



TOWNSHIP of HOPEWELL
MERCER COUNTY

201 WASHINGTON CROSSING – PENNINGTON ROAD
TITUSVILLE, NEW JERSEY 08560-1410

PROJECT / APPLICATION

BLOCK:

LOT:

ADDRESS:

PROJECT NAME:

PLANS

LIGHTING DETAILS

NOTES:

1. ALL LUMINAIRES SHALL MEET ALL HOPEWELL TOWNSHIP LIGHTING ORDINANCE REQUIREMENTS INCLUDING, BUT NOT LIMITED TO, BEING FULL CUT-OFF. REFER TO ORDINANCE FOR ADDITIONAL INFORMATION. POLE LIGHTING MEETS 2700K REQUIREMENT.

2. BECAUSE THIS IS A RESIDENTIAL DEVELOPMENT WITH 24-HOUR ACCESS ALL STREET AND PARKING LOT LIGHTING SHALL REMAIN ON FROM DUSK-TO-DAWN

- FULL CUTOFF NOTES:
- FULL CUTOFF DEFINITION: ZERO INTENSITY AT OR ABOVE HORIZONTAL (90° ABOVE NADIR) AND LIMITED TO A VALUE NOT EXCEEDING 10% OF LAMP LUMENS AT OR ABOVE 80°
- BUG RATING U0 REQUIREMENTS: NO UPLIGHT EMITTED AT ALL
- REFER TO LUMINAIRE CUTSHEETS AND PHOTOMETRIC

BEAM
ILLUMINATING ARCHITECTURE

LUMINAIRE TYPE **SF1**

GENERATION LIGHTING

BE16SDEN12-1: One Light Outdoor Wall Luminaire

Dimensions:

Size:	7"	Extends:	5"
Height:	12"	Woc:	6 1/2" (black/Black/White)
Weight:	4.27 lbs.	Mounting Post:	Cap Hubs
		Connector:	Mounted to Box
		Walls:	5
		Lumens:	800

Bulbs:

- 1 LED Module A19 the Max. 120v - included

Features:

- LED Module A19 is included
- Dark and Sleek Design - Designed to not light around the SF
- Instant-on/Instant-Off Instantaneous On/Off
- LED Bulbs are on demand, which means no wasted light that drives unnecessary performance
- Meets Title 24 energy efficiency standards
- Fits in compliance when used with certified Avid Accessories (LMA)

Collection:

Jarviswade

Dark Sky One Light LED Outdoor Wall Luminaire Finished in Black Solid Black Finish. Standard White Tiffany Glass and White Acumform Plates.

Finished in the decorative Jarviswade collection

1 A19 Module 5.5 watt light bulb

Fixture is supplied with 1 light bulb

Etched white Tiffany glass panels and white aluminum panels

ENERGY STAR® Qualified

UPC #785502060307

Finish: Black (12)

Material List:

- 1 Body: Aluminum - Unfinished
- 1 Holder: Aluminum - Unfinished

Safety Listing:

Safety Listed for Wet Locations

Installation Sheets:

(English v4-2005)

French (v-2005)

Shade / Glass / Diffuser Details

Part	Material	Finish	Quantity	Item Number	Length	Width	Height	Diameter	Filter Glass	Shade Glass	Shade Top	Shade Bottom
Plastic Glass	Etched White	Tiffany	4									
Plastic Aluminum	White	Unfin	4									

Backplate / Canopy Details:

Type	Height / Length	Width	Depth	Diameter	Outer Box Top	Outer Box Bottom
Back Wall	9.5	3.5	3.5		9.5	9.5

Replacement Bulb Details

Product #	Type	Base	Watt	Volts	Beam Coverage	Volts	Hours	Lumens	Temp	Life	CR
785502060307	Fluorescent	A19	Medium	5	9	35°	15000	800	2700K	25000	90

Shipping Information:

Picture Type	Product #	Quantity	Weight	Height	Width	Depth	Volume	Wt. Cbr	Upr Ship
Standard	BE16SDEN12-1	1	7.85502060307	0	8.25	18.25	0.756	5	125
Mounting Plate	BE16SDEN12-1	2	1.0785502060304	0	8.25	18.25	2.008	10	125

Disclaimer: Lighting systems are sold to meet the specific requirements of an individual design project and are subject to change without notice. All systems being developed without exception are designed to comply with applicable regulatory requirements, including but not limited to, applicable regulatory requirements. The information provided is for informational purposes only and is not intended to be used as a design, material or product specification. The information provided is for informational purposes only and is not intended to be used as a design, material or product specification.

BEAM
ILLUMINATING ARCHITECTURE

LUMINAIRE TYPE SF2

VISUAL COMFORT & Co.

F545F01-12: One Light Outdoor Ceiling Flush Mount

Dimensions:

Length:	7.25"	Ww:	6.5" (color/Black/White)
Width:	7.25"	Mounting Pre:	Clip Pulls
Height:	6.88"	Clearance:	Mounted To Box
Weight:	1.81 lbs.	Ball Appearance:	Clear

Bulbs:

- 1 Medium A19 60-Wa. Max. 120V Not Included

Features:

- Meets Title 24 energy efficiency standards
- Title 24 compliant if used with Joint Appendix (LALB) approved light source listed in the California Energy Commissioner Approval database.

Material List:

- 1 Body - Polycarbonate - Black

Safety Listing:

- Safety Listed for Damp Locations

Installation Sheets:

Trilingual (English, Spanish, and French) (09007546101-0CL)

Collection: Lumin

Traditional icon forms and casual styling available in four finishes

1 A-19 Medium 60-Wa. light bulb

smooth white glass panels

Meets Title 24 energy efficiency standards

Title 24 compliant if used with Joint Appendix (LALB) approved light bulbs listed in the California Energy Commissioner Approval database.

UPC #: 785552028959

Finish: Black (12)

Shade / Glass / Detail Details:

Part	Material	Finish	Quantity	Item Number	Length	Width	Height	Diameter	Filter	Mounts Top (LxW)	Mounts Top (HxW)	Shade Top (LxW)
Frame/Glass	Smooth White		4		4.62	5.12						

Backplate / Canopy Details:

Type	Height / Length	Width	Depth	Diameter	Outlet Box Up	Outlet Box Down
CS-1213	1.24	3.91	3.91			

BEAM
ILLUMINATING ARCHITECTURE

LUMINAIRE TYPE

911 SERIES

American Revolution Deluxe Full Cutoff LED Series AROCL

PRODUCT OVERVIEW

Applications:

Entranceways
Walkways
Parks
Patios

Features:

- Colored LED lenses, replaces up to 200W HID models for street and area lighting applications
- Exceeds 100 LED performance packages deliver just the right amount of light for any given application up to 13,000 lumens
- Available in color temperature choices of 2700K, 3000K and 4000K
- Exceeds the Energy Star minimum requirements (ANSI C-90, 100 lumens per watt)
- Four (4) distinct light distribution options provide design flexibility, available in Type A, Type B, Type C, and Type D
- Die-cast aluminum housing, engineered for sturdy life-long performance
- Die-cast aluminum hood features a trigger (Tilt) option and captive handle screws for fast, easy electrical and optical chamber access
- Decanted glass finish in smooth glass
- Housing is never post-measured and designed for use with a T-bolt by 3/8" to 7/8" diameter hole, and secured by Pin and nut
- Rated LED light output life greater than 100,000 hours
- 3-year protection scheme (warranty) exceeds ANSI/IES E-18-02 (2002) Category 1 High Illuminance (ANSI C-90, 2000 lumens per watt) and ANSI/IES E-18-03 (2003) Outdoor scenario ANSI/IES E-18-04 3000-Corpus (100 lumens per watt)
- Equipped with LED electronic 6-10V dimmable driver with DALI driver option

Standards:

- Complies with all applicable ANSI C-90 standards
- CSA listed and suitable for up to 60°C ambient
- DesignLight Components (DLC) qualified product. Not all versions of this product are DLC certified. Please check the DLC Certified Products list at www.designlight.com/dlc/ to confirm product. Versions are listed.

DIMENSIONS

*See Capless height for completely cut-off beam and beam spread on the side view.

All dimensions are shown in millimeters unless otherwise noted.

Note: Specifications subject to change without notice and in American Revolution Deluxe Full Cutoff LED Series AROCL.

BEAM

ILLUMINATING ARCHITECTURE

LUMINAIRE TYPE

VD1 SERIES

American Revolution Deluxe Full Cutoff LED Series ARDL

ORDERING INFORMATION

Example: ARDL P30 120V 50W R3 BK SEC PRT

Series	Performance Package	Color Temperature
RDCE American Revolution Deluxe Full Cutoff LED	Package P10 P15 P20 P25 P30 P35 P40 P45 P50 P55 P60 P65 P70 P75 P80 P85 P90 P95 P100 P105 P110 P115 P120 P125 P130 P135 P140 P145 P150 P155 P160 P165 P170 P175 P180 P185 P190 P195 P200 P205 P210 P215 P220 P225 P230 P235 P240 P245 P250 P255 P260 P265 P270 P275 P280 P285 P290 P295 P300 P305 P310 P315 P320 P325 P330 P335 P340 P345 P350 P355 P360 P365 P370 P375 P380 P385 P390 P395 P400 P405 P410 P415 P420 P425 P430 P435 P440 P445 P450 P455 P460 P465 P470 P475 P480 P485 P490 P495 P500 P505 P510 P515 P520 P525 P530 P535 P540 P545 P550 P555 P560 P565 P570 P575 P580 P585 P590 P595 P600 P605 P610 P615 P620 P625 P630 P635 P640 P645 P650 P655 P660 P665 P670 P675 P680 P685 P690 P695 P700 P705 P710 P715 P720 P725 P730 P735 P740 P745 P750 P755 P760 P765 P770 P775 P780 P785 P790 P795 P800 P805 P810 P815 P820 P825 P830 P835 P840 P845 P850 P855 P860 P865 P870 P875 P880 P885 P890 P895 P900 P905 P910 P915 P920 P925 P930 P935 P940 P945 P950 P955 P960 P965 P970 P975 P980 P985 P990 P995 P1000 P1005 P1010 P1015 P1020 P1025 P1030 P1035 P1040 P1045 P1050 P1055 P1060 P1065 P1070 P1075 P1080 P1085 P1090 P1095 P1100 P1105 P1110 P1115 P1120 P1125 P1130 P1135 P1140 P1145 P1150 P1155 P1160 P1165 P1170 P1175 P1180 P1185 P1190 P1195 P1200 P1205 P1210 P1215 P1220 P1225 P1230 P1235 P1240 P1245 P1250 P1255 P1260 P1265 P1270 P1275 P1280 P1285 P1290 P1295 P1300 P1305 P1310 P1315 P1320 P1325 P1330 P1335 P1340 P1345 P1350 P1355 P1360 P1365 P1370 P1375 P1380 P1385 P1390 P1395 P1400 P1405 P1410 P1415 P1420 P1425 P1430 P1435 P1440 P1445 P1450 P1455 P1460 P1465 P1470 P1475 P1480 P1485 P1490 P1495 P1500 P1505 P1510 P1515 P1520 P1525 P1530 P1535 P1540 P1545 P1550 P1555 P1560 P1565 P1570 P1575 P1580 P1585 P1590 P1595 P1600 P1605 P1610 P1615 P1620 P1625 P1630 P1635 P1640 P1645 P1650 P1655 P1660 P1665 P1670 P1675 P1680 P1685 P1690 P1695 P1700 P1705 P1710 P1715 P1720 P1725 P1730 P1735 P1740 P1745 P1750 P1755 P1760 P1765 P1770 P1775 P1780 P1785 P1790 P1795 P1800 P1805 P1810 P1815 P1820 P1825 P1830 P1835 P1840 P1845 P1850 P1855 P1860 P1865 P1870 P1875 P1880 P1885 P1890 P1895 P1900 P1905 P1910 P1915 P1920 P1925 P1930 P1935 P1940 P1945 P1950 P1955 P1960 P1965 P1970 P1975 P1980 P1985 P1990 P1995 P2000 P2005 P2010 P2015 P2020 P2025 P2030 P2035 P2040 P2045 P2050 P2055 P2060 P2065 P2070 P2075 P2080 P2085 P2090 P2095 P2100 P2105 P2110 P2115 P2120 P2125 P2130 P2135 P2140 P2145 P2150 P2155 P2160 P2165 P2170 P2175 P2180 P2185 P2190 P2195 P2200 P2205 P2210 P2215 P2220 P2225 P2230 P2235 P2240 P2245 P2250 P2255 P2260 P2265 P2270 P2275 P2280 P2285 P2290 P2295 P2300 P2305 P2310 P2315 P2320 P2325 P2330 P2335 P2340 P2345 P2350 P2355 P2360 P2365 P2370 P2375 P2380 P2385 P2390 P2395 P2400 P2405 P2410 P2415 P2420 P2425 P2430 P2435 P2440 P2445 P2450 P2455 P2460 P2465 P2470 P2475 P2480 P2485 P2490 P2495 P2500 P2505 P2510 P2515 P2520 P2525 P2530 P2535 P2540 P2545 P2550 P2555 P2560 P2565 P2570 P2575 P2580 P2585 P2590 P2595 P2600 P2605 P2610 P2615 P2620 P2625 P2630 P2635 P2640 P2645 P2650 P2655 P2660 P2665 P2670 P2675 P2680 P2685 P2690 P2695 P2700 P2705 P2710 P2715 P2720 P2725 P2730 P2735 P2740 P2745 P2750 P2755 P2760 P2765 P2770 P2775 P2780 P2785 P2790 P2795 P2800 P2805 P2810 P2815 P2820 P2825 P2830 P2835 P2840 P2845 P2850 P2855 P2860 P2865 P2870 P2875 P2880 P2885 P2890 P2895 P2900 P2905 P2910 P2915 P2920 P2925 P2930 P2935 P2940 P2945 P2950 P2955 P2960 P2965 P2970 P2975 P2980 P2985 P2990 P2995 P3000 P3005 P3010 P3015 P3020 P3025 P3030 P3035 P3040 P3045 P3050 P3055 P3060 P3065 P3070 P3075 P3080 P3085 P3090 P3095 P3100 P3105 P3110 P3115 P3120 P3125 P3130 P3135 P3140 P3145 P3150 P3155 P3160 P3165 P3170 P3175 P3180 P3185 P3190 P3195 P3200 P3205 P3210 P3215 P3220 P3225 P3230 P3235 P3240 P3245 P3250 P3255 P3260 P3265 P3270 P3275 P3280 P3285 P3290 P3295 P3300 P3305 P3310 P3315 P3320 P3325 P3330 P3335 P3340 P3345 P3350 P3355 P3360 P3365 P3370 P3375 P3380 P3385 P3390 P3395 P3400 P3405 P3410 P3415 P3420 P3425 P3430 P3435 P3440 P3445 P3450 P3455 P3460 P3465 P3470 P3475 P3480 P3485 P3490 P3495 P3500 P3505 P3510 P3515 P3520 P3525 P3530 P3535 P3540 P3545 P3550 P3555 P3560 P3565 P3570 P3575 P3580 P3585 P3590 P3595 P3600 P3605 P3610 P3615 P3620 P3625 P3630 P3635 P3640 P3645 P3650 P3655 P3660 P3665 P3670 P3675 P3680 P3685 P3690 P3695 P3700 P3705 P3710 P3715 P3720 P3725 P3730 P3735 P3740 P3745 P3750 P3755 P3760 P3765 P3770 P3775 P3780 P3785 P3790 P3795 P3800 P3805 P3810 P3815 P3820 P3825 P3830 P3835 P3840 P3845 P3850 P3855 P3860 P3865 P3870 P3875 P3880 P3885 P3890 P3895 P3900 P3905 P3910 P3915 P3920 P3925 P3930 P393	

BEAM
ILLUMINATING ARCHITECTURE

LUMINAIRE TYPE **VD1 SERIES**

Colors:	
Size:	
Material:	
Type:	

FEATURES & SPECIFICATIONS

DESIGNER'S NOTE – These specifications are for the **VD1** standard only. Click with **Feature by Feature Comparison** button. Be sure to read the general product page for up to date installation details. The specifications below are not effective unless the mounting is listed and installed properly.

Construction – **Free Wall** Style: **Free Wall** is a 12" wide with a mounting arm that is adjustable and can be used to mount the luminaire in a variety of positions. The luminaire is made of die-cast aluminum and is finished in a powder coat. The luminaire is made of die-cast aluminum and is finished in a powder coat. The luminaire is made of die-cast aluminum and is finished in a powder coat. The luminaire is made of die-cast aluminum and is finished in a powder coat.

Free Wall Style luminaire is made of die-cast aluminum and is finished in a powder coat. The luminaire is made of die-cast aluminum and is finished in a powder coat. The luminaire is made of die-cast aluminum and is finished in a powder coat. The luminaire is made of die-cast aluminum and is finished in a powder coat.

Installation – Luminaire is made of die-cast aluminum and is finished in a powder coat. The luminaire is made of die-cast aluminum and is finished in a powder coat. The luminaire is made of die-cast aluminum and is finished in a powder coat. The luminaire is made of die-cast aluminum and is finished in a powder coat.

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Anchor Base Poles

RSS

BONDING STRAIGHT STEEL

01/2018

01/2018

[illegible][illegible]

BEAM
ILLUMINATING ARCHITECTURE

UMINAIRE TYPE **VD1 SERIES**

AN24CSB
ANDOVER

AT22CSB
ATLANTA

BF28CSB
BRADFORD

CM17CSB
CAMBRIDGE

C24CSB

C26CSB
COLUMBIA

C28CSB

Chicago CSB
CPB24-CSB

CHICAGO

CP22CSB

CP24CSB

CHESAPEAKE

BEAM
ILLUMINATING ARCHITECTURE

LUMINAIRE TYPE VD1 SERIES

12'0"

LUMINAIRE

POLE

BASE COVER

NOTE:
REFER TO CIVIL DRAWINGS
FOR FOUNDATION DETAILS

VD1 SERIES ELEVATION

3/8" = 1'-0"

Bowman Consulting Group Ltd
 393 W. Main Street
 Hightstown, NJ 08520
 Phone: 215-246-6500
 Fax: 215-246-6501
 NJ Certificate of Authorization
 No. 240604447100
 E-mail: info@bowman.com

Bowman

Sean C. Delany

SEAN A. DELANY, N.J. Professional Engineer, Lic. 240604447100

PRELIMINARY AND FINAL MAJOR SUBDIVISION & PRELIMINARY AND FINAL SITE PLAN FOR VENUE AT HOPEWELL

LIGHTING DETAILS

BLUCK 99, LOTS 19, 20, 45/01, 46 & 49

TOWNSHIP OF HOPEWELL, MERCER COUNTY, NEW JERSEY

SHEET No. **20**

A

BEAM
ILLUMINATING ARCHITECTURE

LUMINAIRE TYPE VD1

1012DE, 2x40 W

ABCD, P101 XXXXX 27W 04

OUTDOOR PHOTOGRAPHIC REPORT

Lighting Analysis, 1012DE, 2x40 W

Test ID: 1012DE

Test Label: SCALP PHOTOCHROM

Series: AEL P101 2002 27W 04

Manufacturer: AEL, American Electric Luminaires

Category: AEL, American Electric Luminaires

Series: AEL LED - Full Cutoff

Test Location: Luminaires, 1012DE, 2x40 W

Test Date: 10/12/2012

Test Time: 10:00 AM

Test Location: Luminaires, 1012DE, 2x40 W

Test Date: 10/12/2012

Test Time: 10:00 AM

Test Location: Luminaires, 1012DE, 2x40 W

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Test Time: 10:00 AM

Test Location: Luminaires, 1012DE, 2x40 W

Test Date: 10/12/2012

Test Time: 10:00 AM

Test Location: Luminaires, 1012DE, 2x40 W

Test Date: 10

BEAM
ILLUMINATING ARCHITECTURE

LUMINAIRE
TYPE **VD1**

12019A_240 PM

ARDCI PLP X300 270 264

AcuityBrands

QUANTUM PHOTOMETRIC REPORT
CATALOG MODEL: PLP X300 270 264

Beam Luminaire Summary

Beam	Beam % Luminaire	Beam	Beam % Luminaire
0-36°	188.3	8.6%	
0-42.4°	13.7%		
0-50°	136.2	6.1%	
60-90°	2.7814	0.2%	
70-90°	101.9	20.7%	
80-90°	0.0000	0.0%	
0-90°	2.6981	1.0%	
90-180°	0.0000	0.0%	
0-180°	2.6981	1.0%	

Recessed Summary

Configuration	Type	24" MEDIAN
Max Glare (60° Day View)		0.000
Max Glare (90° to 180° View)		0.113
Downward Glare Score	Luminaire % Luminaire	79.7%
Downward Glare Score	618.7	21.0%
Downward Total	5.0962	1.00%
Upward Glare Score	0.0000	0.0%
Upward Total	0.0000	0.0%
Upward Total	0.0000	0.0%
Total Luminaire	5.0962	1.00%

Lumens Per Zone

Beam	Lumens % Total	Zone	Lumens % Total	
0-36°	12.1	8.8%	80.000	0.00%
0-42.4°	0.9	0.6%	100.000	0.00%
0-50°	138.9	4.8%	100.000	0.00%
60-90°	2.941	8.2%	100.000	0.00%
70-90°	352.1	11.4%	100.000	0.00%
80-90°	0.000	0.0%	100.000	0.00%
0-90°	815.2	23.0%	100.000	0.00%
90-180°	750.7	21.8%	100.000	0.00%
0-180°	1565.9	44.8%	100.000	0.00%

LCS Table

Beam	Beam % Luminaire	Beam	Beam % Luminaire
0-36°	188.3	8.6%	
0-42.4°	13.7%		
0-50°	136.2	6.1%	
60-90°	2.7814	0.2%	
70-90°	101.9	20.7%	
80-90°	0.0000	0.0%	
0-90°	2.6981	1.0%	
90-180°	0.0000	0.0%	
0-180°	2.6981	1.0%	
Total Luminaire	5.0962	1.00%	

Typical Light: 0.1 0.1%

3D EXAMINER
3D ILLUMINATING ARCHITECTURE

PAGE 2 OF 4

<https://www.acuity-brands.com/Products/View/External.aspx?ID=1127667>

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BEAM
ILLUMINATING ARCHITECTURE

LDIA
LUMINAIRE TYPE

1210184_243.PRM

ARCDL P103 X000 27W 84

OUTDOOR PHOTOGRAPHIC REPORT

DATE: 06/11/2019 TIME: 2:43 PM

Site ID: 101-1048243

Site Name: PROJECT PHOTOGRAPHY

Site Address: ARCDL P103 X000 27W 84

Description: ARCDL P103 X000 27W 84

Notes: ARCDL P103 X000 27W 84

Survey: ARCDL P103 X000 27W 84

Location: ARCDL P103 X000 27W 84

Notes: ARCDL P103 X000 27W 84

Location: ARCDL P103 X000 27W 84

Notes: ARCDL P103 X000 27W 84

Location: ARCDL P103 X000 27W 84

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Location: ARCDL P103 X000 27W 84

Notes: ARCDL P103 X000 27W 84

Location: ARCDL P1

[illegible]

BEAM
ILLUMINATING ARCHITECTURE

LD1B
LUMINAIRE
TYPE

12/10/18, 2:47 PM

AR002L P103 XXXX 27K 65

OUTDOOR PHOTOGRAPHIC REPORT

Model: AR002L P103 XXXX 27K 65
Type: I
Size: 400
Size Label: 300
Description: AR002L P103 XXXX 27K 65
Series: AR002L P103 XXXX 27K 65
Color: 2700K
Light Output: 10000
Beam Angle: 100°
Luminous Efficacy: 100 lm/W
Power: 100W
Beam Class: 100°
Type: I

Acuity Brands
AEL American
Electric
Lighting

*Not based on accurate photometry when beam spread is less than 100°.

*Not based on accurate photometry when beam spread is less than 100°.

*Not based on accurate photometry when beam spread is less than 100°.

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Page 2 of 10

https://www.ael.com/docs/Photometric/Download/AR002L_P103_XXX_27K_65.pdf

1/4

BEAM
ILLUMINATING ARCHITECTURE

LUMINAIRE TYPE **VD1B**

12/14/24, 2:47 PM

OUTDOOR PHOTOGRAPHIC REPORT
CERIALNO: A012 K193 020 276 03

A0120 K193 0000 276 03

Overall Luminaire Summary

Zone	Lumens	% Luminaire
0-30	136.4	3.8%
4-46	350.0	8%
1-46	586.3	26.7%
0-90	1286.4	60.0%
70-100	1275.4	27.4%
90-120	6.000	0.0%
1-90	1094.4	39.0%
90-120	6.000	0.0%
0-180	1094.4	39.0%

Roomview Summary

Roomview	Zone	%
Max CC, 90 Day View	0.00	
Max CC, 90 Day View	0.063	
Downward Street Light	Lumens	% Lum
	2,473.1	30%
Overhead House Side	2,473.1	30%
Overhead Street Light	4,946.2	60%
Upward House Side	0.000	0%
Upward Street Light	0.000	0%
Unlit	0.000	0%
Total Luminaire	4,946.2	60%

Lumens Per Foot

Zone	Lumens	% Total	Zone	Lumens	% Total
0-30	0.2	0.0%	90-120	0.00	0.0%
30-60	16.7	0.4%	100-130	0.00	0.0%
60-90	117.9	2.4%	110-140	0.00	0.0%
90-120	29.3	1.2%	120-150	0.00	0.0%
120-150	11.7	0.2%	130-160	0.00	0.0%
150-180	0.00	0.0%	160-190	0.00	0.0%
180-210	0.00	0.0%	210-240	0.00	0.0%
210-240	0.00	0.0%	240-270	0.00	0.0%
270-300	0.00	0.0%	300-330	0.00	0.0%

LCS Table

LED Luminaire **LED Luminaire** **LED Luminaire**

Present Light **LED Luminaire** **LED Luminaire**

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LED Luminaire **LED Luminaire** **LED Luminaire**

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BEAM
ILLUMINATING ARCHITECTURE

LUMINAIRE
TYPE

VD2 SERIES

American Revolution Deluxe Full Cutoff LED Series ARDCL

PRODUCT OVERVIEW

Series Model

Applications:

Streetscapes
Walkways
Parkways
Parks

Features:

- Custom LED module, replaces up to 200W HID modules for street and area lighting applications.
- Selects (LED) performance packages deliver just the right amount of light for any given application up to 13,000 lumens.
- Available in color temperature choices of 2700K, 3000K and 4000K.
- **Dimmable** (with DALI, 0-10V, and 1-10V dimming systems) **or** **non-dimmable** (with 0-15V dimming system).
- **Fast** (all dimmable distribution options provide design flexibility, available in Type 6, Type 8, Type 10, and Type 17).
- One-cut aluminum housing, engineered for sturdy life-long performance.
- One-cut aluminum head features a finger lock (FL) option and capless thumb turn for fast, easy installation and optimal chamber access.
- Standard panel finish in smooth glass.
- Housing is proven spin-machined and designed for use with a 2" to 3.5" to 2" flangeless stem, and secured by three set screws.
- Rated LED and driver life greater than 100,000 hours (at 70°C).
- Approved product (device) identified across ANSI/IESNA E1-20-06 Category 9 (100lm/W) and ANSI C136-2-2010 Enhanced (100lm/W), 2007 Optics measure ANSI/IESNA E1-20-06 Category 3 (100lm/W) and ANSI C136-2-2010 lumens (200lm/W).
- Equipped with LED electronics to 10V dimmable driver with DALI driver option.

Standards:

- Complies with all applicable ANSI C136 standards
- CSA listed and suitable for use as EFC ambient
- Designlights Corporation (DL2) qualified product. Not all variations of this product are DL2 qualified. Please check the DL2 Qualified Products List at www.designlights.com/US/US2 to confirm compliance are qualified.

DIMENSIONS

Height: American Revolution Deluxe Full Cutoff LED Series ARDCL 1.2 to 1.6 ft.
Width: American Revolution Deluxe Full Cutoff LED Series ARDCL 1.2 to 1.6 ft.

*See design details for complete details and dimensions.

All dimensions are in inches unless otherwise specified.

Note: Specifications are subject to change without notice.
American Revolution Deluxe Full Cutoff LED Series ARDCL

AEL
American
Enlightening
Luminaires

BEAM
ILLUMINATING ARCHITECTURE

**LUMINAIRE
TYPE**

VD2 SERIES

American Revolution Deluxe Full Cutoff LED Series ARCLD

ORDERING INFORMATION

Example: ARCLD P383 10W/3K 3K 8C SSC PT7

Series	Performance Package	Voltage	Color Temperature (K)
ARCLD	Package	ARCLD	2700K
P381 American LED	P381 1W 2.7V	P381 1W 2.7V	2700K
P382 Full Cutoff LED	P382 4W 4.8V	P382 4W 4.8V	2700K
P383 Full Cutoff LED	P383 10W 5.0V	P383 10W 5.0V	2700K
P384 Full Cutoff LED	P384 15W 5.0V	P384 15W 5.0V	2700K
P385 Full Cutoff LED	P385 20W 5.0V	P385 20W 5.0V	2700K
P386 Full Cutoff LED	P386 25W 5.0V	P386 25W 5.0V	2700K
P387 Full Cutoff LED	P387 30W 5.0V	P387 30W 5.0V	2700K
P388 Full Cutoff LED	P388 35W 5.0V	P388 35W 5.0V	2700K
P389 Full Cutoff LED	P389 40W 5.0V	P389 40W 5.0V	2700K
P390 Full Cutoff LED	P390 45W 5.0V	P390 45W 5.0V	2700K
P391 Full Cutoff LED	P391 50W 5.0V	P391 50W 5.0V	2700K
P392 Full Cutoff LED	P392 55W 5.0V	P392 55W 5.0V	2700K
P393 Full Cutoff LED	P393 60W 5.0V	P393 60W 5.0V	2700K
P394 Full Cutoff LED	P394 65W 5.0V	P394 65W 5.0V	2700K
P395 Full Cutoff LED	P395 70W 5.0V	P395 70W 5.0V	2700K
P396 Full Cutoff LED	P396 75W 5.0V	P396 75W 5.0V	2700K
P397 Full Cutoff LED	P397 80W 5.0V	P397 80W 5.0V	2700K
P398 Full Cutoff LED	P398 85W 5.0V	P398 85W 5.0V	2700K
P399 Full Cutoff LED	P399 90W 5.0V	P399 90W 5.0V	2700K
P400 Full Cutoff LED	P400 95W 5.0V	P400 95W 5.0V	2700K
P401 Full Cutoff LED	P401 100W 5.0V	P401 100W 5.0V	2700K
P402 Full Cutoff LED	P402 105W 5.0V	P402 105W 5.0V	2700K
P403 Full Cutoff LED	P403 110W 5.0V	P403 110W 5.0V	2700K
P404 Full Cutoff LED	P404 115W 5.0V	P404 115W 5.0V	2700K
P405 Full Cutoff LED	P405 120W 5.0V	P405 120W 5.0V	2700K
P406 Full Cutoff LED	P406 125W 5.0V	P406 125W 5.0V	2700K
P407 Full Cutoff LED	P407 130W 5.0V	P407 130W 5.0V	2700K
P408 Full Cutoff LED	P408 135W 5.0V	P408 135W 5.0V	2700K
P409 Full Cutoff LED	P409 140W 5.0V	P409 140W 5.0V	2700K
P410 Full Cutoff LED	P410 145W 5.0V	P410 145W 5.0V	2700K
P411 Full Cutoff LED	P411 150W 5.0V	P411 150W 5.0V	2700K
P412 Full Cutoff LED	P412 155W 5.0V	P412 155W 5.0V	2700K
P413 Full Cutoff LED	P413 160W 5.0V	P413 160W 5.0V	2700K
P414 Full Cutoff LED	P414 165W 5.0V	P414 165W 5.0V	2700K
P415 Full Cutoff LED	P415 170W 5.0V	P415 170W 5.0V	2700K
P416 Full Cutoff LED	P416 175W 5.0V	P416 175W 5.0V	2700K
P417 Full Cutoff LED	P417 180W 5.0V	P417 180W 5.0V	2700K
P418 Full Cutoff LED	P418 185W 5.0V	P418 185W 5.0V	2700K
P419 Full Cutoff LED	P419 190W 5.0V	P419 190W 5.0V	2700K
P420 Full Cutoff LED	P420 195W 5.0V	P420 195W 5.0V	2700K
P421 Full Cutoff LED	P421 200W 5.0V	P421 200W 5.0V	2700K
P422 Full Cutoff LED	P422 205W 5.0V	P422 205W 5.0V	2700K
P423 Full Cutoff LED	P423 210W 5.0V	P423 210W 5.0V	2700K
P424 Full Cutoff LED	P424 215W 5.0V	P424 215W 5.0V	2700K
P425 Full Cutoff LED	P425 220W 5.0V	P425 220W 5.0V	2700K
P426 Full Cutoff LED	P426 225W 5.0V	P426 225W 5.0V	2700K
P427 Full Cutoff LED	P427 230W 5.0V	P427 230W 5.0V	2700K
P428 Full Cutoff LED	P428 235W 5.0V	P428 235W 5.0V	2700K
P429 Full Cutoff LED	P429 240W 5.0V	P429 240W 5.0V	2700K
P430 Full Cutoff LED	P430 245W 5.0V	P430 245W 5.0V	2700K
P431 Full Cutoff LED	P431 250W 5.0V	P431 250W 5.0V	2700K
P432 Full Cutoff LED	P432 255W 5.0V	P432 255W 5.0V	2700K
P433 Full Cutoff LED	P433 260W 5.0V	P433 260W 5.0V	2700K
P434 Full Cutoff LED	P434 265W 5.0V	P434 265W 5.0V	2700K
P435 Full Cutoff LED	P435 270W 5.0V	P435 270W 5.0V	2700K
P436 Full Cutoff LED	P436 275W 5.0V	P436 275W 5.0V	2700K
P437 Full Cutoff LED	P437 280W 5.0V	P437 280W 5.0V	2700K
P438 Full Cutoff LED	P438 285W 5.0V	P438 285W 5.0V	2700K
P439 Full			

[illegible]

BEAM
ILLUMINATING ARCHITECTURE

LUMINAIRE TYPE **VD2 SERIES**

RTS Round Tapered Steel Poles

TECHNICAL SPECIFICATIONS

Load limit and max. height depending on option selected. Consult with your sales representative.

Example: RT5 10-4.0 0470 2109

RT5		Load limit and max. height depending on option selected. Consult with your sales representative.	
Technical Data	Technical Data	Technical Data	Technical Data
RT5	RT5	RT5	RT5
Ø of the V25	1.0 Ø 100	Ø of the V25	1.0 Ø 100
Ø of the V20	1.0 Ø 80	Ø of the V20	1.0 Ø 80
Ø of the V15	1.0 Ø 60	Ø of the V15	1.0 Ø 60
Ø of the V10	1.0 Ø 40	Ø of the V10	1.0 Ø 40
Ø of the V5	1.0 Ø 25	Ø of the V5	1.0 Ø 25
Ø of the V3	1.0 Ø 15	Ø of the V3	1.0 Ø 15
Ø of the V2	1.0 Ø 10	Ø of the V2	1.0 Ø 10
Ø of the V1	1.0 Ø 5	Ø of the V1	1.0 Ø 5
Ø of the V0.5	1.0 Ø 2.5	Ø of the V0.5	1.0 Ø 2.5
Ø of the V0.25	1.0 Ø 1.25	Ø of the V0.25	1.0 Ø 1.25
Ø of the V0.125	1.0 Ø 0.625	Ø of the V0.125	1.0 Ø 0.625
Ø of the V0.0625	1.0 Ø 0.3125	Ø of the V0.0625	1.0 Ø 0.3125
Ø of the V0.03125	1.0 Ø 0.15625	Ø of the V0.03125	1.0 Ø 0.15625
Ø of the V0.015625	1.0 Ø 0.078125	Ø of the V0.015625	1.0 Ø 0.078125
Ø of the V0.0078125	1.0 Ø 0.0390625	Ø of the V0.0078125	1.0 Ø 0.0390625
Ø of the V0.00390625	1.0 Ø 0.01953125	Ø of the V0.00390625	1.0 Ø 0.01953125
Ø of the V0.001953125	1.0 Ø 0.009765625	Ø of the V0.001953125	1.0 Ø 0.009765625
Ø of the V0.0009765625	1.0 Ø 0.0048828125	Ø of the V0.0009765625	1.0 Ø 0.0048828125
Ø of the V0.00048828125	1.0 Ø 0.00244140625	Ø of the V0.00048828125	1.0 Ø 0.00244140625
Ø of the V0.000244140625	1.0 Ø 0.001220703125	Ø of the V0.000244140625	1.0 Ø 0.001220703125
Ø of the V0.0001220703125	1.0 Ø 0.0006103515625	Ø of the V0.0001220703125	1.0 Ø 0.0006103515625
Ø of the V0.00006103515625	1.0 Ø 0.00030517578125	Ø of the V0.00006103515625	1.0 Ø 0.00030517578125
Ø of the V0.000030517578125	1.0 Ø 0.000152587890625	Ø of the V0.000030517578125	1.0 Ø 0.000152587890625
Ø of the V0.0000152587890625	1.0 Ø 0.0000762939453125	Ø of the V0.0000152587890625	1.0 Ø 0.0000762939453125
Ø of the V0.00000762939453125	1.0 Ø 0.00003814697265625	Ø of the V0.00000762939453125	1.0 Ø 0.00003814697265625
Ø of the V0.000003814697265625	1.0 Ø 0.000019073486328125	Ø of the V0.000003814697265625	1.0 Ø 0.000019073486328125
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Ø of the V0.00000001490116119384765625	1.0 Ø 0.00000007450580596923828125	Ø of the V0.00000001490116119384765625	1.0 Ø 0.00000007450580596923828125
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Ø of the V0.0000000037252902984619140625	1.0 Ø 0.0000000186264514923095703125	Ø of the V0.0000000037252902984619140625	1.0 Ø 0.0000000186264514923095703125
Ø of the V0.00000000186264514923095703125	1.0 Ø 0.00000000931322574615478515625	Ø of the V0.00000000186264514	

BEAM
ILLUMINATING ARCHITECTURE

**LUMINAIRE
TYPE VD2 SERIES**

RTS Round Tapered Steel Poles

TECHNICAL INFORMATION – PA100 with 1.5 post											
Catalog Number	Standard Height (ft.)	Post-Shell Height (ft.)	Post-Shell Diameter (in.)	Ball Size (in.)	Capacity (kg)	HLMP (ft.)	HLMP (m)	Max. Height (ft.)	Max. Height (m)	Ball Size (in.)	
RTS-10-10	10	5.5	17.1/20	0.50	11	19.1	462	15.1	37.1	12.2	10.0
RTS-10-15	15	5.5	17.1/20	0.50	11	24.2	550	20.2	45.6	15.4	10.0
RTS-10-20	20	5.5	20.2/24	0.50	11	32.1	719	28.1	61.0	20.0	10.0
RTS-10-25	25	7.0	23.1/25	0.50	11	36.1	807	32.1	69.1	22.7	10.0
RTS-15-10	10	7.0	23.1/25	0.50	17	36.1	807	32.0	68.6	22.7	10.0
RTS-15-15	15	7.0	23.1/25	0.50	17	41.1	915	37.0	79.3	25.0	10.0
RTS-15-20	20	8.5	23.1/25	0.50	17	46.1	1023	42.0	85.9	27.5	10.0
RTS-15-25	25	8.5	23.1/25	0.50	17	51.1	1131	47.0	94.0	30.0	10.0
RTS-15-30	30	8.5	23.1/25	0.50	17	56.1	1239	52.0	101.7	32.5	10.0
RTS-15-35	35	8.5	23.1/25	0.50	17	61.1	1347	57.0	109.4	35.0	10.0
RTS-15-40	40	8.5	23.1/25	0.50	17	66.1	1455	62.0	117.1	37.5	10.0
RTS-15-45	45	8.5	23.1/25	0.50	17	71.1	1563	67.0	124.8	40.0	10.0
RTS-15-50	50	8.5	23.1/25	0.50	17	76.1	1671	72.0	132.5	42.5	10.0
RTS-15-55	55	8.5	23.1/25	0.50	17	81.1	1779	77.0	140.2	45.0	10.0
RTS-15-60	60	8.5	23.1/25	0.50	17	86.1	1887	82.0	147.9	47.5	10.0
RTS-15-65	65	8.5	23.1/25	0.50	17	91.1	1995	87.0	155.6	50.0	10.0
RTS-15-70	70	8.5	23.1/25	0.50	17	96.1	2103	92.0	163.3	52.5	10.0
RTS-15-75	75	8.5	23.1/25	0.50	17	101.1	2211	97.0	171.0	55.0	10.0
RTS-15-80	80	8.5	23.1/25	0.50	17	106.1	2319	102.0	178.7	57.5	10.0
RTS-15-85	85	8.5	23.1/25	0.50	17	111.1	2427	107.0	186.4	60.0	10.0
RTS-15-90	90	8.5	23.1/25	0.50	17	116.1	2535	112.0	194.1	62.5	10.0
RTS-15-95	95	8.5	23.1/25	0.50	17	121.1	2643	117.0	201.8	65.0	10.0
RTS-15-100	100	8.5	23.1/25	0.50	17	126.1	2751	122.0	209.5	67.5	10.0
RTS-15-105	105	8.5	23.1/25	0.50	17	131.1	2859	127.0	217.2	70.0	10.0
RTS-15-110	110	8.5	23.1/25	0.50	17	136.1	2967	132.0	224.9	72.5	10.0
RTS-15-115	115	8.5	23.1/25	0.50	17	141.1	3075	137.0	232.6	75.0	10.0
RTS-15-120	120	8.5	23.1/25	0.50	17	146.1	3183	142.0	240.3	77.5	10.0
RTS-15-125	125	8.5	23.1/25	0.50	17	151.1	3291	147.0	248.0	80.0	10.0
RTS-15-130	130	8.5	23.1/25	0.50	17	156.1	3399	152.0	255.7	82.5	10.0
RTS-15-135	135	8.5	23.1/25	0.50	17	161.1	3507	157.0	263.4	85.0	10.0
RTS-15-140	140	8.5	23.1/25	0.50	17	166.1	3615	162.0	271.1	87.5	10.0
RTS-15-145	14										

BEAM
ILLUMINATING ARCHITECTURE

TYPE VD2 SERIES

AN24CSB ANDOVER
Dimensions: 2'-0" width, 2'-0" height.

AT22CSB ATLANTA
Dimensions: 1'-10" width, 2'-0" height.

BF28CSB BRADFORD
Dimensions: 2'-0" width, 6'-0" height.

CM17CSB CAMBRIDGE
Dimensions: 1'-0" width, 2'-0" height.

C24CSB
Dimensions: 2'-0" width, 2'-0" height.

C8CSB
Dimensions: 2'-0" width, 2'-0" height.

C28CSB
Dimensions: 2'-4" width, 2'-0" height.

COLUMBIA

CH24CSB CHICAGO
Dimensions: 31'-00" height, 31'-20" width.

CP22CSB CHESAPEAKE
Dimensions: 6'-0" height, 1'-10" width.

CP24CSB
Dimensions: 6'-0" height, 2'-0" width.

BEAM
ILLUMINATING ARCHITECTURE

**LUMINAIRE
TYPE**

VD2 SERIES

80'-0"

LUMINAIRE

POLE

BASE COVER

NOTE:
REFER TO CIVIL DRAWINGS
FOR FOUNDATION DETAILS

VD2 SERIES ELEVATION
5/8" x 11"

1. THIS DETAIL IS FOR GENERAL PRELIMINARY COST ESTIMATE. THE LIGHT POLE FOUNDATION DESIGNED BY A LICENSED ENGINEER BASED ON POLE SOIL CONDITIONS, LOCAL AND MANUFACTURERS RECOMMENDATIONS.

2. CONTRACTOR SHALL COMPLY WITH N.E.C. AND APPLICABLE CODES.

3. BOLT CIRCLE AS PER MANUFACTURERS STANDARD SPECIFICATION.

4. STRUCTURAL ENGINEER SHALL PROVIDE ALL DETAILS AS REQUIRED PER CONSTRUCTION.

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ILLUMINATING ARCHITECTURE

JASON BRADSHAW
ARCHITECT

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