary systems

	LED	A	B	C
84405	35.7W	7 1/2	19 7/8	20 1/2

BEGA 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0533 info@bega-us.com

Due to the dynamic nature of lighting products and the associated technologies, luminaire data on this sheet is subject to change at the discretion of BEGA North America. For the most current technical data, please refer to bega-us.com
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mcla ARCHITECTURAL LIGHTING DESIGN	West Falls Church PROJECT - / - / -	PD1 FIXTURE TYPE	1 OF 1

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LIGHTING FIXTURE CUT SHEETS

WEST FALLS CHURCH ECONOMIC DEVELOPMENT

SPECIAL EXCEPTION SITE PLAN

CITY OF FALLS CHURCH, VIRGINIA