

Little Saigon Park Development

Cut Sheets for Proposed Site Features

- Play area rubber steppers
- Play area full rubber balls
- Guardrail fencing
- Moveable chairs
- Moveable tables
- Trash and recycling receptacles
- Bike rack
- Bollards
- Pedestrian pole light

OWNER:

City of Seattle, Department of Finance and Administrative Services

ADMINISTERING DEPARTMENT:

Seattle Parks and Recreation
Planning and Development Division
300 Elliott Ave. W., Suite 100
Seattle, WA 98119

PREPARED BY:

Murase Associates
210 East Boston Street
Seattle, WA 98102

January 20, 2022

Stepper

PLAY AREA RUBBER STEPPERS

Product Data Sheet no. 9357 - R-02

Issue: February 2019

An essential skill for many sports and playing in general is maintaining balance while moving along a defined narrow path. To do this, an outstanding sense of balance and muscular coordination are required. **EUROFLEX® Stepper** balancing elements were designed specifically to help promote these abilities. Available in 4 different heights, they provide architects maximum freedom in creating adventurous walkways for children to master. The easy-to-install base socket (to be ordered separately) provides stable support and facilitates installation and removal.

Material

Material:

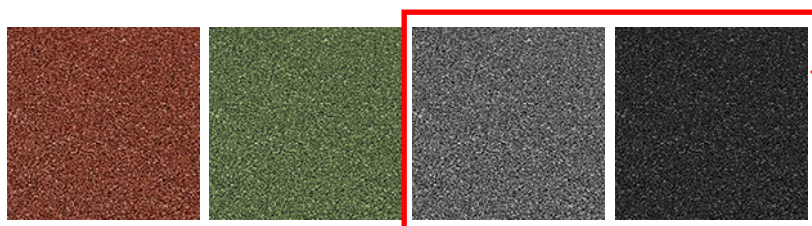
granulated recycled rubber

Binding agent: MDI polyurethane

Product design

Colours: red
(minor colour variations and/or fading possible)

Colours:



SBR GREY AND SBR
BLACK SELECTED
FOR THE STEPPERS

SBR red, SBR green, SBR grey, SBR black

The product data sheet is not subject to any change service! All information is without guarantee.

Latest version of this document available on www.kraiburg-relastec.com/euroflex

page 1 of 2

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goric.com



Dimensions / Tolerances / Weight

Dimensions /weight:	200 x 255 mm (including socket) / approx. 8,0 kg/ unit
	300 x 255 mm (including socket) / approx. 13,0 kg/ unit
	400 x 255 mm (including socket) / approx. 16,0 kg/ unit
	500 x 255 mm (including socket) / approx. 20,0 kg/ unit

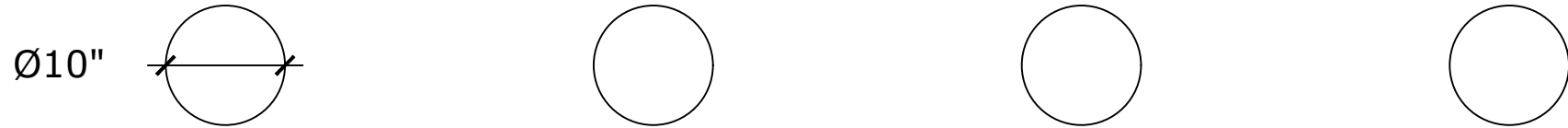
Product Testing

General Information:	in accordance with EN 1176-1:2008
Fire resistance:	E (DIN EN 13501-1, 2002)
Tensile strength:	min. 0,5 N/mm ² EN-DIN-ISO 1798-2008 (DIN 53571)
Elongation at break:	approx. 40 % EN-DIN-ISO 1798-2008 (DIN 53571)
Chemical resistance:	conditionally resistant to acids and bases
Cold fracture resistance:	24h / -40°C, no fracture
Cold crack resistance:	5h / -30°C, no cracks
Surface resistance:	> 10 Ohms (test voltage 1000V)

Installation

Use installation bar to screw socket into ground. Insert reducing adapter into socket. Insert metal pipe.
Fix in place by tightening screw.

PLAN VIEW



** Consult with Goric for use zone details*

Steppers



phone 617-744-0772 fax 617-744-1037
www.goric.com Email Info@goric.com

DATE:
04/2019

BY:
JMS

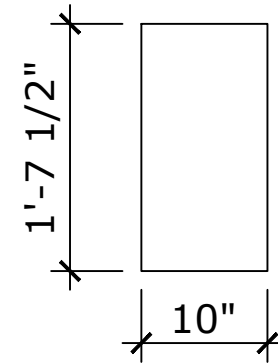
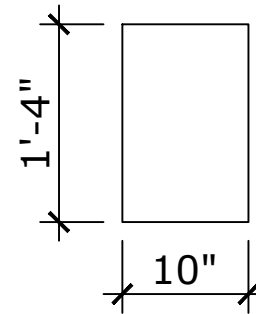
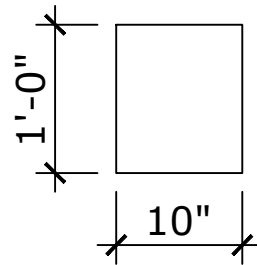
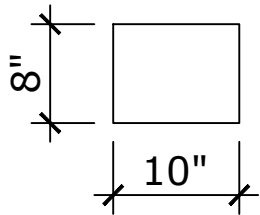
SCALE:
NTS

ITEM #:
07010190

MANUFACTURER:
KRAIBURG

PAGE #:
1 OF 4

ELEVATIONS



Steppers



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DATE: 04/2019 BY: JMS

SCALE: NTS

ITEM #: 07010190

MANUFACTURER: KRAIBURG PAGE #: 2 OF 4

3D VIEW



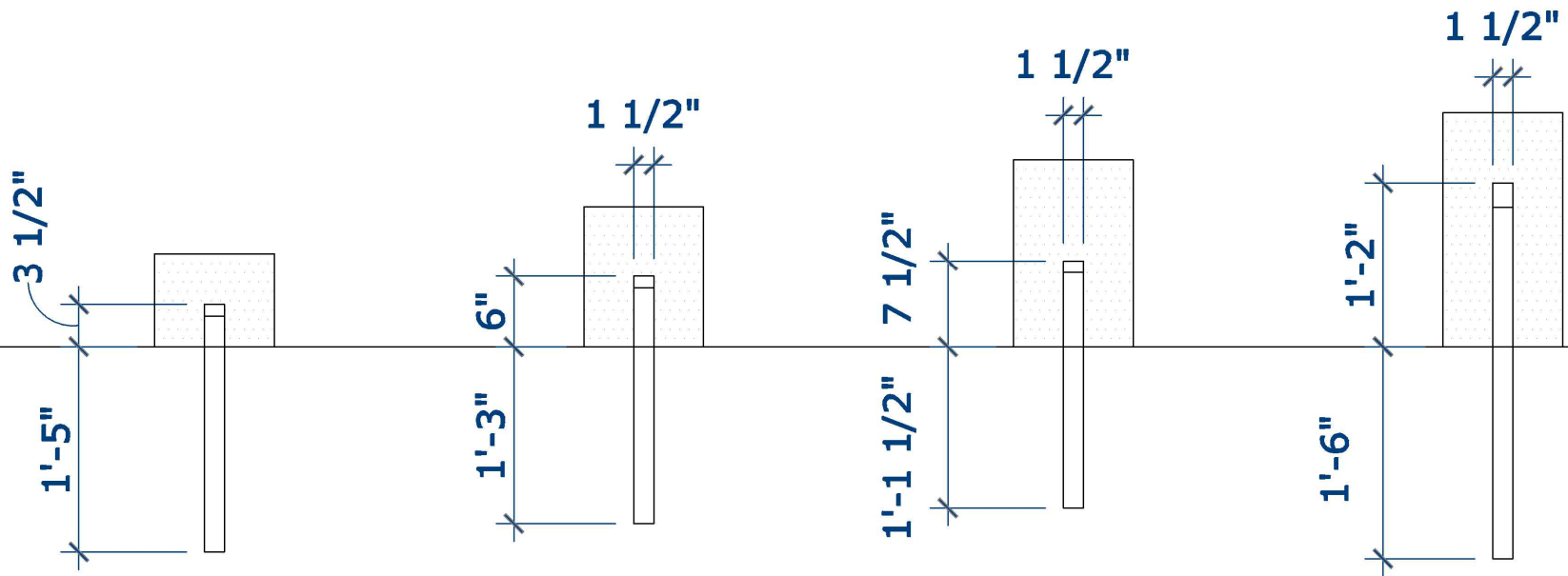
Steppers



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DATE: 04/2019	BY: JMS
SCALE: NTS	
ITEM #: 07010190	
MANUFACTURER: KRAIBURG	PAGE #: 3 OF 4

FOUNDATION DETAILS



Steppers



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DATE: 04/2019 BY: JMS

SCALE: NTS

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MANUFACTURER: KRAIBURG PAGE #: 4 OF 4

Balls SBR & EPDM

PLAY AREA RULL RUBBER BALLS

Product Data Sheet no. 9353 - R-06

Issue: February 2019

EUROFLEX® Ball and Half Ball are highly successful design components for distinctively noticeable playgrounds. Equally attractive whether used indoors or outdoors, EUROFLEX® Ball and Half Ball fits in with any surroundings due to its harmonic shape and rounds out the overall appearance of any playing surface. EUROFLEX® Ball and Half Ball can be mounted on either a steel anchor or a base slab, both of which are available as accessories. They are design elements for playing surfaces, seating, partitioning or decorative bordering on surfaces of all kinds including playgrounds, pedestrian zones, etc.

Material

Material:

Standard SBR: granulated recycled rubber

EPDM: granulated recycled rubber; Topping: Coloured EPDM rubber granulate

Binding agent: MDI polyurethane

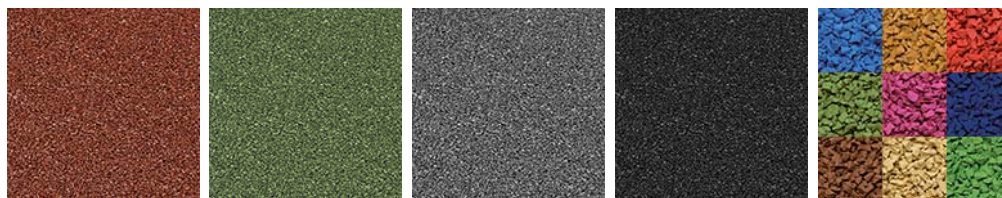
Product design

Colours:

Standard SBR: red, green, grey or black

EPDM: [according to EPDM colour palette](#)
(minor colour variation possible)

Colours:



SEE FOLLOWING
PAGES FOR EPDM
COLOR SELECTION:
BRIGHT YELLOW

SBR red, SBR green, SBR grey, SBR black, EPDM colours

Surface:

smooth with open pores

The product data sheet is not subject to any change service! All information is without guarantee.

Latest version of this document available on www.kraiburg-relastec.com/euroflex

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ISO 9001:2011
NR. 00186/0
NR. 00070/0



Dimensions / Tolerances / Weight

Weight:	Standard SBR: approx. 18,3 kg, 56,0 kg, 150,4 kg EPDM: approx. 20,4 kg, 60,0 kg, 166,0 kg
Diameter:	approx. 345 mm, 500 mm, 695 mm
Steel anchor:	Ø 42,8 mm, length approx. 750 mm
Tolerances:	± 0,8 %

Product Testing

General Information:	Production facility inspection
Fire resistance:	E (DIN EN 13501-1, 2010)
Chemical resistance:	conditionally resistant to acids and bases
Cold fracture resistance:	24h / -40°C, no fracture
Cold crack resistance:	5h / -30°C, no cracks (DIN EN 1176-1:2008, EN 1176-1:2008)

Installation

Install EUROFLEX® Ball by inserting their steel anchors.



RAL 1014
beige



RAL 1015
eggshell



RAL 1002
yellow



RAL 6021
green



RAL 3016
red



RAL 5015
blue



RAL 7038
grey



EPDM 02 special colours

RAL 7037
medium grey



RAL 7011
dark grey



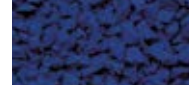
RAL 4005
lilac



RAL 5012
bright blue



RAL 5010
dark blue



RAL 6017
bright green



RAL 6005
dark green



RAL 1012
bright yellow



RAL 2008
bright orange



RAL 3017
bright red



RAL 4003
pink



RAL 8024
beige-brown



RAL 8025
brown



FULL RUBBER BALL
COLOR SELECTION:
BRIGHT YELLOW



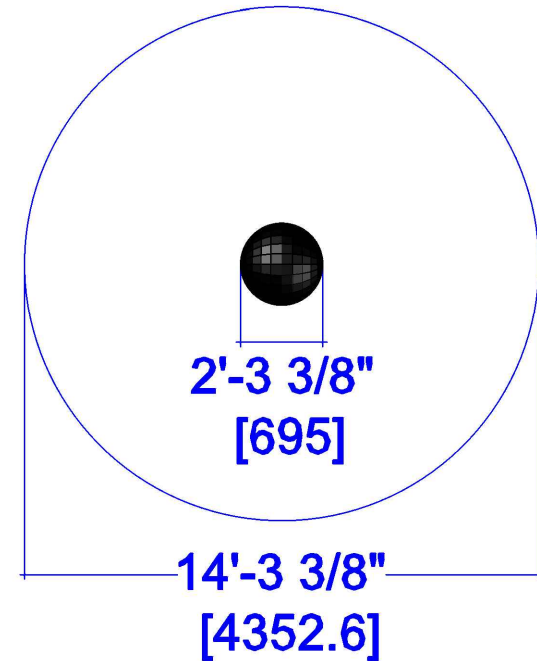
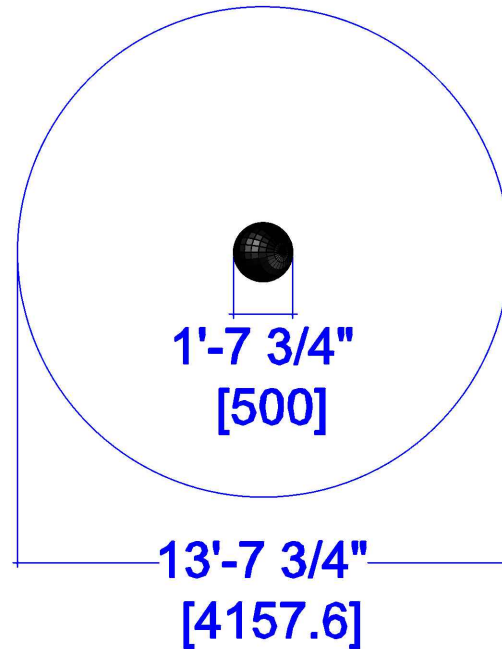
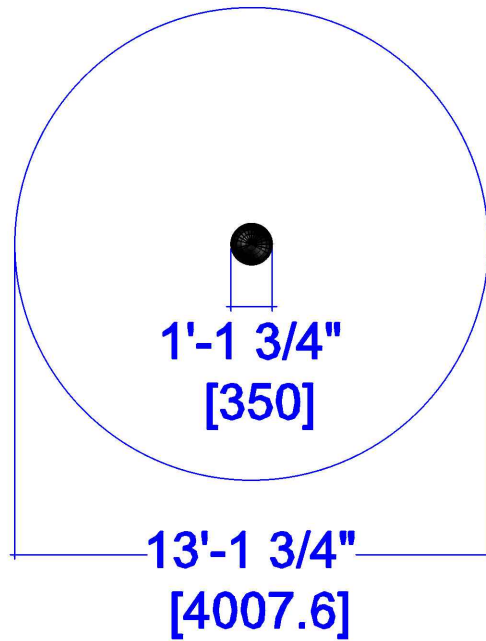
Available in non-EPDM standard colors Red, Green, Black and Grey.

goric
The finest playgrounds known to children

GORIC MARKETING GROUP USA, INC.

464 Common St #148 · Belmont, MA 02478 · p 617-744-0772 · f 617-744-1037 · www.goric.com

PLAN



Euroflex Balls



phone 617-744-0772 fax 617-744-1037
www.goric.com Email Info@goric.com

DATE:
11/2013

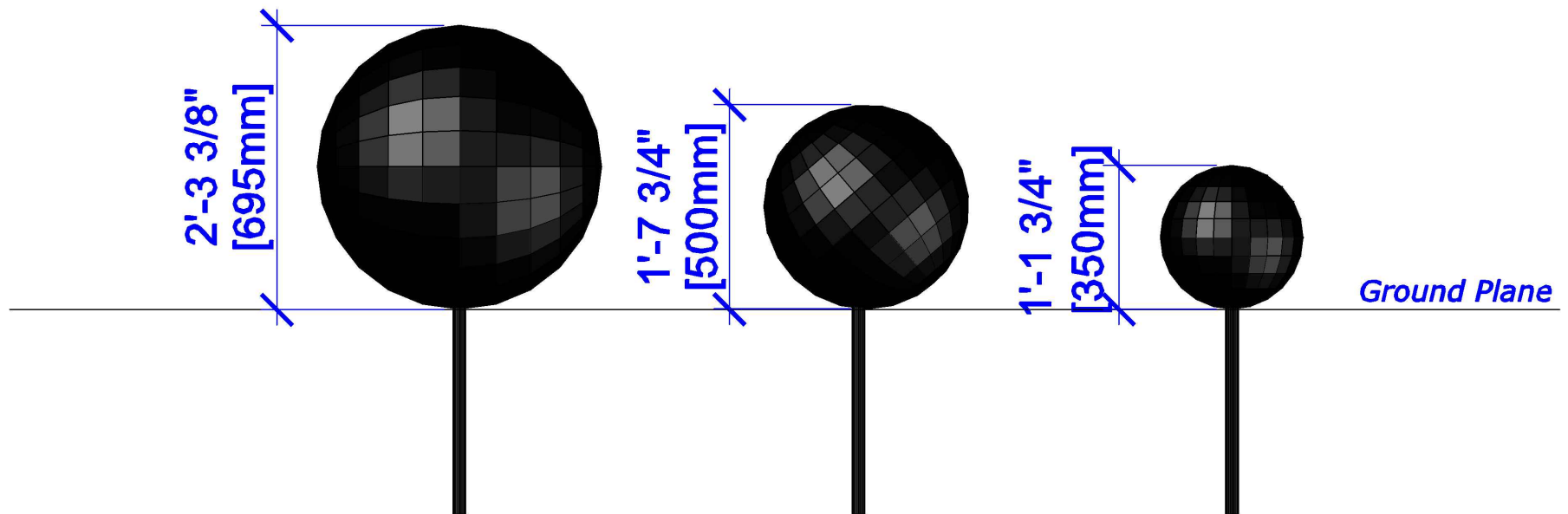
SCALE:
3/16"=1'-0"

MANUFACTURER:
KRAIBURG

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-

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1 OF 5

ELEVATION



Euroflex Balls



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DATE:
11/2013

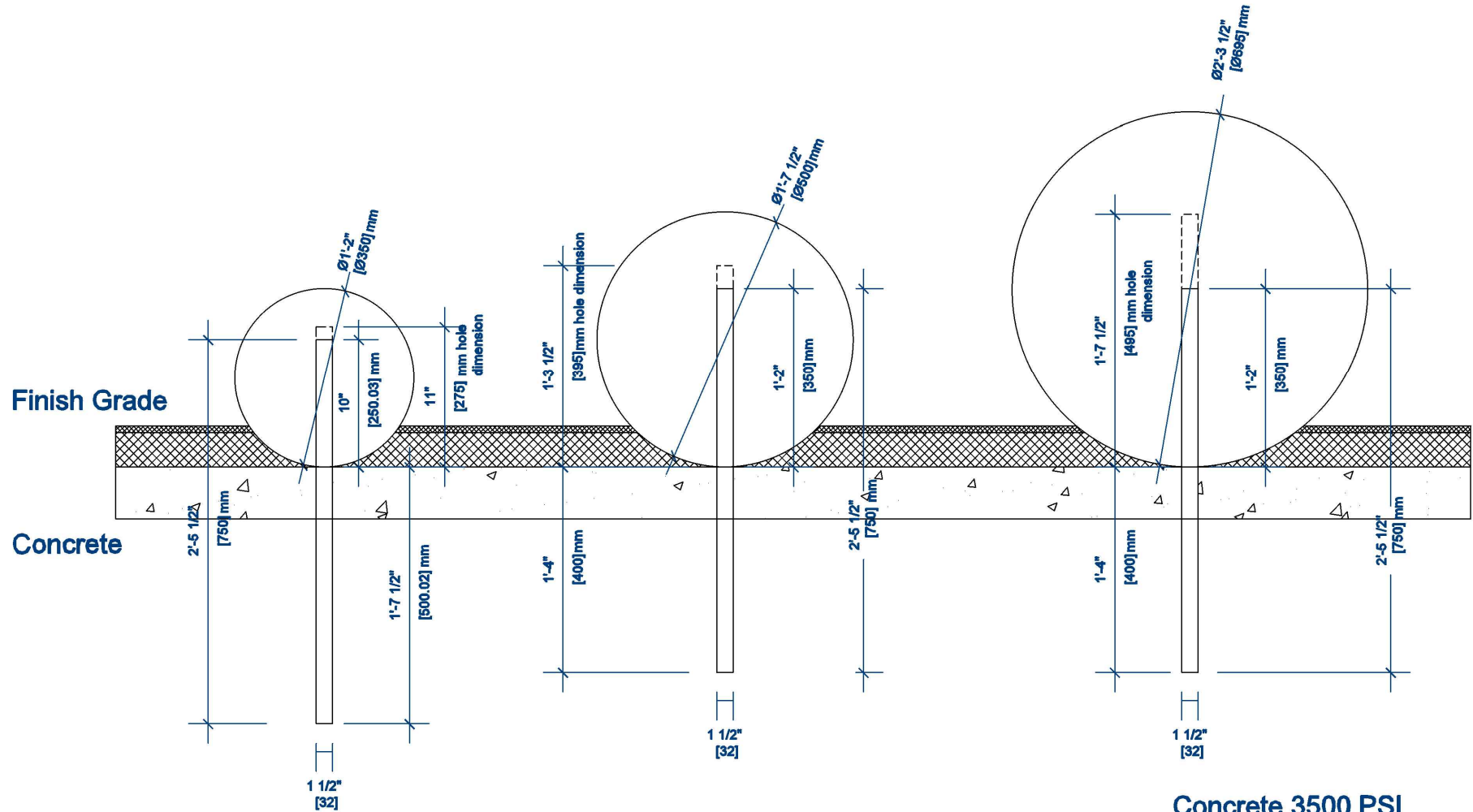
SCALE:
3/4"=1'-0"

MANUFACTURER:
KRAIBURG

ITEM#:
-

PAGE #:
2 OF 5

FOUNDATION DETAILS



Concrete 3500 PSI
Min. footing: 12" x 24"*
***Check for local frost lines.**

Euroflex Balls

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DATE:
011/2013

SCALE:
 $1'' = 1' - 0''$

MANUFACTURER:
KRAIBURG

ITEM#:

PAGE #: **3 OF 5**

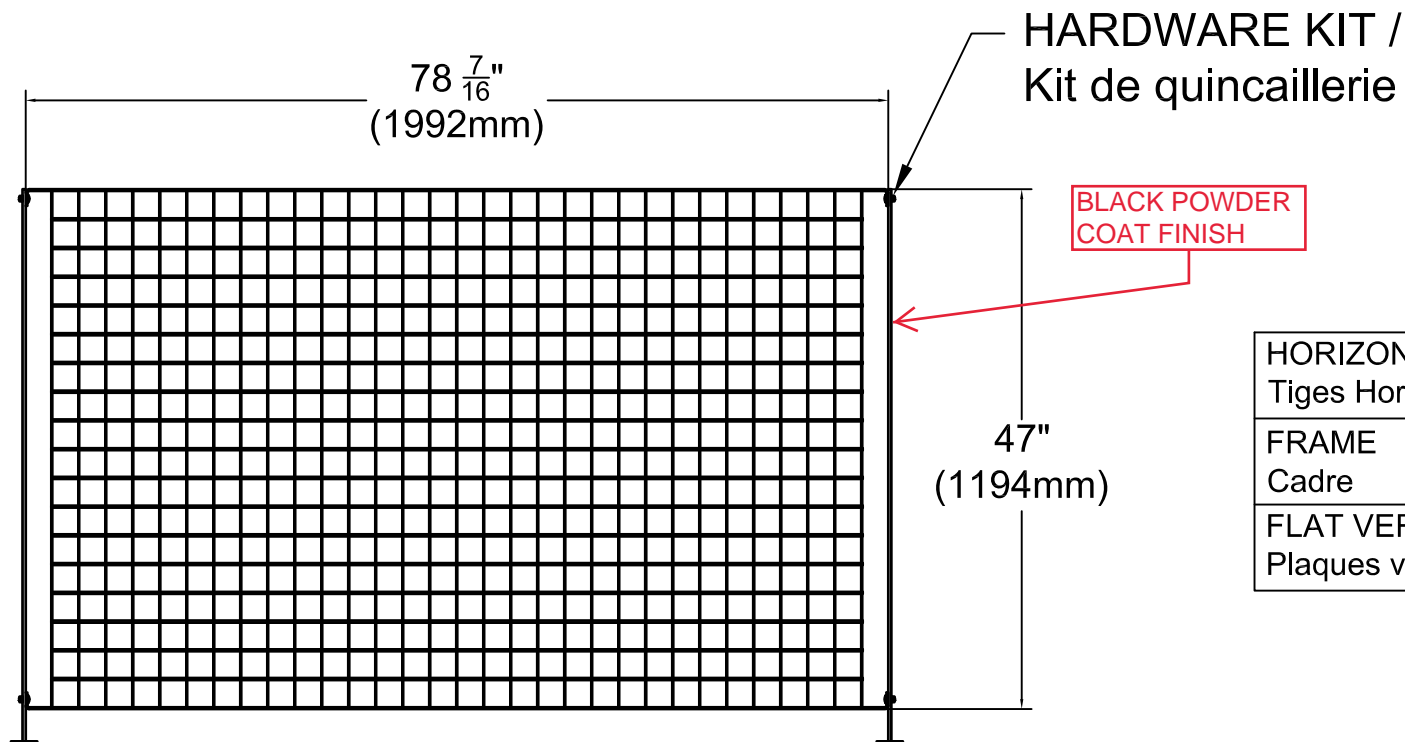
OMEGA 20 PANEL MOUNTED ON FLANGED POST (HEIGHT 47"H)

REVISION 1

Panneau Omega 20 sur poteaux avec base (grandeur 47"H)

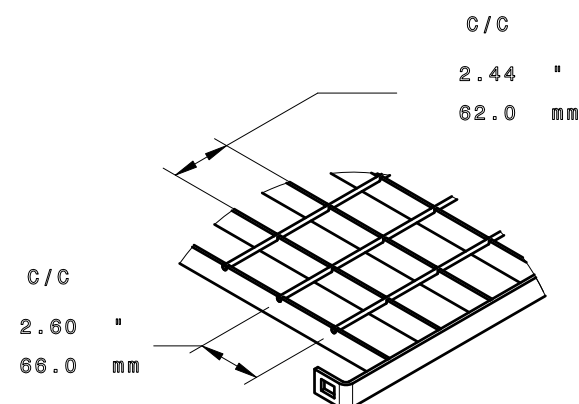
GUARDRAIL AT RAMP: BAR GRATE

PANEL / Panneau 47"



HORIZONTAL WIRES Tiges Horizontales	6GA Ø4.88mm
FRAME Cadre	1" x 9GA 25mm x 4mm
FLAT VERTICAL BARS Plaques verticales	1" x 14GA 25mm x 2mm

PANEL HEIGHT / Hauteur du panneau	NUMBER OF BRACKET KITS PER POST / Nombre d'ensembles d'attaches par poteau
1194 mm (47"H)	2
1980 mm (78"H)	3
2514 mm (99"H)	3



Système de Clôtures Omega II
1735 boul. St-Elzéar Ouest
Laval, Quebec
H7L 3N6

Tel: 450-686-9600
1-800-836-6342
Fax: 450-681-5318
www.omegafence.com

PARC CENTRE

Product Data Sheet








The Parc Centre chair is a clever riff on the Parisian outdoor standard, offering comfort with a pleasing bounce. Parc Centre chairs, tables, lounge and ottoman comfortably support social activities in formal and informal settings alike. Steel construction coupled with economy of form make them nimble enough to move around and heavy enough to hold their ground. Sled bases are stable on grass, gravel or hard surfaces. Seats have a pleasing bounce. Chairs, lounges and ottomans stack.

Chair / Lounge / Ottoman

- The frame of Parc Centre is formed of heavy steel wire.
- Powdercoated seating is offered armless, or with arms, is lightweight and stacks horizontally.
- The seat and back panels are constructed of welded steel straps.
- Stacking bumper/glides are made of tough nylon to resist damage from dragging on rough surfaces.

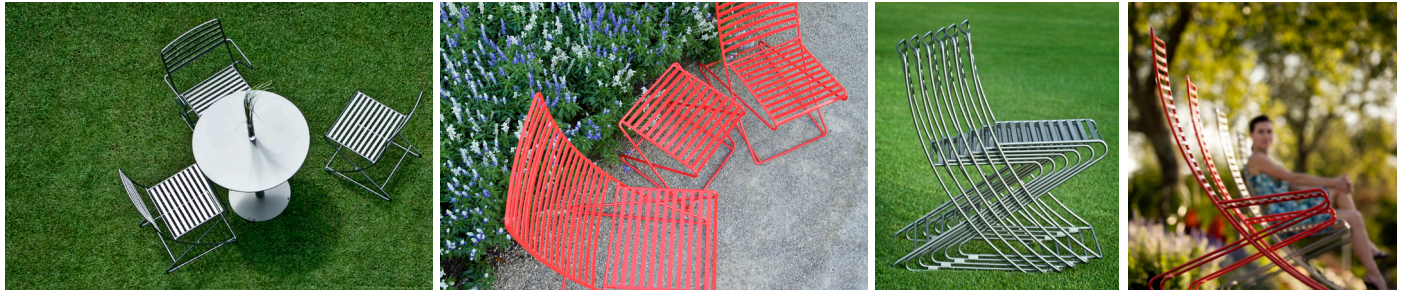
CHAIRS

	STYLE	DEPTH	WIDTH	HEIGHT	PRODUCT WEIGHT
	chair with arms	22"	21"	33"	25 lb
	chair no arms	22"	19"	33"	22 lb
	ottoman	18"	20"	17"	21 lb
	lounge with arms	30"	23"	43"	45 lb
	lounge no arms	30"	20"	43"	40 lb

MOVEABLE TABLES AT SOUTH PLAZA

PARC CENTRE

Product Data Sheet



Table

- The Parc Centre table is available in three sizes: 24" round, 30" round, and 28" square.
- Tabletops are formed of solid 5/16" steel plate welded to heavy duty steel wall tubing support.
- Base plate is 17" diameter solid steel.
- All parts are powdercoated.
- Table is available as either a surface mount or freestanding with adjustable levelers

TABLES

	STYLE	DIAMETER	HEIGHT	PRODUCT WEIGHT
	24" round	24"	30"	71 lb
	30" round	30"	30"	94 lb
	28" square	28" width x 28" depth	30"	100 lb

Finishes

- All metal is finished with Landscape Forms' proprietary Pangard II® polyester powdercoat, a hard yet flexible finish that resists rusting, chipping, peeling, and fading.
- Call for standard color chart.

To Specify

- Table Select table size and style, and powdercoat color.
- Specify surface mount or freestanding.
- Seating Select chair or lounge with arms, or armless, and powdercoat color.
- Ottoman Select ottoman and powdercoat color.

Designed by by John Rizzi

Parc Centre chair design is protected by U.S. Patent Nos. D569,121; D572,496

Visit our landscapeforms.com for more information. Specifications are subject to change without notice. Landscape Forms supports the Landscape Architecture Foundation at the Second Century level. ©2015 Landscape Forms, Inc. Printed in U.S.A.

Plaza Collection Receptacles

Classic Steel Strap Trash/Ash Receptacles and Recyclers

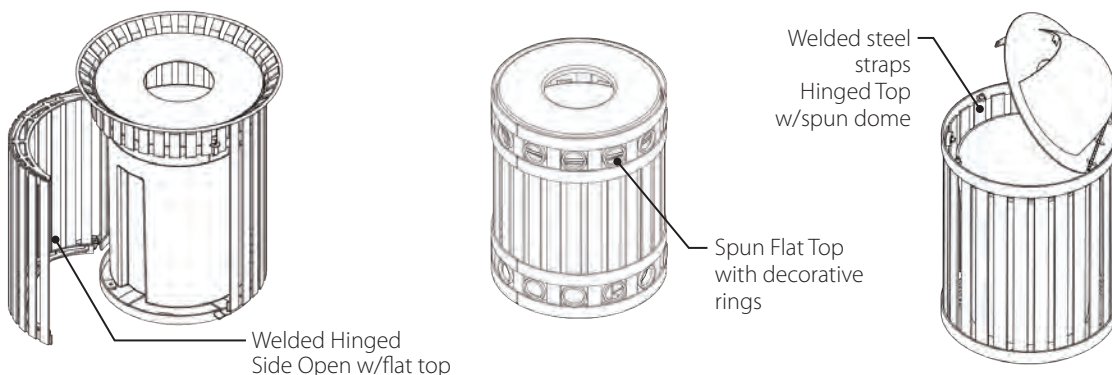
Materials: **Mild Steel**

Plaza Collection Receptacles provide an attractive solution to litter control in public places. The trash receptacles are fabricated with steel straps and simple clean lines to match the Plaza Collection benches and ash receptacles. These steel strap receptacles are manufactured in many configurations and feature hinged side open doors, dome tops, removable tops and pedestal bases.



Plaza Bench with PZ-200 and PZ-070-30

- Strong 1/4 x 1-1/2" or 1/4 x 2" steel straps, fully welded to 1-1/2" or 2" ring framework.
- These commercial grade receptacles are strong, attractive and durable.
- Plaza receptacles can be matched with benches, ash receptacles, and picnic tables.
- This collection has various steel strap designs to meet specific project needs.



The versatile Plaza Collection Receptacles are available in several styles including removable tops, hinged tops and hinged side opening. Each receptacle features four internal holes enabling it to be bolted to the ground as surface-mount.

Plaza Collection Receptacles - PZ-075 and PZ-075D

Options

Part. No.	Description	Size	Weight Lbs.
PZ-075-30	Plaza Collection Steel Strap Flared Receptacle w/30 Gal. Black Polyethylene Liner, Open Top (TR-12)	25" Dia x 32"H	235
PZ-075-35	Plaza Collection Steel Strap Flared Receptacle w/35 Gal. Black Polyethylene Liner, Open Top	25" Dia x 36"H	245
PZ-075D-30	Plaza Collection Steel Strap Flared Receptacle with Side Door, 30 Gal. Black Polyethylene Liner, Open Top	25" Dia x 36-1/2" H	250
PZ-075D-35	Plaza Collection Steel Strap Flared Receptacle with Side Door, 35 Gal. Black Polyethylene Liner, Open Top	25" Dia x 41"H	260
Lid Option			
PZ-DAD	Ash Dome Top for Round Receptacle w/ Side Door		277
PZ-DDT	Dome Top for Round Receptacle w/ Side Door		276
PZ-DFT	Flat Top for Round Receptacle w/ Side Door		272
PZ-HDT	Hinged Top w/Dome for Round Receptacle		264
PZ-HFT	Hinged Flat Top for Round Receptacle		260
PZ-BPT	Bird Proof Lid for Hinged Flat Top Round Receptacle		265
PZ-SAD	Spun Flat Top for Round Receptacle		250
PZ-SDT	Spun Dome Top for Round Receptacle		249
PZ-SFT	Spun Ash Dome Top for Round Receptacle		245

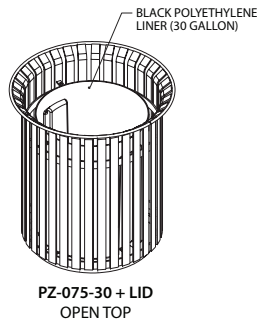


PZ-075-30 with PZ-SAD

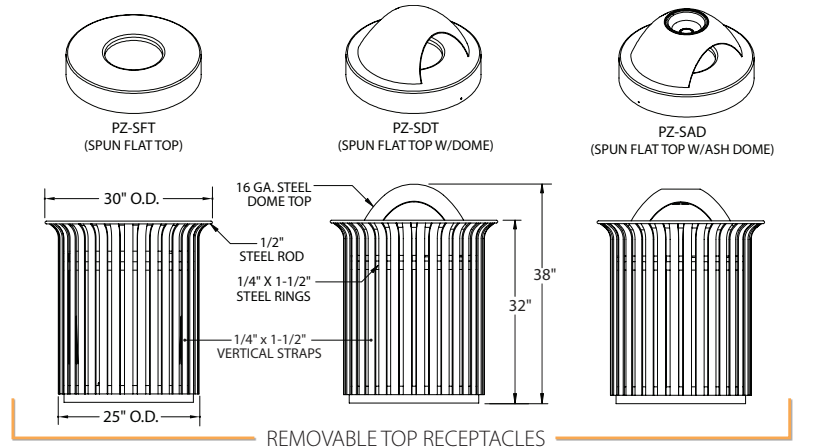
Note: All Plaza Collection receptacles are listed without tops. Choose from removable tops, hinged tops and side opening styles. Lid option weights are for 30 gal units. All Plaza Collection Receptacles ship fully assembled, except units with dome tops will require dome assembly.



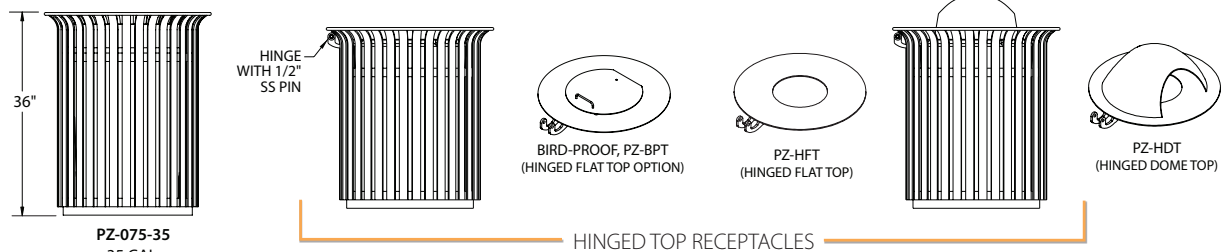
PZ-BPT Bird Proof lid option for Hinged Flat Top



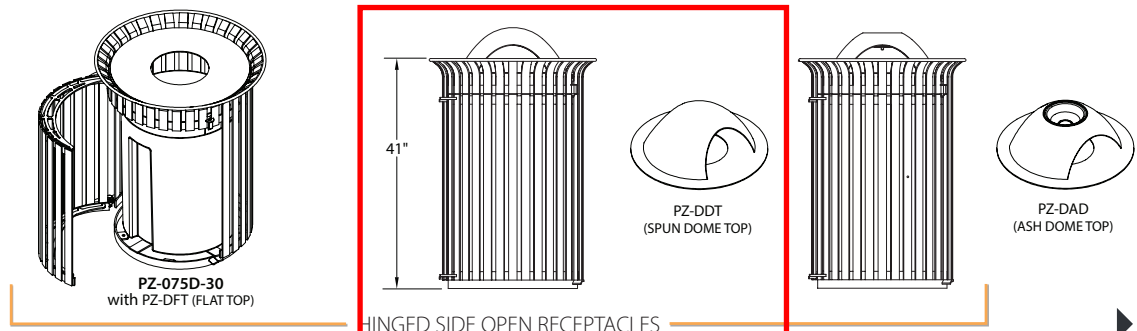
PZ-075-30 + LID OPEN TOP



REMOVABLE TOP RECEPTACLES



HINGED TOP RECEPTACLES



HINGED SIDE OPEN RECEPTACLES

Plaza Collection Receptacles
Modifications



Recycling matters to the health of our environment. To easily separate recyclable material from waste, Tournesol offers modifications to most of our receptacles to convert them into recycle or multi-use containers. For converted modifications, we offer specific recycle top options, divided liners for two different recycle streams or a combination recycle/trash, and decals for both tops and sides.

Ask about our custom branding options. From inlaid sponsor plaques on seat sections to custom laser-cut logos on trash receptacles, the Plaza Collection offers a variety of options for specific applications. Ask your Tournesol Siteworks salesperson for details.



PZ-076-20 with matching PZ-01C00 Plaza Bench and PZ-205 Ash Receptacle



PZ-076-20 with PZ-FT and PZ-075-30 with PZ-SAD

PZR619



Cane Detectable Tofino No Scratch® Bicycle Rack

Capacity: 2  **Warranty:** 1 Year

- » No Scratch® bumper protects bike frames
- » Superior functionality and aesthetics
- » High security
- » Extremely difficult to cut
- » Works with a variety of lock types
- » Complies with the 2010 ADA Standards for Accessible Design, Chapter 3, Section 307.3, for post-mounted objects in circulation paths.

Product Specifications

Materials:

- » Stainless Steel or Mild Steel
 - » Outer Tube: 2" x 1" x 0.120" rectangular tubing
 - » Inner Bar: 0.25" x 2" flat bar
 - » Cross Tube: 2" x 1" x 0.120" rectangular tubing
- » Santoprene® Rubber Bumper

Finishing Options:

- ☐ Stainless Steel Bead Blast Satin

Mounting Options:

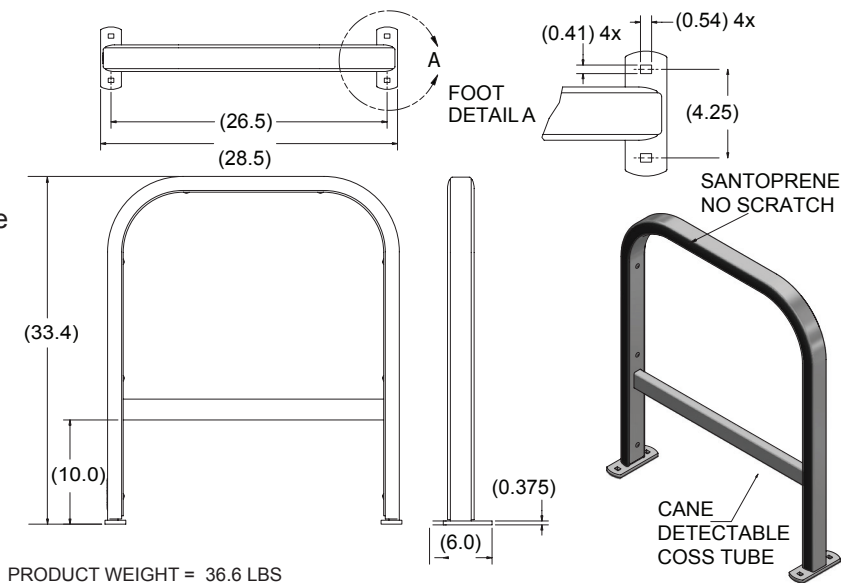
- ☒ Surface Mount: 0.375" x 2" x 6" flat bar foot
- ☐ Embedded In-Ground Mount into concrete footing
- ☐ Mounting Rails - Bolted to two aluminum mounting rails - see website for configurations:

www.sportworks.com/product/mounting-rails

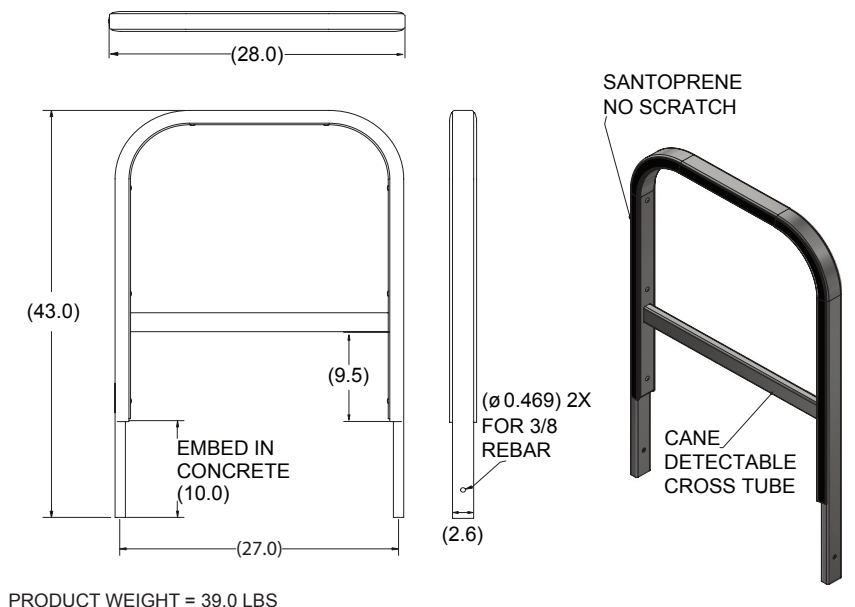
Hardware Options:

- ☐ Concrete Wedge Anchors (standard)
 - ☐ + Tamper Resistant Nuts (recommended)
- *For other hardware options contact our sales and support staff.

Surface Mount Dimensions



Embedded Mount Dimensions

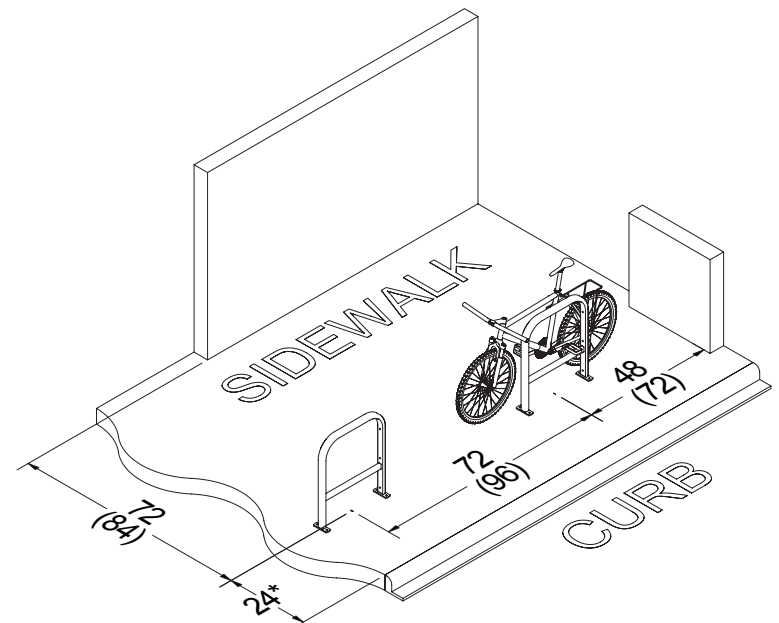
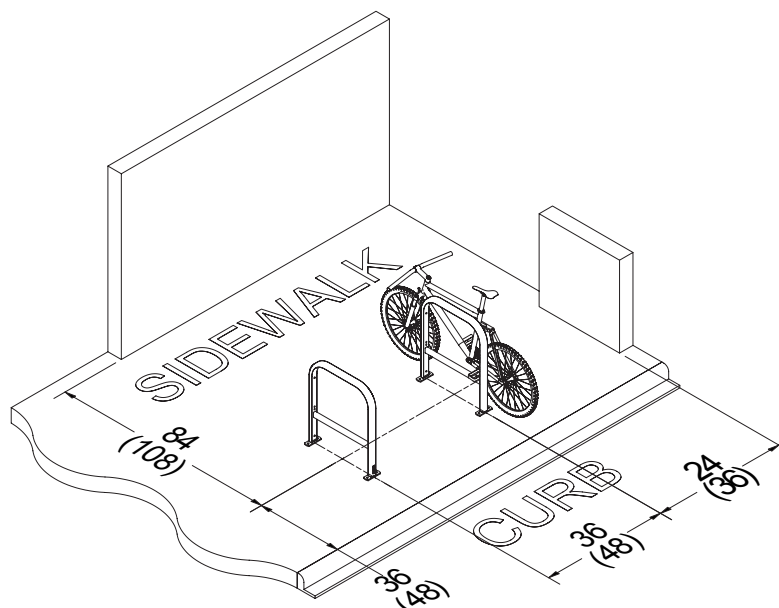
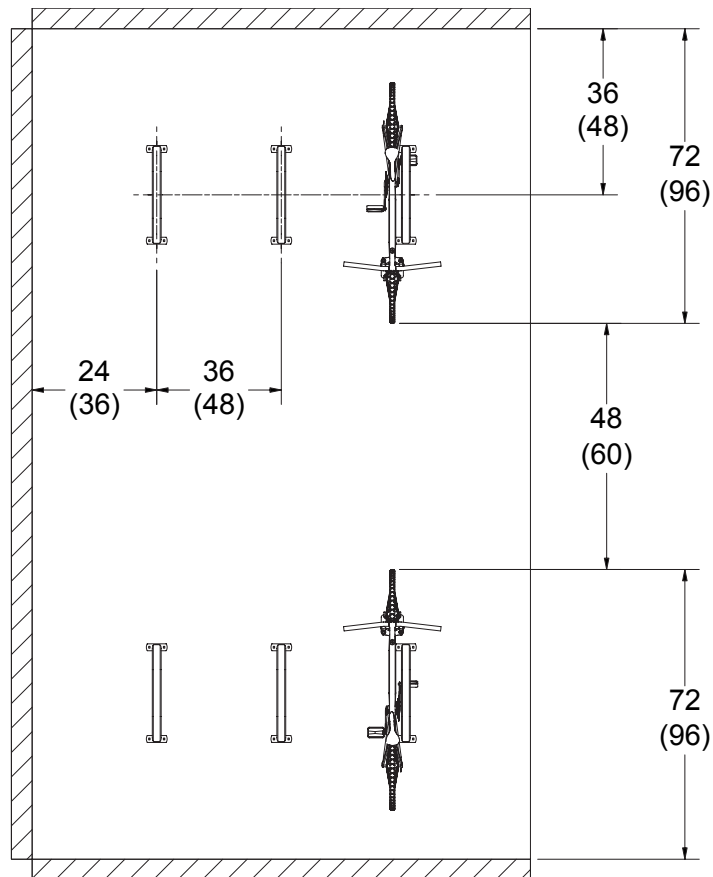


* All dimensions are in inches

Spacing and Setbacks

*Many local governments will specify minimum spacing and setback requirements

**All dimensional drawings are in inches. Minimum dimensions are placed above the recommended dimensions. Recommended dimensions are in ().



Contractor:

Job:

Notes:

Contact Information:

888-661-0555
sales@sportworks.com
www.sportworks.com

15540 Woodinville Redmond Rd
 NE, Bldg A-200,
 Woodinville, WA 98072



Declare.

REMOVABLE BOLLARDS

Simple Pedestrian & Vehicle Bollards

Galvanized Steel Bollards for Pedestrian/Traffic Control

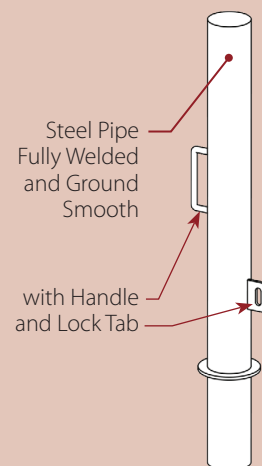
Our Simple Pedestrian and Vehicle Bollards were developed for the Seattle Parks Department as a cost-effective means of separating vehicles from pedestrians and of controlling access to areas within parks. These fully welded, galvanized bollards are available in 3 inch or 5 inch diameters as permanent embed or 3 inch removable style with handle.



- Available in fully welded schedule 40 pipe
- Bollards available in 30" heights with durable, hot-dip galvanized finish
- Choose from two mounting styles: removable or permanent embed
- Pedestrian Bollards have optional eyebolts and padlock

The 3 inch, fully welded Pedestrian Bollard is small enough to be moved easily with the integral handle. The receiver cover is attached to the receiver with a chain so it is always available. When not in use, the receiver cover can be conveniently locked to the bollard for storage.

The Vehicle Bollard includes a permanent embed, galvanized 5" bollard that provides a cost-effective, durable and low maintenance solution to traffic control.



Tournesol
SITE WORKS

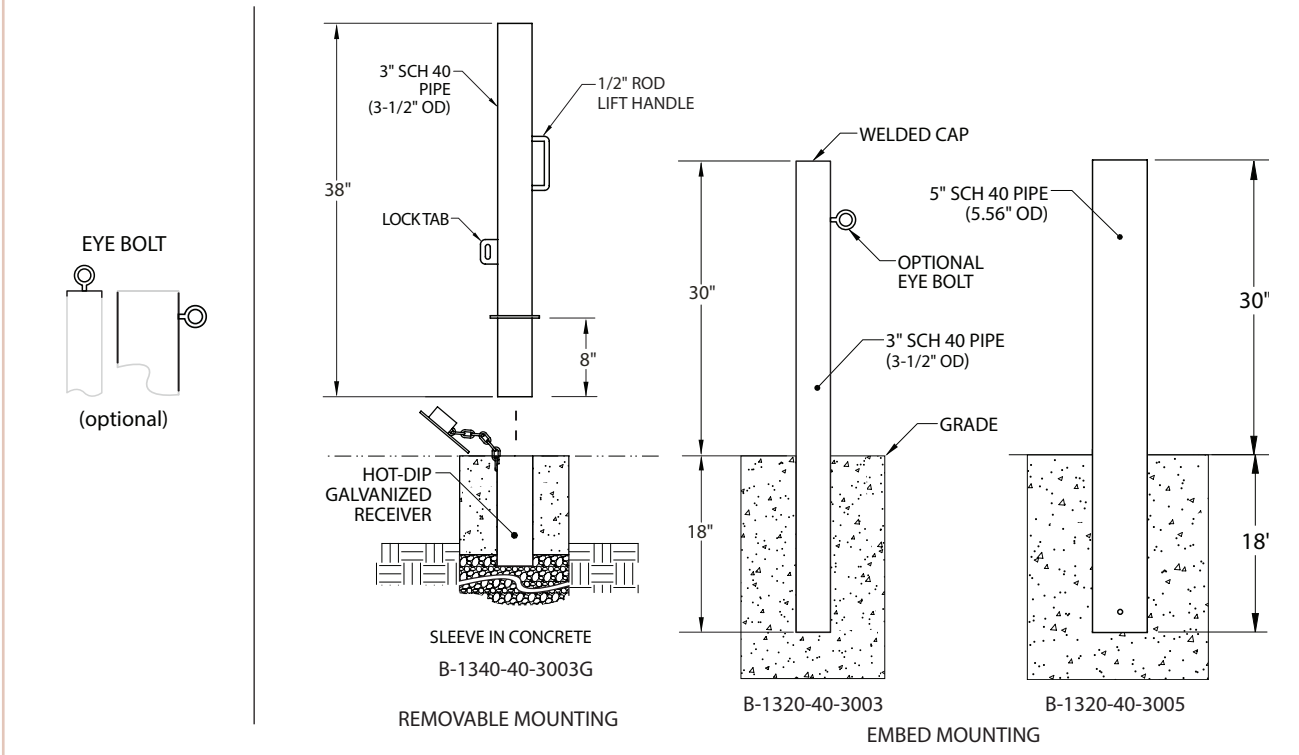
tournesolsiteworks.com
800.542.2282

Simple Pedestrian & Vehicle Bollard

Specifications

Part No.	Description	Size (W x H)	Weight	Mounting
B-1340-40-3003G	Pedestrian Bollard, 30" Galvanized, 3", Schedule 40 w/Handle (includes receiver and chain) (SPR-R)	3" x 30", length 38"	53	Removable
B-1320-40-3003G	Pedestrian Bollard, 30" Galvanized, 3", Sched. 40 (no handle and eyebolt) (SPR-E)	3" x 30", length 48"	41	Permanent Embed
B-1320-40-3005G	Vehicle Bollard, 30" Galvanized, 5", Sched. 40 (no handle and eyebolt) (SPR-V)	6" x 30", length 48"	67	Permanent Embed
B-1320-40-3005	Vehicle Bollard, 30" Powder Coated, 5", Sched. 40 (no handle and eyebolt) (SPR-V)	6" x 30", length 48"	67	Permanent Embed
Bollard Options				
B-EB	Eyebolt (each)		1	
B-PD	Brass Padlock		1	

Note: All heights listed in description are measured above grade. Pedestrian Bollards are available in 30" heights.



Choose from several standard powder coat colors. Bollards will have a zinc rich undercoat applied and a polyester based powder coat on top.

Hot-Dip Galvanizing: Following fabrication, all parts are hot-dip galvanized to standard ASTM A123, 3 to 4 mils thick.

Bollard Options: Eyebolts

On removable bollards: Padlock

Mounting: Removable or embed.

NOTE:

1. Depth and diameter of installation hole may vary with soil conditions. Consult project engineer for correct dimensions.
2. REMOVABLE BOLLARDS ONLY: Receiver must be installed in drainage rock. Improper installation will void the warranty.

For more information on our force protection products (including Planter Barriers, GFRC and Lit Bollards), see the website.



BETWEEN LANDSCAPE + ARCHITECTURE



Tournesol
SITE WORKS

tournesolsiteworks.com
800.542.2282

PED717
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Tournesol Siteworks

PEDESTRIAN LIGHT

KIMLIGHTING®

ALT1

ARCHITECTURAL AREA/SITE

FEATURES

- Elegant form factor
- High performance optics up to 17,500 delivered lumens
- Diffusion lens for low glare comfort
- NX™ wireless control options



CONTROL TECHNOLOGY

NX DISTRIBUTED INTELLIGENCE

SPECIFICATIONS

CONSTRUCTION

- One piece die-cast, low copper (<0.6% Cu) Aluminum Alloy 360 with vents and .100" minimum wall thickness
- Separate internal driver compartment rated for IP66 ingress protection
- Finish: fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat
- Standard colors include (BLS) Black Gloss Smooth, (BLT) Black Matte Textured, (DBS) Dark Bronze Gloss Smooth, (GTT) Graphite Matte Textured, (LGS) Light Gray Gloss Smooth, (PSS) Platinum Silver Smooth, (VGS) Verde Green Smooth, (WH) White, and (CC) Custom Color (Include RAL#)
- Lens is impact resistant 1/8" tempered glass with anti-reflective coating
- Lens has a one-piece extruded vulcanized silicone gasket
- Lens frame one piece die-cast, low copper (<0.6% Cu) Aluminum Alloy 360 and .100" minimum wall thickness
- Lens frame has a one-piece O-ring extruded vulcanized silicone gasket
- Mid-frame one piece die-cast, low copper (<0.6% Cu) Aluminum Alloy 360 and .100" minimum wall thickness
- Mid-frame secures to Lens Frame and housing by stainless steel recessed Allen-head screws
- Silicone gaskets throughout
- All external fasteners are stainless steel

OPTICS

- LEDs mount to a metal printed circuit board assembly (MCPCB)
- Optical lenses are clear injection molded PMMA acrylic

INSTALLATION

- Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury

ELECTRICAL

- Universal voltage, 120 through 277V with a ±10% tolerance. Driver is Underwriters Laboratories recognized
- High voltage configurations, 347/480. Driver has a 0-10V dimming interface for multi-level illumination options. Driver is Underwriters Laboratories recognized
- "Thermal Shield", secondary side, thermistor provides protection for the sustainable life of LED module and electronic components
- Drivers shall have greater than a 0.9 power factor, less than 20% harmonic distortion, and be suitable for operation in -40°C to 40°C ambient environments
- Luminaire shall be capable of operating at 100% brightness in a 40°C environment. Both driver and optical array have integral thermal protection that will dim the luminaire upon detection of temperatures in excess of 85°C

ELECTRICAL (CONTINUED)

- Dimming range from 10% to 100% through the use of standard 0-10V interface on the programmable driver
- Modular wiring harness in the service area provides user access to the dimming circuitry
- Optional factory programmed dimming profile
- Surge protection: 10,000k in parallel, 20,000k in series
- SF for 120, 277, 347 Line volts
DF for 208, 240, 480 Line volts
- Wiring: No. 18AWM rated 105°C, wet rating.

CERTIFICATIONS AND LISTINGS

- UL 1598 Standard for Luminaires
- IP66 certified
- RoHS compliant

WARRANTY

- 5 year warranty
- See [HLI Standard Warranty](#) for additional information

KEY DATA

Lumen Range	1,673–18,452
Wattage Range	22–156
Efficacy Range (LPW)	56–137
Reported Life (Hours)	L70/60,000
Weight	21.5 lbs 9.75 kg
EPS Front View / Side View	.37 / .64

DATE: _____ LOCATION: _____
TYPE: _____ PROJECT: _____
CATALOG #: _____

Altitude®



RELATED PRODUCTS

[Ouro](#)

[Pavilion](#)

[PGL8](#)

PHOTOMETRY

BROCHURE

Delivered Lumens

Dimensional Drawings

RUSHING

FIXTURE CUT SHEETS

Little Saigon Park
Seattle, WA
Fixture Type: E1(A)

Note: This Fixture Cut is for information only. Refer to Specs for all part numbers, lamps, finishes, etc.

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

ORDERING GUIDE

Example: ALT1-54L-120-3K8-3-UNV-A34-GT-NXSPW30F-CLR

CATALOG #	
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HOUSING

ALT1					
Housing	LED Engine		CCT/CRI	Distribution	Rotation
ALT1 Architectural Area/Site	28L-20	20W, 3,000 lm	AM Amber ⁹	FR Type I/ Front Row	Blank for no rotation
	28L-40	40W, 5,000 lm	3K7 3000K, 70 CRI	2 Type II	L Optic rotation left ¹
	28L-60	60W, 7,500 lm	3K8 3000K, 80 CRI	3 Type III	R Optic rotation right ¹
	28L-85	85W, 10,000 lm	3K9 3000K, 90 CRI	4 Type IV	
	54L-95	95W, 12,500 lm	4K7 4000K, 70 CRI	4W Type IV Wide	
	54L-120	120W, 15,000 lm	4K8 4000K, 80 CRI	5QM Type V Square Medium	
	54L-155	155W, 17,500 lm	5K7 5000K, 70 CRI	5QN Type V Square Narrow	
			5K8 5000K, 80 CRI	5R Type V Rectangular	
				5W Type V Wide (Round)	

Mounting	Fixture Finish	Control Options		Options	Control Accessories
ASQ Arm Square pole	BL Black	7PR	7 pin PCR, wireless control enabled	BC Backlight Control ⁶	SCPREMOTE Remote control for SCP option. Order at least one per project to program and control the occupancy sensor
A34 Arm mt 3.3–4.2" OD pole	DB Dark Bronze	7PR-TL	7 pin PCR with twist lock photocontrol	SF Single Fuse	
A46 Arm mt 4.5–6.0" OD pole	GT Graphite	7PR-SC	7 pin PCR with shorting cap	DF Double Fuse	
MAF Horizontal Slipfitter 2.375" OD arm	LG Light Grey	AD-012	AstroDIM: 50% output at midnight ¹⁰	TB Terminal Block	
SVSF Vertical Slipfitter Mount square for 2" pipe tenon, (2.375" OD)	PS Platinum Silver	AD-022	AstroDIM: 50% output midnight to 4 AM ⁹	CLR Clear Lens	SW7PR SiteSync™ on fixture module via 7PR
VSF Vertical Slipfitter Mount for 2" pipe tenon, (2.375" OD)	TT Titanium	AD-032	AstroDIM: 50% output 10PM ¹⁰	HDL Diffuse Lens ⁷	SWUSB SiteSync™ Software on USB
WB Wall Bracket for area wall mount	WH White	AD-042	AstroDIM: 50% output 10PM to 4AM ¹⁰		SWTAB SiteSync™ Windows Table ⁸
	CC Custom Color ²	NXSP14F	Wired NX, PIR Occupancy Sensor, Dimming Daylight Harvesting, 14' ^{3,4}		SWBRG SiteSync™ Wireless Bridge Node
		NXSP30F	Wired NX, PIR Occupancy Sensor, Dimming Daylight Harvesting, 30' ^{3,4}		SWFC SiteSync™ Field Commission Service
		NXSPW14F	NX Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting, 14' ^{3,4}		WIR-RME-L wiSCAPE™ External Fixture Module
		NXSPW30F	NX Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting, 30' ^{3,4}		NXOFM-1R1D-UNV NX External Control Node
		NXWE	NX Wireless Enabled		
		SCL-8F	Low voltage sensor for 3rd party wireless controls via 7PR. For mounting heights up to 8'		
		SCL-40F	Low voltage sensor for 3rd party wireless controls via 7PR. For mounting heights 9' to 40'		
		SCP-8F	Remote control programmable line voltage sensor, use with SCPREMOTE		
		SCP-40F	Remote control programmable line voltage sensor, use with SCPREMOTE		
		SWP	Site Sync™ Pre Commission Wireless Module ^{3,4,5}		
		SWPM-40F	Site Sync with Sensor 9' to 40' MH ^{3,4,5}		

Notes:

- 1 Not available with 5QM and 5W distributions
- 2 Consult factory
- 3 Not available with other sensor or wireless control options
- 4 Not available in 480V
- 5 Specify group and zone at time of order. See www.hubbellighting.com/sitesync for more details. Order at least one SiteSync interface accessory SWUSB or SWTAB. Each option contains SiteSync License, GUI, and Bridge Node
- 6 Not available with Type 5 distributions, CLR, or HDL option
- 7 Only available in Type 3 or Type 5W
- 8 Microsoft, Encarta, MSN, and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries
- 9 Wildlife friendly
- 10 Not available for 28L-20 engine and sensor options









RUSHING

FIXTURE CUT SHEETS

Little Saigon Park
Seattle, WA
Fixture Type: E1(A)

Note: This Fixture Cut is for information only. Refer to Specs for all part numbers, lamps, finishes, etc.

PRODUCT EXCEPTIONS & DETAILS

Configuration				EPA	Configuration				EPA
	1SA	1 Arm Side Mount		0.98		3SY*	3 Arm Side Mount		2.46
	2SB	2 Arm Side Mount		1.48		4SC	4 Arm Side Mount		2.46
	2SL	2 Arm Side Mount		1.96		1W	Single Wall Mount		n/a
	3ST	3 Arm Side Mount		2.20		HSF	Horizontal Slipfitter		n/a

DELIVERED LUMENS

LEDs #	Nominal Watts	Nominal Lumens	Lens Options	Distribution	3000K 70CRI				4000K 70CRI				5000K 70CRI						
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G	
28L	20	3,000	No Lens	FR	3110	0	0	0	141	3274	0	0	0	149	3318	1	0	0	148
				FR-BC	2036	0	0	0	93	2143	0	0	0	97	2172	0	0	0	97
				2	2903	1	0	1	132	3056	1	0	1	139	3097	1	0	1	138
				2-BC	1771	0	0	0	80	1864	0	0	0	85	1889	0	0	0	84
				3	2945	1	0	1	131	3100	1	0	1	138	3141	1	0	1	140
				3-BC	1779	0	0	1	81	1873	0	0	1	85	1898	0	0	1	85
				4	2943	0	0	1	134	3098	0	0	1	141	3139	0	0	1	141
				4-BC	2189	0	0	1	100	2304	0	0	1	105	2335	0	0	1	104
				4W	2927	1	0	1	133	3081	1	0	1	140	3122	1	0	1	139
				4W-BC	1673	0	0	1	76	1761	0	0	1	80	1785	0	0	1	80
				5R	3025	2	0	2	137	3184	2	0	2	145	3227	2	0	2	144
				5QM	3069	2	0	0	139	3230	2	0	0	147	3273	2	0	0	146
				5QN	3051	2	0	0	139	3211	2	0	0	146	3254	2	0	0	145
				5W	3024	2	0	1	137	3183	2	0	1	145	3226	2	0	1	144
			Clear Lens	FR	2909	0	0	0	132	3062	0	0	0	139	3103	0	0	0	141
				2	2715	1	0	1	123	2858	1	0	1	130	2896	1	0	1	132
				3	2754	1	0	1	125	2899	1	0	1	132	2938	1	0	1	134
				4	2752	0	0	1	125	2897	0	0	1	132	2936	0	0	1	133
				4W	2738	1	0	1	124	2882	1	0	1	131	2920	1	0	1	133
				5R	2829	2	0	2	129	2978	2	0	2	135	3018	2	0	2	137
				5QM	2870	2	0	0	130	3021	2	0	0	137	3062	2	0	0	139
				5QN	2853	2	0	0	130	3003	2	0	0	137	3044	2	0	0	138
			HDL Lens	5W	2829	2	0	1	129	2977	2	0	1	135	3017	2	0	1	137
				3	2341	1	0	1	106	2464	1	0	1	112	2497	1	0	1	114
				5W	2405	1	0	1	109	2531	1	0	1	115	2565	1	0	1	117

DELIVERED LUMENS (CONTINUED)

LEDs #	Nominal Watts	Nominal Lumens	Lens Options	Distribution	3000K 70CRI					4000K 70CRI					5000K 70CRI				
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G	
28L	40	5,000	No Lens	FR	4870	1	0	0	128	5127	1	0	0	135	5195	1	0	0	137
				FR-BC	3189	0	0	0	84	3356	0	0	0	88	3401	0	0	0	90
				2	4546	1	0	1	120	4785	1	0	1	126	4849	1	0	1	128
				2-BC	2773	0	0	1	73	2919	0	0	1	77	2958	0	0	1	78
				3	4611	1	0	2	121	4854	1	0	2	128	4919	1	0	2	129
				3-BC	2786	0	0	1	73	2933	0	0	1	77	2972	0	0	1	78
				4	4608	1	0	2	121	4851	1	0	2	128	4915	1	0	2	129
				4-BC	3428	0	0	1	90	3608	0	0	1	95	3656	0	0	1	96
				4W	4584	1	0	2	121	4825	1	0	2	127	4889	1	0	2	129
				4W-BC	2621	0	0	1	69	2758	0	0	1	73	2795	0	0	1	74
				5R	4737	2	0	2	125	4986	3	0	1	131	5053	3	0	3	133
				5QM	4806	2	0	1	126	5058	2	0	1	133	5126	2	0	1	135
				5QN	4777	2	0	0	126	5028	2	0	0	132	5096	2	0	0	134
				5W	4736	3	0	1	125	4985	2	0	2	131	5052	3	0	1	133
			Clear Lens	FR	4555	1	0	0	120	4795	1	0	0	126	4859	1	0	0	128
				2	4252	1	0	1	112	4476	1	0	1	118	4536	1	0	1	119
				3	4333	1	0	1	114	4561	1	0	1	120	4622	1	0	1	121
				4	4310	0	0	2	113	4537	1	0	2	119	4598	1	0	2	121
				4W	4287	1	0	2	113	4513	1	0	2	119	4573	1	0	2	120
				5R	4431	2	0	2	117	4663	2	0	2	123	4726	2	0	2	124
				5QM	4495	2	0	1	118	4731	2	0	1	125	4794	2	0	1	126
				5QN	4468	2	0	0	118	4703	2	0	0	124	4766	2	0	0	125
				5W	4430	3	0	1	117	4663	3	0	1	123	4725	3	0	1	124
			HDL Lens	3	3741	1	0	1	98	3937	1	0	1	104	3990	1	0	1	105
				5W	3891	2	0	1	102	4095	2	0	1	108	4150	2	0	1	109

DELIVERED LUMENS (CONTINUED)

LEDs #	Nominal Watts	Nominal Lumens	Lens Options	Distribution	3000K 70CRI					4000K 70CRI					5000K 70CRI				
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G	
28L	60	7,500	No Lens	FR	7347	1	0	1	122	7733	1	0	1	129	7837	1	0	1	131
				FR-BC	4810	0	0	0	80	5063	0	0	0	84	5131	0	0	0	86
				2	6858	1	0	2	114	7218	1	0	2	120	7315	1	0	2	122
				2-BC	4183	0	0	1	70	4403	0	0	1	73	4462	0	0	1	74
				3	6956	1	0	2	116	7322	1	0	2	122	7420	1	0	2	123
				3-BC	4203	0	0	1	70	4424	0	0	1	74	4483	0	0	1	75
				4	6951	1	0	2	116	7317	1	0	2	122	7415	1	0	2	124
				4-BC	5171	0	0	2	86	5443	0	0	2	91	5516	0	0	2	92
				4W	6915	1	0	2	115	7278	1	0	2	121	7376	1	0	2	123
				4W-BC	3953	0	0	2	66	4161	0	0	2	69	4216	0	0	2	70
				5R	7145	3	0	3	119	7521	3	0	3	125	7622	3	0	3	127
				5QM	7249	3	0	1	121	7630	3	0	1	127	7732	3	0	1	129
				5QN	7206	3	0	0	120	7585	3	0	0	126	7687	3	0	0	128
			5W	7144	3	0	2	119	7520	3	0	2	125	7620	3	0	2	127	
			Clear Lens	FR	6872	1	0	1	115	7233	1	0	1	121	7330	1	0	1	122
				2	6414	1	0	2	107	6751	1	0	2	113	6842	1	0	2	114
				3	6506	1	0	2	108	6848	1	0	2	114	6940	1	0	2	116
				4	6502	1	0	2	108	6844	1	0	2	114	6935	1	0	2	116
				4W	6468	1	0	2	108	6807	1	0	2	113	6899	1	0	2	115
				5R	6683	3	0	3	111	7035	3	0	3	117	7129	3	0	3	119
				5QM	6780	3	0	1	113	7137	3	0	1	119	7232	3	0	1	121
				5QN	6740	2	0	0	112	7094	3	0	0	118	7189	3	0	0	120
			HDL Lens	5W	6682	3	0	2	111	7033	3	0	2	117	7128	3	0	2	119
				3	5531	2	0	1	92	5821	2	0	1	97	5899	2	0	1	98
				5W	5680	2	0	1	95	5979	2	0	1	100	6059	2	0	1	101

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

DELIVERED LUMENS (CONTINUED)

LEDs #	Nominal Watts	Nominal Lumens	Lens Options	Distribution	3000K 70CRI					4000K 70CRI					5000K 70CRI				
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G	
28L	85	10,000	No Lens	FR	9699	1	0	1	113	10209	1	0	1	119	10346	1	0	1	120
				FR-BC	6350	0	0	1	74	6684	0	0	1	78	6773	0	0	1	79
				2	9054	1	0	2	105	9530	2	0	2	111	9657	2	0	2	112
				2-BC	5523	0	0	1	64	5813	0	0	1	68	5891	0	0	1	68
				3	9183	1	0	2	107	9666	1	0	2	112	9795	1	0	2	114
				3-BC	5549	0	0	2	65	5841	0	0	2	68	5919	0	0	2	69
				4	9177	1	0	2	107	9660	1	0	2	112	9789	1	0	2	114
				4-BC	6827	0	0	2	79	7186	0	0	2	84	7282	0	0	2	85
				4W	9129	1	0	3	106	9609	1	0	3	112	9737	1	0	3	113
				4W-BC	5219	0	0	2	61	5493	0	0	2	64	5567	0	0	2	65
				5R	9433	3	0	3	110	9929	3	0	3	115	10062	3	0	3	117
				5QM	9570	3	0	1	111	10073	3	0	1	117	10208	3	0	1	119
				5QN	9514	3	0	0	111	10014	3	0	0	116	10148	3	0	0	118
			Clear Lens	5W	9432	4	0	2	110	9927	4	0	2	115	10060	4	0	2	117
				FR	9072	1	0	1	105	9549	1	0	1	111	9677	1	0	1	113
				2	8468	1	0	2	98	8913	1	0	2	104	9033	1	0	2	105
				3	8589	1	0	2	100	9041	1	0	2	105	9162	1	0	2	107
				4	8584	1	0	2	100	9035	1	0	2	105	9156	1	0	2	106
				4W	8538	1	0	2	99	8987	1	0	3	105	9108	1	0	3	106
				5R	8823	3	0	3	103	9287	3	0	3	108	9411	3	0	3	109
				5QM	8951	3	0	1	104	9422	3	0	1	110	9548	3	0	1	111
			HDL Lens	5QN	8898	3	0	0	103	9366	3	0	0	109	9491	3	0	0	110
				5W	8822	3	0	2	103	9285	4	0	2	108	9410	4	0	2	109
				3	7302	2	0	2	85	7685	2	0	2	89	7788	2	0	2	91
				5W	7499	2	0	1	87	7893	2	0	1	92	7999	2	0	1	93

DELIVERED LUMENS (CONTINUED)

LEDs #	Nominal Watts	Nominal Lumens	Lens Options	Distribution	3000K 70CRI					4000K 70CRI					5000K 70CRI				
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G	
54L	95	12,500	No Lens	FR	11792	1	0	1	125	12412	1	0	1	132	12578	1	0	1	134
				FR-BC	7848	0	0	1	83	8260	0	0	1	88	8371	0	0	1	90
				2	11210	2	0	2	119	11800	2	0	2	126	11958	2	0	2	126
				2-BC	5993	0	0	1	64	6308	0	0	1	67	6392	0	0	1	69
				3	11225	1	0	2	119	11815	2	0	2	126	11974	2	0	2	127
				3-BC	6273	0	0	2	67	6603	0	0	2	70	6691	0	0	2	72
				4	11311	1	0	2	120	11906	1	0	3	127	12065	1	0	3	128
				4-BC	7291	0	0	2	78	7674	0	0	2	82	7777	0	0	2	84
				4W	11203	2	0	3	119	11792	2	0	3	125	11950	2	0	3	127
				4W-BC	5603	0	0	2	60	5898	0	0	2	63	5977	0	0	2	65
				5R	11623	3	0	3	124	12234	3	0	3	130	12398	3	0	3	131
				5QM	11770	3	0	2	125	12389	3	0	2	132	12555	3	0	2	133
				5QN	11799	3	0	0	126	12420	3	0	0	132	12586	3	0	0	133
			5W	11594	4	0	2	123	12204	4	0	2	130	12367	4	0	2	131	
			Clear Lens	FR	11029	1	0	1	117	11609	1	0	1	124	11765	1	0	1	125
				2	10485	2	0	2	112	11036	2	0	2	117	11184	2	0	2	119
				3	10555	1	0	2	112	11110	1	0	2	118	11259	1	0	2	120
				4	10579	1	0	2	113	11136	1	0	2	118	11285	1	0	2	120
				4W	10479	1	0	3	111	11029	2	0	3	117	11177	2	0	3	119
				5R	10871	3	0	3	116	11443	3	0	3	122	11596	3	0	3	123
				5QM	11009	3	0	2	117	11588	3	0	2	123	11743	3	0	2	125
				5QN	11036	3	0	0	117	11616	3	0	0	124	11772	3	0	0	125
			5W	10845	4	0	2	115	11415	4	0	2	121	11568	4	0	2	123	
			HDL Lens	3	8736	2	0	2	93	9195	2	0	2	98	9318	2	0	2	100
				5W	9152	3	0	1	97	9633	3	0	1	102	9762	3	0	1	104

DELIVERED LUMENS (CONTINUED)

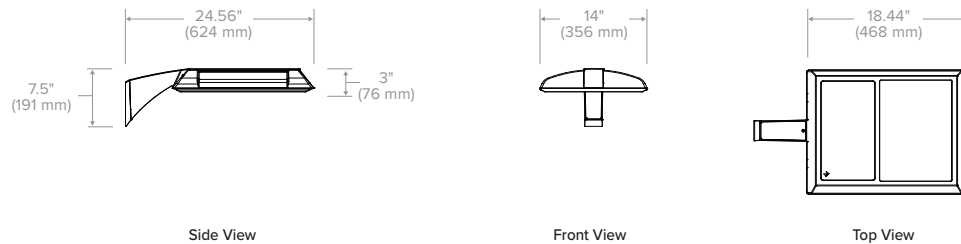
LEDs #	Nominal Watts	Nominal Lumens	Lens Options	Distribution	3000K 70CRI					4000K 70CRI					5000K 70CRI				
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G	
54L	120	15,000	No Lens	FR	14390	1	0	1	118	15146	1	0	1	124	15349	1	0	1	125
				FR-BC	9577	1	0	1	78	10080	1	0	1	83	10215	1	0	1	84
				2	13680	2	0	2	112	14399	2	0	2	118	14592	2	0	2	120
				2-BC	7313	0	0	1	60	7697	0	0	2	63	7800	0	0	2	64
				3	13698	2	0	3	112	14418	2	0	3	118	14611	2	0	3	120
				3-BC	7655	0	0	2	63	8057	0	0	2	66	8165	0	0	2	67
				4	13803	1	0	3	113	14528	1	0	3	119	14723	1	0	3	121
				4-BC	8897	0	0	2	73	9365	0	0	2	77	9490	0	0	2	78
				4W	13671	2	0	3	112	14390	2	0	3	118	14583	2	0	4	120
				4W-BC	6838	1	0	2	56	7197	1	0	2	59	7294	1	0	2	60
				5R	14184	4	0	4	116	14929	4	0	4	122	15129	4	0	4	124
				5QM	14363	3	0	2	118	15118	4	0	2	124	15321	4	0	2	126
				5QN	14399	4	0	4	118	15156	4	0	1	124	15359	4	0	1	126
			Clear Lens	5W	14149	4	0	2	116	14893	4	0	2	122	15092	4	0	2	124
				FR	13459	1	0	1	110	14167	1	0	1	116	14356	1	0	2	118
				2	12795	2	0	2	105	13468	2	0	2	110	13648	2	0	2	112
				3	12812	2	0	2	105	13486	2	0	2	111	13666	2	0	2	112
				4	12910	1	0	3	106	13589	1	0	3	111	13771	1	0	3	113
				4W	12787	2	0	3	105	13459	2	0	3	110	13640	2	0	3	112
				5R	13266	4	0	4	109	13964	4	0	4	114	14151	4	0	4	116
				5QM	13434	3	0	2	110	14140	3	0	2	116	14330	3	0	2	117
			HDL Lens	5QN	13467	4	0	0	110	14175	4	0	0	116	14365	4	0	0	118
				5W	13234	4	0	2	108	13929	4	0	2	114	14116	4	0	2	116
				3	10892	3	0	2	89	11464	3	0	2	94	11618	3	0	2	95
				5W	11250	3	0	1	92	11841	3	0	2	97	12000	3	0	2	98

DELIVERED LUMENS (CONTINUED)

LEDs #	Nominal Watts	Nominal Lumens	Lens Options	Distribution	3000K 70CRI					4000K 70CRI					5000K 70CRI				
					Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						B	U	G			B	U	G			B	U	G	
54L	155	17,500	No Lens	FR	17299	2	0	2	111	18208	2	0	2	117	18452	2	0	2	119
				FR-BC	11513	1	0	1	74	12118	1	0	1	78	12280	1	0	1	79
				2	16445	2	0	2	105	17310	2	0	3	111	17542	2	0	3	112
				2-BC	8791	0	0	2	56	9253	0	0	2	59	9377	0	0	2	60
				3	16467	2	0	3	106	17333	2	0	3	111	17565	2	0	3	113
				3-BC	9202	1	0	2	59	9686	1	0	2	62	9816	1	0	2	63
				4	16593	1	0	3	106	17465	1	0	3	112	17699	1	0	4	113
				4-BC	10696	0	0	2	69	11258	1	0	2	72	11409	1	0	2	73
				4W	16435	2	0	4	105	17299	2	0	4	111	17531	2	0	4	112
				4W-BC	8220	1	0	2	53	8652	1	0	2	55	8768	1	0	2	56
				5R	17051	4	0	4	109	17947	4	0	4	115	18188	4	0	4	117
				5QM	17267	4	0	2	111	18174	4	0	2	117	18418	4	0	2	118
				5QN	17309	4	0	1	111	18219	4	0	1	117	18463	4	0	1	118
			Clear Lens	5W	17009	4	0	2	109	17903	4	0	2	115	18143	4	0	2	116
				FR	16180	1	0	2	104	17030	1	0	2	109	17258	1	0	2	111
				2	15382	2	0	2	99	16190	2	0	2	104	16407	2	0	2	105
				3	15402	2	0	3	99	16212	2	0	3	104	16429	2	0	3	105
				4	15520	1	0	3	99	16336	1	0	3	105	16555	1	0	3	106
				4W	15372	2	0	4	99	16180	2	0	4	104	16397	2	0	4	105
				5R	15948	4	0	4	102	16787	4	0	4	108	17011	4	0	4	109
				5QM	16150	4	0	2	104	16999	4	0	2	109	17227	4	0	2	110
			HDL Lens	5QN	16190	4	0	1	104	17041	4	0	1	109	17269	4	0	1	111
				5W	15909	4	0	2	102	16745	4	0	2	107	16969	4	0	2	109
				3	13093	3	0	2	84	13782	3	0	2	88	13966	3	0	2	90
				5W	13524	3	0	2	87	14235	3	0	2	91	14426	3	0	2	92

CRI Lumen Multiplier			Amber Multiplier	
CCT	80 CRI	90 CRI	CCT	Multiplier
3000K	0.9119	0.7033	5000K	1
4000K	0.8941	N/A	AM	0.1727

DIMENSIONS



PHOTOMETRY

ALT1-54L-155-4k7-FR

LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	18208
Watts	156
Efficacy	116.7
IES Type	I
BUG Rating	B2-U0-G2
Mounting Height	30 ft
Grid Scale	30 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	16101	88.4%
Downward House Side	2107	11.6%
Downward Total	18208	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	18208	100%

ALT1-54L-155-4k7-2

LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	17309
Watts	156
Efficacy	111.0
IES Type	II
BUG Rating	B2-U0-G3
Mounting Height	30 ft
Grid Scale	30 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	14323	82.7%
Downward House Side	2986	17.3%
Downward Total	17309	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	17309	100%

ALT1-54L-155-4k7-3

LUMINAIRE DATA

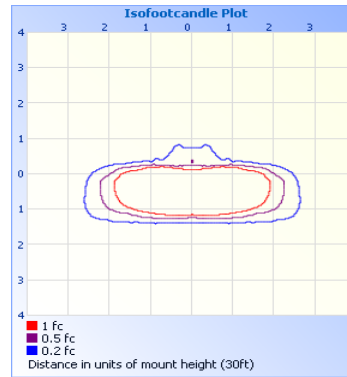
Description	4000K, 70CRI
Delivered Lumens	17332
Watts	156
Efficacy	111.1
IES Type	III
BUG Rating	B2-U0-G3
Mounting Height	30 ft
Grid Scale	30 ft

ZONAL LUMEN SUMMARY

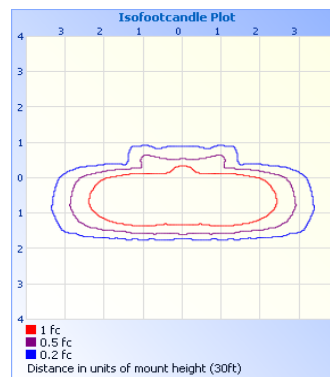
Zone	Lumens	% Luminaire
Downward Street Side	14911	86.0%
Downward House Side	2421	14.0%
Downward Total	17332	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	17332	100%

DATE: _____ LOCATION: _____
 TYPE: _____ PROJECT: _____
 CATALOG #: _____

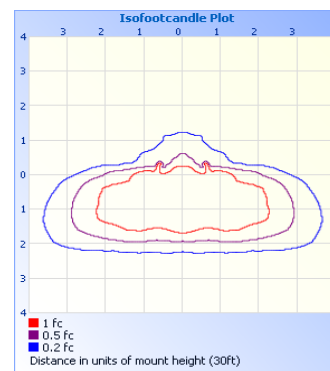
ISOFOOT CANDLE PLOT



ISOFOOT CANDLE PLOT



ISOFOOT CANDLE PLOT



DATE: _____ LOCATION: _____
 TYPE: _____ PROJECT: _____
 CATALOG #: _____

PHOTOMETRY

ALT1-54L-155-4k7-4

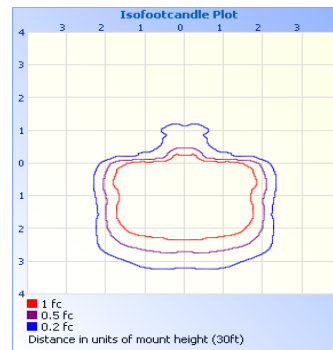
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	17465
Watts	156
Efficacy	112.0
IES Type	IV
BUG Rating	B1-U0-G3
Mounting Height	30 ft
Grid Scale	30 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	15757	90.2%
Downward House Side	1708	9.8%
Downward Total	17465	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	17465	100%

ISOFOOT CANDLE PLOT



ALT1-54L-155-4k7-4W

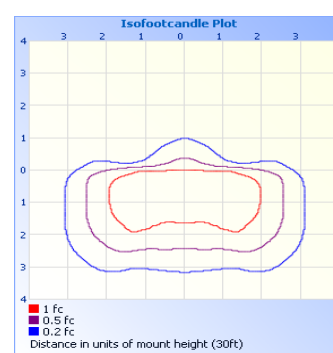
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	17299
Watts	156
Efficacy	110.9
IES Type	IV
BUG Rating	B2-U0-G4
Mounting Height	30 ft
Grid Scale	30 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	15320	88.6%
Downward House Side	1979	11.4%
Downward Total	17299	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	17299	100%

ISOFOOT CANDLE PLOT



ALT1-54L-155-4k7-5R

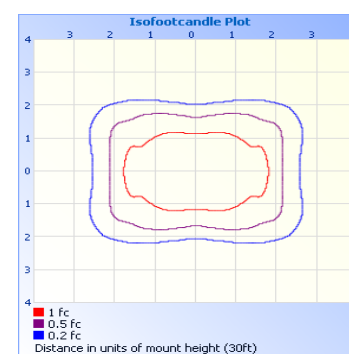
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	17947
Watts	156
Efficacy	115.0
IES Type	III
BUG Rating	B4-U0-G4
Mounting Height	30 ft
Grid Scale	30 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	8974	50.0%
Downward House Side	8974	50.0%
Downward Total	17947	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	17947	100%

ISOFOOT CANDLE PLOT



PHOTOMETRY

ALT1-54L-155-4k7-5QM

LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	18173
Watts	156
Efficacy	116.5
IES Type	V
BUG Rating	B4-U0-G2
Mounting Height	30 ft
Grid Scale	30 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	9087	50.0%
Downward House Side	9087	50.0%
Downward Total	18173	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	18173	100%

ALT1-54L-155-4k7-5QN

LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	18219
Watts	156
Efficacy	116.8
IES Type	V
BUG Rating	B4-U0-G1
Mounting Height	30 ft
Grid Scale	30 ft

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	9110	50.0%
Downward House Side	9110	50.0%
Downward Total	18219	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	18219	100%

ALT1-54L-155-4k7-5W

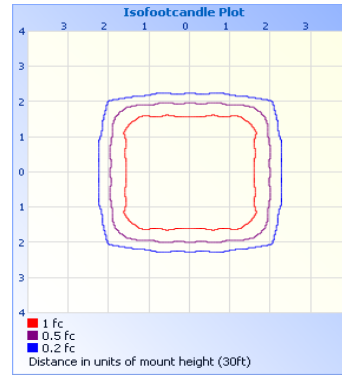
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	17904
Watts	156
Efficacy	114.8
IES Type	V
BUG Rating	B4-U0-G2
Mounting Height	30 ft
Grid Scale	30 ft

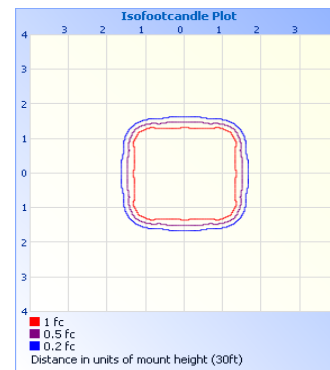
ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	8952	50.0%
Downward House Side	8952	50.0%
Downward Total	17904	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	17904	100%

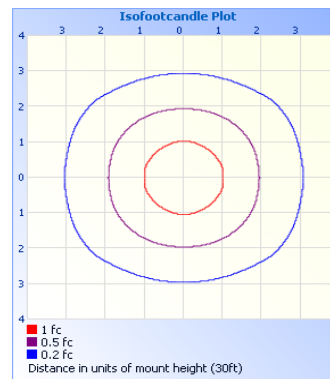
ISOFOOT CANDLE PLOT



ISOFOOT CANDLE PLOT

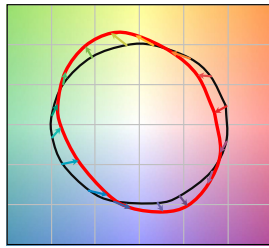


ISOFOOT CANDLE PLOT



TM-30 DATA

COLOR VECTOR GRAPHIC

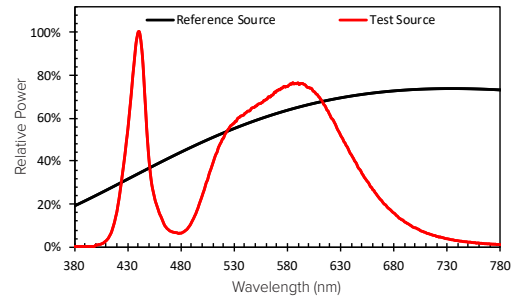


— Reference Illuminant — Test Source

TEST SOURCE

R _t	68
R _a	99
CCT(K)	3947
D _{uv}	0.0004
x	0.3831
y	0.3793
CIE R _a	72

SPECTRAL POWER DISTRIBUTION COMPARISON



ELECTRICAL DATA

# LED	System Watts	Drive Current	Line Voltage		Electrical								Min. Power Factor	Max THD (%)	Dimming Range	Dimming			
					Amps AC						Source current out of 0-10V					Absolute voltage range on 0-10V (+)			
			VAC	Hz	120	208	240	277	347	480	Min	Max				Min	Max		
28	22	250 mA	120-480	50/60	0.18	0.11	0.09	0.08	0.06	0.05	>0.9	20	10% to 100%	0mA	1mA	0V	10V		
	38	400 mA			0.32	0.18	0.16	0.14	0.11	0.08									
	60	650 mA			0.50	0.29	0.25	0.22	0.17	0.13									
	86	950 mA			0.72	0.41	0.36	0.31	0.25	0.18									
54	94	550 mA	120-480	50/60	0.78	0.45	0.39	0.34	0.27	0.20	>0.9	20	10% to 100%	0mA	1mA	0V	10V		
	122	700 mA			1	0.59	0.51	0.44	0.35	0.25									
	156	900 mA			1.30	0.75	0.65	0.56	0.45	0.33									

TM-21 Lifetime Calculation - Projected Lumen Maintenance (25°C / 77°C)						
Hours	0	25,000	36,000	50,000	100,000	Reported L70
Projected Lumen Maintenance	100%	96.9%	95.3%	93.3%	86.6%	> 60,000

PEDESTRIAN LIGHT POLE

KIMLIGHTING

PRA
Round Aluminum Non-Tapered Pole
kl_pra_spec.pdf

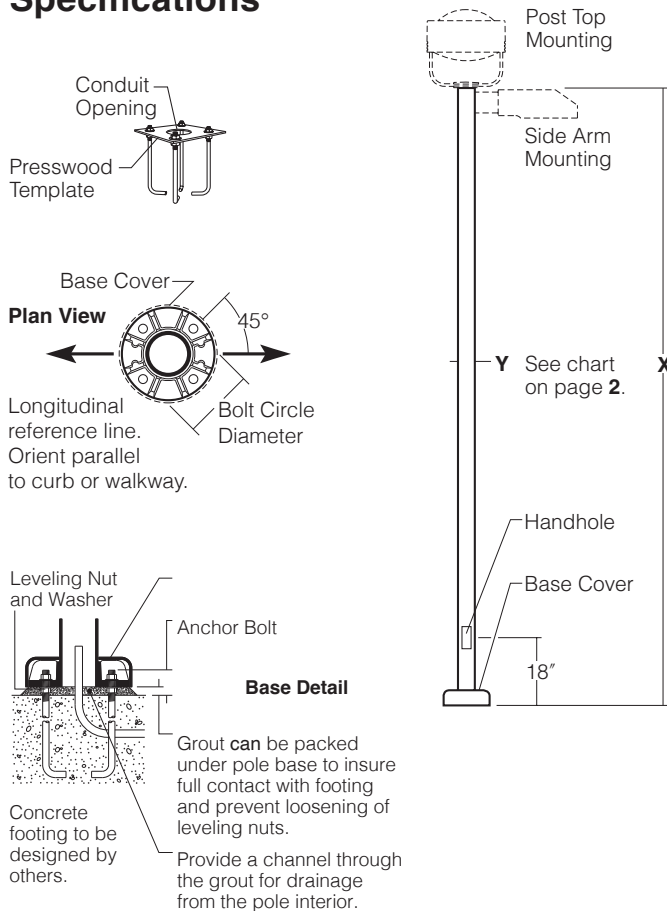
Type:
Job:
Catalog number:

Approvals:

Pole	Mounting	Structural Luminaire Option	Finish	Optional Hinged Base	Optional Duplex Receptacle
See page 2	See page 3	See page 3	See page 4	See page 4	See page 4

Date:
Page: 1 of 5

Specifications



Pole Construction: Seamless round extruded aluminum tube of alloy 6061-T6, welded to top and bottom of aluminum base casting of alloy 356.

Base Cover: Base has a two-piece cast aluminum full cover of 319 alloy, secured by stainless steel screws.

Pole Cap: A flush-sided cast aluminum pole cap is provided for side arm mounted luminaires.

Handhole: 18" up from base, with a gasketed cover and ground lug.

Anchor Bolts: Four galvanized anchor bolts provided, complete with eight nuts, eight flat washers, and a presswood template.

Vibration Dampener: All poles 25' and above include an internally mounted, factory installed pendulum vibration dampener, with flush stainless steel socket head fasteners finished to match pole.

Strength: Poles will withstand wind loads as listed in chart (See page 2) when luminaires are mounted per fixture installation instructions.

Finish: Durable thermoset polyester powder coat paint finish with nominal 3.0 mil thickness. Decorative finish coat available in multiple standard colors; Custom colors available, RAL number preferred.

CAUTION: Installation of poles without luminaire(s) will compromise pole strength. Any accessories attached to pole, or other modifications will compromise pole strength and may result in pole failure.

Maintenance: A regularly scheduled maintenance program must be established to insure the protective paint coating is intact, corrosion or structural damage has not occurred, and anchor bolt nuts are tight. Failure to do so could lead to pole collapse and serious personal injury.

Certification: Certified UL 1598 in accordance with Article 410 of ANSI/NFPA 70, National Electrical Code.

KIMLIGHTING

Kim Lighting • 17760 Rowland Street • Rowland Height, CA 91748 • Phone: 626-968-5666
Due to our continued efforts to improve our products, product specifications are subject to change without notice.
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HUBBELL
Outdoor Lighting

RUSHING

FIXTURE CUT SHEETS

Little Saigon Park
Seattle, WA
Fixture Type: **E1(A)**

Note: This Fixture Cut is for information only. Refer to Specs for all part numbers, lamps, finishes, etc.

Type:
Job:

Page: 2 of 5

Standard Features

NOTE: All allowable pole and fixture EPAs are derived from the AASHTO standard. Responsibility lies with the specifier for correct pole selection based on local codes and standards for the job location. (See page 4).

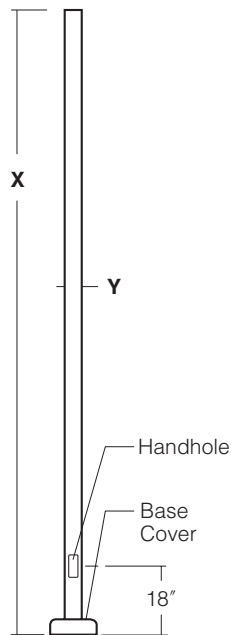
	Pole – Pole Catalog Number	X	Y									Wind Map Steady Wind	
				85	90	100	110	120	130	140	150		
	<input type="checkbox"/> PRA8-4125	8'	4" x .125	13.06	11.49	10.46	8.39	6.81	5.65	4.80	4.13		
	<input type="checkbox"/> PRA8-5125	8'	5" x .125	21.29	18.79	17.15	14.05	11.72	9.92	8.49	7.34		
	<input type="checkbox"/> PRA10-4125	10'	4" x .125	9.78	8.53	9.09	7.01	5.42	4.30	3.58	3.01		
	<input type="checkbox"/> PRA10-5125	10'	5" x .125	16.21	14.21	12.90	10.51	8.72	7.34	6.25	5.38		
	<input type="checkbox"/> PRA12-4125	12'	4" x .125	7.48	6.44	5.75	4.37	3.32	2.59	2.14	1.78		
	<input type="checkbox"/> PRA12-5125	12'	5" x .125	12.67	11.00	9.91	8.01	6.60	5.51	4.66	3.99		
	<input type="checkbox"/> PRA12-6188	12'	6" x .188	32.89	29.22	27.04	22.20	18.53	15.69	13.44	11.64		
	<input type="checkbox"/> PRA14-4125	14'	4" x .125	5.73	4.84	4.25	3.06	2.16	1.57	1.24	0.98		
	<input type="checkbox"/> PRA14-4188	14'	4" x .188	10.56	9.14	8.21	6.34	4.92	3.91	3.26	2.74		
	<input type="checkbox"/> PRA14-5125	14'	5" x .125	10.01	8.58	7.64	6.10	4.98	4.11	3.44	2.91		
	<input type="checkbox"/> PRA14-5188	14'	5" x .188	17.90	15.62	14.12	11.46	9.48	7.95	6.75	5.79		
	<input type="checkbox"/> PRA14-6188	14'	6" x .188	27.19	24.11	22.37	18.31	15.24	12.87	11.00	9.49		
	<input type="checkbox"/> PRA16-4188	16'	4" x .188	8.55	7.31	6.50	4.86	3.62	2.76	2.25	1.85		
	<input type="checkbox"/> PRA16-5125	16'	5" x .125	7.90	6.65	5.83	4.57	3.67	2.98	2.45	2.03		
	<input type="checkbox"/> PRA16-5188	16'	5" x .188	14.80	12.81	11.50	9.26	7.61	6.34	5.34	4.55		
	<input type="checkbox"/> PRA16-6188	16'	6" x .188	22.77	20.16	18.75	15.29	12.69	10.68	9.09	7.82		
	<input type="checkbox"/> PRA20-4188	19.5'	4" x .188	5.33	4.37	3.74	2.48	1.52	0.91	0.63	0.42		
	<input type="checkbox"/> PRA20-5125	19.5'	5" x .125	4.50	3.54	2.90	2.11	1.56	1.16	0.85	0.62		
	<input type="checkbox"/> PRA20-5188	19.5'	5" x .188	9.83	8.29	7.28	5.73	4.60	3.75	3.09	2.56		
	<input type="checkbox"/> PRA20-6188	19.5'	6" x .188	15.69	13.81	12.95	10.46	8.59	7.16	6.03	5.14		
	<input type="checkbox"/> PRA25-6188	25'	6" x .188	9.74	8.46	8.07	6.38	5.12	4.17	3.43	2.85		
	<input type="checkbox"/> PRA30-6188	30'	6" x .188	5.61	4.74	4.69	3.54	2.71	2.08	1.60	1.23		
	<input type="checkbox"/> PRA30-6250	30'	6" x .250	11.37	9.88	9.42	7.45	5.99	4.88	4.02	3.34		

Type:
Job:

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Standard Features

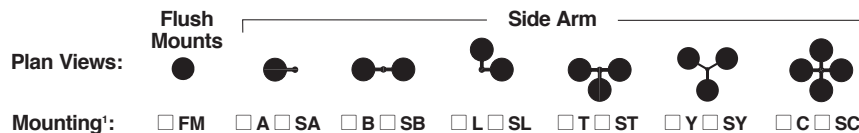
NOTE: All allowable pole and fixture EPAs are derived from the AASHTO standard. Responsibility lies with the specifier for correct pole selection based on local codes and standards for the job location. (See page 5).



Anchor Base and Bolt Detail\$

Pole Height	Pole Diameter	Bolt Circle Dia.	Anchor Bolt Projection	Anchor Bolts Size	Base Cover Size	Conduit Opening
8'-14'	4"	8 1/2"	3 1/4"	3/4" x 15" + 3"	11 7/8"	3" dia.
8'-14'	5"	8 1/2"	3 1/4"	3/4" x 30" + 4"	11 7/8"	3" dia.
12'	6"	10 1/2"	3 1/4"	3/4" x 30" + 4"	11 7/8"	3" dia.
14'	6"	10 1/2"	3 1/4"	3/4" x 30" + 4"	11 7/8"	3" dia.
16'-20'	4"-5"	8 1/2"	3 1/4"	3/4" x 30" + 4"	11 7/8 E"	3" dia.
16'-20'	6"	10 1/2"	3 3/8"	3/4" x 30" + 4"	14"	5" dia.
25'-30'	6"	10 1/2"	3 3/8"	3/4" x 30" + 4"	14"	5" dia.

Mounting



NOTE: Allowable Pole EPA for jobsite wind conditions must be equal to or greater than fixture mount EPA. Please refer to Kim luminaire catalog for specific fixture.
*See luminaire drilling requirements in luminaire catalog.

Structural Luminaires Only - Examples

- ☐ **TS:** Single Tension for small and large Structural - PRA20-5188SB-TS
- ☐ **TD:** Double Tension for small and large Structural - PRA20-5188B-TD
- ☐ **TR:** Truss for small and large Structural - PRA20-5188SB-TR
- ☐ **XTS:** Single Tension for 1000W Structural - PRA20-5188B-XTS
- ☐ **XTD:** Double Tension for 1000W Structural - PRA20-5188B-XTD
- ☐ **XTR:** Truss for 1000W Structural - PRA20-5188B-XTR

Type:
Job:

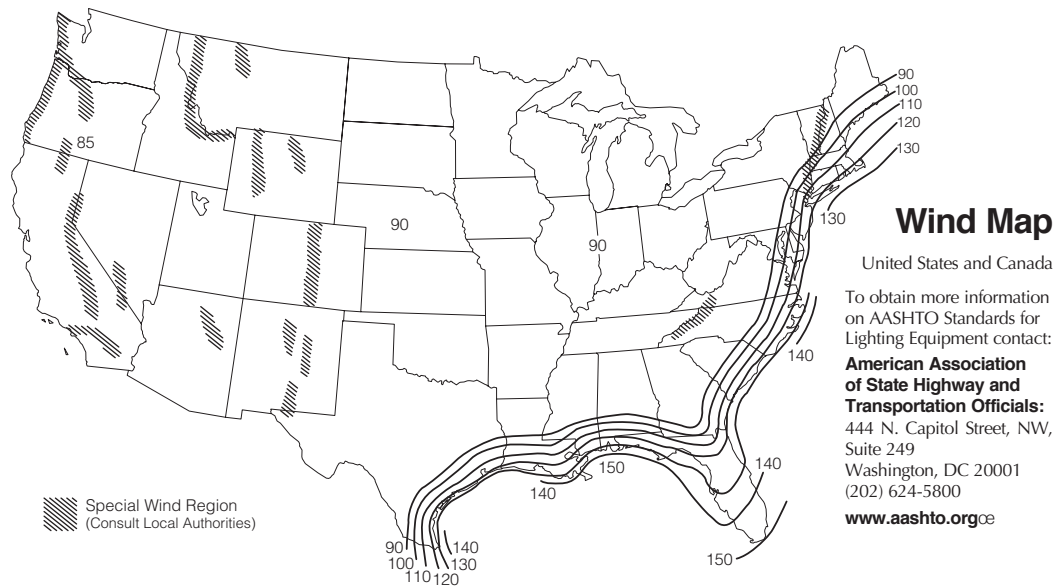
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Standard and Optional Features

Finish TGIC powder coat paint over a titanated zirconium conversion coating.	Color: Black Dark Bronze Light Gray Graphite Platinum Silver Titanium White Custom Color ¹ Cat. No.: <input type="checkbox"/> BL <input type="checkbox"/> DB <input type="checkbox"/> LG <input type="checkbox"/> GT <input type="checkbox"/> PS <input type="checkbox"/> <input type="checkbox"/> TT <input type="checkbox"/> WH <input type="checkbox"/> CC ¹ Custom color subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color description: _____
Optional Hinged Base Cat. No. <input type="checkbox"/> HB-X1 <input type="checkbox"/> HB-X2 <input type="checkbox"/> HB-Y1 <input type="checkbox"/> HB-Y2 <input type="checkbox"/> No Option	<p>Optional hinged base available for FM, A, and B mount poles up to 14 feet only. The use of hinged bases requires some pre-planning so poles hinge in the right direction, as dictated by the surrounding environment.</p> <div data-bbox="1055 682 1299 976"> </div> <p>NOTE: For FM mount, use HB-X1 base.</p>
Optional Duplex Receptacle Cat. No. <input type="checkbox"/> DR <input type="checkbox"/> DR-GFI <input type="checkbox"/> No Option	<p>Mounted opposite the handhole, at 22^{8"} from base of pole, in a cast aluminum box that is internally welded and sealed with a gasketed self-closing cover and locking bracket.</p> <p>Duplex Receptacle (DR) rated 20A., 125V.</p> <p>Duplex Receptacle with Ground Fault Circuit Interrupter (DR-GFI) rated 20A., 125V.</p>

Type:
Job:

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NOTES:

- Values are based on 50 year mean recurrence interval 30' above grade.
- Hawaii has an **105 mph** wind velocity.
- Puerto Rico has a **125 mph** wind velocity.
- Caution must be exercised in determining wind velocities in special wind areas such as:
 - Mountainous Regions
 - Areas surrounding the Great Lakes or other large bodies of water or open land.
 - Areas subject to extreme wind conditions, such as hurricanes, typhoons, cyclones, and tornadoes.
 - Areas adjacent to airports.
 - Any specific area with a known or suspected abnormally high intermittent wind condition caused by geography, adjacent structures, or other specific local conditions that may not be recorded in National Weather Service records.
- Allowable pole EPA for jobsite wind conditions must be equal to or greater than fixture EPA. Responsibility lies with the specifier for correct pole selection based on AASHTO wind map and job location.
- The Wind Map is intended only as a general guide. Always consult local authorities to determine maximum wind velocities, gusting and unique wind conditions for each specific application.
- **CAUTION:** Wind speeds and listed EPAs are for ground mounted installations. Poles mounted on structures (such as bridges and buildings) must consider vibration and coefficient of height factors beyond this general guide. Consult AASHTO standards.
- Extreme Wind Events: Hurricanes, Typhoons, Cyclones, or Tornadoes expose poles to flying debris, wind shear, and other unpredictable aerodynamic forces not indicated by the wind velocity ratings.
- Pole Strength Limited Warranty: Standard, unmodified Kim lighting Poles installed as recommended, undamaged by corrosion, or lack of maintenance, shall withstand steady wind conditions as provided on page 2 (Allowable Pole EPA). Installation of poles without luminaires, or attachment of any unauthorized accessories to poles shall void this warranty.