



0 35 70 140 210 280 Feet

PD-63

SP2024-025: Site Plan For HTEAO

549 SFM549



Case Location Map = 



# City of Rockwall

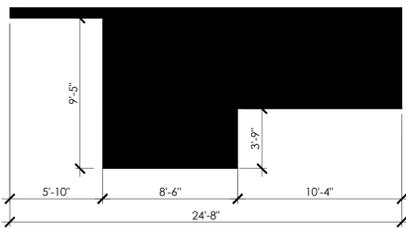
Planning & Zoning Department  
 385 S. Goliad Street  
 Rockwall, Texas 75087  
 (P): (972) 771-7745  
 (W): www.rockwall.com

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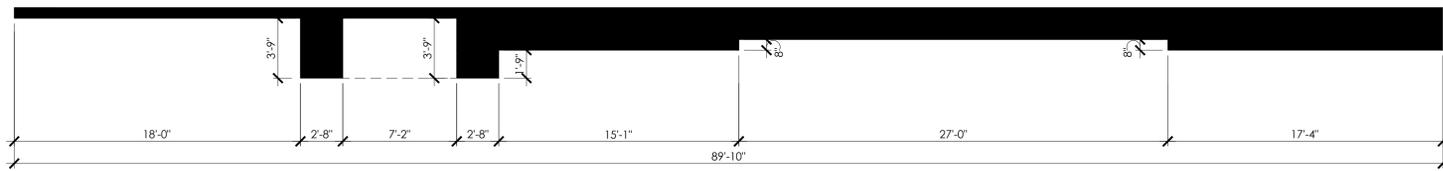
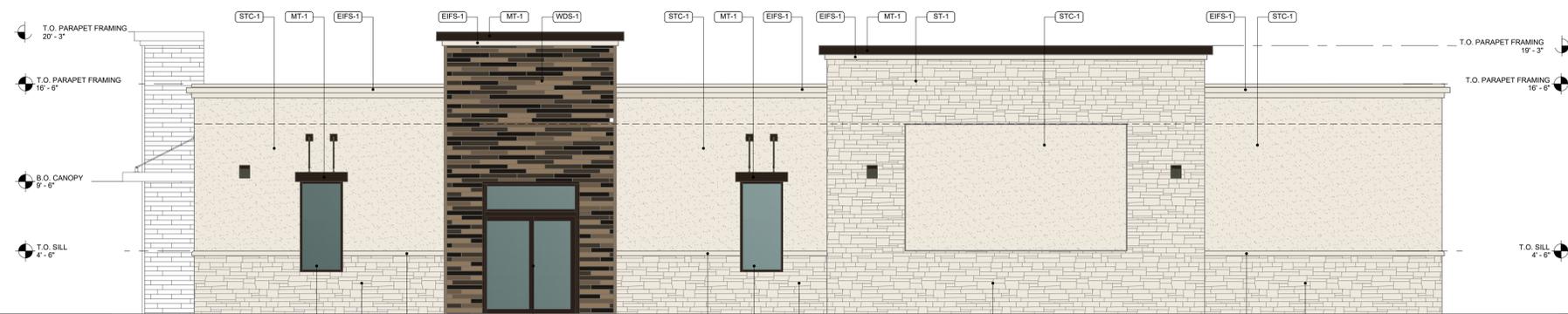


No.	DATE	REVISION DESCRIPTION



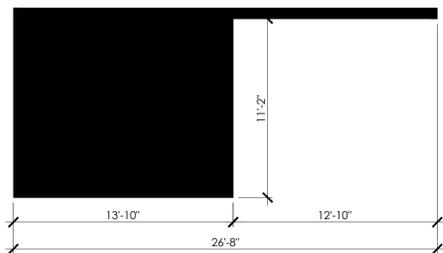
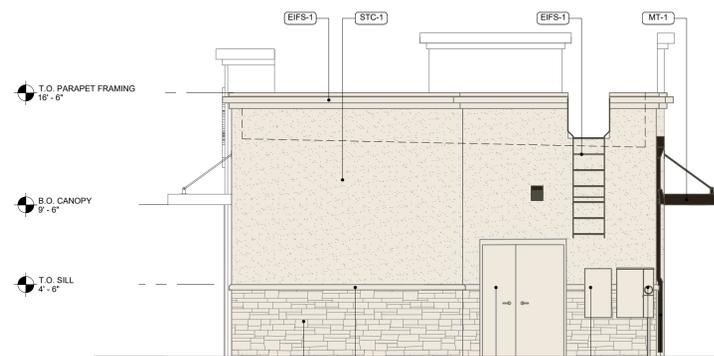
Southwest Elevation Materials	SF	Percent
ST-1	99 sf	24.0%
ST-2	7.5 sf	2.0%
WDS-1	125 sf	29.0%
STC-1	160 sf	38.0%
EIFS-1	20 sf	5%
MT-1	8.5 sf	2.0%
Total	420 sf	100%

1 ELEVATION - SOUTHWEST  
 3/16" = 1'-0"



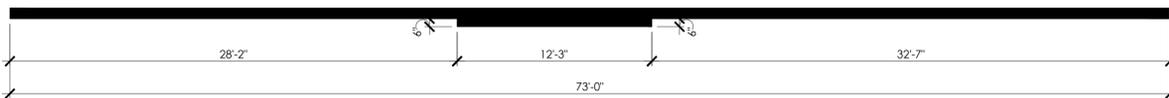
Southeast Elevation Materials	SF	Percent
ST-1	527 sf	36.0%
ST-2	15 sf	1.0%
WDS-1	172 sf	12.0%
STC-1	661 sf	46.0%
EIFS-1	64 sf	4.0%
MT-1	11 sf	1.0%
Total	1,450 sf	100%

2 ELEVATION - SOUTHEAST  
 3/16" = 1'-0"



Northeast Elevation Materials	SF	Percent
ST-1	89 sf	22.0%
ST-2	7 sf	2.0%
WDS-1	0 sf	0.0%
STC-1	274 sf	70.0%
EIFS-1	24 sf	6.0%
MT-1	0 sf	0.0%
Total	394 sf	100%

3 ELEVATION - NORTHEAST  
 3/16" = 1'-0"



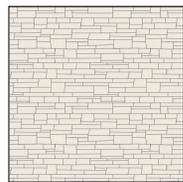
Northwest Elevation Materials	SF	Percent
ST-1	221 sf	20%
ST-2	14 sf	1.0%
WDS-1	210 sf	20%
STC-1	555 sf	50.0%
EIFS-1	66 sf	6.0%
MT-1	42 sf	4.0%
Total	1,106 sf	100%

4 ELEVATION - NORTHWEST  
 3/16" = 1'-0"

**MATERIAL SCHEDULE**



**WDS-1**  
 COMPOSITE WOOD  
 NEWTECH WOOD  
 AN EQUAL MIX OF THE FOLLOWING:  
 BRAZILIAN IPE  
 HAWAIIAN CHARCOAL  
 PERUVIAN TEAK  
 SPANISH WALNUT



**ST-1**  
 NATURAL STONE  
 SALADO STONE  
 LIMESTONE



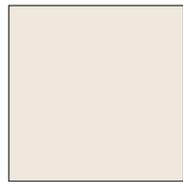
**STC-1**  
 THREE STEP STUCCO  
 FINE PEBBLE FINISH  
 PAINT (SW7002) DOWNY



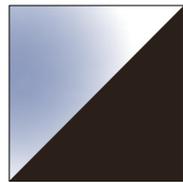
**EIFS-1**  
 DRYVIT  
 FINE PEBBLE FINISH  
 PAINT (SW7002) DOWNY



**ST-2**  
 STONE SILL  
 CORONADO STONE  
 900 SERIES  
 GREY



**P-1**  
 PAINT  
 SHERWIN WILLIAMS  
 SW7002  
 DOWNY



**S-1**  
 KAWNEER, "DARK BRONZE"  
 ALUMINUM  
 STOREFRONT FRAME 1" INSULATED  
 CLEAR GLAZING



**MT-1**  
 PRE-FINISHED  
 CANOPIES, DOWNSPOUTS, AND  
 METAL COPING  
 DARK BRONZE

**REQUIRED ARCHITECTURAL ELEMENTS - ACHIEVED**

- A** CANOPIES, AWNINGS, OR PORTICO - CANOPIES
- B** RECESSES/PROJECTIONS - TOWER ELEMENTS, OVERHANG SOFFIT ABOVE MAIN STOREFRONT
- C** ARCHITECTURAL DETAILS - DIFFERENT CORNICE TREATMENTS
- D** VARIED ROOF HEIGHTS

**PROJECT CONTACT LIST**

ARCHITECT	CIVIL ENGINEER	DEVELOPER
THE DIMENSION GROUP 10755 SANDHILL RD. DALLAS, TX 75238 214.343.9400 ALEXANDRA MATIS AMATIS@ DIMENSIONGROUP.COM	THE DIMENSION GROUP 10755 SANDHILL RD. DALLAS, TX 75238 214.343.9400 KEATON MAI KMAI@ DIMENSIONGROUP.COM	PRUDENT DEVELOPMENT 10755 SANDHILL RD. DALLAS, TX 75238 214.271.4630 MICHAEL HAMPTON MHAMPTON@ PRUDENTDEVELOPMENT.COM

**PROPOSED FACADE PLAN**

CITY CASE #TBD SH205 & FM549
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS DATE PREPARED : 05.15.2024



# PLANTING SPECIFICATIONS

## GENERAL

- A. QUALIFICATIONS OF LANDSCAPE CONTRACTOR**
- ALL LANDSCAPE WORK SHOWN ON THESE PLANS SHALL BE PERFORMED BY A SINGLE FIRM SPECIALIZING IN LANDSCAPE PLANTING.
  - A LIST OF SUCCESSFULLY COMPLETED PROJECTS OF THIS TYPE, SIZE AND NATURE MAY BE REQUESTED BY THE OWNER FOR FURTHER QUALIFICATION MEASURES.
  - THE LANDSCAPE CONTRACTOR SHALL HOLD A VALID NURSERY AND FLORAL CERTIFICATE ISSUED BY THE TEXAS DEPARTMENT OF AGRICULTURE, AS WELL AS OPERATE UNDER A COMMERCIAL PESTICIDE APPLICATOR LICENSE ISSUED BY EITHER THE TEXAS DEPARTMENT OF AGRICULTURE OR THE TEXAS STRUCTURAL PEST CONTROL BOARD.
  - THE LANDSCAPE CONTRACTOR SHALL HOLD A VALID CONTRACTOR'S LICENSE ISSUED BY THE APPROPRIATE LOCAL JURISDICTION.
- B. SCOPE OF WORK**
- WORK COVERED BY THESE SECTIONS INCLUDES THE FURNISHING AND PAYMENT OF ALL MATERIALS, LABOR, SERVICES, EQUIPMENT, LICENSES, TAXES AND ANY OTHER ITEMS THAT ARE NECESSARY FOR THE EXECUTION, INSTALLATION AND COMPLETION OF ALL WORK, SPECIFIED HEREIN AND /OR SHOWN ON THE LANDSCAPE PLANS, NOTES, AND DETAILS.
  - ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER SUCH WORK, INCLUDING ALL INSPECTIONS AND PERMITS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES FOR SUPPLY, TRANSPORTATION AND INSTALLATION OF MATERIALS.
  - THE LANDSCAPE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITY LINES (WATER, SEWER, ELECTRICAL, TELEPHONE, GAS, CABLE, TELEVISION, ETC.) PRIOR TO THE START OF ANY WORK.

## PRODUCTS

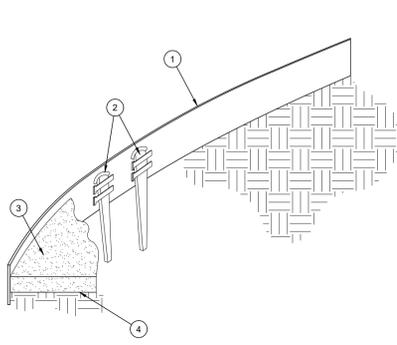
- A. ALL MANUFACTURED PRODUCTS SHALL BE NEW.**
- B. CONTAINER AND BALLED-AND-BURLAPPED PLANTS:**
- FURNISH NURSERY-GROWN PLANTS COMPLYING WITH ANSI Z60.1-2014. PROVIDE WELL-SHAPED, FULLY BRANCHED, HEALTHY, VIGOROUS STOCK FREE OF DISEASE, INSECTS, EGGS, LARVAE AND DEFECTS SUCH AS KNOTS, SUN SCALD, INJURIES, ABRASIONS, AND DISFIGUREMENT. ALL PLANTS WITHIN A SPECIES SHALL HAVE SIMILAR SIZE, AND SHALL BE OF A FORM TYPICAL FOR THE SPECIES. ALL TREES SHALL BE OBTAINED FROM SOURCES WITHIN 200 MILES OF THE PROJECT SITE, AND WITH SIMILAR CLIMATIC CONDITIONS.
  - ROOT SYSTEMS SHALL BE HEALTHY, DENSELY BRANCHED ROOT SYSTEMS, NON-POT-BOUND, FREE FROM GIRDLING AND/OR GIRDLING ROOTS, AND FREE FROM ANY OTHER ROOT DEFECTS (SUCH AS J-SHAPED ROOTS).
  - TREES MAY BE PLANTED FROM CONTAINERS OR BALLED-AND-BURLAPPED (B&B), UNLESS SPECIFIED ON THE PLANTING LEGEND. BARE-ROOT TREES ARE NOT ACCEPTABLE.
  - ANY PLANT DEEMED UNACCEPTABLE BY THE LANDSCAPE ARCHITECT OR OWNER SHALL BE IMMEDIATELY REMOVED FROM THE SITE AND SHALL BE REPLACED WITH AN ACCEPTABLE PLANT OF LIKE TYPE AND SIZE AT THE CONTRACTOR'S OWN EXPENSE. ANY PLANTS APPEARING TO BE UNHEALTHY, EVEN IF DETERMINED TO STILL BE ALIVE, SHALL NOT BE ACCEPTED. THE LANDSCAPE ARCHITECT AND OWNER SHALL BE THE SOLE JUDGES AS TO THE ACCEPTABILITY OF PLANT MATERIAL.
  - ALL TREES SHALL BE STANDARD IN FORM, UNLESS OTHERWISE SPECIFIED. TREES WITH CENTRAL LEADERS WILL NOT BE ACCEPTED IF LEADER IS DAMAGED OR REMOVED. PRUNE ALL DAMAGED TWIGS AFTER PLANTING.
  - CALIPER MEASUREMENTS FOR STANDARD (SINGLE TRUNK) TREES SHALL BE AS FOLLOWS: SIX INCHES ABOVE THE ROOT FLARE FOR TREES UP TO AND INCLUDING FOUR INCHES IN CALIPER, AND TWELVE INCHES ABOVE THE ROOT FLARE FOR TREES EXCEEDING FOUR INCHES IN CALIPER.
  - MULTI-TRUNK TREES SHALL BE MEASURED BY THEIR OVERALL HEIGHT, MEASURED FROM THE TOP OF THE ROOT BALL, WHERE CALIPER MEASUREMENTS ARE USED, THE CALIPER SHALL BE CALCULATED AS ONE-HALF OF THE SUM OF THE CALIPER OF THE THREE LARGEST TRUNKS.
  - ANY TREE OR SHRUB SHOWN TO HAVE EXCESS SOIL PLACED ON TOP OF THE ROOT BALL, SO THAT THE ROOT FLARE HAS BEEN COMPLETELY COVERED, SHALL BE REJECTED.
- C. SOD:** PROVIDE WELL-ROOTED SOD OF THE VARIETY NOTED ON THE PLANS. SOD SHALL BE CUT FROM HEALTHY, MATURE TURF WITH SOIL THICKNESS OF 3/4" TO 1" - EACH PALLET OF SOD SHALL BE ACCOMPANIED BY A CERTIFICATE FROM SUPPLIER STATING THE COMPOSITION OF THE SOD.
- D. SEED:** PROVIDE BLEND OF SPECIES AND VARIETIES AS NOTED ON THE PLANS, WITH MAXIMUM PERCENTAGES OF PERENNIALS, ANNUALS, AND MINIMUM PERCENTAGE OF WEED SEEDS AS INDICATED ON PLANS. EACH BAG OF SEED SHALL BE ACCOMPANIED BY A TAG FROM THE SUPPLIER INDICATING THE COMPOSITION OF THE SEED.
- E. TOPSOIL:** SANDY TO CLAY LOAM TOPSOIL, FREE OF STONES LARGER THAN 1/2 INCH, FOREIGN MATTER, PLANTS, ROOTS, AND SEEDS.
- F. COMPOST:** WELL-COMPOSTED, STABLE, AND WEED-FREE ORGANIC MATTER, pH RANGE OF 5.5 TO 8; MOISTURE CONTENT 35 TO 55 PERCENT; THICKNESS THROUGHOUT 4 INCHES; SOLUBLE SALT CONTENT OF 5 TO 10 PERCENT; NOT EXCEEDING 0.5 PERCENT INERT CONTAMINANTS AND FREE OF SUBSTANCES TOXIC TO PLANTINGS. NO MANURE OR ANIMAL-BASED PRODUCTS SHALL BE USED.
- G. PLANTING MIX FOR POTS:** AN EQUAL PART MIXTURE OF TOPSOIL, SAND AND COMPOST. INCORPORATE "GELSCAPE", AS MADE BY AMEREO, INC., (800) 832-8788, AT THE RATE OF 3 LB. PER CUBIC YARD OF PLANTING MIX.
- H. FERTILIZER:** GRANULAR FERTILIZER CONSISTING OF NITROGEN, PHOSPHORUS, POTASSIUM, AND OTHER NUTRIENTS IN PROPORTIONS, AMOUNTS, AND RELEASE RATES RECOMMENDED IN A SOIL REPORT FROM A QUALIFIED SOIL-TESTING AGENCY (SEE BELOW).
- I. PALM MAINTENANCE SPIKES:** AS MANUFACTURED BY THE LUTZ CORP. (800) 203-7740, OR APPROVED EQUAL.
- J. MULCH:** SIZE AND TYPE AS INDICATED ON PLANS, FREE FROM DELETERIOUS MATERIALS AND SUITABLE AS A TOP DRESSING OF TREES AND SHRUBS.
- K. TREE STAKING AND CUTTING**
- STAKES: 6" LONG GREEN METAL T-POSTS.
  - GUY AND TIE WIRE: ASTM A 641, CLASS 1, GALVANIZED-STEEL WIRE, 2-STRAND, TWISTED, 0.108 INCH DIAMETER.
  - STRAP CHAFING GUARD: REINFORCED NYLON OR CANVAS AT LEAST 1-1/2 INCH WIDE, WITH GROMMETS TO PROTECT TREE TRUNKS FROM DAMAGE.
- L. STEEL EDGING:** PROFESSIONAL STEEL EDGING, 14 GAUGE THICK X 4 INCHES WIDE, FACTORY PAINTED DARK GREEN. ACCEPTABLE MANUFACTURERS INCLUDE COL-MET OR APPROVED EQUAL.
- M. PRE-EMERGENT HERBICIDES:** ANY GRANULAR, NON-STAINING PRE-EMERGENT HERBICIDE THAT IS LABELED FOR THE SPECIFIC ORNAMENTALS OR TURF ON WHICH IT WILL BE UTILIZED. PRE-EMERGENT HERBICIDES SHALL BE APPLIED PER THE MANUFACTURER'S LABELED RATES.

## METHODS

- A. SOIL PREPARATION**
- BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE GRADE OF ALL LANDSCAPE AREAS ARE WITHIN +/-0.1' OF FINISH GRADE. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY SHOULD ANY DISCREPANCIES EXIST.
  - SOIL TESTING:
    - AFTER FINISH GRADES HAVE BEEN ESTABLISHED, CONTRACTOR SHALL HAVE SOIL SAMPLES FROM THE PROJECT'S LANDSCAPE AREAS TESTED BY AN ESTABLISHED SOIL TESTING LABORATORY. EACH SAMPLE SUBMITTED TO THE LAB SHALL CONTAIN NO LESS THAN ONE QUART OF SOIL, TAKEN FROM BETWEEN THE SOIL SURFACE AND 6" DEPTH. IF NO SAMPLE LOCATIONS ARE INDICATED ON THE PLANS, THE CONTRACTOR SHALL TAKE A MINIMUM OF THREE SAMPLES FROM VARIOUS REPRESENTATIVE LOCATIONS FOR TESTING.
    - THE CONTRACTOR SHALL HAVE THE SOIL TESTING LABORATORY PROVIDE RESULTS FOR THE FOLLOWING: SOIL TEXTURAL CLASSIFICATION, GENERAL SOIL FERTILITY, pH, ORGANIC MATTER CONTENT, SALT (EC), LIME, SODIUM ADSORPTION RATIO (SAR) AND BORON CONTENT.
    - THE CONTRACTOR SHALL ALSO SUBMIT THE PROJECT'S PLANT LIST TO THE LABORATORY ALONG WITH THE SOIL SAMPLES.
    - THE SOIL REPORT PRODUCED BY THE LABORATORY SHALL CONTAIN RECOMMENDATIONS FOR THE FOLLOWING (AS APPROPRIATE): SEPARATE SOIL PREPARATION AND BACKFILL MIX RECOMMENDATIONS FOR GENERAL ORNAMENTAL PLANTS, XERIC PLANTS, TURF, AND NATIVE SEED, AS WELL AS PRE-PLANT FERTILIZER APPLICATIONS AND RECOMMENDATIONS FOR ANY OTHER SOIL RELATED ISSUES. THE REPORT SHALL ALSO PROVIDE A FERTILIZER PROGRAM FOR THE ESTABLISHMENT PERIOD AND FOR LONG-TERM MAINTENANCE.
    - THE CONTRACTOR SHALL INSTALL SOIL AMENDMENTS AND FERTILIZERS PER THE SOILS REPORT RECOMMENDATIONS, ANY CHANGE IN COST DUE TO THE SOILS REPORT RECOMMENDATIONS, EITHER INCREASE OR DECREASE, SHALL BE SUBMITTED TO THE OWNER WITH THE REPORT FOR BIDDING PURPOSES ONLY. THE SOIL PREPARATION SHALL CONSIST OF THE FOLLOWING:
      - TURF: INCORPORATE THE FOLLOWING AMENDMENTS INTO THE TOP 8" OF SOIL BY MEANS OF ROTOTILLING AFTER CROSS-RIPPING:
        - NITROGEN STABILIZED ORGANIC AMENDMENT - 4 CU. YDS. PER 1,000 S.F.
        - PRE-PLANT TURF FERTILIZER (10-20-10 OR SIMILAR, SLOW RELEASE, ORGANIC) - 15 LBS PER 1,000 S.F.
      - "CLAY BUSTER" OR EQUAL - USE MANUFACTURER'S RECOMMENDED RATE
      - TREES, SHRUBS, AND PERENNIALS: INCORPORATE THE FOLLOWING AMENDMENTS INTO THE TOP 8" OF SOIL BY MEANS OF ROTOTILLING AFTER CROSS-RIPPING:
        - NITROGEN STABILIZED ORGANIC AMENDMENT - 4 CU. YDS. PER 1,000 S.F.
        - 12-12-12 FERTILIZER (OR SIMILAR, ORGANIC, SLOW RELEASE) - 10 LBS PER CU. YD.
        - "CLAY BUSTER" OR EQUAL - USE MANUFACTURER'S RECOMMENDED RATE (IRON SULPHATE) - 2 LBS PER CU. YD.
    - IN THE CONTEXT OF THESE PLANS, NOTES, AND SPECIFICATIONS, "FINISH GRADE" REFERS TO THE FINAL ELEVATION OF THE SOIL SURFACE (NOT TOP OF MULCH) AS INDICATED ON THE GRADING PLANS.
    - BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE ROUGH GRADES OF ALL LANDSCAPE AREAS ARE WITHIN +/-0.1' OF FINISH GRADE. SEE SPECIFICATIONS FOR MORE DETAILED INSTRUCTION ON TURF AREA AND PLANTING BED PREPARATION.
    - CONSTRUCT AND MAINTAIN FINISH GRADES ON GRADING PLANS, AND CONSTRUCT AND MAINTAIN SLOPES AS RECOMMENDED BY THE GEOTECHNICAL REPORT. ALL LANDSCAPE AREAS SHALL HAVE POSITIVE DRAINAGE AWAY FROM STRUCTURES AT THE MINIMUM SLOPE SPECIFIED IN THE REPORT AND ON THE GRADING PLANS, AND AREAS OF POTENTIAL PONDING SHALL BE REGRADED TO BLEND IN WITH THE SURROUNDING GRADES AND ELIMINATE PONDING POTENTIAL.
    - THE LANDSCAPE CONTRACTOR SHALL DETERMINE WHETHER OR NOT THE EXPORT OF ANY SOIL WILL BE NEEDED, TAKING INTO ACCOUNT THE ROUGH GRADE PROVIDED, THE AMOUNT OF SOIL AMENDMENTS TO BE ADDED (BASED ON A SOIL TEST, PER SPECIFICATIONS), AND THE FINISH GRADES TO BE ESTABLISHED.
    - ENSURE THAT THE FINISH GRADE IN TURF AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 3" BELOW THE ADJACENT FINISH SURFACE, IN ORDER TO ALLOW FOR PROPER MULCH DEPTH AND TO MEET FINISH GRADE. AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
    - ENSURE THAT THE FINISH GRADE IN TURF AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 1" BELOW THE FINISH SURFACE OF THE WALKS. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
    - SHOULD ANY CONFLICTS AND/OR DISCREPANCIES ARISE BETWEEN THE GRADING PLANS, GEOTECHNICAL REPORT, THESE NOTES AND PLANS, AND ACTUAL CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY BRING SUCH ITEMS TO THE ATTENTION OF THE LANDSCAPE ARCHITECT, GENERAL CONTRACTOR, AND OWNER.
    - ONCE SOIL PREPARATION IS COMPLETE, THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT THERE ARE NO DEBRIS, TRASH, OR STONES LARGER THAN 1" REMAINING IN THE TOP 6" OF SOIL.

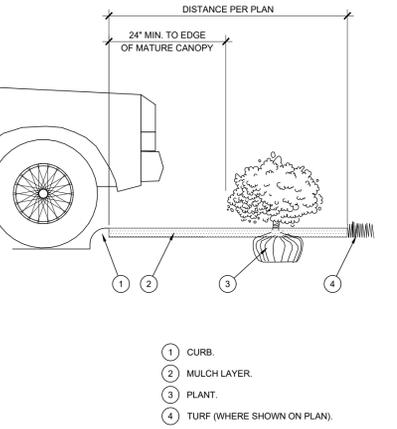
## B. SUBMITTALS

- THE CONTRACTOR SHALL PROVIDE SUBMITTALS AND SAMPLES, IF REQUIRED, TO THE LANDSCAPE ARCHITECT, AND RECEIVE APPROVAL IN WRITING FOR SUCH SUBMITTALS BEFORE WORK COMMENCES.
  - SUBMITTALS SHALL INCLUDE PHOTOS OF PLANTS WITH A RULER OR MEASURING STICK FOR SCALE. PHOTOS OR SAMPLES OF ANY REQUIRED MULCHES, AND SOIL TEST RESULTS AND PREPARATION RECOMMENDATIONS FROM THE TESTING LAB (INCLUDING COMPOST AND FERTILIZER RATES AND TYPES, AND OTHER AMENDMENTS FOR TREE/SHRUB, TURF, AND SEED AREAS AS MAY BE APPROPRIATE).
  - SUBMITTALS SHALL ALSO INCLUDE MANUFACTURER CUT SHEETS FOR PLANTING ACCESSORIES SUCH AS TREE STAKES AND TIES, EDGING, AND LANDSCAPE FABRICS (IF ANY).
  - WHERE MULTIPLE ITEMS ARE SHOWN ON A PAGE, THE CONTRACTOR SHALL CLEARLY INDICATE THE ITEM BEING CONSIDERED.
- C. GENERAL PLANTING**
- REMOVE ALL NURSERY TAGS AND STAKES FROM PLANTS.
  - EXCEPT IN AREAS TO BE PLANTED WITH ORNAMENTAL GRASSES, APPLY PRE-EMERGENT HERBICIDES AT THE MANUFACTURER'S RECOMMENDED RATE.
  - TRENCHING NEAR EXISTING TREES:
    - CONTRACTOR SHALL NOT DISTURB ROOTS 1-1/2" AND LARGER IN DIAMETER WITHIN THE CRITICAL ROOT ZONE (CRZ) OF EXISTING TREES, AND SHALL EXERCISE ALL POSSIBLE CARE AND PRECAUTIONS TO AVOID INJURY TO TREE ROOTS, TRUNKS, AND BRANCHES. THE CRZ IS DEFINED AS A CIRCULAR AREA EXTENDING OUTWARD FROM THE TREE TRUNK, WITH A RADIUS EQUAL TO 1" FOR EVERY 1" OF TRUNK DIAMETER-AT-BREAST-HEIGHT (4.5' ABOVE THE AVERAGE GRADE AT THE TRUNK).
    - ALL EXCAVATION WITHIN THE CRZ SHALL BE PERFORMED USING HAND TOOLS. NO MACHINE EXCAVATION OR TRENCHING OF ANY KIND SHALL BE ALLOWED WITHIN THE CRZ.
    - ALTER ALIGNMENT OF PIPE TO AVOID TREE ROOTS 1-1/2" AND LARGER IN DIAMETER, WHERE TREE ROOTS 1-1/2" AND LARGER IN DIAMETER ARE ENCOUNTERED IN THE FIELD, TUNNEL UNDER SUCH ROOTS. WRAP EXPOSED ROOTS WITH SEVERAL LAYERS OF BURLAP AND KEEP MOIST. CLOSE ALL TRENCHES WITHIN THE CANOPY DRIP LINES WITHIN 24 HOURS.
    - ALL SEVERED ROOTS SHALL BE HAND PRUNED WITH SHARP TOOLS AND ALLOWED TO AIR-DRY. DO NOT USE ANY SORT OF SEALERS OR WOUND PAINTS.
- D. TREE PLANTING**
- TREE PLANTING HOLES SHALL BE EXCAVATED TO MINIMUM WIDTH OF TWO TIMES THE WIDTH OF THE ROOTBALL, AND TO A DEPTH EQUAL TO THE DEPTH OF THE ROOTBALL LESS TWO TO FOUR INCHES. SCARIFY THE SIDES AND BOTTOM OF THE PLANTING HOLE PRIOR TO THE PLACEMENT OF THE TREE. REMOVE ANY GLASS THAT MAY HAVE BEEN CAUSED DURING THE EXCAVATION OF THE HOLE. FOR CONTAINER AND BOX TREES, TO REMOVE ANY POTENTIALLY GIRDLING ROOTS AND OTHER ROOT DEFECTS, THE CONTRACTOR SHALL SHAVE A 1" LAYER OFF OF THE SIDES AND BOTTOM OF THE ROOTBALL OF ALL TREES. BEFORE PLACING INTO THE PLANTING PIT, DO NOT "TEASE" ROOTS OUT FROM THE ROOTBALL.
  - INSTALL THE TREE ON UNDISTURBED SUBGRADE SO THAT THE TOP OF THE ROOTBALL IS TWO TO FOUR INCHES ABOVE FINISH GRADE.
  - BACKFILL THE TREE HOLE UTILIZING THE EXISTING TOPSOIL FROM ON-SITE. ROCKS LARGER THAN 1" DIA. AND ALL OTHER DEBRIS SHALL BE REMOVED FROM THE SOIL PRIOR TO THE BACKFILL. SHOULD ADDITIONAL TOPSOIL BE REQUIRED TO STABILIZE THE TREE, USE STORED TOPSOIL FROM ON-SITE OR IMPORT ADDITIONAL TOPSOIL FROM OFF-SITE AT NO ADDITIONAL COST TO THE OWNER. IMPORTED TOPSOIL SHALL BE OF SIMILAR TEXTURAL CLASS AND COMPOSITION IN THE ON-SITE SOIL.
  - STAKES SHALL NOT BE STAKED UNLESS AS HEAVY WINDS OR SLOPES REQUIRE STAKES TO KEEP TREES UPRIGHT. SHOULD STAKING BE REQUIRED, THE TOTAL NUMBER OF TREE STAKES (BEYOND THE MINIMUMS LISTED BELOW) WILL BE LEFT TO THE LANDSCAPE CONTRACTOR'S DISCRETION. SHOULD ANY TREES FALL OR LEAN, THE LANDSCAPE CONTRACTOR SHALL STRAIGHTEN THE TREE, OR REPLACE IT SHOULD IT BECOME DAMAGED. TREE STAKING SHALL ADHERE TO THE FOLLOWING GUIDELINES:
    - 1"-2" TREES: THREE STAKES PER TREE
    - 2"-12" TREES: THREE STAKES PER TREE
    - TREES OVER 4" CALIPER: GUY AS NEEDED
    - MULTI-TRUNK TREES: THREE STAKES PER TREE MINIMUM. QUANTITY AND POSITIONS AS NEEDED TO STABILIZE THE TREE
    - #15 CONT. - 24" BOX TREES: TWO STAKES PER TREE
    - #38 48" BOX TREES: THREE STAKES PER TREE
    - OVER 48" BOX TREES: GUY AS NEEDED
    - MULTI-TRUNK TREES: THREE STAKES PER TREE MINIMUM. QUANTITY AND POSITIONS AS NEEDED TO STABILIZE THE TREE
  - UPON COMPLETION OF PLANTING, CONSTRUCT AN EARTH WATERING BASIN AROUND THE TREE. COVER THE INTERIOR OF THE TREE RING WITH THE WEED BARRIER CLOTH AND TOPDRESS WITH MULCH (TYPE AND DEPTH PER PLANS).
- E. SHRUB, PERENNIAL, AND GROUND COVER PLANTING**
- DIG THE PLANTING HOLES TWICE AS WIDE AND 2" LESS DEEP THAN EACH PLANT'S ROOTBALL. INSTALL THE PLANT IN THE HOLE. BACKFILL AROUND THE PLANT WITH SOIL AMENDED PER SOIL TEST RECOMMENDATIONS.
  - INSTALL THE WEED BARRIER CLOTH, OVERLAPPING IT AT THE ENDS. UTILIZE STEEL STAPLES TO KEEP THE WEED BARRIER CLOTH IN PLACE.
  - WHEN PLANTING IS COMPLETE, INSTALL MULCH (TYPE AND DEPTH PER PLANS) OVER ALL PLANTING BEDS, COVERING THE ENTIRE PLANTING AREA.
- F. SODDING**
- SOD VARIETY TO BE AS SPECIFIED ON THE LANDSCAPE PLAN.
  - LAY SOD WITHIN 24 HOURS FROM THE TIME OF STRIPPING. DO NOT LAY IF THE GROUND IS FROZEN.
  - LAY THE SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS. BUTT ENDS AND SIDES OF SOD STOPS. DO NOT STRIP OR STAGGER JOINTS IN ADJACENT COURSES.
  - ROLL THE SOD TO ENSURE GOOD CONTACT OF THE SOD'S ROOT SYSTEM WITH THE SOIL UNDERNEATH.
  - WATER THE SOD THOROUGHLY WITH A FINE SPRAY IMMEDIATELY AFTER PLANTING TO OBTAIN AT LEAST SIX INCHES OF PENETRATION INTO THE SOIL BELOW THE SOD.
- G. HYDROMULCHING**
- TURF HYDROMULCH MIX (PER 1,000 SF) SHALL BE AS FOLLOWS:
    - WINTER MIX (OCTOBER 1 - MARCH 31)
      - 50# CELLULOSE FIBER MULCH
      - 2# UNHULLED BERMUDA SEED
      - 2# ANNUAL RYE SEED
    - 15# 15-15-15 WATER SOLUBLE FERTILIZER
    - SUMMER MIX (APRIL 1 - SEPTEMBER 30)
      - 50# CELLULOSE FIBER MULCH
      - 2# HULLED BERMUDA SEED
      - 15# 15-15-15 WATER SOLUBLE FERTILIZER
  - SEED HYDROMULCH MIX (PER 1,000 SF) SHALL BE AS FOLLOWS:
    - GENERAL
      - 50# CELLULOSE FIBER MULCH
      - 15# 15-15-15 WATER SOLUBLE FERTILIZER
      - SEED RATE PER LEGEND
- H. DRILL SEEDING**
- ALL SEED SHALL BE DRILL SEEDED AT THE RATES SHOWN ON THE PLANS, WITH A HYDROMULCH MIX APPLIED AFTER SEEDING.
  - THE HYDROMULCH MIX (PER 1,000 SF) SHALL BE AS FOLLOWS:
    - 50# CELLULOSE FIBER MULCH
    - 15# 15-15-15 WATER SOLUBLE FERTILIZER
    - 4# ORGANIC BINDER
- I. MULCH**
- INSTALL MULCH TOPDRESSING, TYPE AND DEPTH PER MULCH NOTE, IN ALL PLANTING AREAS AND TREE RINGS.
  - DO NOT INSTALL MULCH WITHIN 6" OF TREE ROOT FLARE AND WITHIN 24" OF HABITABLE STRUCTURES, EXCEPT AS MAY BE NOTED ON THESE PLANS. MULCH COVER WITHIN 6" OF CONCRETE WALKS AND CURBS SHALL NOT PROTRUDE ABOVE THE FINISH SURFACE OF THE WALKS AND CURBS. MULCH COVER WITHIN 12" OF WALLS SHALL BE AT LEAST 3" LOWER THAN THE TOP OF WALL.
- J. CLEAN UP**
- DURING LANDSCAPE PREPARATION AND PLANTING, KEEP ALL PAVEMENT CLEAN AND ALL WORK AREAS IN A NEAT, ORDERLY CONDITION.
  - DISPOSED LEGALLY OF ALL EXCAVATED MATERIALS OFF THE PROJECT SITE.
- K. INSPECTION AND ACCEPTANCE**
- UPON COMPLETION OF THE WORK, THE LANDSCAPE CONTRACTOR SHALL PROVIDE THE SITE CLEAN, FREE OF DEBRIS AND TRASH, AND SUITABLE FOR USE AS INTENDED. THE LANDSCAPE CONTRACTOR SHALL THEN REQUEST AN INSPECTION BY THE OWNER TO DETERMINE FINAL ACCEPTABILITY.
  - WHEN THE INSPECTED PLANTING WORK DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS, THE LANDSCAPE CONTRACTOR SHALL REPLACE AND/OR REPAIR THE REJECTED WORK TO THE OWNER'S SATISFACTION WITHIN 24 HOURS.
  - THE LANDSCAPE MAINTENANCE PERIOD WILL NOT COMMENCE UNTIL THE LANDSCAPE WORK HAS BEEN RE-INSPECTED BY THE OWNER AND FOUND TO BE ACCEPTABLE. AT THAT TIME, A WRITTEN NOTICE OF FINAL ACCEPTANCE WILL BE ISSUED BY THE OWNER, AND THE MAINTENANCE AND GUARANTEE PERIODS WILL COMMENCE.
- L. LANDSCAPE MAINTENANCE**
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL WORK SHOWN ON THESE PLANS FOR 90 DAYS BEYOND FINAL ACCEPTANCE. ALL LANDSCAPE WORK BY THE OWNER, LANDSCAPE MAINTENANCE SHALL INCLUDE WEEKLY SITE VISITS FOR THE FOLLOWING ACTIONS (AS APPROPRIATE): PROPER PRUNING, RESTAKING OF TREES, RESETTling OF PLANTS THAT HAVE SETTLED, MOWING AND AERATION OF LAWNS, WEEDING, RESEEDING AREAS WHICH HAVE NOT GERMINATED WELL, TREATING FOR INSECTS AND DISEASES, REPLACEMENT OF MULCH, REMOVAL OF LITTER, REPAIRS TO THE IRRIGATION SYSTEM DUE TO FAULTY PARTS AND/OR WORKSMANSHIP, AND THE APPROPRIATE TENDING OF ALL PLANTINGS. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN THE IRRIGATION SYSTEM IN PROPER WORKING ORDER, WITH SCHEDULING ADJUSTMENTS BY SEASON TO MAXIMIZE WATER CONSERVATION.
  - SEEDED AREAS MUST BE ACTIVELY GROWING, AND MUST REACH A MINIMUM HEIGHT OF 1 1/2 INCHES BEFORE FIRST MOWING. HYDROMULCHED AREAS SHALL SHOW ACTIVE, HEALTHY GROWTH. BARE AREAS LARGER THAN TWELVE SQUARE INCHES MUST BE RESEDED OR RESEEDED (AS APPROPRIATE) PRIOR TO FINAL ACCEPTANCE. ALL SODDED TURF SHALL BE NEATLY MOWED.
  - THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL TREES, SHRUBS, PERENNIALS, SOD, SEEDED/HYDROMULCHED AREAS, AND IRRIGATION SYSTEMS FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE OWNER'S FINAL ACCEPTANCE (90 DAYS FOR ANNUAL PLANTS). THE CONTRACTOR SHALL REPLACE, AT HIS OWN EXPENSE AND TO THE SATISFACTION OF THE OWNER, ANY PLANTS WHICH DIE IN THAT TIME, OR REPAIR ANY PORTIONS OF THE IRRIGATION SYSTEM WHICH OPERATE IMPROPERLY.
  - AFTER THE INITIAL MAINTENANCE PERIOD AND DURING THE GUARANTEE PERIOD, THE LANDSCAPE CONTRACTOR SHALL ONLY BE RESPONSIBLE FOR REPLACEMENT OF PLANTS WHEN PLANT DEATH CANNOT BE ATTRIBUTED TO OVERWATERING OR OTHER DAMAGE BY HUMAN ACTIONS.
  - PROVIDE A MINIMUM OF (2) COPIES OF RECORD DRAWINGS TO THE OWNER UPON COMPLETION OF WORK. A RECORD DRAWING IS A RECORD OF ALL CHANGES THAT OCCURRED IN THE FIELD AND THAT ARE DOCUMENTED THROUGH CHANGE ORDERS, ADDENDA, OR CONTRACTOR CONSULTANT DRAWING MARKUPS.

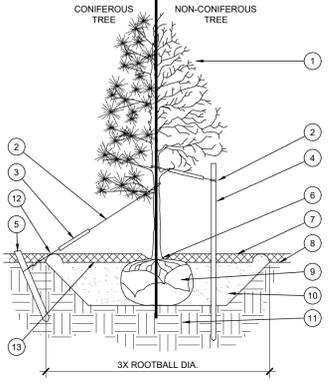
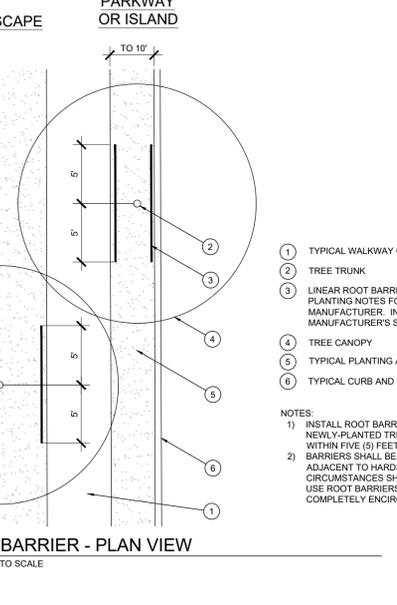


- 1** TREE CANOPY.  
**2** CINCH-TIES (24" BOX/2" CAL. TREES AND SMALLER) OR 12 GAUGE GALVANIZED WIRE WITH NYLON TREE STRAPS AT TREE AND STAKE (36" BOX/2.5" CAL. TREES AND LARGER). SECURE TIES OR STRAPS TO TRUNK JUST ABOVE LOWEST MAJOR BRANCHES.  
**3** 24" X 3/4" P.V.C. MARKERS OVER WIRES.  
**4** GREEN STEEL T-POSTS. EXTEND POSTS 12" MIN. INTO UNDISTURBED SOIL.  
**5** PRESSURE-TREATED WOOD DEADMAN, TWO PER TREE (MIN.). BURY OUTSIDE OF PLANTING PIT AND 16" MIN. INTO UNDISTURBED SOIL.  
**6** TRUNK FLARE.  
**7** MULCH, TYPE AND DEPTH PER PLANS. DO NOT PLACE MULCH WITHIN 6" OF TRUNK.  
**8** FINISH GRADE.  
**9** ROOT BALL.  
**10** BACKFILL. AMEND AND FERTILIZE ONLY AS RECOMMENDED IN SOIL FERTILITY ANALYSIS.  
**11** UNDISTURBED NATIVE SOIL.  
**12** 4" HIGH EARTHEN WATERING BASIN.  
**13** FINISH GRADE.

**D STEEL EDGING**  
SCALE: NOT TO SCALE

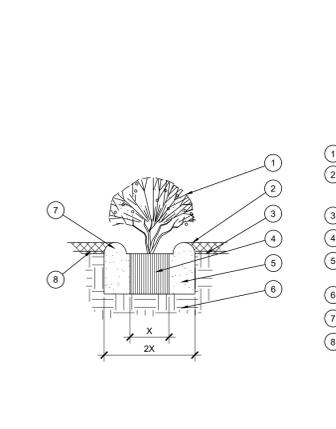


**E PLANTING AT PARKING AREA**  
SCALE: NOT TO SCALE

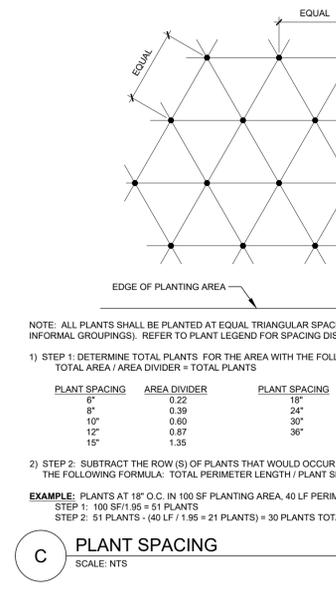


- 1** ROLLED-TOP STEEL EDGING PER PLANS.  
**2** TAPERED STEEL STAKES.  
**3** MULCH, TYPE AND DEPTH PER PLANS.  
**4** FINISH GRADE.

**A TREE PLANTING**  
SCALE: NOT TO SCALE



**B SHRUB AND PERENNIAL PLANTING**  
SCALE: NTS



- 1** SHRUB, PERENNIAL, OR ORNAMENTAL GRASS.  
**2** MULCH, TYPE AND DEPTH PER PLANS. PLACE NO MORE THAN 1" OF MULCH WITHIN 6" OF PLANT CENTER.  
**3** FINISH GRADE.  
**4** ROOT BALL.  
**5** BACKFILL. AMEND AND FERTILIZE ONLY AS RECOMMENDED IN SOIL FERTILITY ANALYSIS.  
**6** UNDISTURBED NATIVE SOIL.  
**7** 3" HIGH EARTHEN WATERING BASIN.  
**8** WEED FABRIC UNDER MULCH.
- NOTES:**
- ALL PLANTS SHALL BE PLANTED AT EQUAL TRIANGULAR SPACING (EXCEPT WHERE SHOWN ON PLANS AS INFORMAL GROUPINGS). REFER TO PLANT LEGEND FOR SPACING DISTANCE BETWEEN PLANTS.
  - STEP 1: DETERMINE TOTAL PLANTS FOR THE AREA WITH THE FOLLOWING FORMULA:  
 TOTAL AREA / AREA DIVIDER = TOTAL PLANTS
 

PLANT SPACING	AREA DIVIDER	PLANT SPACING	AREA DIVIDER
6"	0.22	18"	1.95
8"	0.39	24"	3.46
10"	0.60	30"	6.41
12"	0.87	36"	7.79
15"	1.35		
  - STEP 2: SUBTRACT THE ROW (S) OF PLANTS THAT WOULD OCCUR AT THE EDGE OF THE PLANTED AREA WITH THE FOLLOWING FORMULA: TOTAL PERIMETER LENGTH / PLANT SPACING = TOTAL PLANT SUBTRACTION  
 EXAMPLE: PLANTS AT 18" O.C. IN 100 SF PLANTING AREA, 40 LF PERIMETER  
 STEP 1: 100 SF / 1.95 = 51 PLANTS  
 STEP 2: 91 PLANTS - (40 LF / 1.95 = 21 PLANTS) = 30 PLANTS TOTAL

**THE DIMENSION GROUP**  
 ARCHITECTURE - CIVIL ENGINEERING - MEP ENGINEERING  
 TEL: 214-433-9400 www.dimensiongroup.com

REVISION DESCRIPTION

#	DATE	BY	REVISION DESCRIPTION
1	5/16/2024	HTeaO	Rockwall TX LP
2	5/16/2024	HTeaO	Rockwall TX LP
3	5/16/2024	HTeaO	Rockwall TX LP
4	5/16/2024	HTeaO	Rockwall TX LP
5	5/16/2024	HTeaO	Rockwall TX LP
6	5/16/2024	HTeaO	Rockwall TX LP
7	5/16/2024	HTeaO	Rockwall TX LP
8	5/16/2024	HTeaO	Rockwall TX LP
9	5/16/2024	HTeaO	Rockwall TX LP
10	5/16/2024	HTeaO	Rockwall TX LP
11	5/16/2024	HTeaO	Rockwall TX LP
12	5/16/2024	HTeaO	Rockwall TX LP
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48	5/16/2024	HTeaO	Rockwall TX LP
49	5/16/2024	HTeaO	Rockwall TX LP
50	5/16/2024	HTeaO	Rockwall TX LP
51	5/16/2024	HTeaO	Rockwall TX LP
52	5/16/2024	HTeaO	Rockwall TX LP
53	5/16/2024	HTeaO	Rockwall TX LP
54	5/16/2024	HTeaO	



# TYPE: W

# Lumark

## DESCRIPTION

The patented Lumark Crosstour™ LED Wall Pack Series of luminaires provides an architectural style with super bright, energy efficient LEDs. The low-profile, rugged die-cast aluminum construction, universal back box, stainless steel hardware along with a sealed and gasketed optical compartment make the Crosstour impervious to contaminants. The Crosstour wall luminaire is ideal for wall/surface, inverted mount for façade/canopy illumination, post/bollard, site lighting, floodlight and low level pathway illumination including stairs. Typical applications include building entrances, multi-use facilities, apartment buildings, institutions, schools, stairways and loading docks test.

## SPECIFICATION FEATURES

### Construction

Slim, low-profile LED design with rugged one-piece, die-cast aluminum hinged removable door and back box. Matching housing styles incorporate both a small and medium design. The small housing is available in 12W, 18W and 26W. The medium housing is available in the 38W model. Patented secure lock hinge feature allows for safe and easy tool-less electrical connections with the supplied push-in connectors. Back box includes three half-inch, NPT threaded conduit entry points. The universal back box supports both the small and medium forms and mounts to standard 3-1/2" to 4" round and octagonal, 4" square, single gang and masonry junction boxes. Key hole gasket allows for adaptation to junction box or wall. External fin design extracts heat from the fixture surface. One-piece silicone gasket seals door and back box. Minimum 5" wide pole for site lighting application. Not recommended for car wash applications.

### Optical

Silicone sealed optical LED chamber incorporates a custom engineered mirrored anodized reflector providing high-efficiency illumination. Optical assembly includes impact-resistant tempered glass and meets IESNA requirements for full cutoff compliance. Available in seven lumen packages; 5000K, 4000K and 3000K CCT.

### Electrical

LED driver is mounted to the die-cast housing for optimal heat sinking. LED thermal management system incorporates both conduction and natural convection to transfer heat rapidly away from the LED source. 12W, 18W, 26W and 38W series operate in -40°C to 40°C [-40°F to 104°F]. High ambient 50°C models available. Crosstour luminaires maintain greater than 89% of initial light output after 72,000 hours of operation. Three half-inch NPT threaded conduit entry points allow for thru-branch wiring. Back box is an authorized

<b>Catalog #</b>		<b>Type</b>
<b>Project</b>		
<b>Comments</b>		<b>Date</b>
<b>Prepared by</b>		

### electrical wiring compartment.

Integral LED electronic driver is standard 0-10V dimming. 120-277V 50/60Hz or 347V 60Hz models.

### Finish

Crosstour is protected with a Super durable TGIC carbon bronze or summit white polyester powder coat paint. Super durable TGIC powder coat paint finishes withstand extreme climate conditions while providing optimal color and gloss retention of the installed life. Options to meet Buy American and other domestic preference requirements.

### Warranty

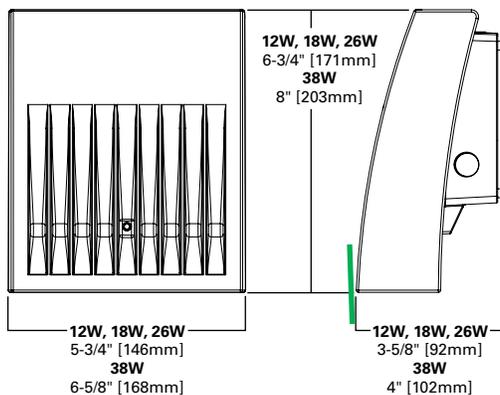
Five-year warranty.



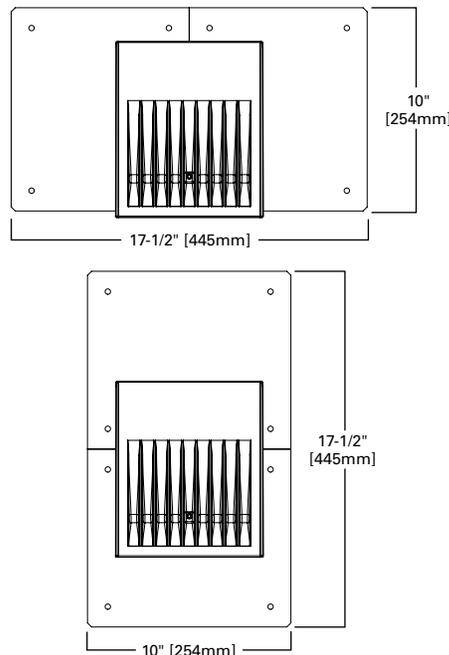
## XTOR CROSTOUR LED

**APPLICATIONS:**  
WALL / SURFACE  
POST / BOLLARD  
LOW LEVEL  
FLOODLIGHT  
INVERTED  
SITE LIGHTING

## DIMENSIONS



## ESCUTCHEON PLATES



### CERTIFICATION DATA

Dark Sky Approved (Fixed mount, Full cutoff, and 3000K CCT only)  
UL/cUL Wet Location Listed  
LM79 / LM80 Compliant  
ROHS Compliant  
ADA Compliant  
NOM Compliant Models  
IP66 Ingressed Protection Rated  
Title 24 Compliant  
DesignLights Consortium® Qualified\*

### TECHNICAL DATA

40°C Maximum Ambient Temperature  
External Supply Wiring 90°C Minimum

### EPA

Effective Projected Area (Sq. Ft.):  
XTOR1B, XTOR2B, XTOR3B=0.34  
XTOR4B=0.45

### SHIPPING DATA:

Approximate Net Weight:  
3.7 – 5.25 lbs. [1.7 – 2.4 kgs.]

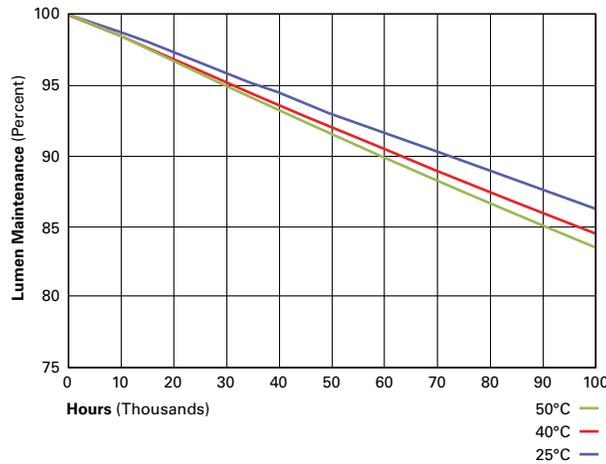
**POWER AND LUMENS BY FIXTURE MODEL**

LED Information	XTOR1B	XTOR1B-W	XTOR1B-Y	XTOR2B	XTOR2B-W	XTOR2B-Y	XTOR3B	XTOR3B-W	XTOR3B-Y	XTOR4B	XTOR4B-W	XTOR4B-Y
Delivered Lumens (Wall Mount)	1,418	1,396	1,327	2,135	2,103	1,997	2,751	2,710	2,575	4,269	4,205	3,995
Delivered Lumens (With Flood Accessory Kit) <sup>1</sup>	1,005	990	940	1,495	1,472	1,399	2,099	2,068	1,965	3,168	3,121	2,965
B.U.G. Rating <sup>2</sup>	B1-U0-G0	B2-U0-G0	B2-U0-G0	B2-U0-G0								
CCT (Kelvin)	5,000	4,000	3,000	5,000	4,000	3,000	5,000	4,000	3,000	5,000	4,000	3,000
CRI (Color Rendering Index)	70	70	70	70	70	70	70	70	70	70	70	70
Power Consumption (Watts)	12W	12W	12W	18W	18W	18W	26W	26W	26W	38W	38W	38W

NOTES: 1 Includes shield and visor. 2 B.U.G. Rating does not apply to floodlighting.

**LUMEN MAINTENANCE**

Ambient Temperature	TM-21 Lumen Maintenance (72,000 Hours)	Theoretical L70 (Hours)
<b>XTOR1B Model</b>		
25°C	> 90%	255,000
40°C	> 89%	234,000
50°C	> 88%	215,000
<b>XTOR2B Model</b>		
25°C	> 89%	240,000
40°C	> 88%	212,000
50°C	> 87%	196,000
<b>XTOR3B Model</b>		
25°C	> 89%	240,000
40°C	> 88%	212,000
50°C	> 87%	196,000
<b>XTOR4B Model</b>		
25°C	> 89%	222,000
40°C	> 87%	198,000
50°C	> 87%	184,000



**CURRENT DRAW**

Voltage	Model Series			
	XTOR1B	XTOR2B	XTOR3B	XTOR4B
120V	0.103A	0.15A	0.22A	0.34A
208V	0.060A	0.09A	0.13A	0.17A
240V	0.053A	0.08A	0.11A	0.17A
277V	0.048A	0.07A	0.10A	0.15A
347V	0.039A	0.06A	0.082A	0.12A

**ORDERING INFORMATION**

Sample Number: XTOR2B-W-WT-PC1

Series <sup>1</sup>	LED Kelvin Color	Housing Color	Options (Add as Suffix)	Accessories (Order Separately) <sup>8</sup>
<b>XTOR1B=Small Door, 12W</b> <b>XTOR2B=Small Door, 18W</b> <b>XTOR3B=Small Door, 26W</b> <b>XTOR4B=Medium Door, 38W</b> <b>BAA-XTOR1B=Small Door, 12W, Buy American Act Compliant <sup>7</sup></b> <b>TAA-XTOR1B=Small Door, 12W Trade Agreements Act Compliant <sup>7</sup></b> <b>BAA-XTOR2B =Small Door, 18W, Buy American Act Compliant <sup>7</sup></b> <b>TAA-XTOR2B=Small Door, 18W, Trade Agreements Act Compliant <sup>7</sup></b> <b>BAA-XTOR3B=Small Door, 26W, Buy American Act Compliant <sup>7</sup></b> <b>TAA-XTOR3B=Small Door, 26W, Trade Agreements Act Compliant <sup>7</sup></b> <b>BAA-XTOR4B= Medium Door, 38W, Buy American Act Compliant <sup>7</sup></b> <b>TAA-XTOR4B= Medium Door, 38W, Trade Agreements Act Compliant <sup>7</sup></b>	<b>[Blank]=Bright White (Standard), 5000K</b> <b>W=Neutral White, 4000K</b> <b>Y=Warm White, 3000K</b>	<b>[Blank]=Carbon Bronze (Standard)</b> <b>WT=Summit White</b> <b>BK=Black</b> <b>BZ=Bronze</b> <b>AP=Grey</b> <b>GM=Graphite Metallic</b> <b>DP=Dark Platinum</b>	<b>PC1=Photocontrol 120V <sup>2</sup></b> <b>PC2=Photocontrol 208-277V <sup>2,3</sup></b> <b>347V=347V <sup>4</sup></b> <b>HA=50°C High Ambient <sup>4</sup></b>	<b>WG/XTOR=Wire Guard <sup>5</sup></b> <b>XTORFLD-KNC=Knuckle Floodlight Kit <sup>6</sup></b> <b>XTORFLD-TRN=Trunnion Floodlight Kit <sup>6</sup></b> <b>XTORFLD-KNC-WT=Knuckle Floodlight Kit, Summit White <sup>6</sup></b> <b>XTORFLD-TRN-WT=Trunnion Floodlight Kit, Summit White <sup>6</sup></b> <b>EWP/XTOR=Escutcheon Wall Plate, Carbon Bronze</b> <b>EWP/XTOR-WT=Escutcheon Wall Plate, Summit White</b>

**NOTES:**

- DesignLights Consortium® Qualified and classified for both DLC Standard and DLC Premium, refer to www.designlights.org for details.
- Photocontrols are factory installed.
- Order PC2 for 347V models.
- Thru-branch wiring not available with HA option or with 347V. XTOR3B not available with HA and 347V or 120V combination.
- Wire guard for wall/surface mount. Not for use with floodlight kit accessory.
- Floodlight kit accessory supplied with knuckle (KNC) or trunnion (TRN) base, small and large top visors and small and large impact shields.
- Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to [DOMESTIC PREFERENCES](#) website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.
- Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.

**STOCK ORDERING INFORMATION**

Domestic Preferences <sup>1</sup>	12W Series	18W Series	26W Series	38W Series
[Blank]=Standard	XTOR1B=12W, 5000K, Carbon Bronze	XTOR2B=18W, 5000K, Carbon Bronze	XTOR3B=26W, 5000K, Carbon Bronze	XTOR4B=38W, 5000K, Carbon Bronze
BAA=Buy American Act	XTOR1B-WT=12W, 5000K, Summit White	XTOR2B-W=18W, 4000K, Carbon Bronze	XTOR3B-W=26W, 4000K, Carbon Bronze	XTOR4B-W=38W, 4000K, Carbon Bronze
TAA= Trade Agreements Act	XTOR1B-PC1=12W, 5000K, 120V PC, Carbon Bronze	XTOR2B-WT=18W, 5000K, Summit White	XTOR3B-WT=26W, 5000K, Summit White	XTOR4B-WT=38W, 5000K, Summit White
	XTOR1B-W=12W, 4000K, Carbon Bronze	XTOR2B-PC1=18W, 5000K, 120V PC, Carbon Bronze	XTOR3B-PC1=26W, 5000K, 120V PC, Carbon Bronze	XTOR4B-PC1=38W, 5000K, 120V PC, Carbon Bronze
		XTOR2B-W-PC1=18W, 4000K, 120V PC, Carbon Bronze	XTOR3B-W-PC1=26W, 4000K, 120V PC, Carbon Bronze	XTOR4B-W-PC1=38W, 4000K, 120V PC, Carbon Bronze
		XTOR2B-347V=18W, 5000K, Carbon Bronze, 347V	XTOR3B-347V=26W, 5000K, Carbon Bronze, 347V	XTOR4B-347V=38W, 5000K, Carbon Bronze, 347V
		XTOR2B-WT-PC1=18W, 5000K, 120V PC, Summit White	XTOR3B-PC2=26W, 5000K, 208-277V PC, Carbon Bronze	

**NOTES:**

- Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to [DOMESTIC PREFERENCES](#) website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.

Cylinder

Wall Mounted • Damp Location Listed **PROGRESS LED**

**Description:**

6" uplight/downlight wall cylinders are ideal for a wide variety of interior and exterior applications including residential and commercial. The aluminum Cylinders offers a contemporary design with its sleek cylindrical form and elegant fade and chip resistant Black finish, perfect for today's inspired exteriors. With over 2,150 lumens both up and down the LED Cylinders unite performance, energy savings and safety benefits. Provides even illumination up and down. Specify P860046 top cover lens for use in wet locations.

**Specifications:**

- Black finish.
- Powder coat finish.
- Die-cast aluminum construction with durable powder coated finish
- 2,150 lumens 30 lumens/watt per module (delivered)
- 3000K color temperature, 90+ CRI
- Meets California Title 24 high efficacy requirements for outdoor use only.
- Dimmable to 10% with many ELV dimmers
- Dimmable to 10% brightness (See Dimming Notes)
- Back plate covers a standard 4" recessed outlet box: 4.5 in W., 4.5 in ht., 2.94 in depth
- Mounting strap for outlet box included
- 6 in of wire supplied

**Performance:**

Number of Modules	2
Input Power	29 W
Input Voltage	120 V
Input Frequency	60 Hz
Lumens/LPW (Down-Source)	1262/44 (LM-82) per module
Lumens/LPW (Up-Source)	1300/44 (LM-82) per module
Lumens/LPW (Delivered)	2,150/30 (LM-79)
CCT	3000 K
CRI	90 CRI
Life (hours)	60000 (L70/TM-21)
EMI/RFI	FCC Title 47, Part 15, Class B
Max. Operating Temp	30 °C
Warranty	5-year Limited Warranty
Labels	cCSAus Damp Location Listed

**P5642-31/30K**



**Dimensions:**

Width: 6 in  
Height: 18 in  
Depth: 8-7/8 in  
H/CTR: 8 in

# P5642-31/30K

## Dimming Notes:

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P5642-31/30K is designed to be compatible with many ELV/Reverse Phase controls.

The following is a partial list of known compatible dimmer controls.

## Dimming Controls:

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Lutron\_Diva DVELV-300P

Lutron\_Nova NTELV-300

Lutron\_Vierti VTELV-600

Lutron\_Maestro MAELV-600

Lutron\_spacer/system SPSELV-600

Leviton\_Renoir II AWRMG-EAW

Leviton\_6615-P

Dimming capabilities will vary depending on the dimmer control, load, and circuit installation.

Always refer to dimmer manufacturer instructions or a controls specialist for specific requirements.

Dimmer control brand names where identified above are trade names or registered trademarks of each respective company.

# TYPE: D

Project		Catalog #		Type	
Prepared by		Notes		Date	



## HALO Commercial HC6 | HM6 | 61 | 61PS

6-inch LED downlight and wall wash

### Typical Applications

Office • Healthcare • Hospitality • Institutional • Mixed-Use/Retail

### Interactive Menu

- Order Information [page 2](#)
- Product Specifications [page 4](#)
- Photometric Data [page 5](#)
- Energy & Performance Data [page 8](#)
- Connected Systems [page 10](#)
- Product Warranty

### Top Product Features

- New construction/remodel series; 500 to 6,000 lumens
- Narrow, Medium and Wide distributions; Wall wash with rotatable linear spread lens
- 2700K, 3000K, 3500K, 4000K, 5000K CCT; 80 or 90 CRI
- Universal voltage 120V-277V; Standard 0-10V driver dims to 1%
- Mounting frame converts to remodel that installs from below the ceiling
- Quick Spec emergency backup mounting frames - fast delivery option

### Product Certification



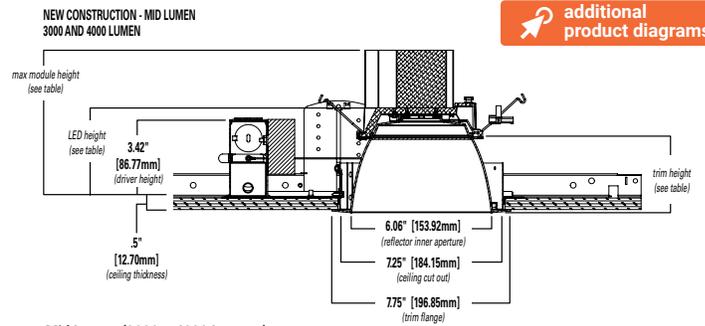
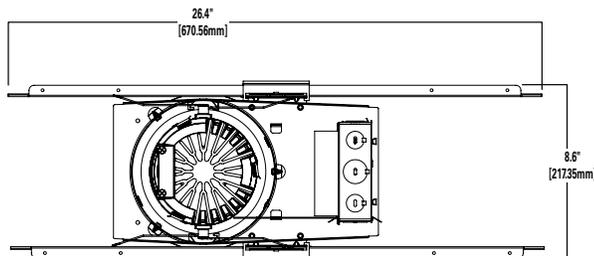
### Product Features



### Control Compatibility



### Dimensional and Mounting Details



Mid Lumen (3000 – 4000 Lumens)

Distribution	Max. Module Height	Trim Height	LED Height
Narrow	6.6"	3.4"	3.8"
Medium	6.7"	3.5"	3.9"
Wide	6.5"	3.3"	3.7"
Baffle	6.5"	3.3"	3.7"

## Mounting Frame Order Information

Sample Number: **HC620D010REM7 – HM60525835 - 61MDC**

A complete luminaire consists of a housing frame, LED module, and reflector (ordered separately)

Mounting Frame	Lumens	Driver Options	Factory Installed Emergency & Connected Lighting Options	Accessories (Order & Install Separately)
<p><b>HC6</b> = 6" new construction downlight housing</p> <p><b>HC6CP</b> = 6" new construction housing, Chicago Plenum - CCEA compliant</p>	<p>05 = 500 lm</p> <p>07 = 750 lm</p> <p>10 = 1000 lm</p> <p>15 = 1500 lm</p> <p><b>20 = 2000 lm</b></p> <p>25 = 2500 lm</p> <p>30 = 3000 lm</p> <p>35 = 3500 lm</p> <p>40 = 4000 lm</p> <p>45 = 4500 lm <sup>(7)</sup></p> <p>50 = 5000 lm <sup>(7)</sup></p> <p>55 = 5500 lm <sup>(7)</sup></p> <p>60 = 6000 lm <sup>(7)</sup></p>	<p><b>D010</b>=UNV 120-277V, 50/60Hz, 0-10V 1%-100% dimming at 120-277V on 0-10V controls</p> <p><b>Canada Option 500-5000 lumens:</b>  <b>D010347</b> = 347VAC 50/60Hz 0-10V 1%-100% dimming. For 500, 750, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000lm models only <sup>(1)</sup></p> <p><b>Canada Option 5500-6000 lumens:</b>  <b>D010X347</b> = step down transformer factory installed (with standard "D010" 120V-277V LED driver). For 5500, 6000lm models only <sup>(1)</sup></p> <p><b>DLV</b> = Distributed Low Voltage dimming driver 1%-100%, 1000-4000 lumens only. For use with DLVP system only, refer to DLVP specifications for details. <sup>(1)</sup></p>	<p><b>REM7</b> = 7 watt emergency battery pack with remote test / indicator light, use with D010 only <sup>(1) (2) (6)</sup></p> <p><b>REM14</b> = 14 watt emergency battery pack with remote test / indicator light, use with D010 only <sup>(1) (2) (6)</sup></p> <p><b>IEM7</b> = 7 watt emergency battery pack with integral test / indicator light, use with D010 only <sup>(1) (2) (6)</sup></p> <p><b>IEM14</b> = 14 watt emergency battery pack with integral test / indicator light, use with D010 only <sup>(1) (2) (6)</sup></p> <p><b>BOD7ST</b> = 7.5 watt Bodine self-test emergency battery pack with remote test / indicator light, use with D010 only <sup>(1) (2) (6)</sup></p> <p><b>WTA</b> = Factory WaveLinX PRO Tilemount Sensor Kit <sup>(4)</sup></p> <p><b>WTK</b> = Factory WaveLinX LITE Tilemount Sensor Kit <sup>(5)</sup></p> <p><b>WPN</b> = WaveLinX PRO Wireless Node without Sensor <sup>(9)</sup></p> <p><b>WLN</b> = WaveLinX LITE Wireless Node without Sensor <sup>(10)</sup></p> <p><b>REM7V</b> = 7 watt emergency battery pack with remote test / indicator light, use with DLV only <sup>(1) (2) (3) (6)</sup></p> <p><b>REM14V</b> = 14 watt emergency battery pack with remote test / indicator light, use with DLV only <sup>(1) (2) (3) (6)</sup></p> <p><b>IEM7V</b> = 7 watt emergency battery pack with integral test / indicator light, use with DLV only <sup>(1) (2) (3) (6)</sup></p> <p><b>IEM14V</b> = 14 watt emergency battery pack with integral test / indicator light, use with DLV only <sup>(1) (2) (3) (6)</sup></p>	<p><b>HB128APK</b> = L channel hanger bar, 26", pair (replacement)</p> <p><b>RB22</b> = Adjustable wood joist mounting bars, pair, extend to 22" long</p> <p><b>HSA6</b> = Slope Adapter for 6" Aperture Housings, Specify Slope (refer to instructions for installing housing and trim)</p> <p><b>H347</b> = 347 to 120V step down transformer, 75VA</p> <p><b>H347200</b> = 347 to 120V step down transformer, 200VA</p> <p><b>WTA</b> = Field WaveLinX PRO Tilemount Sensor Kit <sup>(4)</sup></p> <p><b>WTK</b> = Field WaveLinX LITE Tilemount Sensor Kit <sup>(5)</sup></p>
<b>Notes</b>	<b>Notes</b>	<b>Notes</b>	<b>Notes</b>	<b>Notes</b>
	<p>(7) Marked Spacing: Center to Center of Adjacent Luminaires = 36" Center of Luminaire to Building Member = 18" Minimum overhead = 0.5</p>	<p>(1) Not available with CP models</p>	<p>(1) Not available with CP models</p> <p>(2) Not available with D010347 (347V models)</p> <p>(3) ULus for U.S. only</p> <p>(4) WTA = WaveLinX PRO tilemount sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with D010 only. (Refer to WaveLinX PRO specifications.)</p> <p>(5) WTK = WaveLinX LITE tilemount sensor kit for daylight dimming, PIR motion sensing, use with D010 only. (Refer to WaveLinX LITE specifications.)</p> <p>(6) Emergency battery backup options are Non-IC only, and rated for a minimum starting temperature of 0°C</p> <p>(9) WPN = WaveLinX PRO wireless node provides luminaire-level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V driver only. Not compatible with 347V or Chicago plenum. (Refer to WaveLinX PRO specifications.)</p> <p>(10) WLN = WaveLinX LITE wireless node provides luminaire-level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V driver only. Not compatible with 347V or Chicago plenum. (Refer to WaveLinX LITE specifications.)</p>	<p>(4) WTA = WaveLinX PRO tilemount sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with D010 only. (Refer to WaveLinX PRO specifications.)</p> <p>(5) WTK = WaveLinX LITE tilemount sensor kit for daylight dimming, PIR motion sensing, use with D010 only. (Refer to WaveLinX LITE specifications.)</p>

## Quick Spec Emergency Mounting Frame Order Information

Sample Number :

Quick Spec Emergency Mounting Frame: **RR-HC620D010REM7**

LED module and reflectors are ordered separately.

Order separately: LED Module: HM60525835 | Reflector: 61MDC

**Select from the Quick Spec Mounting Frame ordering information to receive the *Fast Delivery* option for the frame.**

Quick Spec Code	Mounting Frame	Lumens	Driver Options	Factory Installed Emergency & Connected Lighting Options	Accessories (Order & Install Separately)
<p><b>RR</b> = East Region</p> <p><b>BRR</b> = West Region</p>	<p><b>HC6</b> = 6" new construction downlight housing</p>	<p>10 = 1000 lm</p> <p>15 = 1500 lm</p> <p>20 = 2000 lm</p> <p>30 = 3000 lm</p> <p>40 = 4000 lm</p>	<p><b>D010</b>=UNV 120-277V, 50/60Hz, 0-10V 1%-100% dimming at 120-277V on 0-10V controls</p>	<p><b>REM7</b> = 7 watt emergency battery pack with remote test / indicator light, use with D010 only <sup>(2) (6)</sup></p> <p><b>REM14</b> = 14 watt emergency battery pack with remote test / indicator light, use with D010 only <sup>(2) (6)</sup></p> <p><b>IEM7</b> = 7 watt emergency battery pack with integral test / indicator light, use with D010 only <sup>(2) (6)</sup></p> <p><b>IEM14</b> = 14 watt emergency battery pack with integral test / indicator light, use with D010 only <sup>(2) (6)</sup></p>	<p><b>HB128APK</b> = L channel hanger bar, 26", pair (replacement)</p> <p><b>RB22</b> = Adjustable wood joist mounting bars, pair, extend to 22" long</p>
<b>Notes</b>	<b>Notes</b>	<b>Notes</b>	<b>Notes</b>	<b>Notes</b>	<b>Notes</b>
				<p>(2) Not available with D010347 (347V models)</p> <p>(6) Emergency battery backup options are Non-IC only, and rated for a minimum starting temperature of 0°C</p>	

## LED Module Order Information

LED Module	Lumens	CRI/CCT	
<b>HM6</b> = 6" LED Modules For use with HC6 - HC6CP New Construction housings only	<b>0525</b> = 500 - 2500 lumen <b>3040</b> = 3000-4000 lumen <b>4560</b> = 4500-6000 lumen	<b>827</b> = 80CRI, 2700K <b>830</b> = 80CRI, 3000K <b>835</b> = 80CRI, 3500K <b>840</b> = 80CRI, 4000K <b>850</b> = 80CRI, 5000K	<b>927</b> = 90CRI, 2700K <b>930</b> = 90CRI, 3000K <b>935</b> = 90CRI, 3500K <b>940</b> = 90CRI, 4000K <b>950</b> = 90CRI, 5000K
<b>Notes</b>	<b>Notes</b>	<b>Notes</b>	

## Trim Order Information

Reflector	Distribution <sup>(8)</sup>	Finish	Flange	Accessories
<b>61</b> = 6" conical reflector	<b>ND</b> = narrow 55° beam angle 0.97 SC <b>MD</b> = medium 60° beam angle 1.10 SC <b>WD</b> = wide 65° beam angle 1.28 SC <b>RWW</b> = rotatable wall wash with linear spread lens	<b>C</b> = Specular clear <b>H</b> = Semi-specular clear <b>W</b> = White	<b>Blank</b> = Polished flange standard with C & H reflectors <b>Blank</b> = White flange standard with W reflector <b>WF</b> = White flange option available with C & H reflectors	<b>61RWWPK</b> = Replacement part kit - wall wash lens insert - for use with 61RWW* only.
<b>Notes</b>	<b>Notes</b> <small>(8) Values are nominal, with specular clear reflector, other finishes and field results may vary.</small>	<b>Notes</b>	<b>Notes</b>	<b>Notes</b>

Baffle	Distribution <sup>(8)</sup>	Finish	Flange	Accessories
<b>61</b> = 6" baffle reflector	<b>WD</b> = wide 65° beam angle 1.28 SC (nominal) <b>RWW</b> = rotatable wall wash with linear spread lens	<b>BB</b> = Black baffle <b>WB</b> = White baffle	<b>Blank</b> = White flange standard with BB, & WB <b>BF</b> = Black flange option available with BB	<b>61RWWPK</b> = Replacement part kit - wall wash lens insert - for use with 61RWW* only.
<b>Notes</b>	<b>Notes</b> <small>(8) Values are nominal, with specular clear reflector, other finishes and field results may vary.</small>	<b>Notes</b>	<b>Notes</b>	<b>Notes</b>

Reflector	Distribution <sup>(8)</sup>	Finish	Flange
<b>61PS</b> = 6" non-conductive polymer 'dead front' conical reflector <sup>(9)</sup>	<b>MD</b> = medium 60° beam angle 1.10 SC (nominal)	<b>W</b> = White	<b>Blank</b> = White flange standard with W reflector
<b>Notes</b> <small>(9) 61PS is 1000-2000 lumens Non-IC rated. 500 &amp; 750 lumens IC rated. 61PS is not for use over 2000lm in Non-IC or over 750lm in IC.</small>	<b>Notes</b> <small>(8) Values are nominal, with specular clear reflector, other finishes and field results may vary.</small>	<b>Notes</b>	<b>Notes</b>

IEM Reflector	Distribution <sup>(8)</sup>	Finish	Flange	Integral Emergency
<b>61</b> = 6" IEM reflector for integral emergency only	<b>ND</b> = narrow 55° beam angle 0.97 SC <b>MD</b> = medium 60° beam angle 1.10 SC <b>WD</b> = wide 65° beam angle 1.28 SC	<b>C</b> = Specular clear <b>H</b> = Semi-specular clear <b>W</b> = White	<b>Blank</b> = Polished flange standard with C & H reflectors <b>Blank</b> = White flange standard with W reflector <b>WF</b> = White flange option available with C & H reflectors	<b>IEM</b> = Reflector for use with integral emergency housings only. Provides access hole for integral emergency test switch.
<b>Notes</b>	<b>Notes</b> <small>(8) Values are nominal, with specular clear reflector, other finishes and field results may vary.</small>	<b>Notes</b>	<b>Notes</b>	<b>Notes</b>

IEM Baffle	Distribution <sup>(8)</sup>	Finish	Flange	Integral Emergency
<b>61</b> = 6" IEM baffle reflector for integral emergency only	<b>WD</b> = wide 65° beam angle 1.28 SC (nominal)	<b>BB</b> = Black baffle <b>WB</b> = White baffle	<b>Blank</b> = White flange standard with BB, & WB <b>BF</b> = Black flange option with BB	<b>IEM</b> = Reflector for use with integral emergency housings only. Provides access hole for integral emergency test switch.
<b>Notes</b>	<b>Notes</b> <small>(8) Values are nominal, with specular clear reflector, other finishes and field results may vary.</small>	<b>Notes</b>	<b>Notes</b>	<b>Notes</b>

## Product Specifications

### Housing Frame

- Boat shaped galvanized steel plaster frame with adjustable plaster lip
- Accommodates 1/2" to 1-1/2" thick ceilings
- Installs in new construction or from below the finished ceiling (non-accessible) for remodeling (with mounting bars removed)
- Provided with two remodel clips to secure the frame to the ceiling

### Universal Mounting Bracket

- Adjusts 2" vertically from above and below the ceiling
- Use with the included mounting bars or with 1/2" Electric Metallic Tube (EMT)
- Removable to facilitate remodeling installation from below the finished ceiling

### Mounting Bars

- Captive pre-installed No Fuss™ mounting bars lock to T-grid with screwdriver or pliers
- Centering detents allow for consistent positioning of fixtures

### LED Module

- Proximity phosphors over chip on board LEDs provide a uniform source with high efficiency and no pixilation
- Available in 80 or 90 color rendering index (CRI)
- Color accuracy within 3 SDCM provides color consistency and uniformity
- 90 CRI option: R9>50 (refer to chromaticity information for details)
- Available in 2700K, 3000K, 3500K, 4000K and 5000K correlated color temperature (CCT)
- Lumen options include 500, 750, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000, 5500, 6000 lumens (nominal)
- Passive thermal management achieves 60,000 hours at 70% lumen maintenance (L70) in insulated ceilings (IC) and non-IC applications
- Integral diffuse lens provides visual shielding
- Integral connector allows quick connection to housing flex

### Reflector

- Self-flanged aluminum reflectors available in narrow, medium or wide distribution patterns
- Medium distribution polymer non-conductive matte white reflector may be used to meet local codes for 'dead front' applications (500 & 750 lumen max. in IC and 2000 lumen max. in Non-IC)
- Wall wash reflector features a rotatable linear spread lens for alignment of vertical illumination
- Reflectors attach to LED module with three speed clamps
- Available in multiple painted or plated finishes

### Reflector/Module Retention

- Reflector/module assembly is securely retained in the housing with two torsion springs

### Driver

- Field-replaceable constant current driver provides low noise operation
- Universal 120-277VAC 50/60Hz input standard
- Continuous, 1% to 100% dimming with 0-10V analog control
- Optional low-voltage DC driver for use with Distributed Low Voltage Power (DLVP) system
- Distributed Low Voltage Power (DLVP) system combines power, lighting and controls with ease of installation (refer to DLVP Design Guide at [www.cooperlighting.com](http://www.cooperlighting.com) for details)

### Canada Options

- 347VAC 50/60Hz; 1% dimming on 0-10V analog control, for 500, 750, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000 lumen models only
- 347V step down transformer factory installed with the standard "D010" 120V-277V, LED driver on 5500, 6000 lumen models only

### Emergency Option

- Provides 90 minutes of standby lighting, meeting most life safety codes for egress lighting
- Available with integral or remote charge indicator and test switch
- Available Self-Test (self-diagnostic) with remote charge indicator and test switch
- Quick Spec emergency ordering option for quick-turn projects

### Connected Lighting System

Two WaveLinx connected solutions to choose from. Refer to WaveLinx system specifications and application guides for details.

#### WaveLinx PRO Tilemount Sensor Kit

- WaveLinx PRO WTA tilemount sensor kit offers daylight dimming, PIR motion sensing, scene and zone configuration, automatic commissioning; and optional RLTS - Real Time Location Services available.

#### WaveLinx PRO Wireless Node

- WaveLinx PRO WPN wireless node provides luminaire-level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V driver only. **Note:** Not compatible with 347V or Chicago plenum.

#### WaveLinx LITE Tilemount Sensor Kit

- WaveLinx LITE WTK tilemount sensor kit offers daylight dimming and PIR motion sensing, scene and grouping configuration.

#### WaveLinx LITE Wireless Node

- WaveLinx LITE WLN wireless node provides luminaire level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V driver only. **Note:** Not compatible with 347V or Chicago plenum.

#### WaveLinx Tilemount Sensor Kits Application

- The WTA and WTK tilemount sensor kits include a control module mounted on the luminaire junction box via 1/2" knock-out, and a tilemount sensor on 54-inch whip; for ceiling installation by direct-mount spring clips or via mounting bracket in octagon ceiling boxes.
- The WTA and WTK tilemount sensor kits may be ordered as factory installed on the luminaire, or ordered separately as a field installed accessory kit.
- **Note: WaveLinx PRO devices are only compatible with the WaveLinx PRO system.**
- **Note: WaveLinx LITE devices are only compatible with the WaveLinx LITE system.**

### Junction Box

- Galvanized steel junction box
- 20 in³ internal volume excluding voltage barrier
- 25 in³ internal total volume
- Voltage barrier for 0-10V dimming wires (occupies one 1/2" pry-out space)
- Listed for eight #12 AWG (four in, four out) 90°C conductors and feed-thru branch wiring
- Three 1/2" and two 3/4" trade size pry-outs available
- Three 4-port push wire nuts for mains voltage with 1-port for fixture connection

### Compliance

- cULus Certified to UL 1598 / C22.2 No. 250.0, suitable for damp locations and wet locations in covered ceilings only
- Emergency options provided with UL Listed emergency drivers to UL 924 / C22.2 No. 141, suitable for indoor/damp locations
- IP20 - Above finished ceiling; IP65 - Below finished ceiling
- Non-Insulated ceiling (Non-IC) rated for 2500, 3000, 3500, 4000, 4500, 5000, 5500, 6000 lumen models (insulation must be kept 3" from top and sides)
- Insulated ceiling (IC) rated for 500, 750, 1000, 1500, 2000 lumen models and suitable for direct contact with air permeable insulation\* (IC models are also suitable for Non-IC installations)
- Non-IC marked spacing required for 4500, 5000, 5500, 6000 lumen models
  - Marked Spacing Center to Center of Adjacent Luminaires = 36"
  - Center of Luminaire to Building Member = 18"
  - Minimum overhead = 0.5"
- Airtight per ASTM-E283-04
- Suitable for use in clothes closets when installed in accordance with the NEC 410.16 spacing requirements
- EMI/RFI emissions FCC CFR Title 47 Part 15 Class A at 120/277V
- Contains no mercury or lead and RoHS compliant
- Photometric testing completed in accordance of IES LM-79-08
- Lumen maintenance projection in accordance of IES LM-80-08 and TM-21-11
- 500, 750, 1,000, 1,500 and 2,000 lumen, 90 CRI, ICAT models may be used to comply with State of California Title 24 residential code, per JA8 certification standards
- May be used to comply with State of California Title 24 non-residential code as a dimmable LED luminaire
- ENERGY STAR® certified, reference certified light fixtures database
- \*Not for use in direct contact with spray foam insulation, consult NEMA LSD57-2013

### Warranty

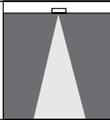
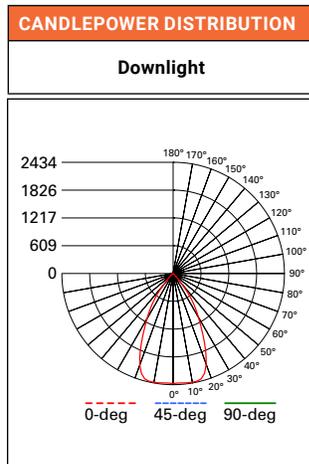
- Five year limited warranty, consult website for details. [www.cooperlighting.com/legal](http://www.cooperlighting.com/legal)

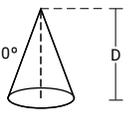
## Photometric Data

[View IES files](#)

### NARROW DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

NARROW (55° BEAM*)	
Test Number	P581878
Housing	HC620D010
Module	HM60525835
Reflector	61NDC
Lumens	2228 Lm
Efficacy	111.4 Lm/W
SC	0.93
UGR	11.7

CONE OF LIGHT				
				
MH	FC	L	W	
5.5'	80.2	5	5	
7'	49.5	6.4	6.4	
8'	37.9	7.4	7.4	
9'	30	8.2	8.2	
10'	24.3	9.2	9.2	
12'	16.9	11	11	

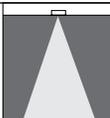
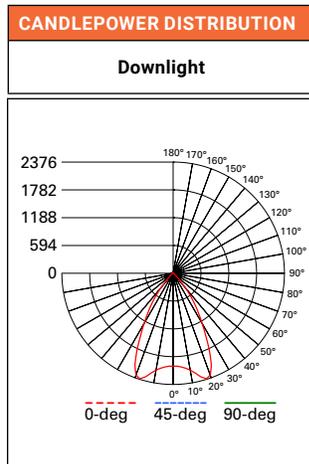
CANDELA TABLE	
Degrees Vertical	Candela
0	2427
5	2422
15	2405
25	1621
35	761
45	118
55	12
65	3
75	2
85	0
90	0

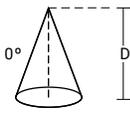
ZONAL LUMEN SUMMARY		
Zone	Lumens	% Fixture
0-30	1636	73.4
0-40	2098	94.2
0-60	2223	99.8
0-90	2228	100
90-180	0	0
0-180	2228	100

LUMINANCE	
Average Candela Degrees	Average 0° Luminance
45	9187
55	1118
65	376
75	318
85	0

### MEDIUM DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

MEDIUM (60° BEAM*)	
Test Number	P581875
Housing	HC620D010
Module	HM60525835
Reflector	61MDC
Lumens	2307 Lm
Efficacy	115.3 Lm/W
SC	1.06
UGR	11.8

CONE OF LIGHT				
				
MH	FC	L	W	
5.5'	68.7	5.6	5.6	
7'	42.4	7.2	7.2	
8'	32.5	8.2	8.2	
9'	25.7	9.4	9.4	
10'	20.8	10.4	10.4	
12'	14.4	12.4	12.4	

CANDELA TABLE	
Degrees Vertical	Candela
0	1998
5	2022
15	2307
25	1842
35	796
45	126
55	15
65	4
75	2
85	0
90	0

ZONAL LUMEN SUMMARY		
Zone	Lumens	% Fixture
0-30	1671	72.4
0-40	2163	93.8
0-60	2301	99.7
0-90	2307	100
90-180	0	0
0-180	2307	100

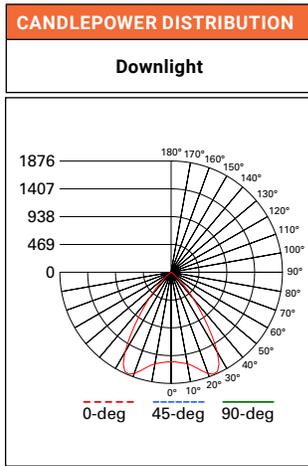
LUMINANCE	
Average Candela Degrees	Average 0° Luminance
45	9753
55	1395
65	571
75	318
85	0

## Photometric Data

[View IES files](#)

### WIDE DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

WIDE (65° BEAM*)	
Test Number	P581885
Housing	HC620D010
Module	HM60525835
Reflector	61WDC
Lumens	2359 Lm
Efficacy	118 Lm/W
SC	1.28
UGR	11.6



CONE OF LIGHT				
MH	FC	L	W	
5.5'	50.5	7	7	
7'	31.2	8.8	8.8	
8'	23.9	10.2	10.2	
9'	18.8	11.4	11.4	
10'	15.3	12.8	12.8	
12'	10.6	15.4	15.4	

CANDELA TABLE	
Degrees Vertical	Candela
0	1526
5	1540
15	1685
25	1861
35	1027
45	252
55	32
65	6
75	2
85	0
90	0

ZONAL LUMEN SUMMARY		
Zone	Lumens	% Fixture
0-30	1461	61.9
0-40	2105	89.2
0-60	2351	99.6
0-90	2359	100
90-180	0	0
0-180	2359	100

LUMINANCE	
Average Candela Degrees	Average 0° Luminance
45	19506
55	3078
65	765
75	318
85	0

\*Value are nominal with specular clear reflectors, other finishes and field results may vary.  
 SC = Spacing Criteria  
 UGR = Unified Glare Rating

#### Photometric Multipliers (Nominal Lumen Values)

500 Lumen	750 Lumen	1000 Lumen	1500 Lumen	2000 Lumen	2500 Lumen	3000 Lumen	3500 Lumen
0.33	0.44	0.54	0.74	1.00	1.12	1.46	1.76

4000 Lumen	4500 Lumen	5000 Lumen	5500 Lumen	6000 Lumen
1.81	2.17	2.28	2.38	2.65

Multipliers for relative lumen values with other series models.

#### Color Finish Multipliers

Finish code	C	H	W/WB	BB
Finish	Specular Clear	Semi-Specular	Matte White White Baffle	Black Baffle
Multiplier	1.00	0.92	0.91	0.82

Multipliers for relative lumen values with other color finishes.

#### CCT Multipliers – 80CRI

2700K	3000K	3500K	4000K	5000K
0.92	0.98	1.00	1.03	1.03

Multipliers for relative lumen values with other series color temperatures.

#### CCT Multipliers – 90CRI

2700K	3000K	3500K	4000K	5000K
0.77	0.84	0.89	0.90	0.90

Multipliers for relative lumen values with other series color temperatures.

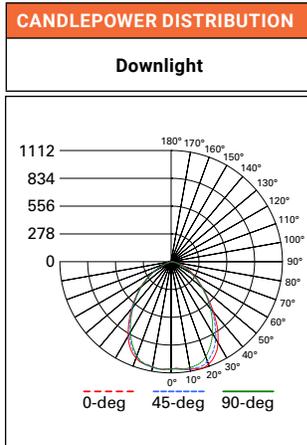
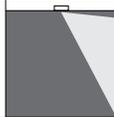
Note: Refer to IES files for more product data.

## Photometric Data

[View IES files](#)

### WALL WASH DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

WALL WASH	
Test Number	P581882
Housing	HC620D010
Module	HM60525835
Reflector	61RWWC
Lumens	2179 Lm
Efficacy	109 Lm/W
SC	1.15



CANDELA TABLE	
Degrees Vertical	Candela
0	1080
5	1081
15	1112
25	1034
35	800
45	514
55	319
65	184
75	85
85	12
90	0

ZONAL LUMEN SUMMARY		
Zone	Lumens	% Fixture
0-30	849	39
0-40	1313	60.2
0-60	1978	90.8
0-90	2179	100
90-180	0	0
0-180	2179	100

LUMINANCE	
Average Candela Degrees	Average 0° Luminance
45	39810
55	30479
65	23907
75	17983
85	7359

SC = Spacing Criteria, nominal for specular clear reflector, other finishes and field results may vary.

SINGLE UNIT FOOTCANDLES								
2.5' from wall (distance from fixture along wall)								
1	19.3	13.8	6.1	2.2	0.7	0.3	0.1	
2	29.1	22.6	12.3	5.7	2.5	1.2	0.6	
3	27.6	22.5	13.8	7.3	3.7	1.9	1	
4	21	18.2	12.4	7.4	4.2	2.4	1.4	
5	14.4	13.1	9.9	6.6	4.1	2.5	1.6	
6	9.7	9.1	7.5	5.5	3.7	2.5	1.6	
7	6.7	6.4	5.5	4.3	3.2	2.2	1.5	
8	4.7	4.6	4.1	3.4	2.7	2	1.4	
9	3.4	3.3	3.1	2.7	2.2	1.7	1.3	
10	2.5	2.5	2.4	2.1	1.8	1.4	1.1	

MULTIPLE UNIT FOOTCANDLES								
2.5' from wall (Distance from fixture along 3')				2.5' from wall (Distance from fixture along 4')				
1	21.5	19.1	21.5	20	12.1	20		
2	34.7	34.4	34.7	31.6	24.6	31.6		
3	34.9	36	34.9	31.3	27.6	31.3		
4	28.4	30.7	28.4	25.2	24.8	25.2		
5	21	23.2	21	18.6	19.8	18.6		
6	15.2	16.8	15.2	13.4	15	13.4		
7	11	12	11	9.9	11	9.9		
8	8.1	8.7	8.1	7.4	8.2	7.4		
9	6.1	6.5	6.1	5.6	6.2	5.6		
10	4.6	4.9	4.6	4.3	4.7	4.3		

#### Photometric Multipliers (Nominal Lumen Values)

500 Lumen	750 Lumen	1000 Lumen	1500 Lumen	2000 Lumen	2500 Lumen	3000 Lumen	3500 Lumen
0.33	0.44	0.54	0.74	1.00	1.12	1.46	1.76

4000 Lumen	4500 Lumen	5000 Lumen	5500 Lumen	6000 Lumen
1.81	2.17	2.28	2.38	2.65

Multipliers for relative lumen values with other series models.

#### Color Finish Multipliers

Finish code	C	H	W/WB	BB
Finish	Specular Clear	Semi-Specular	Matte White White Baffle	Black Baffle
Multiplier	1.00	0.92	0.91	0.82

Multipliers for relative lumen values with other color finishes.

#### CCT Multipliers - 80CRI

2700K	3000K	3500K	4000K	5000K
0.92	0.98	1.00	1.03	1.03

Multipliers for relative lumen values with other series color temperatures.

#### CCT Multipliers - 90CRI

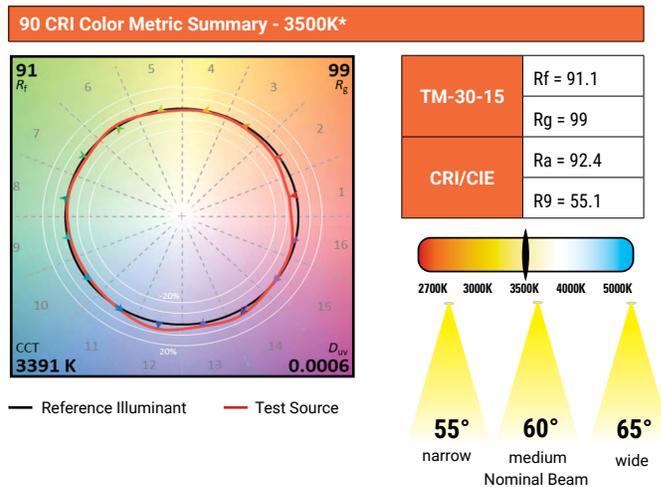
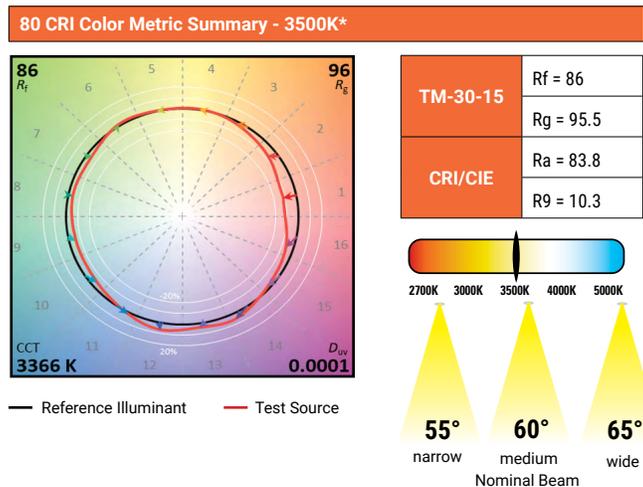
2700K	3000K	3500K	4000K	5000K
0.77	0.84	0.89	0.90	0.90

Multipliers for relative lumen values with other series color temperatures.

Note: Refer to IES files for more product data.

## Energy & Performance Data

### COLOR METRICS - TM-30-15 & CRI/CIE (3500K)



\* Color values are based on 61WDWB reflector, other finishes and field results may vary.

### ENERGY DATA

Series	500 lumen		750 lumen		1000 lumen		1500 lumen		2000 lumen	
	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V
Input Voltage 120-277VAC	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V
Input Current (A)	0.051	0.026	0.067	0.036	0.083	0.039	0.119	0.053	0.171	0.077
Input Power (W)	6.1	6.5	7.9	8.3	10	10.4	14.5	14.5	20.9	20.6
In-rush (A)	1.9	8.4	2	8.4	2.2	8.5	2.7	8.5	2.1	9.7
Inrush duration (µs)	251	135	237	133	250	134	250	139	245	131
THD (%)	6.2	13.5	7.4	8.8	5.4	10.3	10	6.7	6.5	7.9
PF	≥ 0.99	≥ 0.9	≥ 0.98	≥ 0.92	≥ 0.99	≥ 0.95	≥ 0.99	≥ 0.97	≥ 0.99	≥ 0.96

Series	2500 lumen		3000 lumen		3500 lumen		4000 lumen		4500 lumen	
	120V	277V								
Input Voltage 120-277VAC	120V	277V								
Input Current (A)	0.23	0.103	0.24	0.107	0.292	0.152	0.351	0.159	0.384	0.172
Input Power (W)	27.5	27.5	28.6	28.5	34.6	35.1	42.1	42.1	45.9	45.6
In-rush (A)	2.5	5.6	2.5	11.6	3.4	13.9	3.1	14.7	3.1	14.8
Inrush duration (µs)	232	123	216	111	183	95	200	98	202	100
THD (%)	6.5	8.1	7.8	8.3	5.6	10	4.1	9.5	4.5	8.5
PF	≥ 0.99	≥ 0.96	≥ 0.99	≥ 0.96	≥ 0.99	≥ 0.93	≥ 0.99	≥ 0.94	≥ 0.99	≥ 0.95

Series	5000 lumen		5500 lumen		6000 lumen	
	120V	277V	120V	277V	120V	277V
Input Voltage 120-277VAC	120V	277V	120V	277V	120V	277V
Input Current (A)	0.419	0.186	0.457	0.201	0.489	0.214
Input Power (W)	50.1	49.5	54.6	53.7	58.4	57.4
In-rush (A)	3.1	15	3.2	14.8	3.4	14.8
Inrush duration (µs)	202	117	196	131	192	121
THD (%)	5.5	7.6	7	7.2	8.1	7.2
PF	≥ 0.99	≥ 0.96	≥ 0.99	≥ 0.96	≥ 0.99	≥ 0.97

Minimum starting temperature -30°C (-22°F)\*  
(Nominal input 120-277VAC & 100% of rated output power)

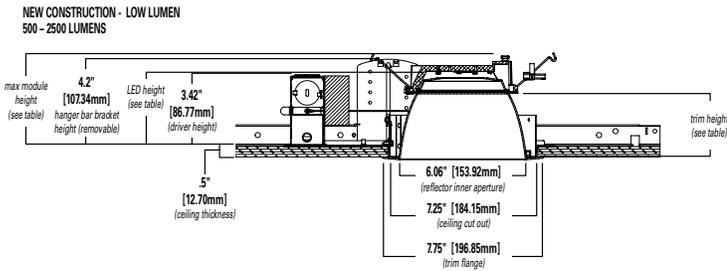
Sound Rating: Class A standards

#### Notes:

\* Emergency Battery packs are rated for a minimum starting temperature of 0°C.

## Dimensional and Mounting Details

### NEW CONSTRUCTIONS - LOW LUMEN 500 – 2500 LUMENS



#### Low Lumen (500 – 2500 Lumens)\*

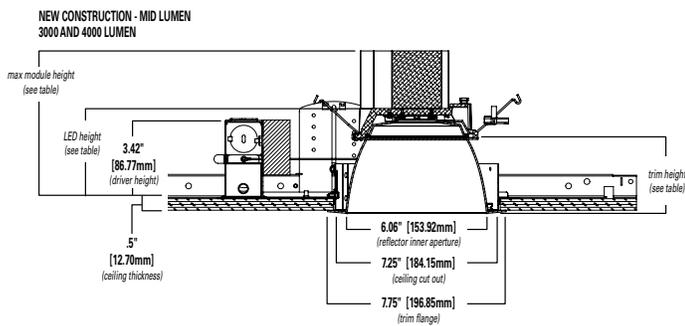
Distribution	Max. Module Height	Trim Height	LED Height
Narrow	4.5"	3.4"	3.8"
Medium	4.6"	3.5"	3.9"
Wide	4.4"	3.3"	3.7"
Baffle	4.4"	3.3"	3.7"



Low Lumen Module

\*Max. height w/removable hanger bar bracket 4.2"

### NEW CONSTRUCTIONS - MID LUMEN 3000 – 4000 LUMENS



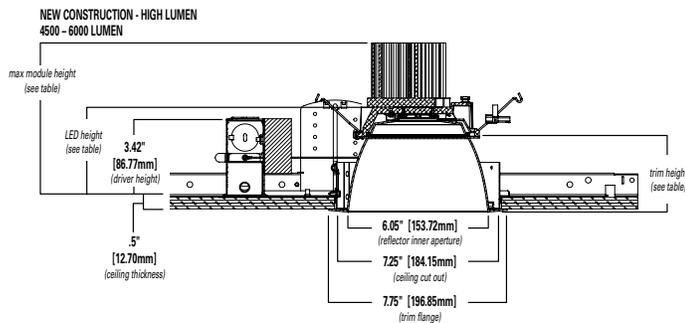
#### Mid Lumen (3000 – 4000 Lumens)

Distribution	Max. Module Height	Trim Height	LED Height
Narrow	6.6"	3.4"	3.8"
Medium	6.7"	3.5"	3.9"
Wide	6.5"	3.3"	3.7"
Baffle	6.5"	3.3"	3.7"



Mid Lumen Module

### NEW CONSTRUCTIONS - HIGH LUMEN 4500 – 6000 LUMENS



#### High Lumen (4500 – 6000 Lumens)

Distribution	Max. Module Height	Trim Height	LED Height
Narrow	6.9"	3.4"	3.8"
Medium	7.0"	3.5"	3.9"
Wide	6.8"	3.3"	3.7"
Baffle	6.8"	3.3"	3.7"



High Lumen Module

## Connected Solutions

### WaveLinx LITE - WTK Tilemount Sensor

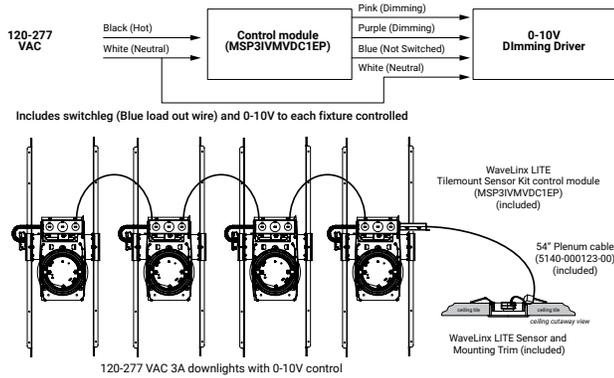
WaveLinx LITE devices only compatible with the WaveLinx LITE system.



- Intuitive Android™ or Apple® iOS® app for basic system code compliant set up and configuration via Bluetooth
- Up to 28 unique areas per project site (WaveLinx LITE Bluetooth network)
- Up to 50 devices for an area, any one of 16 control zones, up to 6 occupancy sets, and custom lighting scenes
- Automatic occupancy or vacancy, sensor sensitivity, daylight dimming, etc. configurable through the app
- Refer to the WaveLinx system specifications for details



#### WaveLinx LITE WTK Tilemount Wiring Diagram



#### WaveLinx LITE Bluetooth Enabled System



### WaveLinx PRO – WTA Tilemount Sensor

WaveLinx PRO devices only compatible with the WaveLinx PRO system.



- WaveLinx PRO tilemount functionality configures zones and customizes settings from one secure mobile app
- Automatic code commissioning that meets the strictest codes
- Fixtures and sensors integrate with Wireless Area Controller, Wall Stations, and Control Devices
- Stand-Alone Offices or Entire Building Network Installations

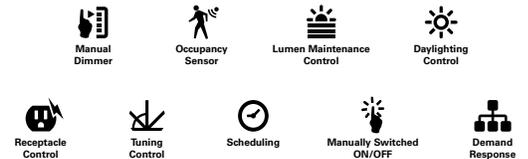
**Downlights with tilemount sensor**  
Highly efficient LED fixtures

**WaveLinx Area Controller**  
Provides centralized coordination of multiple area control options

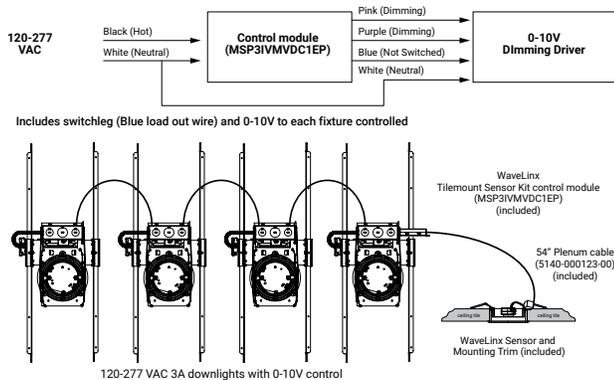
**Wireless Wall Station/Receptacle**  
Provides customized wireless control of each area

**Mobile Applications**  
Provides personalized, local control from a tablet or smartphone

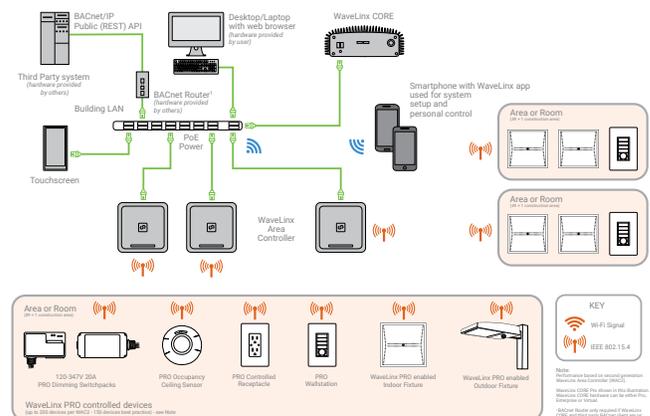
#### WaveLinx mobile app settings



#### WaveLinx WTA Tilemount Wiring Diagram



#### WaveLinx CORE Building Management Integration



## Connected Solutions



### WaveLinX LITE Wireless Node - WLN

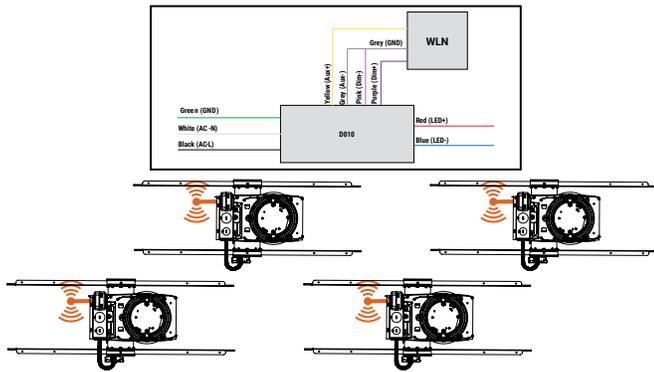
WaveLinX LITE devices only compatible with the WaveLinX LITE system.

- Intuitive Android™ or Apple® iOS® app for basic system code compliant set up and configuration via Bluetooth
- Up to 28 unique areas per project site (WaveLinX LITE Bluetooth network)
- Up to 50 devices for an area, any one of 16 control zones, up to 6 occupancy sets, and custom lighting scenes
- Refer to the WaveLinX system specifications for details

#### WaveLinX mobile app settings



#### WaveLinX LITE Wireless Node (WLN) Wiring Diagram



#### WaveLinX LITE Bluetooth Enabled System



### WaveLinX PRO Wireless Node - WPN

WaveLinX PRO devices only compatible with the WaveLinX PRO system.

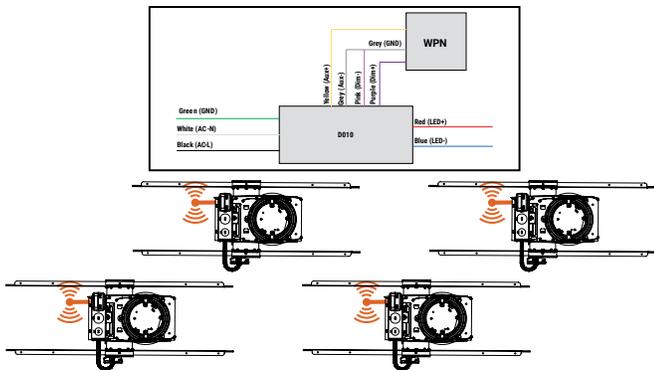
- WaveLinX Wireless functionality configures zones and customizes settings from one secure mobile app
- Automatic code commissioning that meets the strictest codes
- Fixtures and sensors integrate with WaveLinX Area Controller, Wall Stations, and Control Devices
- Stand-Alone Offices or Entire Building Network Installations



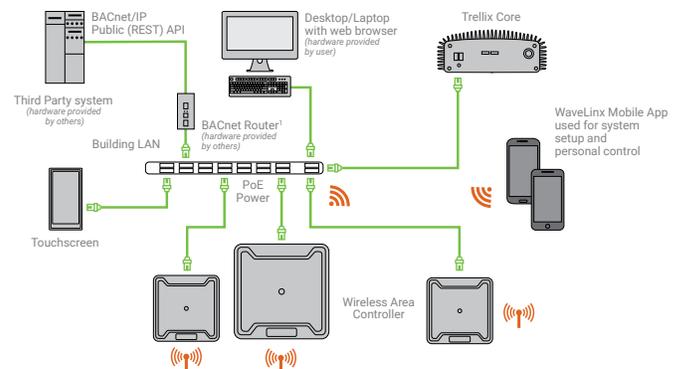
#### WaveLinX mobile app settings



#### WaveLinX PRO Wireless Node (WPN) Wiring Diagram



#### WaveLinX CORE Building Management Integration



## FEATURES

- Low profile LED area/site luminaire with a variety of IES distributions for lighting applications such as auto dealership, retail, commercial, and campus parking lots
- Featuring two different optical technologies, Strike and Micro Strike Optics, which provide the best distribution patterns for retrofit or new construction
- Rated for high vibration applications including bridges and overpasses. All sizes are rated for 1.5G
- Control options including photo control, occupancy sensing, NX Lighting Controls™, LightGRID+ and 7-Pin with networked controls
- New customizable lumen output feature allows for the wattage and lumen output to be customized in the factory to meet whatever specification requirements may entail
- Field interchangeable mounting provides additional flexibility after the fixture has shipped



## CONTROL TECHNOLOGY



## SERVICE PROGRAMS



## SPECIFICATIONS

### CONSTRUCTION

- Die-cast housing with hidden vertical heat fins are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with 1000 hour powder coat paint finish
- External hardware is corrosion resistant

### OPTICS

- Micro Strike Optics (160, 320, 480, or 720 LED counts) maximize uniformity in applications and come standard with mid-power LEDs which evenly illuminate the entire luminous surface area to provide a low glare appearance. Catalog logic found on page 2
- Strike Optics (36, 72, 108, or 162 LED counts) provide best in class distributions and maximum pole spacing in new applications with high powered LEDs. Strike optics are held in place with a polycarbonate bezel to mimic the appearance of the Micro Strike Optics so both solutions can be combined on the same application. Catalog logic found on page 3
- Both optics maximize target zone illumination with minimal losses at the house-side, reducing light trespass issues. Additional backlight control shields and house side shields can be added for further reduction of illumination behind the pole
- One-piece silicone gasket ensures a weatherproof seal
- Zero up-light at 0 degrees of tilt
- Field rotatable optics

### INSTALLATION

- Mounting patterns for each arm can be found on page 11
- Optional universal mounting block for ease of installation during retrofit applications. Available as an option (ASQU) or accessory for square and round poles
- All mounting hardware included
- Knuckle arm fitter option available for 2-3/8" OD tenon
- For products with EPA less than 1 mounted to a pole greater than 20ft, a vibration damper is recommended

### ELECTRICAL

- Universal 120-277 VAC or 347-480 VAC input voltage, 50/60 Hz
- Ambient operating temperature -40°C to 40°C
- Drivers have greater than 90% power factor and less than 20% THD
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- Field replaceable surge protection device provides 20kA protection meeting ANSI/ IEEE C62.41.2 Category C High and Surge Location Category C3; Automatically takes fixture off-line for protection when device is compromised
- Dual Driver option provides 2 drivers within luminaire but only one set of leads exiting the luminaire, where Dual Power Feed provides two drivers which can be wired independently as two sets of leads are extended from the luminaire. Both options cannot be combined

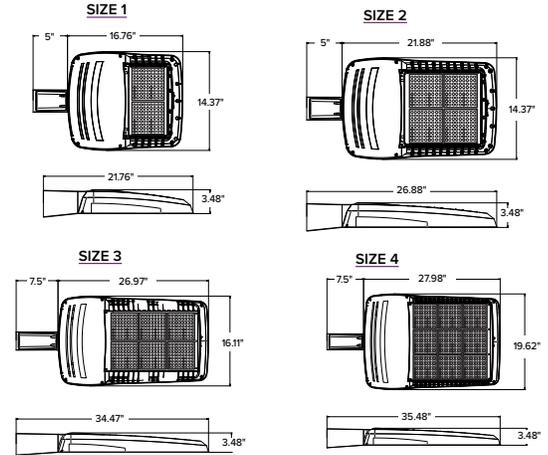
### CONTROLS

- Photo control, occupancy sensor programmable controls, and Zigbee wireless controls available for complete on/off and dimming control
- Please consult brand or sales representative when combining control and electrical options as some combinations may not operate as anticipated depending on your application
- 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules (control accessories sold separately)

### CONTROLS (CONTINUED)

- 0-10V Dimming Drivers are standard and dimming leads are extended out of the luminaire unless control options require connection to the dimming leads. Must specify if wiring leads are to be greater than the 6" standard
- NX Lighting Controls™ available with in fixture wireless control module, features dimming and occupancy sensor
- LightGRID+ available with in fixture wireless control module, features dimming and occupancy sensor. Also available in 7-pin configuration

## MICRO STRIKE | STRIKE OPTICS



	EPA				Config
	VP1 (Size 1)	VP2 (Size 2)	VP3 (Size 3)	VP4 (Size 4)	
Single Fixture	0.454	0.555	0.655	0.698	
Two at 180	0.908	1.110	1.310	1.396	
Two at 90	0.583	0.711	0.857	0.948	
Three at 90	1.037	1.266	1.512	1.646	
Three at 120	0.943	1.155	1.392	1.680	
Four at 90	1.166	1.422	1.714	1.896	

### CERTIFICATIONS

- DLC® (DesignLights Consortium Qualified), with some Premium Qualified configurations. Not all product variations listed in this document are DLC® qualified. Refer to <http://www.designlights.org> for the most up-to-date list.
- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40°C ambient temperatures
- 1.5 G rated for ANSI C136.31 high vibration applications
- Fixture is IP65 rated
- Meets IDA recommendations using 3K CCT configuration at 0 degrees of tilt
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) and Trade Agreements Act (FAR 52.225-11). See Buy America(n) Solutions (link to <https://www.currentlighting.com/resources/america-solutions>).

### WARRANTY

- 5 year warranty

# VIPER Area/Site

VIPER LUMINAIRE

## MICROSTRIKE OPTICS – ORDERING GUIDE

Gray Shading = Service Program Limit of 15 luminaires

**QS10**

Example: VP-2-320L-145-3K7-2-R-UNV-A3-BLT

CATALOG # \_\_\_\_\_

VP Series	Optic Platform	Size	Light Engine	CCT/CRI	Distribution	Optic Rotation	Voltage
VP Viper	Micro Strike	1 Size 1	<b>160L-35<sup>6</sup></b> 5500 lumens 160L-50 <sup>6</sup> 7500 lumens 160L-75 10000 lumens <b>160L-100</b> 12500 lumens 160L-115 15000 lumens 160L-135 18000 lumens 160L-160 21000 lumens 320L-145 21000 lumens 320L-170 24000 lumens 320L-185 27000 lumens 320L-210 30000 lumens 320L-235 33000 lumens 320L-255 36000 lumens 320L-315 <sup>6</sup> 40000 lumens 480L-285 40000 lumens 480L-320 44000 lumens 480L-340 48000 lumens 480L-390 52000 lumens 480L-425 55000 lumens 480L-470 60000 lumens 720L-435 60000 lumens 720L-475 65000 lumens 720L-515 70000 lumens 720L-565 <sup>6</sup> 75000 lumens 720L-600 <sup>6</sup> 80000 lumens CLO Custom Lumen Output <sup>1</sup>	AP AP-Amber Phosphor Converted 27K8 2700K, 80 CRI 3K7 3000K, 70 CRI 3K8 3000K, 80 CRI 35K8 3500K, 80 CRI 3K9 3000K, 90 CRI 4K7 4000K, 70 CRI 4K8 4000K, 80 CRI 4K9 4000K, 90 CRI <b>5K7</b> 5000K, 70 CRI 5K8 5000K, 80 CRI	<b>2</b> Type 2 <b>3</b> Type 3 <b>4F</b> Type 4 Forward 4W Type 4 Wide 5QW Type 5 Square Wide	<b>BLANK</b> <b>No Rotation</b> L Optic rotation left R Optic rotation right	<b>UNV</b> 120-277V <b>120</b> 120V <b>208</b> 208V <b>240</b> 240V <b>277</b> 277V <b>347</b> 347V <b>480</b> 480V
		2 Size 2					
		3 Size 3					
		4 Size 4					

Mounting	Color	Options	Network Control Options
<b>A</b> Arm mount for square pole/flat surface (B3 Drill Pattern) (Does not include round pole adapter) <b>A_</b> Arm mount for round pole <sup>2</sup> <b>ASQU</b> Universal arm mount for square pole. Can be used with B3 or S2 Drill Pattern <b>A_U</b> Universal arm mount for round pole <sup>2</sup> <b>AAU</b> Adjustable arm for pole mounting (universal drill pattern) <b>AA_U</b> Adjustable arm mount for round pole <sup>2</sup> <b>ADU</b> Decorative upswept Arm (universal drill pattern) <b>AD_U</b> Decorative upswept arm mount for round pole <sup>2</sup> <b>MAF</b> Mast arm fitter for 2-3/8" OD horizontal arm <b>K</b> Knuckle <b>T</b> Trunnion <b>WB</b> Wall Bracket, horizontal tenon with MAF <b>WM</b> Wall mount bracket with decorative upswept arm <b>WA</b> Wall mount bracket with adjustable arm	<b>BLT</b> Black Matte Textured <b>BLS</b> Black Gloss Smooth <b>DBT</b> Dark Bronze Matte Textured <b>DBS</b> Dark Bronze Gloss Smooth <b>GTT</b> Graphite Matte Textured <b>LGS</b> Light Grey Gloss Smooth <b>LGT</b> Light Grey Gloss Textured <b>PSS</b> Platinum Silver Smooth <b>WHT</b> White Matte Textured <b>WHS</b> White Gloss Smooth <b>VGT</b> Verde Green Textured <b>Color Option</b> <b>CC</b> Custom Color	<b>F</b> Fusing <b>2PF</b> Dual Power Feed <b>2DR</b> Dual Driver <b>TE</b> Toolless Entry <b>BC</b> Backlight Control <sup>8</sup> <b>TB</b> Terminal Block	<b>NXWS16F</b> NX Networked Wireless Enabled Integral NX SMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>1,3,4</sup> <b>NXWS40F</b> NX Networked Wireless Enabled Integral NX SMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>1,3,4</sup> <b>NXW</b> NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor <sup>3,4</sup> <b>WIR</b> LightGRID+ In-Fixture Module <sup>3,4</sup> <b>WIRSC</b> LightGRID+ Module and Occupancy Sensor <sup>3,4</sup> <b>Stand Alone Sensors</b> <b>BTS-14F</b> Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <b>BTS-40F</b> Bluetooth® Programmable, BTSMP-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <b>BTSO-12F</b> Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <b>7PR</b> 7-Pin Receptacle <sup>4</sup> <b>7PR-SC</b> 7-Pin Receptacle with shorting cap <sup>4</sup> <b>3PR</b> 3-Pin twist lock <sup>4</sup> <b>3PR-SC</b> 3-Pin receptacle with shorting cap <sup>4</sup> <b>3PR-TL</b> 3-Pin PCR with photocontrol <sup>4</sup> <b>Programmed Controls</b> <b>SCP-_F</b> Sensor Control Programmable, 8F or 40F <sup>9</sup> <b>ADD</b> AutoDim Timer Based Dimming <sup>4</sup> <b>ADT</b> AutoDim Time of Day Dimming <sup>4</sup> <b>Photocontrols</b> <b>PC</b> Button Photocontrol <sup>4,7</sup>

1 – Items with a grey background can be done as a custom order. Contact brand representative for more information  
 2 – Replace “\_” with “3” for 3.5”-4.13” OD pole, “4” for 4.18”-5.25” OD pole, “5” for 5.5”-6.5” OD pole  
 3 – Networked Controls cannot be combined with other control options  
 4 – Not available with 2PF option  
 5 – Not available with Dual Driver option

6 – Some voltage restrictions may apply when combined with controls  
 7 – Not available with 480V  
 8 – BC not available on 4F and type 5 distributions  
 9 – At least one SCPREMOTE required to program SCP motion sensor. Must select 8ft or 40ft.

# VIPER Area/Site

VIPER LUMINAIRE

## STRIKE OPTIC – ORDERING GUIDE

Example: VP-ST-1-36L-39-3K7-2-UNV-A-BLT

CATALOG # \_\_\_\_\_

VP	Optic Platform	Size	Light Engine	CCT/CRI	Distribution	Optic Rotation	Voltage
VP Viper	ST Strike	1 Size 1	<b>36L-39</b> <sup>8</sup> 5500 lumens <b>36L-55</b> <sup>8</sup> 7500 lumens <b>36L-85</b> 10000 lumens <b>36L-105</b> 12500 lumens <b>36L-120</b> 14000 lumens	<b>AM</b> monochromatic amber, 595nm  <b>27K8</b> 2700K, 80 CRI <b>3K7</b> 3000K, 70 CRI <b>3K8</b> 3000K, 80 CRI <b>3K9</b> 3000K, 90 CRI <b>35K8</b> 3500K, 80 CRI <b>4K7</b> 4000K, 70 CRI <b>4K8</b> 4000K, 80 CRI <b>4K9</b> 4000K, 90 CRI <b>5K7</b> 5000K, 70 CRI <b>5K8</b> 5000K, 80 CRI	<b>FR</b> Auto Front Row <b>2</b> Type 2 <b>3</b> Type 3 <b>4F</b> Type 4 Forward <b>4W</b> Type 4 Wide <b>5QN</b> Type 5 Square Narrow <b>5QW</b> Type 5 Square Wide <b>5QM</b> Type 5 Square Medium <b>5W</b> Type 5 Wide (Round) <b>5RW</b> Type 5 Rectangular <b>C</b> Corner Optic <b>TC</b> Tennis Court Optic	<b>BLANK</b> <b>No Rotation</b> <b>L</b> Optic rotation left <b>R</b> Optic rotation right	<b>UNV</b> 120-277V <b>120</b> 120V <b>208</b> 208V <b>240</b> 240V <b>277</b> 277V <b>347</b> 347V <b>480</b> 480V
		2 Size 2	<b>72L-115</b> 15000 lumens <b>72L-145</b> 18000 lumens <b>72L-180</b> 21000 lumens <b>72L-210</b> 24000 lumens <b>72L-240</b> 27000 lumens				
		3 Size 3	<b>108L-215</b> <sup>8</sup> 27000 lumens <b>108L-250</b> 30000 lumens <b>108L-280</b> 33000 lumens <b>108L-325</b> 36000 lumens <b>108L-365</b> 40000 lumens				
		4 Size 4	<b>162L-320</b> 40000 lumens <b>162L-365</b> <sup>10</sup> 44000 lumens <b>162L-405</b> 48000 lumens <b>162L-445</b> 52000 lumens <b>162L-485</b> 55000 lumens <b>162L-545</b> <sup>8</sup> 60000 lumens <b>CLO</b> Custom Lumen Output <sup>1</sup>				

Mounting	
<b>A</b>	Arm mount for square pole/flat surface
<b>A_</b>	Arm mount for round pole <sup>3</sup>
<b>ASQU</b>	Universal arm mount for square pole
<b>A_U</b>	Universal arm mount for round pole <sup>3</sup>
<b>AAU</b>	Adjustable arm for pole mounting (universal drill pattern)
<b>AA_U</b>	Adjustable arm mount for round pole <sup>3</sup>
<b>ADU</b>	Decorative upswept Arm (universal drill pattern)
<b>AD_U</b>	Decorative upswept arm mount for round pole <sup>3</sup>
<b>MAF</b>	Mast arm fitter for 2-3/8" OD horizontal arm
<b>K</b>	Knuckle
<b>T</b>	Trunnion
<b>WB</b>	Wall Bracket, horizontal tenon with MAF
<b>WM</b>	Wall mount bracket with decorative upswept arm
<b>WA</b>	Wall mount bracket with adjustable arm

Color	
<b>BLT</b>	Black Matte Textured
<b>BLS</b>	Black Gloss Smooth
<b>DBT</b>	Dark Bronze Matte Textured
<b>DBS</b>	Dark Bronze Gloss Smooth
<b>GTT</b>	Graphite Matte Textured
<b>LGS</b>	Light Grey Gloss Smooth
<b>LGT</b>	Light Grey Gloss Textured
<b>PSS</b>	Platinum Silver Smooth
<b>WHT</b>	White Matte Textured
<b>WHS</b>	White Gloss Smooth
<b>VGT</b>	Verde Green Textured
Color Option	
<b>CC</b>	Custom Color

Options	
<b>F</b>	Fusing
<b>E</b>	Battery Backup <sup>1,2,7,8,9</sup>
<b>2PF</b>	Dual Power Feed
<b>2DR</b>	Dual Driver
<b>TE</b>	Tooless Entry
<b>BC</b>	Backlight Control
<b>TB</b>	Terminal Block

Network Control Options	
<b>NXWS16F</b>	NX Networked Wireless Enabled Integral NXSM2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>1,4,5</sup>
<b>NXWS40F</b>	NX Networked Wireless Enabled Integral NXSM2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming <sup>1,4,5</sup>
<b>NXW</b>	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor <sup>4,5</sup>
<b>WIR</b>	LightGRID+ In-Fixture Module <sup>4,5</sup>
<b>WIRSC</b>	LightGRID+ Module and Occupancy Sensor <sup>4,5</sup>
Stand Alone Sensors	
<b>BTS-14F</b>	Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
<b>BTS-40F</b>	Bluetooth® Programmable, BTSMP-HMO PIR Occupancy Sensor with Automatic Dimming® Photocell and 360° Lens
<b>BTSO-12F</b>	Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
<b>7PR</b>	7-Pin Receptacle <sup>4</sup>
<b>7PR-SC</b>	7-Pin Receptacle with shorting cap <sup>4</sup>
<b>3PR</b>	3-Pin twist lock <sup>4</sup>
<b>3PR-SC</b>	3-Pin receptacle with shorting cap <sup>4</sup>
<b>3PR-TL</b>	3-Pin PCR with photocontrol <sup>4</sup>
Programmed Controls	
<b>SCP_F</b>	Sensor Control Programmable, 8F or 40F <sup>11</sup>
<b>ADD</b>	AutoDim Timer Based Dimming <sup>4</sup>
<b>ADT</b>	AutoDim Time of Day Dimming <sup>4</sup>
Photocontrols	
<b>PC</b>	Button Photocontrol <sup>4,7</sup>

1 – Items with a grey background can be done as a custom order. Contact brand representative for more information  
 2 – Battery temperature rating -20C to 55C  
 3 – Replace “\_” with “3” for 3.5”-4.13” OD pole, “4” for 4.18”-5.25” OD pole, “5” for 5.5”-6.5” OD pole  
 4 – Networked Controls cannot be combined with other control options  
 5 – Not available with 2PF option  
 6 – Not available with 480V  
 7 – Not available with 347 or 480V  
 8 – Not available with Dual Driver option

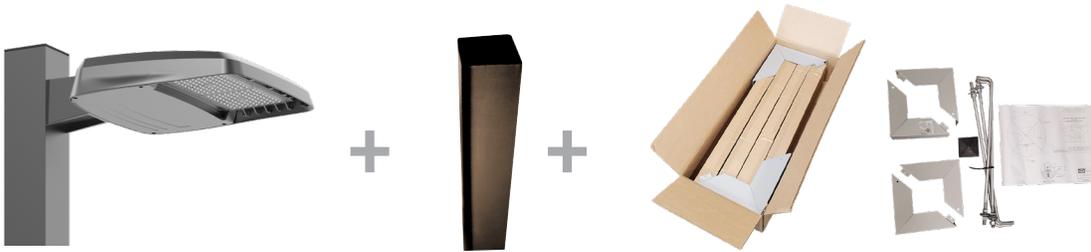
9 – Only available in Size 1 housing, up to 105 Watts  
 10 – Some voltage restrictions may apply when combined with controls  
 11 – At least one SCPREMOTE required to program SCP motion sensor. Must select 8ft or 40ft.



# VIPER Area/Site

VIPER LUMINAIRE

## VIPER POLE EXPRESS COMBO – ORDERING GUIDE



Catalog Number	Pole	Single or Double Head	Fixture	Lumens*	Wattage	Distribution	CCT/CRI	Mounting	Finish
VP-1-160-4K-3-LS-S20	20' Square Straight Steel	Single	VP-1-160-4K-3-LS	19584	158W	Type 3	4000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-4K-3-LS-S20-2X	20' Square Straight Steel	Double	VP-1-160-4K-3-LS	19584	158W	Type 3	4000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-4K-4F-LS-S20	20' Square Straight Steel	Single	VP-1-160-4K-4F-LS	19426	158W	Type 4F	4000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-4K-4F-LS-S20-2X	20' Square Straight Steel	Double	VP-1-160-4K-4F-LS	19426	158W	Type 4F	4000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-4K-3-LS-S25	25' Square Straight Steel	Single	VP-1-160-4K-3-LS	19584	158W	Type 3	4000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-4K-3-LS-S25-2X	25' Square Straight Steel	Double	VP-1-160-4K-3-LS	19584	158W	Type 3	4000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-4K-4F-LS-S25	25' Square Straight Steel	Single	VP-1-160-4K-4F-LS	19426	158W	Type 4F	4000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-4K-4F-LS-S25-2X	25' Square Straight Steel	Double	VP-1-160-4K-4F-LS	19426	158W	Type 4F	4000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-5K-3-LS-S20	20' Square Straight Steel	Single	VP-1-160-5K-3-LS	19499	158W	Type 3	5000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-5K-3-LS-S20-2X	20' Square Straight Steel	Double	VP-1-160-5K-3-LS	19499	158W	Type 3	5000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-5K-4F-LS-S20	20' Square Straight Steel	Single	VP-1-160-5K-4F-LS	19186	158W	Type 4F	5000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-5K-4F-LS-S20-2X	20' Square Straight Steel	Double	VP-1-160-5K-4F-LS	19186	158W	Type 4F	5000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-5K-3-LS-S25	25' Square Straight Steel	Single	VP-1-160-5K-3-LS	19499	158W	Type 3	5000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-5K-3-LS-S25-2X	25' Square Straight Steel	Double	VP-1-160-5K-3-LS	19499	158W	Type 3	5000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-5K-4F-LS-S25	25' Square Straight Steel	Single	VP-1-160-5K-4F-LS	19186	158W	Type 4F	5000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-5K-4F-LS-S25-2X	25' Square Straight Steel	Double	VP-1-160-5K-4F-LS	19186	158W	Type 4F	5000K/70CRI	Universal Arm	Dark Bronze Textured

## VIPER POLE EXPRESS COMBO – STOCK LUMINAIRE SKUS

Catalog Number	Lumens	LPW	Distribution	Wattage	CCT/CRI	Voltage	Mounting	Finish
VP-1-160-4K-3-LS	19584	123.9	3	158W	4000K/70CRI	120-277V	Universal Arm with RPA (A3U)	Dark Bronze Textured
VP-1-160-4K-4F-LS	19426	122.9	4F	158W	4000K/70CRI	120-277V	Universal Arm with RPA (A3U)	Dark Bronze Textured
VP-1-160-5K-3-LS	19499	123.4	3	158W	5000K/70CRI	120-277V	Universal Arm with RPA (A3U)	Dark Bronze Textured
VP-1-160-5K-4F-LS	19186	121.4	4F	158W	5000K/70CRI	120-277V	Universal Arm with RPA (A3U)	Dark Bronze Textured

## VIPER POLE EXPRESS COMBO – ACCESSORIES

Catalog Number	Description
VM14DB	Vibration Dampener, mounts to top of pole for reduced vibration



# VIPER Area/Site

VIPER LUMINAIRE

## OUTDOOR LIGHTING CONTROLS OPTIONS    CONTROLS FUNCTIONALITY

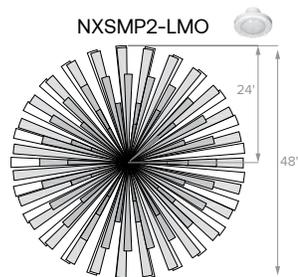
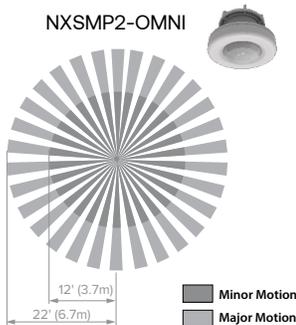
Control Option Ordering Logic & Description	Control Option Functionality										Control Option Components
	Networkable	Grouping	Scheduling	Occupancy/Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Sensor Height		
<b>NX Wireless</b> NXOFMIRID-UNV NX 7-Pin Twist-Lock® with NX Networked Wireless Radio, Integral Automatic Dimming Photocell, Integral Single Pole Relay with Dimming, and Bluetooth Programming	✓	✓	✓	Paired with external control	✓	✓	✓	✓	-		NXOFM-IRID-UV
NXW NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor	✓	✓	✓	-	-	✓	✓	✓	-		NXRM2-H
NXWS12F NX Networked Wireless Enabled Integral NXSMP2-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming	✓	✓	✓	✓	✓	✓	✓	✓	12ft		NXSMP2-OMNI-O
NXWS16F NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming	✓	✓	✓	✓	✓	✓	✓	✓	16ft		NXSMP2-LMO
NXWS40F NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming	✓	✓	✓	✓	✓	✓	✓	✓	40ft		NXSMP2-HMO
<b>LightGRID+</b> WIR LightGRID+ In-Fixture Module	✓	-	✓	-	-	✓	✓	Gateway	-		WIR
WIR-RME-L LightGRID+ On Fixture Module	✓	-	✓	-	-	✓	✓	Gateway	-		WIR-RME-L
WIRSC LightGRID+ Module and Occupancy Sensor	✓	✓	✓	✓	✓	✓	✓	Gateway	14ft - 40ft		BTMSP
<b>Independent</b> BTSO-12F Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens	-	-	-	✓	✓	✓	✓	✓	12ft		BTSMP-OMNI-O
BTS-14F Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens	-	-	-	✓	✓	✓	✓	✓	14ft		BTSMP-LMO
BTS-40F Bluetooth® Programmable, BTSMP-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens	-	-	-	✓	✓	✓	✓	✓	40ft		BTSMP-HMO

### DEFAULT SETTINGS

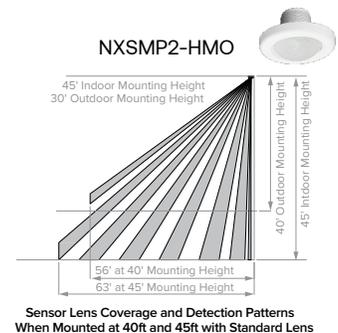
<b>NX Wireless</b>	Occupancy Sensor	Enabled
	Occupancy Sensor Sensitivity	7
	Occupancy Sensor Timeout	15 Minutes
	Occupied Dim Level	100%
	Unoccupied Dim Level	0%
	Daylight Sensor	Disabled
	Bluetooth	Enabled
	2.4GHz Wireless Mesh	On
	*Passcode Factory Passcode: HubbN3T!*	Enabled

<b>Stand Alone</b>	Occupancy Sensor	Enabled
	Occupancy Sensor Sensitivity	7
	Occupancy Sensor Timeout	8 Minutes
	Occupied Dim Level	100%
	Unoccupied Dim Level	50%
	Daylight Sensor	Disabled

### NX WIRELESS COVERAGE PATTERNS



Sensor Lens Coverage and Detection Patterns When Mounted at 8ft with Low Mount Lens



# VIPER Area/Site

VIPER LUMINAIRE

## NX LIGHTING CONTROLS FREE APP

## CONTROLS TECH SUPPORT 800-888-8006 (7:00 AM - 7:00 PM)



The NX Lighting Controls App is free to use mobile application for programming both NX Lighting Controls System or Standalone Bluetooth Sensors. The mobile app allows you to configure devices, discover and setup wireless enable luminaires and program NX system settings.

Apple App: <https://apps.apple.com/us/app/nx-lighting-controls/id962112904>

Google Play: [https://play.google.com/store/apps/details?id=io.cordova.NXBTR&hl=en\\_US&q=US](https://play.google.com/store/apps/details?id=io.cordova.NXBTR&hl=en_US&q=US)



Apple App

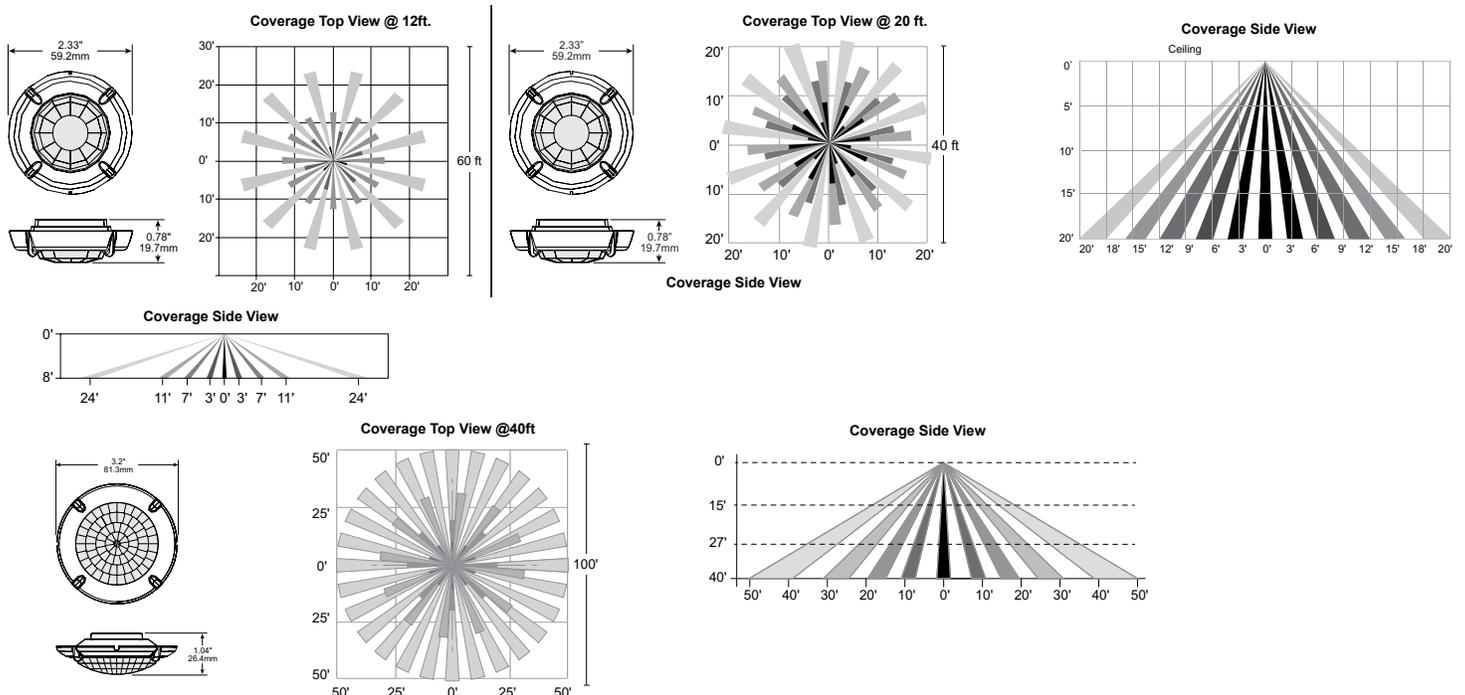


Google Play

## OUTDOOR LIGHTING CONTROLS OPTIONS CONTROLS FUNCTIONALITY

Control Option Ordering Logic & Description	Control Option Functionality										Control Option Components
	Networkable	Grouping	Scheduling	Occupancy/Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Sensor Height		
SCP_F Sensor Control Programmable, 8F or 40F	-	-	-	✓	✓	✓	✓	-	8ft or 40ft	SCP_F	
ADD AutoDIM Timer Based Dimming	-	-	✓	-	-	-	✓	-	-	ADD	
ADT AutoDIM Time of Day Dimming	-	-	✓	-	-	-	✓	-	-	ADT	
7PR 7-Pin Receptacle	-	-	Paired with external control	-	Paired with external control	-	Paired with external control	-	-	7PR	
7PR-SC 7-Pin Receptacle with shorting cap	-	-	-	-	-	-	-	-	-	 7PR-SC	
3PR 3-Pin twist lock	-	-	-	-	-	-	Paired with external control	-	-	3PR	
3PR-SC 3-Pin Receptacle with shorting cap	-	-	-	-	-	-	-	-	-	 3PR-SC	
3PR-TL 3-Pin with photocontrol	-	-	-	-	✓	-	✓	-	-	 3PR-TL	

## COVERAGE PATTERNS FOR SCP\_F



# VIPER Area/Site

VIPER LUMINAIRE

## PROGRAMMED CONTROLS

### ADD-AutoDim Timer Based Options

- Light delay options from 1-9 hours after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1-9 hours after the light has been dimmed previously.

EX: ADD-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	1-9 Hours	6 - Delay 6 hours
Auto-Dim Brightness	10-100% Brightness	5 - Dim to 50% brightness
Auto-Dim Return	Delay 0-9 Hours	R6 - Return to full output after 6 hours

### ADT-AutoDim Time of Day Based Option

- Light delay options from 1AM-9PM after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1AM-9PM after the light has been dimmed previously.

EX: ADT-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	12-3 AM and 6-11 PM	6 - Dim at 6PM
Auto-Dim Brightness	10-100% Brightness	5 - Dim to 50%
Auto-Dim Return	12-6 AM and 9-11P	R6 - Return to full output at 6AM

## DELIVERED LUMENS

For delivered lumens, please see Lumens Data PDF on [www.Currentlighting.com](http://www.Currentlighting.com)

## PROJECTED LUMEN MAINTENANCE

Ambient Temp.	0	25,000	*TM-21-11 36,000	50,000	100,000	Calculated L <sub>70</sub> (Hours)
25°C / 77°F	1.00	0.97	0.96	0.95	0.91	408,000
40°C / 104°F	0.99	0.96	0.95	0.94	0.89	356,000

## LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

Ambient Temperature		Lumen Multiplier	Micro Strike Lumen Multiplier				Strike Lumen Multiplier			
°C	°F		CCT	70 CRI	80 CRI	90 CRI	CCT	70 CRI	80 CRI	90 CRI
0°C	32°F	1.03	2700K	-	0.841	-	2700K	0.9	0.81	0.62
10°C	50°F	1.01	3000K	0.977	0.861	0.647	3000K	0.933	0.853	0.659
20°C	68°F	1.00	3500K	-	0.900	-	3500K	0.959	0.894	0.711
25°C	77°F	1.00	4000K	1	0.926	0.699	4000K	1	0.9	0.732
30°C	86°F	0.99	5000K	1	0.937	0.791	5000K	1	0.9	0.732
40°C	104°F	0.98	AP-Amber Phosphor Converted Multiplier				Monochromatic Amber Multiplier			
			Amber	0.710			Amber	See Amber Spec Sheet		

# VIPER Area/Site

VIPER LUMINAIRE

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

## ELECTRICAL DATA: MICRO STRIKE

# OF LEDS	160						
NOMINAL WATTAGE	35	50	75	100	115	135	160
SYSTEM POWER (W)	34.9	50.5	72.1	97.2	111.9	132.2	157.8
INPUT VOLTAGE (V)	CURRENT (Amps)						
120	0.29	0.42	0.63	0.83	0.96	1.13	1.33
208	0.17	0.24	0.36	0.48	0.55	0.65	0.77
240	0.15	0.21	0.31	0.42	0.48	0.56	0.67
277	0.13	0.18	0.27	0.36	0.42	0.49	0.58
347	0.10	0.14	0.22	0.29	0.33	0.39	0.46
480	0.07	0.10	0.16	0.21	0.24	0.28	0.33

# OF LEDS	320						
NOMINAL WATTAGE	145	170	185	210	235	255	315
SYSTEM POWER (W)	150	166.8	185.7	216.2	240.9	261.5	312
INPUT VOLTAGE (V)	CURRENT (Amps)						
120	1.21	1.42	1.54	1.75	1.96	2.13	2.63
208	0.70	0.82	0.89	1.01	1.13	1.23	1.51
240	0.60	0.71	0.77	0.88	0.98	1.06	1.31
277	0.52	0.61	0.67	0.76	0.85	0.92	1.14
347	0.42	0.49	0.53	0.61	0.68	0.73	0.91
480	0.30	0.35	0.39	0.44	0.49	0.53	0.66

# OF LEDS	480					
NOMINAL WATTAGE	285	320	340	390	425	470
SYSTEM POWER (W)	286.2	316.7	338.4	392.2	423.2	468
INPUT VOLTAGE (V)	CURRENT (Amps)					
120	2.38	2.67	2.83	3.25	3.54	3.92
208	1.37	1.54	1.63	1.88	2.04	2.26
240	1.19	1.33	1.42	1.63	1.77	1.96
277	1.03	1.16	1.23	1.41	1.53	1.70
347	0.82	0.92	0.98	1.12	1.22	1.35
480	0.59	0.67	0.71	0.81	0.89	0.98

# OF LEDS	720				
NOMINAL WATTAGE	435	475	515	565	600
SYSTEM POWER (W)	429.3	475	519.1	565.2	599.9
INPUT VOLTAGE (V)	CURRENT (Amps)				
120	3.63	3.96	4.29	4.71	5.00
208	2.09	2.28	2.48	2.72	2.88
240	1.81	1.98	2.15	2.35	2.50
277	1.57	1.71	1.86	2.04	2.17
347	1.25	1.37	1.48	1.63	1.73
480	0.91	0.99	1.07	1.18	1.25

# VIPER Area/Site

VIPER LUMINAIRE

## ELECTRICAL DATA: STRIKE

# OF LEDS	36				
NOMINAL WATTAGE	39	55	85	105	120
SYSTEM POWER (W)	39.6	56.8	83.6	108.2	120.9
INPUT VOLTAGE (V)	CURRENT (Amps)				
120	0.33	0.46	0.71	0.88	0.96
208	0.19	0.26	0.41	0.50	0.55
240	0.16	0.23	0.35	0.44	0.48
277	0.14	0.20	0.31	0.38	0.42
347	0.11	0.16	0.24	0.30	0.33
480	0.08	0.11	0.18	0.22	0.24

# OF LEDS	72				
NOMINAL WATTAGE	115	145	180	210	240
SYSTEM POWER (W)	113.7	143.2	179.4	210.2	241.7
INPUT VOLTAGE (V)	CURRENT (Amps)				
120	1.00	1.21	1.50	1.75	1.79
208	0.58	0.70	0.87	1.01	1.03
240	0.50	0.60	0.75	0.88	0.90
277	0.43	0.52	0.65	0.76	0.78
347	0.35	0.42	0.52	0.61	0.62
480	0.25	0.30	0.38	0.44	0.45

# OF LEDS	108				
NOMINAL WATTAGE	215	250	280	325	365
SYSTEM POWER (W)	214.8	250.8	278.3	324.7	362.6
INPUT VOLTAGE (V)	CURRENT (Amps)				
120	2.00	2.08	2.33	3.04	2.67
208	1.15	1.20	1.35	1.75	1.54
240	1.00	1.04	1.17	1.52	1.33
277	0.87	0.90	1.01	1.32	1.16
347	0.69	0.72	0.81	1.05	0.92
480	0.50	0.52	0.58	0.76	0.67

# OF LEDS	162					
NOMINAL WATTAGE	320	365	405	445	485	545
SYSTEM POWER (W)	322.1	362.6	403.6	445.1	487.1	543.9
INPUT VOLTAGE (V)	CURRENT (Amps)					
120	2.71	2.67	3.38	3.71	4.04	4.54
208	1.56	1.54	1.95	2.14	2.33	2.62
240	1.35	1.33	1.69	1.85	2.02	2.27
277	1.17	1.16	1.46	1.61	1.75	1.97
347	0.94	0.92	1.17	1.28	1.40	1.57
480	0.68	0.67	0.84	0.93	1.01	1.14

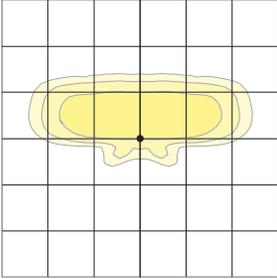
# VIPER Area/Site

VIPER LUMINAIRE

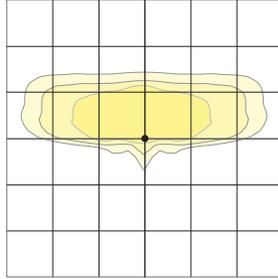
## MICRO STRIKE PHOTOMETRY

The following diagrams represent the general distribution options offered for this product. For detailed information on specific product configurations, see website photometric test reports.

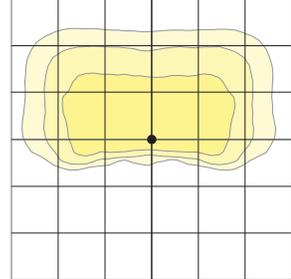
Type 2



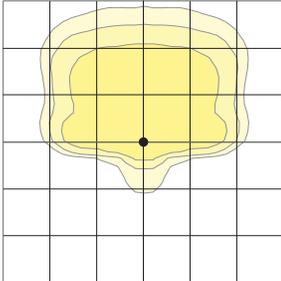
Type 3



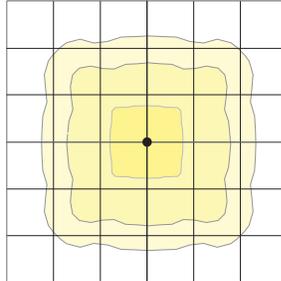
Type 4 Wide



Type 4F



Type 5QW



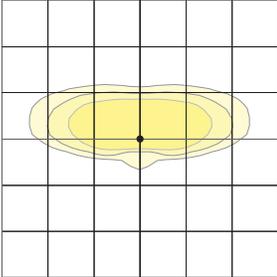
# VIPER Area/Site

VIPER LUMINAIRE

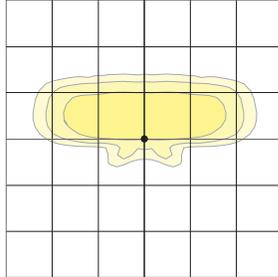
## OPTIC STRIKE PHOTOMETRY

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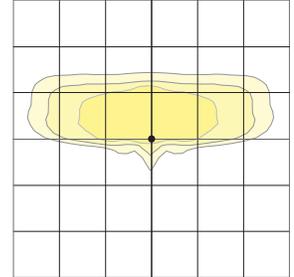
Type FR – Front Row/Auto Optic



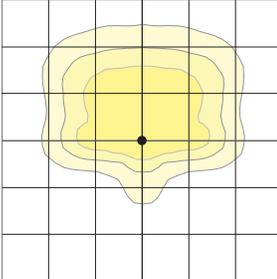
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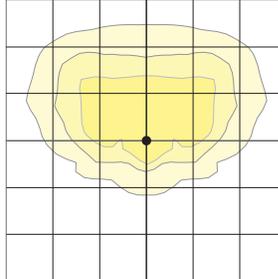
Type 3



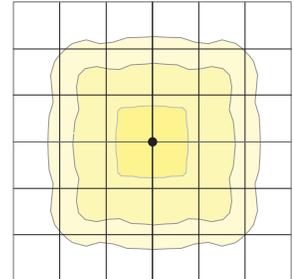
Type 4 Forward



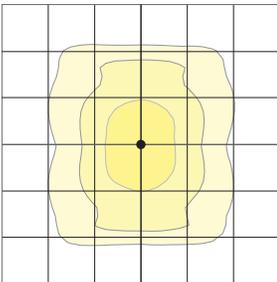
Type 4 Wide



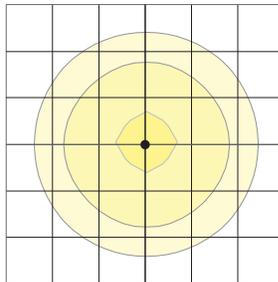
Type 5QM



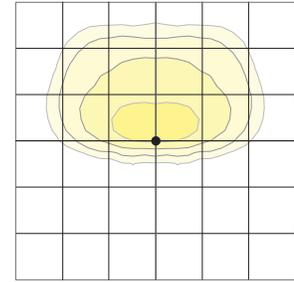
Type 5RW (rectangular)



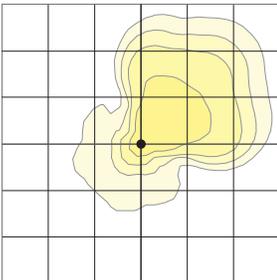
Type 5W (round wide)



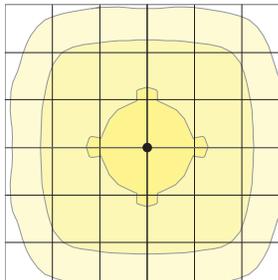
Type TC



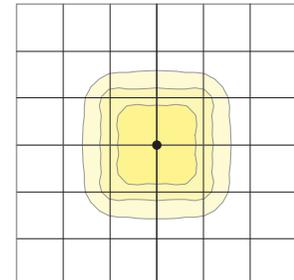
Type Corner



Type 5QW



Type 5QN

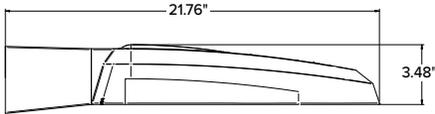
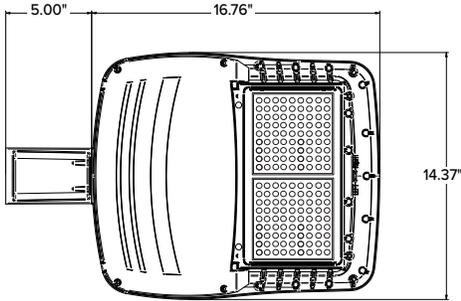


# VIPER Area/Site

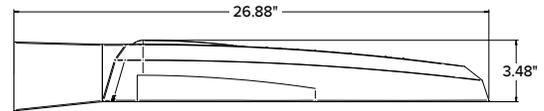
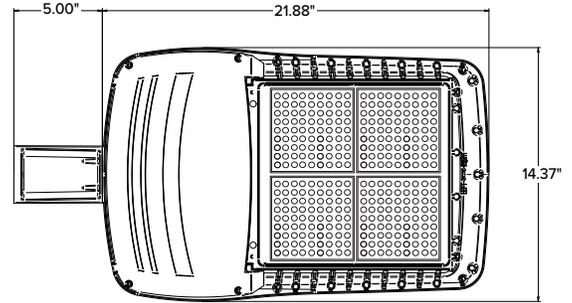
VIPER LUMINAIRE

## DIMENSIONS

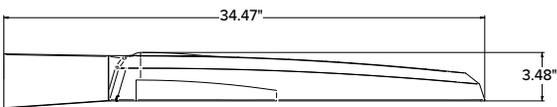
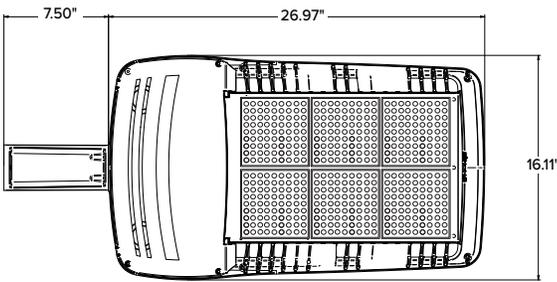
### SIZE 1



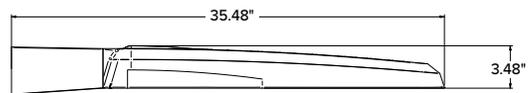
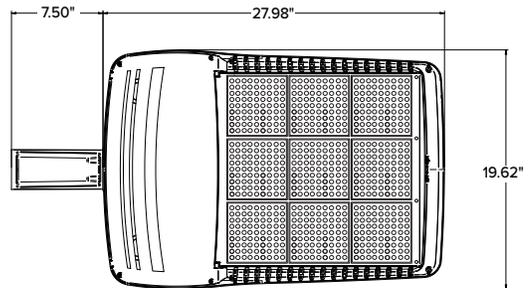
### SIZE 2



### SIZE 3



### SIZE 4



	EPA				Config.
	VP1 (Size 1)	VP2 (Size 2)	VP3 (Size 3)	VP4 (Size 4)	
Single Fixture	0.454	0.555	0.655	0.698	
Two at 180	0.908	1.110	1.310	1.396	
Two at 90	0.583	0.711	0.857	0.948	
Three at 90	1.037	1.266	1.512	1.646	
Three at 120	0.943	1.155	1.392	1.680	
Four at 90	1.166	1.422	1.714	1.896	

	Weight	
	lbs	kgs
VP1 (Size 1)	13.7	6.2
VP2 (Size 2)	16.0	7.26
VP3 (Size 3)	25.9	11.7
VP4 (Size 4)	30.8	13.9

# VIPER Area/Site

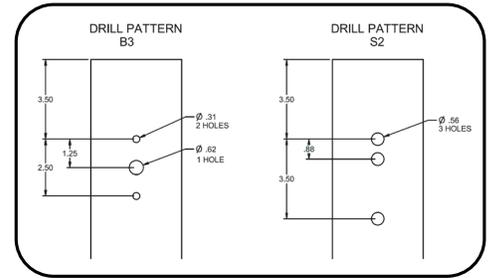
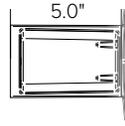
VIPER LUMINAIRE

## MOUNTING



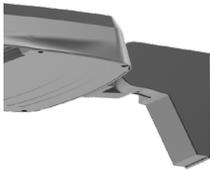
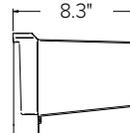
### A-STRAIGHT ARM MOUNT

Fixture ships with integral arm for ease of installation. Compatible with Current Outdoor B3 drill pattern for ease of installation on square poles. For round poles add applicable suffix (2/3/4/5)



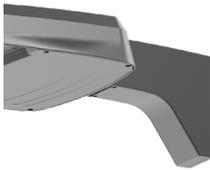
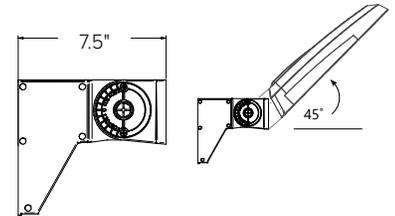
### ASQU-UNIVERSAL ARM MOUNT

Universal mounting block for ease of installation. Compatible with drill patterns from 1.5" to 5.25" and Current drill pattern S2. For round poles add applicable suffix (2/3/4/5)



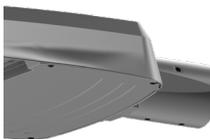
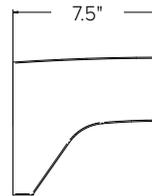
### AAU-ADJUSTABLE ARM FOR POLE MOUNTING

Rotatable arm mounts directly to pole. Compatible with drill patterns from 1.5" to 5.25" and Current drill pattern S2 and B3. For round poles add applicable suffix (2/3/4/5). Rotatable in 5° aiming angle increments. Micro Strike configurations have a 45° aiming limitation. Strike configurations have a 30° aiming limitation.



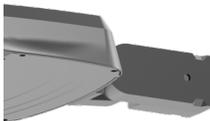
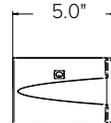
### ADU-DECORATIVE UPSWEPT ARM

Upswept Arm compatible with drill patterns from 1.5" to 5.25" and Current drill pattern S2. For round poles add applicable suffix (2/3/4/5).



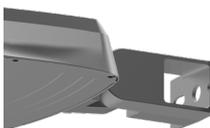
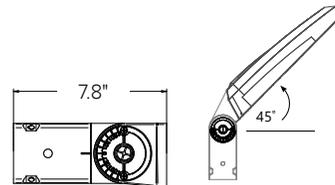
### MAF-MAST ARM FITTER

Fits 2-3/8" OD horizontal tenons.



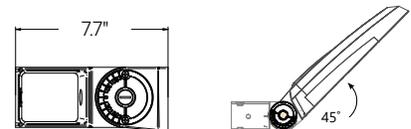
### K-KNUCKLE

Rotatable in 5-degree aiming angle increments, fits 2-3/8" tenons or pipes. Micro Strike configurations have a 45° aiming limitation. Strike configurations have a 30° aiming limitation.



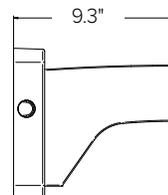
### T-TRUNNION

Trunnion for surface and crossarm mounting using (1) 3/4" or (2) 1/2" size through bolts. Micro Strike configurations have a 45° aiming limitation. Strike configurations have a 30° aiming limitation.



### WM-WALL MOUNT

Compatible with universal arm mount, adjustable arm mount, and decorative arm mount. The WA option uses the same wall bracket but replaces the decorative arm with an adjustable arm.



# VIPER Area/Site

VIPER LUMINAIRE

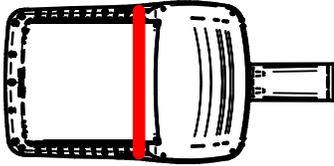
## ADDITIONAL INFORMATION (CONTINUED)

### HOUSE SIDE SHIELD FIELD INSTALL ACCESSORIES

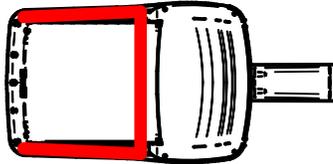
HSS has a depth of 5" for all Viper sizes

Not to be used with Occupancy Sensors as the shield may block the light to the sensor.

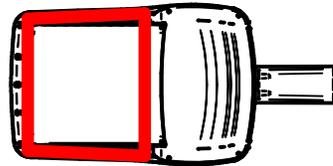
VPR2x HSS-90-B-xx



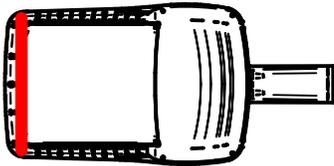
VPR2x HSS-270-BSS-xx



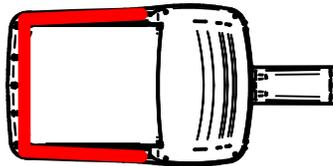
VPR2x HSS-360-xx



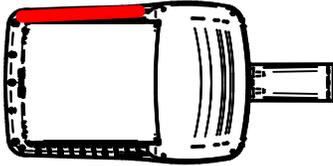
VPR2x HSS-90-F-xx



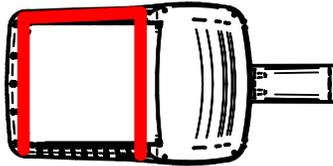
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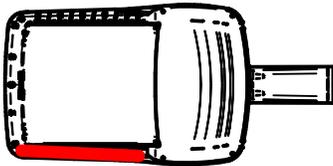
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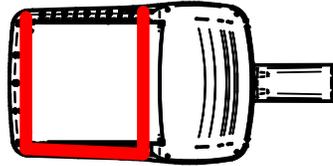
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VPR2x HSS-90-S-xx



VPR2x HSS-270-FSB-xx





May 16, 2024

City of Rockwall  
Attn: Planning Department  
385 S Goliad  
Rockwall, TX 75087

**RE: HTeaO - Creekside Commons (SP2024-xxx)  
xxxx S. Goliad Street  
Site Plan Submittal / Variance Request Letter**

We are excited to be submitting the site plan application for a proposed HTeaO drive-thru to be located on Lot 15, Creekside Commons Addition in south Rockwall. Our tenant is Jeff Ivy, a Rockwall-County based franchisee for HTeaO who is actively working to build several locations in the City of Rockwall and surrounding communities. It is our understanding he has previously submitted and received Architectural Review Board/Planning Commission approval for a "north Rockwall" location and this will be his "south Rockwall" location, to reach more members of the community.

The design and exterior façade of this location is very similar to what the City has previously approved at the north location; however, there are subtle differences and updates. For one, HTeaO corporate continues to evolve and improve their prototype building, and the building proposed is slightly narrower and longer than the prior location. This suits this location well, since the subject site is considerably smaller than the northern site. As the landlord and master developer for Creekside Commons, we have also worked to ensure this project will complement the recently constructed 7-Eleven and the soon-to-be constructed McDonalds within the development, using similar landscaping and lighting.

Like the north Rockwall site, the proposed building features a combination of natural stone, stucco and a nice composite lumber material at the entry/tower features that makes up HTeaO's core brand image. One notable difference – which we think is appealing – is that an additional vertical articulation/tower feature has been added at the drive-thru pickup window on the northwest elevation.

Nonetheless, we have identified and acknowledge that with this application we are seeking the following variances/exceptions to the Unified Development Code, and respectfully request's the City consideration and approval:

- 1) Roof Design – All structures less than 6,000 sf building footprint require a pitched rood system.
- 2) Horizontal articulation (drive-thru side of building)

To offset these variances, we are providing the following compensatory measures:

- Increased landscape buffer along Hwy 205 from **20-feet to 40-feet**, including berms and trees outside of existing utility easements.
- Increased overall open space (>25% provided vs 20% required)
- Parking lot landscaping (almost 4x the minimum 5 percent).
- Effective and enhanced screening adjacent to the drive-thru lane

Thank you for your consideration and we look forward to discussing further at the upcoming hearings.

Sincerely,

A handwritten signature in blue ink, appearing to read "Michael Hampton", is written over a horizontal line.

Michael Hampton  
Vice President  
Prudent Development  
(Creekside Commons Crossing, LP")

Prudent Development  
10755 Sandhill Road Dallas, Texas 75238  
Phone 214.271.4630 Fax 214.271.4631

Being a tract of land situated in the William W. Ford Survey, Abstract No. 80, City of Rockwall, Rockwall County, Texas, and being all of Lot 15, Block A and a portion of Lots 16 and 18, Block A of Creekside Commons Addition, an addition to the City of Rockwall, Rockwall County, Texas according to the plat thereof recorded in Instrument Number 20240000004925 of the Official Public Records of Rockwall County, Texas, and being more particularly described by metes and bounds as follows:

Beginning at a 1/2 inch iron rod with yellow plastic cap stamped "Summit" found for corner, said corner being the south corner of said Lot 15, Block A, said corner also being the west corner of Lot 14, Block A of said Creekside Commons Addition, said corner also being in the northeast line of that tract of land described as Parcel 1 Part 1 in deed to the State of Texas recorded in Instrument Number 20180000021509 of the Official Public Records of Rockwall County, Texas;

Thence North 45 degrees 52 minutes 18 seconds West, along the northeast line of said State of Texas tract, a distance of 85.35 feet to an "X" found for corner, said corner being the south corner of said Lot 16, Block A;

Thence North 43 degrees 59 minutes 07 seconds East, along the southeast line of said Lot 16, Block A, a distance of 40.52 feet to a point for corner;

Thence North 45 degrees 55 minutes 37 seconds West, traversing said Lot 16, Block A, a distance of 10.84 feet to a point for corner;

Thence North 44 degrees 04 minutes 23 seconds East, continuing to traverse said Lot 16, Block A and traversing said Lot 18, Block A, a distance of 266.11 feet to a point for corner;

Thence South 45 degrees 51 minutes 55 seconds East, continuing to traverse said Lot 18, Block A, a distance of 105.48 feet to a point for corner;

Thence South 44 degrees 06 minutes 48 seconds West, continuing to traverse said Lot 18, Block A, a distance of 37.00 feet to a point for corner, said point being in the northeast line of aforementioned Lot 14, Block A;

Thence North 45 degrees 51 minutes 55 seconds West, along the northeast line of said Lot 14, Block A, a distance of 9.00 feet to a 1/2 inch iron rod with yellow plastic cap stamped "Summit" found for corner, said corner being the north corner of said Lot 14, Block A;

Thence South 44 degrees 06 minutes 48 seconds West, along the northwest line of said Lot 14, Block A, a distance of 269.61 feet to the POINT OF BEGINNING and containing 29,441 square feet or 0.676 acres of land.