

GOLDEN CORRAL

South 5th St. & West Layton Avenue Milwaukee, WI

Plant Portfolio for BOZA and Plan Commission Submittal

February 2nd 2017



11525 W. North Ave. Suite 1b Wauwatoasa, WI 53226 (414)-476-1204 email: mdavis@insitelandscape.com www.insitelandscape.com



Plan Reference Tag: AcpaRD

RED DRAGON JAPANESE MAPLE *Acer palmatum var. dissectum ' Red dragon'*



Description:

Prized for its laceleaf foliage and form with Low-branching, dwarf tree with delicate weeping effect. Leaves emerge bright cherry red in spring, mature to burgundy red in summer before finally changing to crimson red in fall. Well-suited for use as a small lawn tree or on patios and entryways. Filtered sun. Moderate grower to 6 -8 feet tall and 6 -8 feet wide.

Flowering:

Flower or Bloom description: Inconspicuous Flower Color: Purple Flowering Time/Season: Insignificant flowers in spring

Growth Conditions:

Growth Rate: Slow Growing Growth Habit: Weeping Heat Zones: High: 8 (>90 to 120 days) Low: 2 (1 to 7 days) Cold Hardiness: High: 8 (10 to 20 F) Low: 5 (-20 to -10 F) Water Requirements: Water regularly, when top 3 in. of soil is dry Sun Exposure: Full to partial sun Filtered sun

Care Instructions:

Follow a regular watering schedule during the first growing season to establish a deep, extensive root system. Watering can be reduced after establishment. Feed with a general purpose fertilizer before new growth begins in spring



Plan Reference label: AcruBW

BRANDYWINE RED MAPLE Acer rubrum 'Brandywine'



Description:

Brandywine has emerald green leaves in summer and bright enduring fall color that begins red and gradually turns brilliant purple red that persists longer than many rubrums, extremely showy. Full sun. An excellent Urban tree that is a seedless male with proven performance. Size: Moderate-growing to 25 to 30 feet high, 12 to 15 feet wide.

Flowering:

Flower or Bloom description: Tiny but conspicuous Flower Color: Red Flowering Time/Season: Spring

Growth Conditions:

Growth Rate: Moderate Growing Growth Habit: Round Heat Zones: High: 9 (>120 to 150 days) Low: 1 (< 1 days) Cold Hardiness: High: 8 (10 to 20 F) Low: 4 (-30 to -20 F) Water Requirements: Water regularly, when top 3 in. of soil is dry Sun Exposure: Full sun

Care Instructions:

Follow a regular watering schedule during the first growing season to establish a deep, extensive root system. Watering can be reduced after establishment. Feed with a general purpose fertilizer before new growth begins in spring.



Plan Reference Tag: BeniC

Heritage River Birch Multi Betula nigra 'Cully'





Description:

A beautiful, multi-stemmed shrubby new birch tree. An outstanding winter specimen when uniquely textured, colorful, peeling bark. Exceptional subject for night lighting. Thrives in problematic low wet soils and high water table. Deciduous tree that will grow to 20 feet tall, 10-20 feet wide.

Flowering:

Flower or Bloom description: Inconspicuous Flower Color: Yellow Flowering Time/Season: Spring

Growth Conditions:

Growth Rate: Fast Growth Habit: Pyramidal Heat Zones: High: 9 (>120 to 150 days) Low: 1 (< 1 days) Cold Hardiness: High: 7 (0 to 10 F) Low: 3 (-40 to -30 F) Water Requirements: Needs wet or constantly moist soil Sun Exposure: Full sun

Care Instructions:

Follow a regular watering schedule during the first growing season to establish a deep, extensive root system. Watering can be reduced after establishment. Feed with a general purpose fertilizer before new growth begins in spring.



Plan Reference Tag: GibiPS

PRINCETON SENTRY MAIDENHAIR TREE Ginkgo biloba 'Princeton Sentry'



Description:

This superb deciduous conifer shade tree is a male non-fruiting selection that grows naturally narrow, with an upright, narrowly conical habit. Easily grown in average, medium moisture soil in full sun, branches don't droop and resist breakage. Has fragrant flower. Unique fan-shaped foliage turns golden yellow in fall. It tolerates deer, clay soil, air pollution & thrives in a wide range of soils, tolerant of urban stresses. Full sun. Moderate-growing to 40 to 50 feet high and 20 to 30 in width.

Flowering:

Flower or Bloom description: Catkin like, pendulous Flower Color: Yellow Flowering Time/Season: Flowers are inconspicuous.

Growth Conditions:

Growth Rate: Moderate Growing Growth Habit: Spreading Heat Zones: High: 9 (>120 to 150 days) Low: 3 (>7 to 14 days) Cold Hardiness: High: 8 (10 to 20 F) Low: 3 (-40 to -30 F) Water Requirements: Water regularly, when top 3 in. of soil is dry Sun Exposure: Full sun

Care Instructions:

Follow a regular watering schedule during the first growing season to establish a deep, extensive root system. Watering can be reduced after establishment. Feed with a general purpose fertilizer before new growth begins in spring



Plan Reference Tag: MaM

MARILEE CRABAPPLE Malus x 'Jarmin'



Description:

An upright, narrow form ornamental tree with pink buds open to unusually large, white, double blooms. Unique for its stiffly upright, narrow form and virtually fruitless nature, it is an excellent choice for courtyard settings and streetscapes, and for use near utility lines. Full sun. Densely branched rounded crown to 24' feet tall & 10' wide.

Flowering:

Flower or Bloom description: Cup Shaped Flower Color: White Flowering Time/Season: A vase shaped canopy of white flowers in spring

Growth Conditions:

Growth Rate: Moderate growth Growth Habit: Upright / Vase shaped Heat Zones: High: 8 (>90 to 120 days) Low: 1 (< 1 days) Cold Hardiness: High: 8 (10 to 20 F) Low: 4 (-30 to -20 F) Water Requirements: Water regularly, when top 3 in. of soil is dry Sun Exposure: Full sun

Care Instructions:

Follow a regular watering schedule during the first growing season to establish a deep, extensive root system. Watering can be reduced after establishment. Feed with a general purpose fertilizer before new growth begins in spring.



Plan Reference Tag: PycaC

Chanticleer Flowering Pear Pyrus calleryana 'Chanticleer'



Description:

Exquisite flowering broadleaf deciduous tree that displays a dazzling profusion of white flowers in early spring. Narrow, pyramidal form is coated with dark green summer foliage turning brilliant reddish-purple in fall. Ideal specimen tree for areas with limited space growing to 30 to 35 ft. tall and 15 ft. wide.

Flowering:

Flower or Bloom description: Clusters of blooms Flower Color: White Flowering Time/Season: Spring

Growth Conditions:

Growth Rate: Moderate Growth Habit: Pyramidal Heat Zones: High: 9 (>120 to 150 days) Low: 1 (< 1 days) Cold Hardiness: High: 9 (20 to 30 F) Low: 5 (-20 to -10 F) Water Requirements: Needs regular watering - weekly, or more often in extreme heat, can be reduced after establishment

Sun Exposure: Full Sun

Care Instructions:

Follow a regular watering schedule during the first growing season to establish a deep, extensive root system. Watering may be reduced after establishment. Feed with a general purpose fertilizer before new growth begins in spring.



Plan Reference Tag: QuroS

SKYMASTER ENGLISH OAK Quercus robur 'Skymaster'



Description:

A stately specimen with heavy broad branches noted for its unique shape. Narrow when young, it matures to a symmetrical, pyramidal shape. A strong central leader, wide crotch angles and excellent lateral branch development are among the characteristics that make it a distinctive street tree. Deciduous. Full sun. Moderate grower to 50'-0" tall and to 25'-0" wide. Dark green in summer; brown to yellowish in fall.

Flowering:

Flower or Bloom description: Inconspicuous Flower Color: No Value Flowering Time/Season: Insignificant spring flowers

Growth Conditions:

Growth Rate: Moderate Growth Habit: Upright and pyramidal Heat Zones: High: 8 (>90 to 120 days) Low: 3 (>7 to 14 days) Cold Hardiness: High: 8 (20 to 30 F) Low: 4 (-30 to -20 F) Water Requirements: Water regularly, when top 3 in. of soil is dry Sun Exposure: Full to partial sun

Care Instructions:

Follow a regular watering schedule during the first growing season to establish a deep, extensive root system. Watering can be reduced after establishment. Feed with a general purpose fertilizer before new growth begins in spring



Plan Reference Tag: Syre

IVORY SILK JAPANESE TREE LILAC Syringa reticulata 'Ivory Silk'



Description:

An easy-care lilac which makes an excellent individual accent or street tree. Selected for its compact form and sturdiness. Displays large clusters of pure white blooms at an early age. Moderate-growing to 15 to 25 ft. tall, 10 to 15 ft. wide. Full sun. Deciduous.

Flowering:

Flower or Bloom description: May - June Flower Color: Creamy white Flowering Time/Season: Early June for a two week period

Growth Conditions:

Growth Rate: Moderate Growth Habit: Oval Heat Zones: High: 7 (>60 to 90 days) Low: 1 (< 1 days) Cold Hardiness: High: 9 (20 to 30 F) Low: 4 (-30 to -20 F) Water Requirements: Once established needs only occasional water. Sun Exposure: Full sun

Care Instructions:

Follow a regular watering schedule during the first growing season to establish a deep, extensive root system. Feed with a general purpose fertilizer before new growth begins in spring. Increase watering before spring bloom. Prune after flowering



Plan Reference Tag: CosaC

Arctic Sun Red Twig Dogwood Cornus sanguinea 'Cato'





Description:

This special smaller variety has beautiful yellow stems tipped with red providing a spectacular winter show. It was selected for its naturally compact stature with full branching. Stunning planted in containers or used in cut floral arrangements Use for naturalizing. Full to partial sun. Moderate grower to 3 to 4 feet high, and wide.

Flowering:

Flower or Bloom description: Clusters of star-shaped flowers Flower Color: White Flowering Time/Season: White flowers in late spring to summer

Growth Conditions:

Growth Rate: Moderate Growing Growth Habit: Round Heat Zones: High: 8 (>90 to 120 days) Low: 1 (< 1 days) Cold Hardiness: High: 9 (20 to 30 F) Low: 4 (-30 to -20 F) Water Requirements: Requires regular watering, weekly or more often in extreme heat Sun Exposure: Full to partial sun

Care Instructions:

Follow a regular watering schedule during the first growing season to establish a deep, extensive root system. Prefers moist, well-drained soil. Prune immediately after flowering. Fertilize in early spring with a controlled release fertilizer.



Plan Reference Tag: FogaBS

BLUE SHADOW WITCH ADLER Fothergilla major 'Blue Shadow'



Description:

Honey scented white flowers at the tips of branches filled with icy bluish-green leaves. Stunning fall colors of red, orange and yellow that lasts for weeks. Unique color that combines well in a mixed border. Deciduous. Partial to full sun. Slow-growing rounded form to 3 to 5 feet tall, spreading 4 to 5 feet wide.

Flowering:

Flower or Bloom description: Honey-scented white flowers in spring. Flower Color: White Flowering Time/Season: Spring.

Growth Conditions:

Growth Rate: Slow Growth Habit: Round Heat Zones: High: 9 (>120 to 150 days) Low: 1 (< 1 days) Cold Hardiness: High: 9 (20 to 30 F) Low: 4 (-30 to -20 F) Water Requirements: Needs regular watering - weekly, o

Water Requirements: Needs regular watering - weekly, or more often in extreme heat Sun Exposure: Full sun to partial shade

Care Instructions:

Follow a regular watering schedule during the first growing season to establish a deep, extensive root system. Watering can be reduced after establishment. Feed with a general purpose fertilizer before new growth begins in spring.



Plan Reference Tag: HypaB

Bobo Hardy Hydrangea *Hydrangea paniculata 'Bobo'*



Description:

A new dwarf hydrangea that is sure to turn heads! Reaching to just three feet tall, it will be engulfed by enormous creamy white flowers in summer, providing a nonstop show until frost. Blossoms are held upright on strong stems, and continue to grow and lengthen as they bloom. In fall, flowers may turn a pinkish hue. An undeniable asset to any garden, particularly where space is limited. Plan in part shade to full sun. Moderate growth 3' tall and 3' to 4' wide.

Flowering:

Flower or Bloom description: Globular flower heads have Flower Color: White flowers whose color changes light pink. Flowering Time/Season: Reblooms continuously in summer

Growth Conditions:

Growth Rate: Moderate Growth Habit: Mounded Heat Zones: High: 9 (>120 to 150 days) Low: 3 (>7 to 14 days) Cold Hardiness: High: 9 (20 to 30 F) Low: 3 (-40 to -30 F) Water Requirements: Water regularly, when top 3 in. of soil is dry Sun Exposure: Filtered to partial sun

Care Instructions:

Prefers moist, rich, loamy soil but adaptable to many soil types. Follow a regular watering schedule during the first growing season to develop a deep, extensive root system. Apply a controlled-release fertilizer in early spring. Blooms each year on new wood; prune in late winter or early spring



Plan Reference Tag: HypaL

Limelight Hardy Hydrangea Hydrangea paniculata 'Limelight'



Description:

An exciting hardy Hydrangea from Holland, 'Limelight' has unique bright chartreuse blooms in midsummer that hold bright and refreshing color right into autumn when the blooms change color to a rich deep pink. This is an easy to grow plant with reliable flowering and flower color regardless of soil pH. The flower heads are of good size, ranging from 6 to 12 inches and are held upright on the shrub or as a single stem tree form. An excellent cold hardy addition to dappled shade under tree canopies. Deciduous. Shade or part shade. Moderate growth 6' to 8' feet tall and as wide.

Flowering:

Flower or Bloom description: Globular flower heads have Flower Color: bright chartreuse flowers whose color changes before rich deep pink. Flowering Time/Season: Reblooms continuously in summer

Growth Conditions:

Growth Rate: Moderate Growth Habit: Mounded Heat Zones: High: 9 (>120 to 150 days) Low: 3 (>7 to 14 days) Cold Hardiness: High: 9 (20 to 30 F) Low: 3 (-40 to -30 F) Water Requirements: Water regularly, when top 3 in. of soil is dry Sun Exposure: Filtered to partial sun

Care Instructions:

Follow a regular watering schedule during the first growing season to establish a deep, extensive root system. Provide well-drained soil, rich in organic matter. Feed with an acid fertilizer before spring growth. Prune to shape after flowering



Plan Reference Tag: PhopTW

Tiny Wine Ninebark Physocarpus opulifolius 'Tiny Wine'



Description:

A full, dwarf variety with small, refined leaves. The dark bronze-maroon foliage is colorful all season and contrasts beautifully with soft pink and white flowers in late spring. The dainty flowers cover the stems, providing an exceptionally showy display. This durable shrub is perfect for season-long color in the landscape. Useful accent for small urban gardens or massed in a low maintenance landscape. Deciduous. Full sun. Moderate-growing to 3 to 4 feet high, equal width.

Flowering:

Flower or Bloom description: Button-shaped Clusters Flower Color: Burgandy leaves / Pink flowers Flowering Time/Season: Summer

Growth Conditions:

Growth Rate: Moderate Growing Growth Habit: Fountain Heat Zones High: 7 (>60 to 90 days) Low: 1 (< 1 days) Cold Hardiness High: 8 (10 to 20 F) Low: 3 (-40 to -30 F) Water Requirements: Water regularly, when top 3 in. of soil is dry. Sun Exposure: Full sun

Care Instructions:

Tolerates most soil types. Follow a regular watering schedule during the first growing season to establish a deep, extensive root system. Watering can be reduced after establishment. Apply a controlled release fertilizer before new growth begins in spring..



FLOWER CARPET AMBER GROUND COVER ROSE Rosa x 'Noa'



Description:

Easy care ground cover shrub that with soft red buds that emerge a profusion of semidouble peachy amber flowers, fading to seashell pink blooming spring through fall flowers up to 10 months in warmer climates. Blossoms are fragrant Excellent heat and humidity tolerance Glossy, dark green foliage is resistant to mildew and black spot. Ideal in borders, pots, and hanging baskets. Fast growing, spreading shrub 30" tall & wide. Full sun. Deciduous

Flowering:

Flower Color: Peachy / Amber Flowering Time/Season: Spring through fall.

Growth Conditions:

Growth Rate: Fast Growing Growth Habit: Spreading Heat Zones High: 9 (>120 to 150 days) Low: 4 (>14 to 30 days) Cold Hardiness High: 10 (30 to 40 F) Low: 4 (-30 to -20 F) Water Requirements: Water regularly, when top 3 in. of soil is dry. Sun Exposure: Full to partial sun

Care Instructions:

Water regularly to establish an extensive root system. Protect from extreme cold over first winter. As a ground cover, space plants 3 ft. apart. Feed with a timed-release rose food. Prune to shape in early spring - no fancy pruning is necessary.



Plan Reference Tag: SpjaT

DOUBLE PLAY BIG BANG SPIREA Spiraea japonica 'Tracy'



Description:

With its dazzling display of colorful foliage and flowers, this fantastic selection provides beauty in the landscape from spring through fall! Emerging spring foliage glows orange, transitions to deep yellow all summer long, returning to rich golden orange in autumn. Massive pink flowers are the largest we've ever seen on a Spiraea. Easy care shrub for borders, perennial beds, or massed to provide outstanding color. Deciduous shrub. Full sun. Medium to fast growth to 2 feet – 3 feet tall and wide.

Flowering:

Flower or Bloom description: Profuse pink clusters Flower Color: Pink flowers / Yellow /orange foliage Flowering Time/Season: Pinkish-purple flowers in spring.

Growth Conditions:

Growth Rate: Moderate Growth Habit: Spreading Heat Zones: High: 9 (>120 to 150 days) Low: 1 (< 1 days) Cold Hardiness: High: 9 (10 to 20 F) Low: 4 (-30 to -20 F) Water Requirements: Needs regular watering - weekly, or more often in extreme heat Sun Exposure: Full sun

Care Instructions:

Follow a regular watering schedule during the first growing season to establish a deep, extensive root system. Feed with a general purpose fertilizer before new growth begins in spring. For a tidy, neat appearance, shear annually to shape.



Plan Reference Tag: VicaSI

SPICE ISLAND KOREANSPICE VIBURNUM Viburnum carlesii 'J N Select A'



Description:

Potent spicy scented flowers with better branching than previous carlesii cultivates. Blooms in midspring with softball sized clusters of waxy pink flowers that fade to white. Bright red bunches of quarter-inch berries appear in late summer, maturing to black in fall. These stand out from the downy muted green foliage. Foliage color brightens to striking red and rich burgundy in Autumn. A natural in the traditional shrub border or back of perennial beds. Use as foundation plant near windows so fragrance comes inside. Great against long fence lines. Deciduous shrub. Full sun to part shade in south. Slow growing to 5 feet tall and 6 feet wide.

Flowering:

Flower or Bloom description: Clusters of waxy pink flowers that fade to white Flower Color: White Flowering Time/Season: Spring

Growth Conditions:

Growth Rate: Slow Growing Growth Habit: Bushy Heat Zones: High: 8 (>90 to 120 days) Low: 1 (< 1 days) Cold Hardiness: High: 8 (10 to 20 F) Low: 4 (-30 to -20 F) Water Requirements: Water regularly, when top 3 in. of soil is dry Sun Exposure: Full to partial sun

Care Instructions:

Follow a regular watering schedule during the first growing season to establish a deep, extensive root system. Watering can be reduced after establishment. Feed with a general purpose fertilizer before new growth begins in spring.



Plan Reference Tag: WefISB

Sonic Bloom Pink Reblooming Weigela Weigela florida *'Bokrasopin'*



Description:

Create an explosion of color with this fantastic new re-blooming selection. Loads of hot pink flowers in spring are followed by waves of blooms until frost! Mounded growth habit with deep green, deer resistant foliage. Reblooms without deadheading, providing season-long color in foundation plantings and borders. Attracts hummingbirds. Deciduous shrub to be planted in full sun. Moderate grower 4 to 5 feet tall and wide.

Flowering:

Flower or Bloom description: Large vase shaped flowers Flower Color: Hot-pink Flowering Time/Season: Spring and late summer to hard frost

Growth Conditions:

Growth Rate: Moderate Growth Habit: Compact spreading Heat Zones: High: 9 (>120 to 150 days) Low: 1 (< 1 days) Cold Hardiness: High: 8 (10 to 20 F) Low: 4 (-30 to -20 F) Water Requirements: Needs regular watering - weekly, or more often in extreme heat Sun Exposure: Full Sun

Care Instructions:

Follow a regular watering schedule during the first growing season to establish an extensive root system. Feed regularly during the growing season with a general purpose fertilizer. Prune annually in late winter to promote vigorous new growth.



Plan Reference Tag: JucoGC

GOLD CONE JUNIPER Juniperus communis 'Gold Cone'



Description:

An upright, narrow, columnar, evergreen shrub which features golden new growth foliage. Awlshaped new growth foliage emerges bright gold in spring with good color retention throughout the summer and early fall. Golden foliage gradually fades to bluish-green in winter. Evergreen. Full sun to part shade. Slow grower to 60 inches tall, 24 inches wide.

Flowering:

Flower or Bloom description: None Flower Color: No Value Flowering Time/Season: No noticeable flowers

Growth Conditions:

Growth Rate: Moderate Growing Growth Habit: Spreading Heat Zones: High: 7 (>60 to 90 days)8 (>90 to 120 days) Low: 1 (< 1 days) Cold Hardiness: High: 6 (-10 to 0 F) Low: 3 (-40 to -30 F) Water Requirements: Once established needs only occasional water.

Sun Exposure: Full sun to part shade

Care Instructions:

Follow a regular watering schedule during the first growing season to establish a deep, extensive root system. Watering can be reduced after establishment. Feed with a general purpose fertilizer before new growth begins in spring



Plan Reference Tag: JucoM

ALPINE CARPET JUNIPER Juniperus communis 'Mondap'



Description:

Besides extreme hardiness, this selection with soft-textured, deep blue-green foliage has a low dense spreading habit. It also withstands a wide variance in temperature and humidity. Excellent as a ground cover or for mass plantings. Evergreen. Full sun to part shade. Slow grower to 8 inches tall, 36 to 48 inches wide.

Flowering:

Flower or Bloom description: None Flower Color: No Value Flowering Time/Season: No noticeable flowers

Growth Conditions:

Growth Rate: Moderate Growing Growth Habit: Spreading Heat Zones: High: 7 (>60 to 90 days)8 (>90 to 120 days) Low: 1 (< 1 days) Cold Hardiness: High: 6 (-10 to 0 F) Low: 3 (-40 to -30 F) Water Requirements: Once established needs only occasional water. Sun Exposure: Full sun to part shade

Care Instructions:

Follow a regular watering schedule during the first growing season to establish a deep, extensive root system. Watering can be reduced after establishment. Feed with a general purpose fertilizer before new growth begins in spring



Plan Reference Tag: JupfSG

SEA OF GOLD JUNIPER Juniperus x pfitzeriana 'MonSan'



Description:

Even more outstanding golden color on lacy foliage than its Gold Coast parent on the same compact form makes this evergreen shrub an excellent choice as a colorful accent. Color is retained and deepens in winter better than other gold tipped varieties. Full sun. Moderate grower to 3 feet tall, 4 feet wide. Cutting grown

Flowering:

Flower or Bloom description: None Flower Color: No Value Flowering Time/Season: No noticeable flowers

Growth Conditions:

Growth Rate: Moderate Growing Heat Zones High: 9 (>120 to 150 days) Low: 1 (< 1 days) Cold Hardiness High: 9 (20 to 30 F) Low: 3 (-40 to -30 F) Water Requirements: Once established needs only occasional water. Sun Exposure: Full sun

Care Instructions:

Follow a regular watering schedule during the first growing season to establish a deep, extensive root system. Watering can be reduced after establishment. Feed with a general purpose fertilizer before new growth begins in spring.



Plan Reference Tag: TameDS

DENSE SPREADING YEW Taxus x media 'Densiformis Select'



Description:

Dense, low, spreading shrub is an excellent basic foundation planting for hedge, screen or border. Dark green foliage backs scarlet berries. Versatile and durable, tolerates shearing well. Evergreen. Full sun. Slow grower to 3 to 4 feet tall and 4 to 6 feet wide.

Flowering:

Flower or Bloom description: None Flower Color: No Value Flowering Time/Season: Inconspicuous flowers, dark red fruit.

Growth Conditions:

Growth Rate: Moderate Growing Growth Habit: Spreading Heat Zones: High: 7 (>60 to 90 days) Low: 1 (< 1 days) Cold Hardiness: High: 7 (0 to 10 F) Low: 4 (-30 to -20 F) Water Requirements: Water regularly, when top 3 in. of soil is dry Sun Exposure: Full to partial sun

Care Instructions:

Follow a regular watering schedule during the first growing season to establish a deep, extensive root system. Feed with a general purpose fertilizer before new growth begins in spring. For a tidy, neat appearance, shear annually to shape.



Plan Reference Tag: ThocB

MR. BOWLING BALL ARBORVITAE *Thuja occidentalis 'Bobazam'*



Description:

Dwarf, rounded shrub with dense foliage. Lacy, rich green leaf color is retained year-round. Useful as a low hedge or in foundation plantings. Especially useful in areas where space is limited in a spacially challenged garden area. Gently shear for perfect spheres or allow it to mature naturally into versatile oval shape. Evergreen. Full sun. Slow growing 24" to 30" tall and wide.

Flowering:

Flower or Bloom description: None Flower Color: None Flowering Time/Season: Insignificant flowers.

Growth Conditions:

Growth Rate: Slow growing Growth Habit: Round dwarf habit Heat Zones: High: 7 (>60 to 90 days) Low: 1 (< 1 days) Cold Hardiness: High: 8 (10 to 20 F) Low: 3 (-40 to -30 F) Water Requirements: Once established, needs only occasional watering. Sun Exposure: Full sun

Care Instructions:

Follow a regular watering schedule during the first growing season to establish a deep, extensive root system. Feed with a general purpose fertilizer before new growth begins in spring. For a tidy, neat appearance, gently shear annually to shape.



Plan Reference Tag: ThocH

HOLMSTRUP ARBORVITAE Thuja occidentalis 'Holmstrup'



Description:

Neat, formal appearance to densely branched narrow conical evergreen shrub. Effective landscape accent, windbreak or screen. Its rich green foliage covered form can create handsome framework for doorways or garden entries. Full sun. Slower grower to 5 to 7 feet tall, 2 to 3 feet wide, larger with age.

Flowering:

Flower or Bloom description: None Flower Color: None Flowering Time/Season: Insignificant flowers.

Growth Conditions:

Growth Rate: Fast growing Growth Habit: narrow pyramidal evergreen Heat Zones: High: 7 (>60 to 90 days) Low: 1 (< 1 days) Cold Hardiness: High: 8 (10 to 20 F) Low: 3 (-40 to -30 F) Water Requirements: Water regularly, when top 3 in. of soil is dry Sun Exposure: Full to partial sun

Care Instructions:

Follow a regular watering schedule during the first growing season to establish a deep, extensive root system. Feed with a general purpose fertilizer before new growth begins in spring. For a tidy,



Plan Reference Tag: DecaB

Bronze Veil Tufted Hair Grass Deschampsia caespitosa 'Bronzschleier'



Description:

One of the best ornamental grasses, it is grown for its huge, graceful flower stalks. It looks good even in winter, with flowering spikes on stout stems that often last into the season, and dense tufts of shiny, dark green leaves. Grows well in full sun and shade. Moderate growing herbaceous perennial that grows 2'-6" to 5'-0" tall & 2'-0" wide.

Flowering:

Flower or Bloom description: Feathery plumes Flower Color: Tones of green, purple, golden yellow, brown, and silver Flowering Time/Season: Summer through fall

Growth Conditions:

Growth Rate: Moderate Growing Growth Habit: Clumping Heat Zones: High: 9 (>120 to 150 days) Low: 1 (< 1 days) Cold Hardiness: High: 9 (20 to 30 F) Low: 4 (-30 to -20 F) Water Requirements: Water regularly, when top 3 in. of soil is dry Sun Exposure: Full sun to filtered sun

Care Instructions:



Plan Reference Tag: DecaNL

Northern Lights Tufted Hair Grass Deschampsia caespitosa 'Northern Lights'



Description:

Highly variegated green and creamy white leaves have a rosy pink blush when emerging in early spring and again as the weather cools. Flower stems rise from the foliage to a height of 3' in early summer bearing wide, airy panicles of tiny variably-colored flowers which form a cloud over the foliage that is particularly attractive when backlit. One of the few ornamental grasses that grows well in shade. Moderate growing herbaceous perennial that grows 1'-0" tall & wide.

Flowering:

Flower or Bloom description: Feathery plumes of Flower Color: Tones of gold, silver, purple and green Flowering Time/Season: Summer through Fall

Growth Conditions:

Growth Rate: Moderate Growing Growth Habit: Clumping Heat Zones: High: 9 (>120 to 150 days) Low: 1 (< 1 days) Cold Hardiness: High: 9 (20 to 30 F) Low: 4 (-30 to -20 F) Water Requirements: Water regularly, when top 3 in. of soil is dry Sun Exposure: Full sun to filtered sun

Care Instructions:



Plan Reference Tag: MisiP

Purple Silver Grass Miscanthus sinensis 'Purpurascens'



Description:

Bold color in three seasons makes this grass a highly variable accent for gardens.. Slightly graygreen blades in summer turn brilliant red-orange/ Purplish tinge intensifies with onset of fall. Attractive coloring lasting through the winter. Mauve-colored feathery plumes rise above the foliage. A focal point for borders and containers. Herbaceous and Compact, upright clumps 3 to 4 ft. tall and wide; flower stalks 5 to 6 ft. tall.

Flowering:

Flower or Bloom description: Wispy, feathery plumes Flower Color: Mauve Flowering Time/Season: Summer into Fall

Growth Conditions:

Growth Rate: Moderate Growth Habit: Upright Heat Zones: High: 9 (>120 to 150 days) Low: 1 (< 1 days) Cold Hardiness: High: 9 (20 to 30 F) Low: 4 (-30 to -20 F) Water Requirements: Needs regular watering - weekly, or more often in extreme heat but can be reduced once established

Sun Exposure: Part Sun to Full Sun

Care Instructions:



Plan reference tag: PaviDB

DALLAS BLUES SWITCH GRASS Panicum virgatum 'Dallas Blues'



Description:

Wide, erect blades are powder blue during the season provide an excellent backdrop for the stunning reddish-purple plumes that rise above the foliage are beautiful as cut flowers. Quite handsome when used in groups. Herbaceous. Full to partial sun. Clumps to 5 ft. tall, 5 ft. wide

Growth Conditions:

Growth Rate: Fast Growing Growth Habit: Clumping Heat Zones High: 9 (>120 to 150 days) Low: 1 (>1 days) Cold Hardiness High: 9 (20 to 30 F) 4 (-30 to -20 F) Low: Water Requirements: Once established needs only occasional water. Sun Exposure: Full sun

Flowering:

Flower or Bloom description: Airy panicles Flower Color: Reddish-purple Flowering Time/Season: Panicles in late summer into fall.

Care Instructions:



Plan Reference Tag: PaviHR

HOT ROD SWITCH GRASS Panicum virgatum 'Hot Rod'



Description:

A compact, clumping grass with excellent vertical form. Blue-green foliage during the growing season turns a deep burgundy in summer. Airy purple flower panicles produce showy seed heads that persist for winter interest. Drought and salt tolerant plants are deer resistant and provide protection for wintering songbirds. Herbaceous, Compact, upright clumps 3-4 ft. tall and 2 ft wide.

Flowering:

Flower or Bloom description: Wispy, feathery plumes Flower Color: Mauve Flowering Time/Season: Summer into Fall

Growth Conditions:

Growth Rate: Moderate Growth Habit: Upright Heat Zones: High: 9 (>120 to 150 days) Low: 1 (< 1 days) Cold Hardiness: High: 9 (20 to 30 F) Low: 4 (-30 to -20 F) Water Requirements: Needs regular watering - weekly, or more often in extreme heat but can be reduced once established Sun Exposure: Part Sun to Full Sun

Care Instructions:



Plan reference tag: PaviN

NORTHWIND SWITCH GRASS Panicum virgatum 'Northwind'



Description:

A compact, clumping grass with excellent vertical form. Olive to blue-green foliage during the growing season turns golden-yellow in autumn. Airy flower panicles produce showy seed heads that persist for winter interest. Sturdy stems remain upright even under a snow load, providing protection for wintering songbirds. The root system provides erosion control. Herbaceous. Full to partial sun. Clumps to 4'-6' ft. tall, 2'-3' ft. wide

Growth Conditions:

Growth Rate: Fast Growing Growth Habit: Clumping Heat Zones 9 (>120 to 150 days) High: Low: 1 (>1 days) Cold Hardiness High: 9 (20 to 30 F) 4 (-30 to -20 F) Low: Water Requirements: Once established needs only occasional water. Sun Exposure: Full sun

Flowering:

Flower or Bloom description: Airy panicles Flower Color: Gray-green Flowering Time/Season: Panicles in late summer into fall.

Care Instructions:



Plan Reference Tag: EcBF

BURGANDY FIREWORKS CONEFLOWER Echinacea 'Burgundy Fireworks'



Description:

A flashy coneflower that is an easy to grow flower that produces beautiful, vivid beet-red quill-like ray flowers, unlike any other! Flowers are huge and long-lasting on stout burgundy stems above glossy foliage. Compact and vigorous. Stunning perennial color for beds, borders, wild gardens and containers. Herbaceous. Does not require staking. Hardy, fast growth perennial to 18 inches tall, 18 inches wide.

Flowering:

Flower or Bloom description: Large saucer sized flowers Flower Color: Fragrant deep red Flowering Time/Season: Early summer through fall.

Growth Conditions:

Growth Rate: Fast Growth Habit: Erect Heat Zones: High: 9 (>120 to 150 days) Low: 1 (< 1 days) Cold Hardiness: High: 8 (10 to 20 F) Low: 4 (-30 to -20 F) Water Requirements: Once established, needs only occasional watering Sun Exposure: Full sun

Care Instructions:



Plan Reference Tag: HeCA

CHICAGO APACHE DWARF DAYLILY Hemerocallis x 'Chicago Apache'



Description:

Bright red flowers have a vivid yellow throat and slightly ruffled edges. Blooms midseason from June through August. Easy care plant has sunfast color and drought resistance. Herbaceous perennial with Moderate growth to about 28 inches tall and 20 inches wide.

Flowering:

Flower or Bloom description: Vase Flower Color: Bright wine red with yellow throat blooms Flowering Time/Season: Mid-season repeat bloomer

Growth Conditions:

Growth Rate: Fast Growth Habit: Clumping Heat Zones: High: 11 (>180 to 210 days) Low: 3 (>8 to 14 days) Cold Hardiness: High: 11 (>120 to 150 days) Low: 4 (>120 to 150 days) Water Requirements: Water regularly, when top 3 in. of soil is dry

Sun Exposure: Full sun

Care Instructions:



Plan Reference Tag: HeRS

RUBY SPIDER DAYLILY Hemerocallis x 'Ruby Spider



Description:

Create a spectacular display with this hardy, award-winning perennial! Enormous, 9-inch dark ruby red flowers with intriguing, spatula-shaped petals that open wide and flat, displaying golden-yellow throats. Adaptable to dry conditions and tolerant of pollution, black walnut trees and salt. Herbaceous perennial with Moderate growth to about 30-34 inches tall and 24 inches wide.

Flowering:

Flower or Bloom description: Vase Flower Color: Ruby red with gold throat blooms Flowering Time/Season: Mid-season repeat bloomer

Growth Conditions:

Growth Rate: Fast Growth Habit: Clumping Heat Zones: High: 11 (>180 to 210 days) Low: 3 (>8 to 14 days) Cold Hardiness: High: 11 (>120 to 150 days) Low: 4 (>120 to 150 days) Water Requirements: Water regularly, when top 3 in. of soil is dry Sun Exposure: Full sun

Care Instructions:



Plan Reference Tag: HePF

PEACH FLAMBE CORAL BELLS Heuchera x 'Peach Flambe'



Description:

Expect multi-season interest with glowing bright peach-colored leaves infused with flaming red from spring to fall, turning to plum-purple as the weather cools. A superb companion with seasonal garden color. Provides bold texture and color contrast in mixed containers or borders in bright or dappled shade. Evergreen in mild winter climates and is a moderate grower 8" tall, 14" wide; with flower spikes to 16" tall.

Flowering:

Flower or Bloom description: Clusters of vase like flowers Flower Color: White Flowering Time/Season: White flowers throughout summer.

Growth Conditions:

Growth Rate: Moderate Growth Habit: Mounding Heat Zones: High: 8 (>90 to 120 days) Low: 1 (< 1 days) Cold Hardiness: High: 9 (20 to 30 F) Low: 4 (-30 to -20 F) Water Requirements: Water regularly, when top 3 in. of soil is dry Sun Exposure: Full to partial sun

Care Instructions:



Plan Reference Tag: RuT

TigerEye Gloriosa Daisy *Rudbeckia 'TigerEye'*



Description:

Possibly the most prolific blooming gloriosa daisy to date, this vigorous hybrid produces masses of golden-yellow blooms with black centers throughout the warm months. Reduced susceptibility to powdery mildew allows the plant to bloom longer. It is a great choice for adding bright, cheerful color to wildflower meadows or informal perennial borders when planted in drifts to achieve a pure mass of color. Herbaceous perennial Full sun. Clusters of stems to 16-24 inches tall & wide.

Flowering:

Flower or Bloom description: Large, daisy-like flower heads Flower Color: Golden Orange Flowering Time/Season: Summer through fall

Growth Conditions:

Growth Rate: Fast Growing Growth Habit: Erect Heat Zones: High: 9 (>120 to 150 days) Low: 2 (1 to 7 days) Cold Hardiness: High: 9 (20 to 30 F) Low: 3 (-40 to -30 F) Water Requirements: Water regularly, when top 3 in. of soil is dry Sun Exposure: Full to partial sun

Care Instructions:



Landscape Architecture and Master Planning Design Services

Plan Reference Tag: SaneE

EAST FRIESLAND MEADOW SAGE Salvia nemorosa 'East Friesland'



Description:

Showy border selection, desired for the intense violet-blue flower spikes from early summer on 18inch stalks. Dense erect stems rise from a shrub-like base. Full sun, heat and drought tolerant. Deciduous. Clumps to 18 inches tall, to 24 inches wide.

Flowering:

Flower or Bloom description: Violet-blue, two-lipped flowers grow in very dense whorls on tall spikes Flower Color: Purple

Flowering Time/Season: From early summer to fall.

Growth Conditions:

Growth Rate: Moderate Growing Growth Habit: Clumping Heat Zones: High: 9 (>120 to 150 days) Low: 4 (>14 to 30 days) Cold Hardiness: High: 9 (20 to 30 F) Low: 4 (-30 to -20 F) Water Requirements: Water regularly, when top 3 in. of soil is dry. Sun Exposure: Full sun

Care Instructions:

Follow a regular watering schedule during the first growing season to establish a deep, extensive root system. Remove old flowers to prolong flowering. Cut back to the ground at the end of the season.



Turfstone Green Permeable Paver System Turfstone's eco-friendly design reduces storm water run-off and allows turf to grow through it, creating a unique parking solution that works in harmony with nature.







Page 1 of 1



Page 1 of 1



AshtonTM Litter Receptacles



Close

OSQ Series

OSQ™ LED Area/Flood Luminaire – Medium

Product Description

The OSQ[™] Area/Flood luminaire blends extreme optical control, advanced thermal management and modern, clean aesthetics. Built to last, the housing is rugged cast aluminum with an integral, weathertight LED driver compartment. Versatile mounting configurations offer simple installation. Its slim, low-profile design minimizes wind load requirements and blends seamlessly into the site providing even, quality illumination. 'A' and 'B' Input power designators are a suitable upgrade for HID applications up to 250 Watt. 'J' and 'K' Input power designators are a suitable upgrade for HID applications up to 400 Watt.

Applications: Parking lots, walkways, campuses, car dealerships, office complexes, and internal roadways

Performance Summary

NanoOptic[®] Precision Delivery Grid[™] optic

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

Initial Delivered Lumens: Up to 17,191

Efficacy: Up to 136 LPW

CRI: Minimum 70 CRI (4000K & 5700K; 3000K asymmetric optics); 80 CRI (3000K symmetric optics)

CCT: 3000K (+/- 300K), 4000K (+/- 300K), 5700K (+/- 500K)

Limited Warranty⁺: 10 years on luminaire/10 years on Colorfast DeltaGuard[®] finish

*See http://lighting.cree.com/warranty for warranty terms

Accessories

 Field-Installed
 Hand-Held Remote

 DSQ-BLSMF
 XA-SENSREM

 - Front facing optics
 - For successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required

 - Rotated optics
 - Rotated optics

Ordering Information

Fully assembled luminaire is composed of two components that must be ordered separately: Example: **Mount:** 0SQ-AASV + **Luminaire:** 0SQ-A-NM-2ME-A-40K-UL-SV

Mount (Luminaire must be ordered separately)							
OSQ-							
OSQ-AA Adjustable Arm OSQ-DA Direct Arm	Color Options:	SV Silver BK Black	BZ Bronze WH White				

Luminai	ire (Moun	t must be o	rdered separately					
OSQ	Α	NM						
Product	Version	Mounting	Optic	Input Power Designator	сст	Voltage	Color Options	Options
0SQ	A	NM No Mount	Asymmetric 2ME* 4ME* Type II Type IV Medium 3ME* Type III Medium	A 112W J 168W	30K 3000K 40K 4000K 57K 5700K	UL Universal 120-277V UH Universal 347-480V	BK Black BZ Bronze SV Silver WH	DIM 0-10V Dimming PML2 Programmable Multi-Level, 10-30' - Control by others - Refer to Dimming spec sheet for details - Refer to PML spec sheet for details - Can't exceed wattage of specified input power designator - Refer to PML spec sheet for details F Fuse 09
			Symmetric 5ME 25D Type V 25° Medium Flood 5SH 40D Type V 40° Short Flood	B 86W K 130W	-		White	 When code dictates fusing, use time delay fuse Refer to <u>Field Adjustable Output</u> spec.sheet for details High: 100%, Low: 30% Available with UL voltage only Intended for downlight applications at 0° tilt Refer to <u>adjustable</u> and shorting cap by others
			WSN 60D Wide 60° Sign Flood 15° Flood					PML Programmable Multi-Level, 20-40' Mounting Height RL Rotate Left - Refer to PML spec sheet for details - LED and optic are rotated to the left - Available with UL voltage only - Intended for downlight applications at 0° tilt - LED and optic are rotated to the right

* Available with Backlight Shield when ordered with field-installed accessory (see table above)



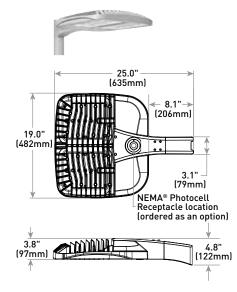




Rev. Date: V9 05/25/2016



DA Mount



Weight 26.5 lbs. (12kg)

US: lighting.cree.com/lighting

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

Canada: www.cree.com/canada

Product Specifications

CONSTRUCTION & MATERIALS

- Slim, low profile design minimizes wind load requirements
- Luminaire housing is rugged die cast aluminum with an integral, weathertight LED driver compartment and high performance heat sink
- Convenient interlocking mounting method on direct arm mount. Mounting adaptor is rugged die cast aluminum and mounts to 3-6" (76-152mm) square or round pole, secured by two 5/16-18 UNC bolts spaced on 2" (51mm) centers
- Mounting for the adjustable arm mount adaptor is rugged die cast aluminum and mounts to 2" (51mm) IP, 2.375" (60mm) 0.D. tenon
- Adjustable arm mount can be adjusted 180° in 2.5° increments
- Designed for uplight and downlight applications
- Exclusive Colorfast DeltaGuard[®] finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Silver, bronze, black, and white are available
- Weight: 26.5 lbs. (12kg)

ELECTRICAL SYSTEM

- Input Voltage: 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- Power Factor: > 0.9 at full load
- Total Harmonic Distortion: < 20% at full load
- Integral 10kV surge suppression protection standard
- To address inrush current, slow blow fuse or type C/D breaker should be used
- 10V Source Current: 0.15mA

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Enclosure rated IP66 per IEC 60529 when ordered without R option
- Consult factory for CE Certified products
- Certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A standards for conducted and radiated emissions
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- · Meets Buy American requirements within ARRA
- DLC qualified when ordered with asymmetric optics with 40K or 57K. Please refer to www.designlights.org/QPL for most current information
- · RoHS compliant. Consult factory for additional details

Electrical Data*									
			Total Current						
Input Power Designator	Optic	System Watts 120-480V	120V	208V	240V	277V	347V	480V	
А		112	0.97	0.56	0.49	0.43	0.34	0.25	
L	Asymmetric	168	1.47	0.85	0.74	0.64	0.50	0.36	
в	Symmetric	86	0.73	0.43	0.37	0.32	0.25	0.19	
к		130	1.09	0.65	0.56	0.49	0.38	0.28	

* Electrical data at 25 $^\circ$ C (77 $^\circ$ F). Actual wattage may differ by +/- 10% when operating between 120-480V +/-10%

Recommended OSQ Series Lumen Maintenance Factors (LMF)¹

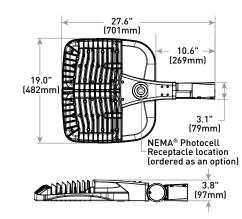
Ambient	Optic	Initial LMF	25K hr Projected² LMF	50K hr Projected² LMF	75K hr Projected² LMF	100K hr Calculated³ LMF
5°C (41°F)	Asymmetric	1.04	0.99	0.93	0.89	0.84
5 C (41 F)	Symmetric	1.05	1.00	0.96 ³	0.92 ³	0.88 ³
10°C	Asymmetric	1.03	0.98	0.93	0.88	0.83
(50°F)	Symmetric	1.04	0.99	0.95 ³	0.91 ³	0.87 ³
15°C	Asymmetric	1.02	0.97	0.92	0.87	0.82
(59°F)	Symmetric	1.02	0.98	0.94 ³	0.90 ³	0.87 ³
20°C	Asymmetric	1.01	0.96	0.91	0.86	0.82
(68°F)	Symmetric	1.01	0.96	0.92 ³	0.88 ³	0.85 ³
25°C	Asymmetric	1.00	0.95	0.90	0.85	0.81
(77°F)	Symmetric	1.00	0.95	0.91 ³	0.88 ³	0.84 ³

¹Lumen maintenance values at 25°C (77°F) are calculated per TM-21 based on LM-80 data and in-situ luminaire testing ²In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ([DUT] i.e. the packaged LED chip) ³In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA

In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ([DUT] i.e. the packaged LED chip)

AA Mount

2



Weight

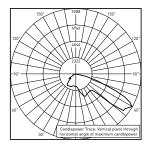
26.5 lbs. (12kg)



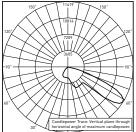
All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: http://lighting.cree.com/products/outdoor/area/osq-series

> 8.3 24.4

2ME



RESTL Test Report #: PL03347-001 0SQ-A-* *-2MF-A-40K-UI Initial Delivered Lumens: 10,988



RESTL Test Report #: PL03642-003

Initial Delivered Lumens: 14,643

3ME

050-A-**-2ME- I-40K-UL w/050-BLSME

Mounting Height: 25' (7.6m) A.F.G. Initial Delivered Lumens: 16,356 Initial FC at grade 80 21

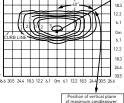
60

101

48

18.3 12.2 6.1 0m 6.1 12.2 18.3

OSQ-A-**-2ME-J-40K-UL



0SQ-A-**-2ME-J-40K-UL w/0SQ-BLSMF Mounting Height: 25' (7.6m) A.F.G. Initial Delivered Lumens: 14,020 Initial FC at grade

Type II Medium Distribution								
	3000K		4000K		5700K			
Input Power Designator	Initial Delivered Lumens*	BUG Ratings ^{**} Per TM- 15-11	Initial Delivered Lumens*	BUG Ratings** Per TM- 15-11	Initial Delivered Lumens*	BUG Ratings** Per TM- 15-11		
А	9,136	B2 U0 G1	10,904	B2 U0 G2	11,649	B2 U0 G2		
J	13,703	B2 U0 G2	16,356	B3 U0 G2	17,474	B3 U0 G2		

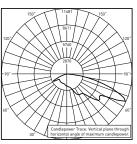
* Initial delivered lumens at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/-10%

+/-10%
 ** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit:
 www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

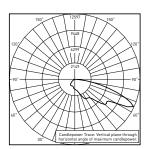
Type II Medium w/BLS Distribution								
	3000K		4000K		5700K			
Input Power Designator	Initial Delivered Lumens*	BUG Ratings ^{**} Per TM 15 11	Initial Delivered Lumens*	BUG Ratings** Per TM 15 11	Initial Delivered Lumens*	BUG Ratings** Per TM 15 11		
А	7,831	B1 U0 G1	9,346	B2 U0 G2	9,985	B2 U0 G2		
J	11,746	B2 U0 G2	14,020	B2 U0 G2	14,978	B2 U0 G2		

* Initial delivered lumens at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V

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RESTL Test Report #: PL03478-001 OSQ-A--3ME-J-40K-UL Initial Delivered Lumens: 16.257

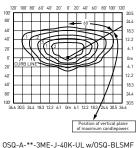


RESTL Test Report #: PL03642-001 OSQ-A-**-3ME-J-40K-UL w/OSQ-BLSMF Initial Delivered Lumens: 14.229

100'				30.5
80'	+++	60*		24.4
60'	+++	F 14		18.3
40' (1	1 E			12.2
20'	N CE	D	$\mathcal{N}\mathcal{I}$	6.1
	1/1/	1XX	477 11	0m
20° CURB LINE	1 21-	T14	$H \downarrow$	6.1
40'		+1	4	12.2
60'				18.3
80'				24.4
100				30.5
36.6 30.5 24.4	18.3 12.2 6.1	0m 6.1 12.2	18.3 24.4 30.5	
			1	
			on of vertical p imum candlep	

120' 100' 80' 60' 40' 20' 0' 20' 40' 60' 80' 100' 120'

OSQ-A-**-3ME-J-40K-UL Mounting Height: 25' (7.6m) A.F.G. Initial Delivered Lumens: 16,189 Initial FC at grade



Mounting Height: 25' (7.6m) A.F.G. Initial Delivered Lumens: 13,853 Initial FC at grade

Type III Medium Distribution

	3000K		4000K		5700K	
Input Power Designator	Initial Delivered Lumens*	BUG Ratings** Per TM 15 11	Initial Delivered Lumens*	BUG Ratings** Per TM 15 11	Initial Delivered Lumens*	BUG Ratings** Per TM 15 11
А	9,042	B2 U0 G2	10,793	B2 U0 G2	11,530	B2 U0 G2
J	13,564	B3 U0 G3	16,189	B3 U0 G3	17,296	B3 U0 G3

* Initial delivered lumens at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/-10%

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit:

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Type III Medium w/BLS Distribution								
	3000K		4000K		5700K			
Input Power Designator	Initial Delivered Lumens*	BUG Ratings** Per TM- 15-11	Initial Delivered Lumens*	BUG Ratings** Per TM- 15-11	Initial Delivered Lumens*	BUG Ratings** Per TM- 15-11		
А	7,737	B1 U0 G2	9,235	B1 U0 G2	9,866	B1 U0 G2		
J	11,606	B1 U0 G2	13,853	B2 U0 G3	14,799	B2 U0 G3		

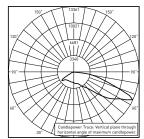
* Initial delivered lumens at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V

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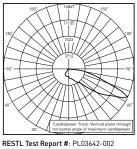


All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: http://lighting.cree.com/products/outdoor/area/osq-series

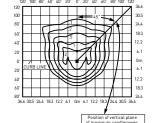
4ME



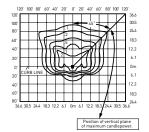
RESTL Test Report #: PL03496-001 OSQ-A-**-4ME-J-40K-UL Initial Delivered Lumens: 16,293



Initial Delivered Lumens: 13,647



OSQ-A-**-4ME-J-40K-UL Mounting Height: 25' (7.6m) A.F.G. Initial Delivered Lumens: 16,022 Initial FC at grade



OSQ-A-**-4ME-J-40K-UL w/OSQ-BLSMF Mounting Height: 25' (7.6m) A.F.G. Initial Delivered Lumens: 13,686 050-A-**-4ME- I-40K-UL w/050-BLSME Initial FC at grade

40

20

40

Type IV Medium Distribution									
	3000K		4000K		5700K				
Input Power Designator	Initial Delivered Lumens*	BUG Ratings** Per TM- 15-11	Initial Delivered Lumens*	BUG Ratings** Per TM- 15-11	Initial Delivered Lumens*	BUG Ratings** Per TM- 15-11			
А	8,949	B2 U0 G2	10,682	B2 U0 G2	11,412	B2 U0 G3			
J	13,424	B3 U0 G3	16,022	B3 U0 G3	17,117	B3 U0 G3			

* Initial delivered lumens at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V

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Type IV Medium w/BLS Distribution									
	3000K		4000K		5700K				
Input Power Designator	Initial Delivered Lumens*	BUG Ratings** Per TM 15 11	Initial Delivered Lumens*	BUG Ratings** Per TM 15 11	Initial Delivered Lumens*	BUG Ratings** Per TM 15 11			
А	7,644	B1 U0 G2	9,124	B1 U0 G2	9,747	B1 U0 G2			
J	11,466	B2 U0 G3	13,686	B2 U0 G3	14,621	B2 U0 G3			

* Initial delivered lumens at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V

+/-10%
 ** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

Type V Medium Distribution									
	3000K		4000K		5700K	5700K			
Input Power Designator	Initial Delivered Lumens*	BUG Ratings ^{**} Per TM- 15-11	Initial Delivered Lumens*	BUG Ratings** Per TM- 15-11	Initial Delivered Lumens*	BUG Ratings** Per TM- 15-11			
В	9,387	B3 U0 G3	10,867	B4 U0 G4	11,056	B4 U0 G4			
к	13,819	B4 U0 G4	15,999	B4 U0 G5	16,277	B4 U0 G5			

Initial delivered lumens at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/-10%
 ** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit:

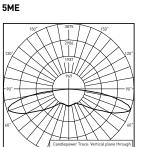
www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

Type V Short Distribution									
	3000K		4000K		5700K	5700K			
Input Power Designator	Initial Delivered Lumens*	BUG Ratings** Per TM 15 11	Initial Delivered Lumens*	BUG Ratings** Per TM 15 11	Initial Delivered Lumens*	BUG Ratings ^{**} Per TM 15 11			
В	9,914	B4 U0 G3	11,478	B4 U0 G3	11,678	B4 U0 G3			
к	14,595	B4 U0 G3	16,897	B4 U0 G3	17,191	B4 U0 G3			

Initial delivered lumens at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/-10%
 ** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit:

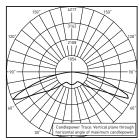
www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt





CESTL Test Report #: PL08101-001C OSQ-A-**-5ME-B-30K-UL Initial Delivered Lumens: 9,304





CESTL Test Report #: PL08102-001B OSQ-A-**-5SH-B-30K-UL Initial Delivered Lumens: 9.935

100 [°] - 36.6 30	5 24.4 1	83 122 6.1	Г	Posit	tion o	of vert	30.5 3	ine
OSQ-A Mount Initial Initial I	ing Ho Delive	eight: 2 red Lu	25' (7	.6m			-	
1207 16	107 807 6	0: 40: 20:	0, 50	r 40'	60.	80' 1	00: 12	r

18.3

12.2 6.1

0m 6.1 12.2

18.3



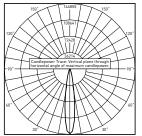
OSQ-A-**-5SH-B-40K-UL Mounting Height: 25' (7.6m) A.F.G. Initial Delivered Lumens: 11,478 Initial FC at grade

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: http://lighting.cree.com/products/outdoor/area/osq-series

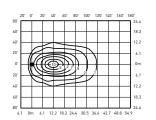
15D

25D

40D



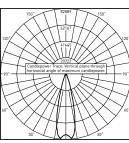
CESTL Test Report #: PL07689-001A OSQ-A-**-15D-U-30K-UL Initial Delivered Lumens: 23,254



OSQ-A-**-15D-B-40K-UL Mounting Height: 25' (7.6m) A.F.G., 60° Tilt Initial Delivered Lumens: 11,478 Initial FC at grade

15° Flood Distribution									
Input Power Designator	3000K	4000K	5700K						
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*						
В	9,914	11,478	11,678						
к	14,595	16,897	17,191						

* Initial delivered lumens at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/-10%



CESTL Test Report #: PL07687-001A OSQ-A-**-25D-U-30K-UL Initial Delivered Lumens: 23,265

									24.4
·	1								18.3
-		-					_	-	12.2
· L	K				K				6.1
·Ц	ľľ~	6	5	21	.5 .	2			0m
	M-		Ľ	Ľ	ν,	1)			6.1
		P				Γ			
			۲						12.2
-	-	-		-				-	18.3
									24.4

25° Flood Distr	25° Flood Distribution										
	3000K	4000K	5700K								
Input Power Designator	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*								
В	9,914	11,478	11,678								
к	14,595	16,897	17,191								

* Initial delivered lumens at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/-10%



CESTL Test Report #: PL07697-001A OSQ-A-**-40D-U-30K-UL Initial Delivered Lumens: 22,943

80'									24.
60'									18.
40'	H	_	_	-	_				12.
20"	h			7		\sim			6.
° H	r ll		2	Ì	.5	.2	1		On
20'	F-\$	y	1	Λ	/				6.
1	M	₩		4					
40'	M		+	T					12.
60'	\vdash	_	+	+	_				18.
80'									24.

OSQ-A-**-40D-B-40K-UL Mounting Height: 25' (7.6m) A.F.G., 60° Tilt Initial Delivered Lumens: 11,478 Initial FC at grade

40° Flood Distribution										
	3000K	4000K	5700K							
Input Power Designator	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*							
В	9,914	11,478	11,678							
к	14,595	16,897	17,191							

* Initial delivered lumens at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/-10%

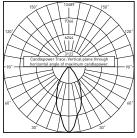


150*	80'	20' (0° 21	D' 4	D° 6	0' 8	10' 1	DO' 1	20' 14	40
										Γ
X	60'									Γ
	40'			\sim			-			ŀ
ough	20'		7	e		5		\mathbb{R}		ŀ

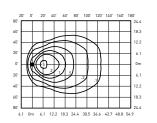
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All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: http://lighting.cree.com/products/outdoor/area/osq-series

60D



CESTL Test Report #: PL08100-001B OSQ-A-**-60D-B-30K-UL Initial Delivered Lumens: 10,079

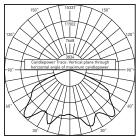


OSQ-A-**-60D-B-40K-UL Mounting Height: 25' (7.6m) A.F.G., 60° Tilt Initial Delivered Lumens: 11,478 Initial FC at grade

60° Flood Distribution										
Input Power Designator	3000K	4000K	5700K							
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*							
В	9,914	11,478	11,678							
к	14,595	16,897	17,191							

Initial delivered lumens at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V
 +/-10%

WSN



CESTL Test Report #: PL07695-001A OSQ-A-**-WSN-U-30K-UL Initial Delivered Lumens: 23,116

	0'2	o, o	r 20	J 4)' 6	0'8	0' 10	00" 12	20" 14	40" 16	0' 18	
120'												36.6
100'		-		-			-	-			-	30.5
80'	-	-		\leq				-			-	24.4
60'			H	r		₽-	\rightarrow	_			_	18.3
40'		- 1	ĥ		Ð-	\rightarrow		λ_			_	12.2
20'		//	IA		2	_						6.1
0°		4	11.	_				1				0m
20"		11.	Λ^2		5			Λ_				6.1
40'			$^{\prime\prime}$	Ľ	.5/							12.2
40 60')	γ	.2/	.1,	/				18.3
			\prime			7	7					
80'		-		Ē	-		/	-			-	24.4
100'	⊢	-			1	F					-	30.5
120'												36.6

127 12 61 0m 61 122 18 244 305 366 427 488 549 OSQ-A-**-WSN-B-40K-UL Mounting Height: 25' (7.6m) A.F.G., 60° Tilt Initial Elivered Lumens: 11,478 Initial FC at grade

Wide Sign Distribution							
	3000K	4000K	5700K				
Input Power Designator	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*				
В	9,914	11,478	11,678				
К	14,595	16,897	17,191				

Initial delivered lumens at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V
 +/-10%



OSQ™ LED Area/Flood Luminaire – Medium

Luminaire EPA

Fixed Arm Mount – OSQ-DA					
Single	2 @ 180°	2 @ 90°	3 @ 90°	3 @ 120°	4 @ 90°
•-	∎≁∎	,-∎ ∎		**	
0.74	1.48	1.19	1.93	1.63	2.38

Adjustable Arm M	ount – OSQ-AA Weight:				1	1	
Single	2 @ 180°	2 @ 90°	3 @ 90°	3 @ 120°	3 @ 180°	4 @ 180°	4 @ 90°
Tenon Configuration	on (0°-80° Tilt); If used v	vith Cree tenons, please a	add tenon EPA with Lumir	naire EPA			
PB-1A*; PT-1; PW- 1A3**	PB-2A*; PB-2R2.375; PD-2A4(180); PT-2(180); PW-2A3**	PB-2A*; PD-2A4(90); PT-2(90)	PB-3A*; PD-3A4(90); PT-3(90)	PB-3A*; PT-3(120)	PB-3A*; PB-3R2.375	PB-4A*(180)	PB-4A*(90); PB-4R2.375; PD-4A4(90); PT-4(90)
0° Tilt		1	1			1	1
0.74	1.48	1.19	1.93	1.63	3.33	4.66	2.38
10° Tilt							
0.75	1.48	1.49	2.23	2.15	4.22	5.84	2.98
20° Tilt							
1.12	1.48	1.86	2.60	2.85	5.31	7.32	3.72
30° Tilt							
1.46	1.48	2.20	2.94	3.56	6.34	8.68	4.40
45° Tilt							
1.96	1.96	2.69	3.43	4.54	7.83	10.68	5.38
60° Tilt							
2.33	2.33	3.07	3.81	5.11	8.94	12.16	6.14
70° Tilt							
2.49	2.49	3.23	3.97	5.11	9.43	12.80	6.46
80° Tilt							
2.58	2.58	3.32	4.06	5.11	9.71	13.16	6.64
Tenon Configuration	on (90° Tilt); If used with	Cree tenons, please add	tenon EPA with Luminaire	e EPA			
PB-1A*; PT-1; PW- 1A3**	PB-2A*; PB-2R2.375; PD-2A4(180); PT-2(180); PW-2A3**	PB-2A*	PB-3A*	PB-3A*; PT-3(120)	PB-3A*; PB-3R2.375	PB-4A*(180)	PB-4A*(90); PB-4R2.375
90° Tilt							
2.61	2.61	4.44	6.05	5.11	9.79	13.28	10.39

* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation
** These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")



OSQ[™] LED Area/Flood Luminaire – Medium

Tenon EPA

Part Number	EPA
PB-1A*	None
PB-2A*	0.82
PB-3A*	1.52
PB-4A*(180)	2.22
PB-4A*(90)	1.11
PB-2R2.375	0.92
PB-3R2.375	1.62
PB-4R2.375	2.32
PD Series Tenons	0.09
PT Series Tenons	0.10
PW-1A3**	0.47
PW-2A3**	0.94
WM-2	0.08
WM-4	0.25
WM-DM	None

Tenons and Brackets[‡] (must specify color)

· · · · · · · · · · · ·				
Square Internal Mount Ve - Mounts to 3-6" (76-152m poles	e rtical Tenons (Steel) mm) square aluminum or steel	Round External Mount Vertical Tenons (Steel) - Mounts to 2.375" (60mm) 0.D. round aluminur or tenons		
PB-1A* – Single PB-2A* – 180° Twin	PB-4A*(90) – 90° Quad PB-4A*(180) – 180° Quad	PB-2R2.375 – Twin PB-3R2.375 – Triple	PB-4R2.375 – Quad	
- Mounts to 4" (102mm) so PD-2A4(90) – 90° Twin PD-2A4(180) – 180° Twin		Round External Mount H - Mounts to 2.375" (60mn or tenons - Mounts to square pole v PT-1 – Single (Vertical) PT-2(90) – 90° Twin	n) O.D. round aluminum	
 Wall Mount Brackets Mounts to wall or roof 		PT-2(180) - 180° Twin		

- N WM-2 – Horizontal for OSQ-AA mount WM-4 – L-Shape for OSQ-AA mount WM-DM - Plate for OSQ-DA mount

0.D. round aluminum or steel poles PB-4R2.375 - Quad

rizontal Tenons (Aluminum) 0.D. round aluminum or steel poles

PT-3(90) – 90° Triple PT-4(90) – 90° Quad

PW-2A3** - Double

Mid-Pole Bracket

- Mounts to square pole PW-1A3** – Single

Ground Mount Post

- For ground mounted flood luminaires PGM-1 - for OSQ-AA mount

[‡] Refer to the <u>Bracket and Tenons spec sheet</u> for more details

* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation * These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")

Direct Mount Configurations

Compatibility with OSQ-DA Direct Mount Bracket									
Input Power Designator	2 @ 90°	2 @ 180°	3 @ 90°	3 @ 120°	4 @ 90°				
3" Square	3" Square								
A, J, B & K	N/A	✓	N/A	N/A	N/A				
3" Round									
A, J, B & K	N/A	✓	N/A	N/A	N/A				
4" Square	4" Square								
A, J, B & K	✓	✓	✓	N/A	✓				
4" Round	4" Round								
A, J, B & K	×	✓	✓	✓	✓				
5" Square									
A, J, B & K	✓	✓	✓	N/A	✓				
5" Round									
A, J, B & K	✓	✓	✓	✓	✓				
6" Square									
A, J, B & K	✓	✓	✓	N/A	✓				
6" Round									
A, J, B & K	✓	✓	✓	✓	✓				

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Cree Edge[™] Series

LED Pathway Luminaire

Product Description

Durable die-cast aluminum luminaire housing mounts directly to 4" (102mm) diameter pole (included) without visible mounting hardware for clean appearance. Pole mounts to rugged die cast aluminum internal flange secured by three 3/8" - 16x6" anchor bolts with 1-1/4" hook (provided). **Note:** T45 Torx 3/8" socket required for head installation. Top mounted LEDs for superior optical performance and light control.

Applications: Landscape, walk-ways and general site lighting

Performance Summary

Patented NanoOptic® Product Technology

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

CRI: Minimum 70 CRI

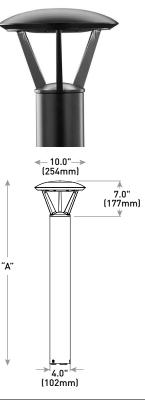
CCT: 4000K (+/- 300K), 5700K (+/- 500K) standard

Limited Warranty[†]: 10 years on luminaire/10 years on Colorfast DeltaGuard[®] finish

⁺See http://lighting.cree.com/warranty for warranty terms

Accessories

Field-Installed					
Upgrade Kit - Used for replacer XA-XBP8RSV XA-XBP8RBK	ent of existing bollards with a bolt hole circle of 5.75" (146mm) XA-XBP8RWH XA-XBP8RBZ				



Model	Dim. "A"	Weight*			
Landscape (P0)	13" (330mm)	12.7 lbs. (5.8kg)			
Landscape (P1)	18" (457mm)	13.3 lbs. (6.0kg)			
Pathway (P3)	36" (914mm)	17.9 lbs. (8.1kg)			
Pathway (P4)	42" (1068mm)	18.6 lbs. (8.4kg)			
Pedestrian (P8)	96" (2438mm)	28.4 lbs (12.9kg)			
* Add 4.5 lbs. (2.0kg) for 347-480V					

Ordering Information

Example: PWY-EDG-2M-P0-02-E-UL-SV-350

PWY-EDG			02	E				
Product	Optic	Mounting	LED Count (x9)	Series	Voltage	Color Options	Drive Current	Options
PWY-EDG	2M Type II Medium 3M Type III Medium 5M Type V Medium 5S Type V Short	P0 13" (330mm) landscape P1 18" (457mm) landscape P3 36" (914mm) pathway P4 42" (1067mm) pathway P8 96" (2438mm) pedestrian	02	E	UL Universal 120-277V UH* Universal 347-480V - Available with P3, P4, and P8 mounts only 12 120V 27 277V	BK Black BZ Bronze SV Silver WH White	350 350mA 525 525mA - Available with P1, P3, P4, and P8 mounts only	 F Fuse When code dictates fusing, use time delay fuse Refer to ML spec sheet for availability with ML options HI Hi/Low (Dual Circuit Input) Available with UL voltage and 525mA driver current only Refer to HL spec sheet for details Sensor not included TL Two-Level (175/525 w/integrated sensor control) Available with 12 or 27 voltages only Refer to TL spec sheet for details Tuo-Level (0/350 w/integrated sensor control) Available with 12 or 27 voltages only Refer to TL spec sheet for details Tuo-Level (0/350 w/integrated sensor control) Available with 12 or 27 voltages only Refer to TL spec sheet for details Tuo-Level (0/352 w/integrated sensor control) Available with 12 or 27 voltages only Refer to TL spec sheet for details WB Weided Base Plate Standard on P8 mount option, available with P3 and P4 mount Includes welded base cover 4000K Color Temperature Minimum 70 CRI Color temperature per luminaire

* 347-480V utilizes magnetic step-down transformer. For input power for 347-480V, refer to the Electrical Data table





Rev. Date: V5 08/11/2016



Canada: www.cree.com/canada

Product Specifications

CONSTRUCTION & MATERIALS

- Durable die-cast aluminum luminaire housing mounts directly to 4" (102mm) diameter pole (included) without visible mounting hardware for clean appearance
- Pole mounts to rugged die cast aluminum internal flange secured by three 3/8"-16x6" anchor bolts with 1-1/4" hook[provided].
 Note: T45 Torx 3/8" socket required for head installation
- Top mounted LEDs for superior optical performance and light control
- Exclusive Colorfast DeltaGuard[®] finish features an E-Coat epoxy primer with an ultradurable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Black, bronze, silver and white are available
- Weight: See Dimension and Weight Chart on pages 1 and 4

ELECTRICAL SYSTEM

- Input Voltage: 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- Power Factor: > 0.9 at full load at 120V
- Total Harmonic Distortion: < 20% at full load at 120V
- Integral 10kV surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Meets Buy American requirements within ARRA
- RoHS compliant. Consult factory for additional details

Electrical Data* (A)								
	_	_	Total Cu	ırrent				
LED Count (x9)	System Watts 120-277V	System Watts 347-480V	120V 2	208V	240V	277V	347V	480V
350mA								
02	22	28	0.18	0.12	0.10	0.10	0.09	0.13
525mA								
02	34	40	0.29	0.19	0.17	0.15	0.12	0.13

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/- 10%

Recommended Cree Edge[™] Series Lumen Maintenance Factors (LMF)¹

Ambient	Initial LMF	25K hr Projected² LMF	50K hr Projected² LMF	75K hr Calculated³ LMF	100K hr Calculated ³ LMF
5°C (41°F)	1.04	0.99	0.97	0.95	0.93
10°C (50°F)	1.03	0.98	0.96	0.94	0.92
15°C (59°F)	1.02	0.97	0.95	0.93	0.91
20°C (68°F)	1.01	0.96	0.94	0.92	0.90
25°C (77°F)	1.00	0.95	0.93	0.91	0.89

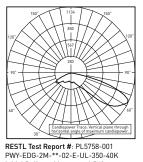
¹Lumen maintenance values at 25°C are calculated per TM-21 based on LM-80 data and in-situ luminaire testing ²In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ([DUT] i.e. the packaged LED chip]

Packaged LED chip) ³In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ([DUT] i.e. the packaged LED chip)



All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: http://lighting.cree.com/products/outdoor/bollards-and-pathway/cree-edge-pathway

2M



Initial Delivered Lumens: 1.549

6.1 15 4.6 3.0 10 1.5 0m 15 3.0 10 15 4.6 20 6.1 7.6 6.1 4.6 3.0 1.5 0m 1.5 3.0 4.6 Position of vertical of maximum candle

PWY-EDG-2M-**-02-E-UL-350-40K Mounting Height: 3' (0.9m) A.F.G. Initial Delivered Lumens: 1,565 Initial FC at grade

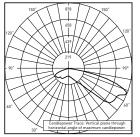
Type II Medium Distribution							
LED Count (x9)	4000K		5700K				
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11			
350mA		·	·				
02	1,565	B1 U0 G1	1,625	B1 U0 G1			
525mA							
02	2,191	B1 U0 G1	2,276	B1 U0 G1			

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered

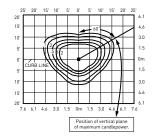
lumens ** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit:

www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf

3M



RESTL Test Report #: PL5698-001 PWY-EDG-3M-**-02-E-UL-350-40K Initial Delivered Lumens: 1,470



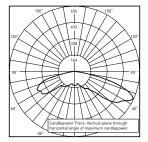
PWY-EDG-3M-**-02-E-UL-350-40K Mounting Height: 3' (0.9m) A.F.G. Initial Delivered Lumens: 1,389 Initial FC at grade

Type III Medium Distribution						
	4000K		5700K			
LED Count (x9)	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings [™] Per TM-15-11		
350mA	350mA					
02	1,389	B1 U0 G1	1,442	B1 U0 G1		
525mA						
02	1,944	B1 U0 G1	2,019	B1 U0 G1		

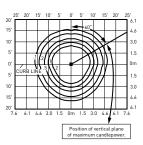
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered

 ** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf

5M



RESTL Test Report #: PL5798-001 PWY-EDG-5M-**-02-E-UL-350-40K Initial Delivered Lumens: 1,780



PWY-EDG-5M-**-02-E-UL-350-40K Mounting Height: 3' (0.9m) A.F.G. Initial Delivered Lumens: 1,666 Initial FC at grade

Type V Medium Distribution					
	4000K		5700K		
LED Count (x9)	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	
350mA					
02	1,666	B1 U2 G1	1,730	B1 U2 G1	
525mA					
02	2,333	B2 U2 G2	2,422	B2 U2 G2	

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

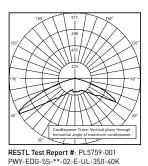
 Iumens
 For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf



All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: http://lighting.cree.com/products/outdoor/bollards-and-pathway/cree-edge-pathway

> 4.6 3.0 1.5)m 1.5 3.0 6.1

5S



6. Position of vertical plane of maximum candlepower

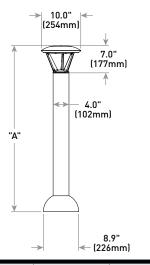
PWY-EDG-5S-**-02-E-UL-350-40K Mounting Height: 3' (0.9m) A.F.G. Initial Delivered Lumens: 1,868 Initial FC at grade

Type V Short Distribution						
	4000K		5700K			
LED Count (x9)	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11		
350mA						
02	1,868	B1 U2 G1	1,940	B1 U2 G1		
525mA						
02	2,615	B1 U2 G1	2,716	B1 U2 G1		

Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
 * For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf

with Welded Base

Initial Delivered Lumens: 1.897



Model	Dim. "A"	Weight*		
Pathway (P3)	36" (914mm)	17.9 lbs. (8.1kg)		
Pathway (P4)	42" (1068mm)	18.6 lbs. (8.4kg)		
Pedestrian (P8)	96" (2438mm)	28.4 lbs (12.9kg)		

* Add 4.5 lbs. (2.0kg) for 347-480V

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XSP Series

XSPW[™] LED Wall Pack Luminaire





Making the Switch to LED Lighting an Easy Decision

outstanding Performance

Capable of replacing 70W - 175W Metal halide wall packs while reducing energy consumption up to 65%. The XSPW Wall Pack also provides improved lighting quality that contributes to creating a safe and inviting site.

MAXIMUM

Lighting Value

The XSPW LED Wall Pack offers high-performance solutions for your site lighting needs at remarkably attractive price points. And it's backed by our industry leading 10-year limited warranty.

OPTICAL

Precision

Featuring our NanoOptic[®] Precision Delivery Grid[™] optic, the XSPW Wall Pack is designed for applicationbased performance that delivers light precisely where it's needed. The optical precision and efficient design help maximize energy savings.

EASY

Installation

Designed with versatility in mind, the XSPW Wall Pack can seamlessly mount to a variety of configurations. Options for surface or through-wiring from top, side or rear makes replacing existing wall-mounted Metal Halide wall packs simple and easy.

Cree IS LED Lighting

Site Safety with Low Cost of Ownership.

Nothing speaks to security like reliability. The XSPW[™] LED Wall Pack leverages Cree's innovative technology, developed for the industry-leading XSP street lights, offering customers a premier site lighting solution that incorporates exceptional thermal management with high-quality components and an unmatched paint finish, making Cree[®] LED solutions highly reliable. The result is an LED system capable of providing more than a decade of near maintenance-free service.

PERFORMANCE SUMMARY

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

Utilizes BetaLED® Technology

NanoOptic[®] Precision Delivery Grid[™] optic

DELIVERED LIGHT OUTPUT: 2,500 - 4,100 lumens

CRI: Minimum 70 CRI

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

LIMITED WARRANTY: 10 years on luminaire / 10 years on Colorfast DeltaGuard® finish*

* See www.cree.com/lighting/products/warranty for warranty terms. Product specifications subject to change at any time. Visit www.cree.com/lighting to find the most up-to-date information.

CONSTRUCTION & MATERIALS

• Slim, low profile design

- Luminaire housing specifically designed for LED applications with advanced LED thermal management and driver
- Luminaire mounting box designed for installation over standard and mud ring single gang J-Boxes
- Luminaire can also be direct mounted to a wall and surface wired
- Secures to wall with four 3/16" (5mm) screws (by others)
- Conduit entry from top, bottom, sides, and rear
- Designed for easy through-wiring
- Designed for downlight applications only
- Exclusive Colorfast DeltaGuard® finish features an E-coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion

ELECTRICAL SYSTEM

• Input Voltage: 120-277V, 50/60Hz, Class 2 output

• Power Factor: > 0.9 at full load

• Total Harmonic Distortion: < 20% at full load

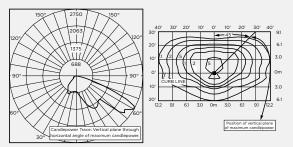
• Integral 10kV surge suppression protection standard

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed for wet locations
- 10kV surge suppression protection tested in accordance with IEEE/ ANSI C62.41.2
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Meets Buy American requirements within ARRA

PHOTOMETRY

XSPW™ LED Wall Pack - Type III - 42W BXSPWA*3FC-US Based on RESTL Test Report #: 2014-0018

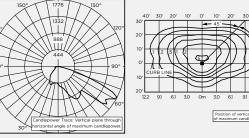


Initial Delivered Lumens: 4,187

Mounting Height: 10' (3.0m) Initial Delivered Lumens: 3,819 Initial FC at grade

PHOTOMETRY

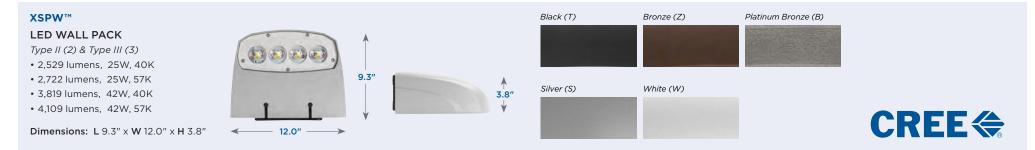
XSPW™ LED Wall Pack - Type III - 25W BXSPWA*3FG-US Based on RESTL Test Report #: 2014-0019



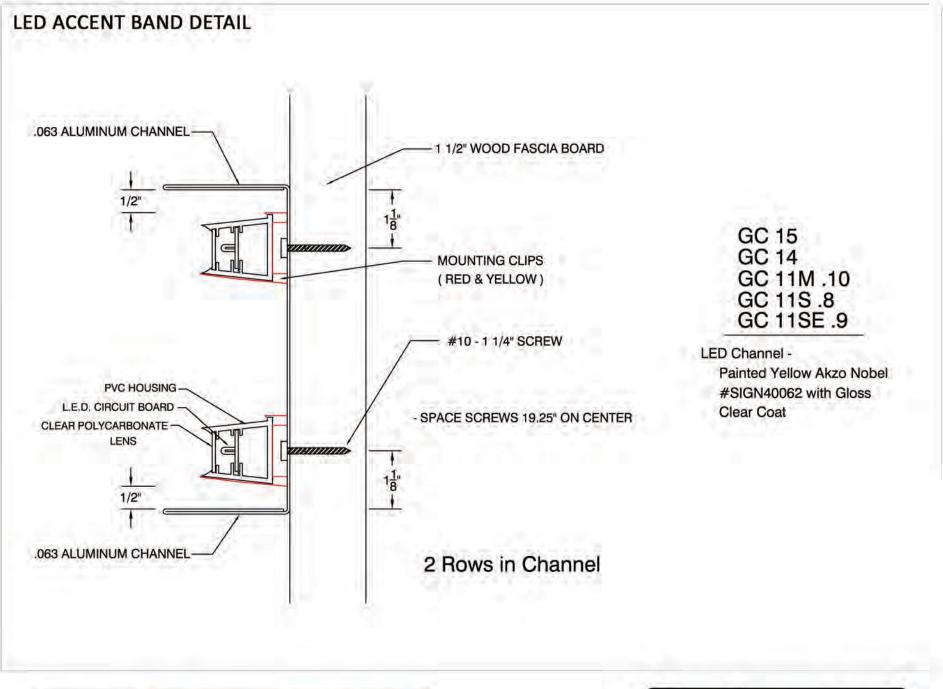
Initial Delivered Lumens: 2,692

Mounting Height: 10' (3.0m) Initial Delivered Lumens: 2,529 Initial FC at grade

For exact photometric data please reference our available spec sheets and IES test results at: www.cree.com/lighting/xspwall



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Drawing # 021-10-2 Date: 8-12-13 Revised



FXLuminaire.

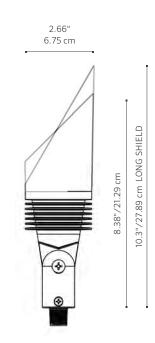
LED Up Lights



The NP is our most versatile LED up light, and is engineered to accommodate all aspects of your up lighting needs. By coupling the proper light intensity with one of the provided color filters, you can fine-tune the NP to beautifully enhance every landscape feature.

NP: Up Light

NUMBER OF LEDS:	1	3	6	9
HALOGEN LUMEN OUTPUT EQUIVALENT:	10 Watt	20 Watt	35 Watt	50 Watt
USEFUL LED LIFE (L70):	50,000 hrs avg	50,000 hrs avg	50,000 hrs avg	50,000 hrs avg
INPUT VOLTAGE:	10 to 15V	10 to 15V	10 to 15V	10 to 15V
VA TOTAL: (Use this number to size the transformer)	2.4	4.5	13.5	13.5
WATTS USED:	2.0	4.2	10.1	11.2
LUMENS PER WATT (EFFICACY)	25.4	31	31.8	31.1
MAX LUMENS:	52	135	279	357
CCT (Ra)	68.5	67.9	80.2	67.5



ORDERING INFORMATION



FACTORY INSTALLED OPTIONS: Order 1 + 2 (optional) + 3 + 4 (optional) + 5

Step	Description	Code	WG = White Gloss
1	FIXTURE	NP	
2	OPTIONAL ZD	ZD (Refer to the Luxor page in the Lighting Control section)	FW = Flat White
3	LAMP	1LED, 3LED, 6LED, 9LED (50,000 avg. life hours)	
4	OPTIONAL SHIELD	LS (Long shield)	AL = Almond
5	FINISH	WG, FW, AL, BZ, DG, WI, VF, SB, FB	BZ = Bronze Metallic

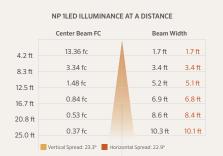
EXAMPLE: NP-ZD-9LED-LS-DG = NP - ZD Option - 9LED Board - Long Shield - Desert Granite Finish

FIELD INSTALLED OPTIONS: Order Individually

Mounts	Beam Angle Lenses			
Long Slot Spike (250015840000) 2.5" x 10"	LENS OPTIONS	1LED	3LED	6/9LED
SuperJ-Box (SJ-XX**) 2.5" x 12"	Diffuser 18° (preassembled)	770600	771300	771600
Post Mount (PM-XX**) 2.5" x 13"	Flood Lens 30-32° (1 notch)	1LEDFLLENS	3LEDFLLENS	9LEDFLLENS
	Wide Flood Lens 56-58° (2 notches)	1LEDWFLLENS	3LEDWFLLENS	9LEDWFLLENS

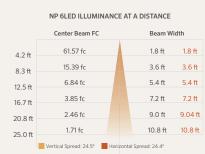
EXAMPLE: 250015840000 = Long Slot Spike

PHOTOMETRICS:



NP 3LED ILLUMINANCE AT A DISTANCE





NP 9LED ILLUMINANCE AT A DISTANCE

	Center Beam FC	Beam W	idth
4.2 ft	72.4 fc	1.8 ft	1.8 ft
8.3 ft	28.1 fc	3.6 ft	3.5 ft
12.5 ft	8.04 fc	5.4 ft	5.3 ft
	4.53 fc	7.1 ft	7.1 ft
16.7 ft	2.9 fc	8.9 ft	8.9 ft
20.8 ft	2.01 fc	10.7 ft	10.6 ft
25.0 ft		al Spread: 24.0°	10.011

 AL = Almond

 BZ = Bronze Metallic

 DG = Desert Granite

 WI = Weathered Iron

 VF = Verde Speckle

 SB = Sedona Brown

 FB = Flat Black

POWDER COAT

The NP includes choice of LED board, choice of finish, 4 ft lead wire and a Super Slot Spike.



All NP up lights come standard with amber, green, blue and frosted filters

Beam angle is calculated using LM-79 method for SSL Luminaires: "Beam angle is defined as two times the vertical angle at which the intensity is 50% of the maximum."

** Denotes finish code



FXLuminaire.

FXLuminaire.

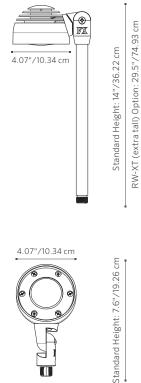
LED Path/Up Light



Versatile up light or directional path light The clean lines of the RW complement both commercial and residential landscapes. The RW offers adjustable beam spread and soft illumination to wash walls and create a gentle glow. Perfect for subtly accenting architectural elements or textural plant details. Made of die cast aluminum; zoneable with the Luxor controller.

RW: Path/Up Light

NUMBER OF LEDS:	1	3	6	9
HALOGEN LUMEN OUTPUT EQUIVALENT:	10 Watt	20 Watt	35 Watt	50 Watt
USEFUL LED LIFE (L70):	50,000 hrs avg	50,000 hrs avg	50,000 hrs avg	50,000 hrs avg
INPUT VOLTAGE:	10 to 15V	10 to 15V	10 to 15V	10 to 15V
VA TOTAL: (Use to size the lighting controller)	2.4	4.5	13.5	13.5
WATTS USED:	2.0	4.2	10.1	11.2
PATH LIGHT				
LUMENS PER WATT (EFFICACY)	49.92	64.98	51.23	52.79
MAX LUMENS:	99.66	264.66	411.28	583
CRI (Ra)	82.80	83	82.90	82.90
UP LIGHT				
LUMENS PER WATT (EFFICACY)	51.32	64.35	57.28	54.10
MAX LUMENS:	102.02	268.02	459.70	551.50
CRI (Ra)	82.70	83.20	83	82.60

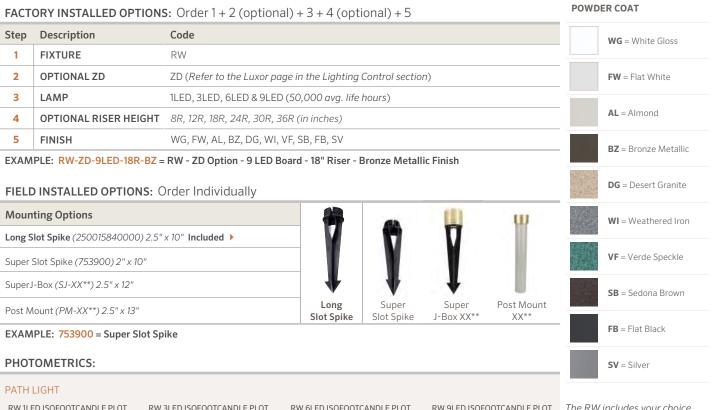


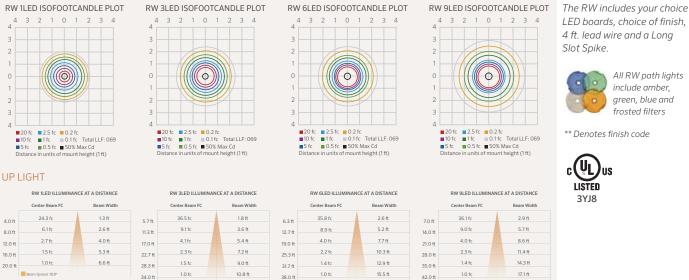


ORDERING INFORMATION



RW: Path/Up Light





Beam Spread: 23.0

Bes

The RW includes your choice of LED board, riser size, finish, 4 ft. lead wire and a Long Slot Spike.

Beam Spread: 18.0

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LUXOR[®] ZD/ZDC POWER CONTROLLER

LANDSCAPE LIGHTING



LUXOR®ZD Controller

Create any ambiance. Anytime.

When Luxor ZD controls an LED landscape lighting system, lights don't

simply turn on and off. They come alive. Luxor offers both zoning and dimming capabilities that provide virtually limitless design possibilities. Zoning allows lights to be programmed into preset themes, which can be activated for special occasions such as parties, or activities such as barbequing. Dimming allows lights to automatically emit any desired dimming percentage anytime, anywhere within a system. For example, Group 1 can be set to 100% illumination at 7:00 p.m., and automatically dim to 60% at 9:00 p.m. Groups 2 and 3 can be set to their own percentages and adjusted throughout the night as lighting needs change for those areas.

Luxor's proprietary ZD Technology[®] makes it the most versatile, affordable, and easy-to-use zoning and dimming control system ever created. It's the clear choice for the professional designer and the most discerning clients.





LUXOR® ZD FEATURES & SPECIFICATIONS

Main Features

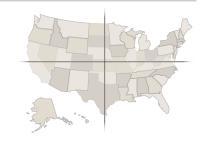
- Up to 250 independently adjustable lighting groups can be created
- All groups can be turned on independently and dimmed from 1-100%
- User interface includes a full color LCD display for easy setup, maintenance and adjusting of groups
- Uses event-based scheduling, which allows a single group of lights to change dimming percentages throughout the night
- Optional iOS or Android control with the Wi-Fi module accessory (sold separately)
- Wirelessly assign fixtures to groups with the LAM accessory* (sold separately)

Detail Features

- Fully removable facepack
- Simple two-wire configuration for easy installation and adjustment
- Fixture addressing takes place on the front of the facepack for easy access
- No matter where a light is within a system, it can communicate with the transformer to receive its schedule, dimming percentage, and group
- Astronomical Timing Function with Map Placement
- Available in 150 & 300 Watts
- Stainless Steel or Matte Gray powder coated cabinet finish options

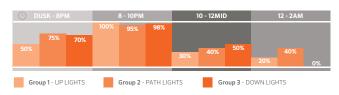
Astronomical Timing

Astronomical timing is one of the best ways to turn a lighting system on and off without the need of a photocell. At FX Luminaire[®] we created an easy-to-use map placement feature that places your location. No more numbers, zip codes, or manuals to read – just point to your location.



Event-Based Timing

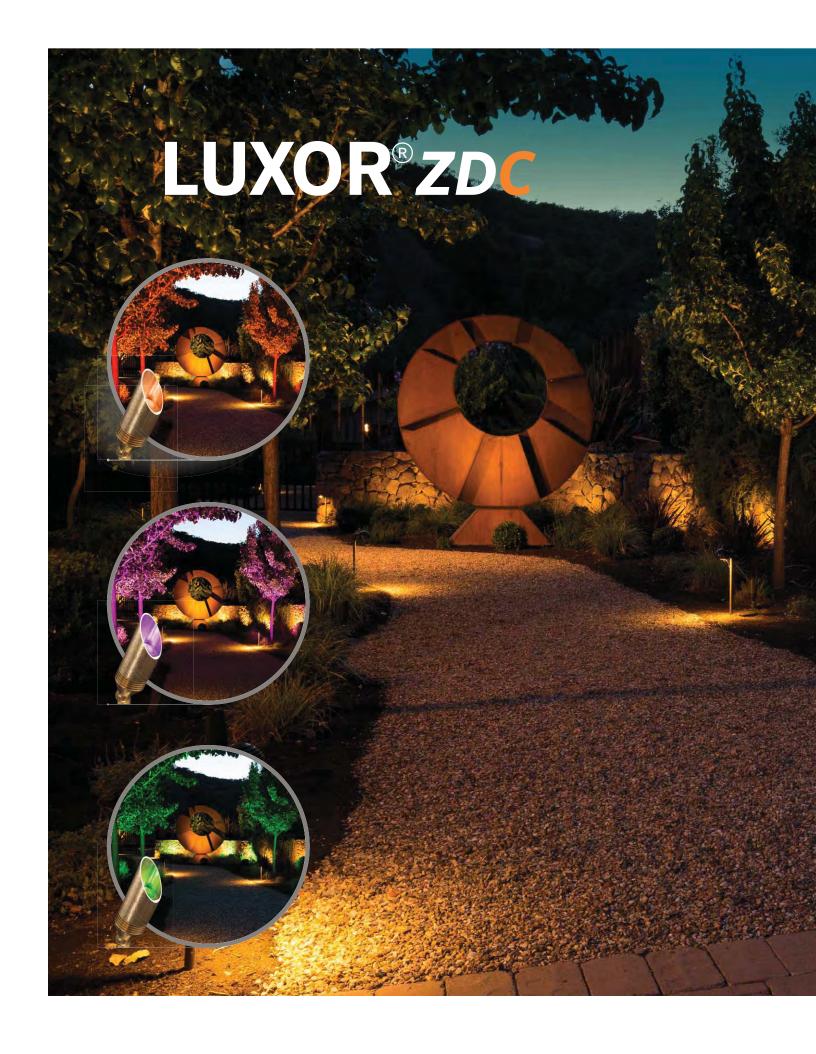
No longer is a system just on or off. You can program Luxor to set specific dimming percentages based on time. So when you arrive home at 6 p.m. and it's dark outside, you could have Luxor turn on



your path lights before you arrive, then dim them at a specific time. The possibilities are endless.

Chassis Diagram		Facepack Diagram	Accessor	ries
			LSAT300	
(THE IL			WIFIMOD	
	Chassis		LANMOD	
	_ Core Cover		LAM	
	Facepack Connection	Facepack	LUXORFPI	MN
	Chassis LED	LED Screen	*Not all iOS	5 & 7
	Terminal Blocks	Clickable Scroll Wheel	TECHNIC	AL
	Power Control Cover		Model	1
			Finishes	
			Depth	1
			Width	ð

Accessor	ies	
LSAT300		Satellite Luxor Unite
WIFIMOD		Wi-Fi module with antenna
LANMOD		LAN Module for cat5 connection
LAM		Light Assignment Module for iOS & Android Smartphones and tablets*
LUXORFPMNT Luxor Facepack Mount		Luxor Facepack Mount
*Not all iOS	*Not all iOS & Android devices will work with the LAM,	
TECHNICA	LSP	ECIFICATIONS
Model	150) or 300 watt
Finishes	Stainless Steel or Matte Gray powder coat	
Depth	5" / 12.7 cm	
Width	8" / 20.3 cm	
Height	13"	/ 33 cm



Now Luxor plays well with others

ZD MR-16 Replacement lamp

The ZD MR-16 is a convenient high-quality drop-in LED replacement lamp that converts incandescent fixtures to energy-efficient LED fixtures. When connected to a Luxor ZD or ZDC controller, the ZD MR-16 adds zoning, dimming, and Wi-Fi control capabilities to any brand of low voltage lighting fixture.

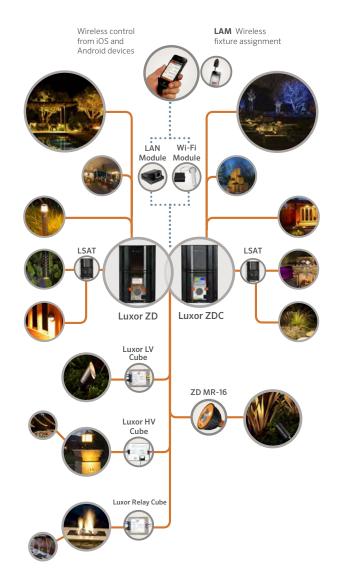


LUXOR CUBE

With the New LUXOR[®] CUBE, the Luxor can control, zone, and dim almost any brand of dimmable 12V or 110V light fixtures. It can also control any item that uses a relay input like gates and pond pumps. That makes it the ultimate system for outdoor home automation.



Luxor system control



Hunter Industries, Inc., 1940 Diamond Street San Marcos, CA 92078 USA FXLIT-167 A 9/16

FXLuminaire.

LUXOR[®] ZD/ZDC POWER CONTROLLER



LANDSCAPE LIGHTING A Hunter Industries Company

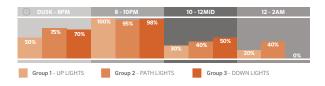
LUXOR[®] ZD

LUXOR[®] ZDC



Create any Ambiance. Anytime.

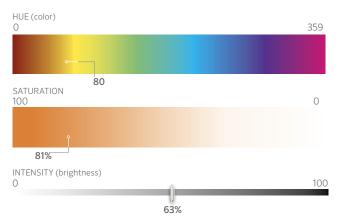
When Luxor® ZD controls an LED landscape lighting system, lights don't simply turn on and off. They come alive. Luxor offers both zoning and dimming capabilities that provide virtually limitless design possibilities. Zoning allows lights to be programmed into preset themes, which can be activated for special occasions. Dimming allows lights to automatically emit any desired intensity anytime, anywhere within a system.



FXLuminaire.

Zoning & Dimming + Color

The Luxor® ZDC provides the ability to create 30,000 colors using RGBW LED technology. With the ZDC, custom colors can be created for outdoor holiday displays, team spirit themes, company colors, or special events. Color temperatures can be adjusted to match vegetation and architecture, offering unique landscape looks throughout the year.



LUXOR[®] Wi-Fi Control

INTRODUCING Wi-Fi CONTROLLED LUXOR ZD

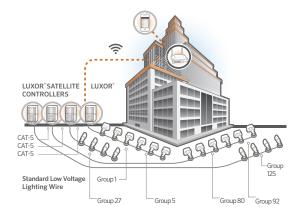
The Luxor Wi-Fi system is the next step in control for landscape lighting, adding onto the already versatile and limitless capabilities of the Luxor controller. Zoning, dimming and color are now controllable with iOS and Android devices for easy on-site control. All programs remain independent within each controller, allowing for maximum automatic control.



Adjust lighting any time with the Luxor Wi-Fi app on your smartphone

LUXOR LINKING

Luxor Linking provides the ability to control a multiple controller site while maintaining a single point of control. Link up to nine Satellite controllers to one Primary controller. Once linked, the Primary Luxor controls all groups, programs and themes.





11525 W. North Ave. Suite 1b Wauwatoasa, WI 53226 (414)-476-1204 email: mdavis@insitelandscape.com www.insitelandscape.com