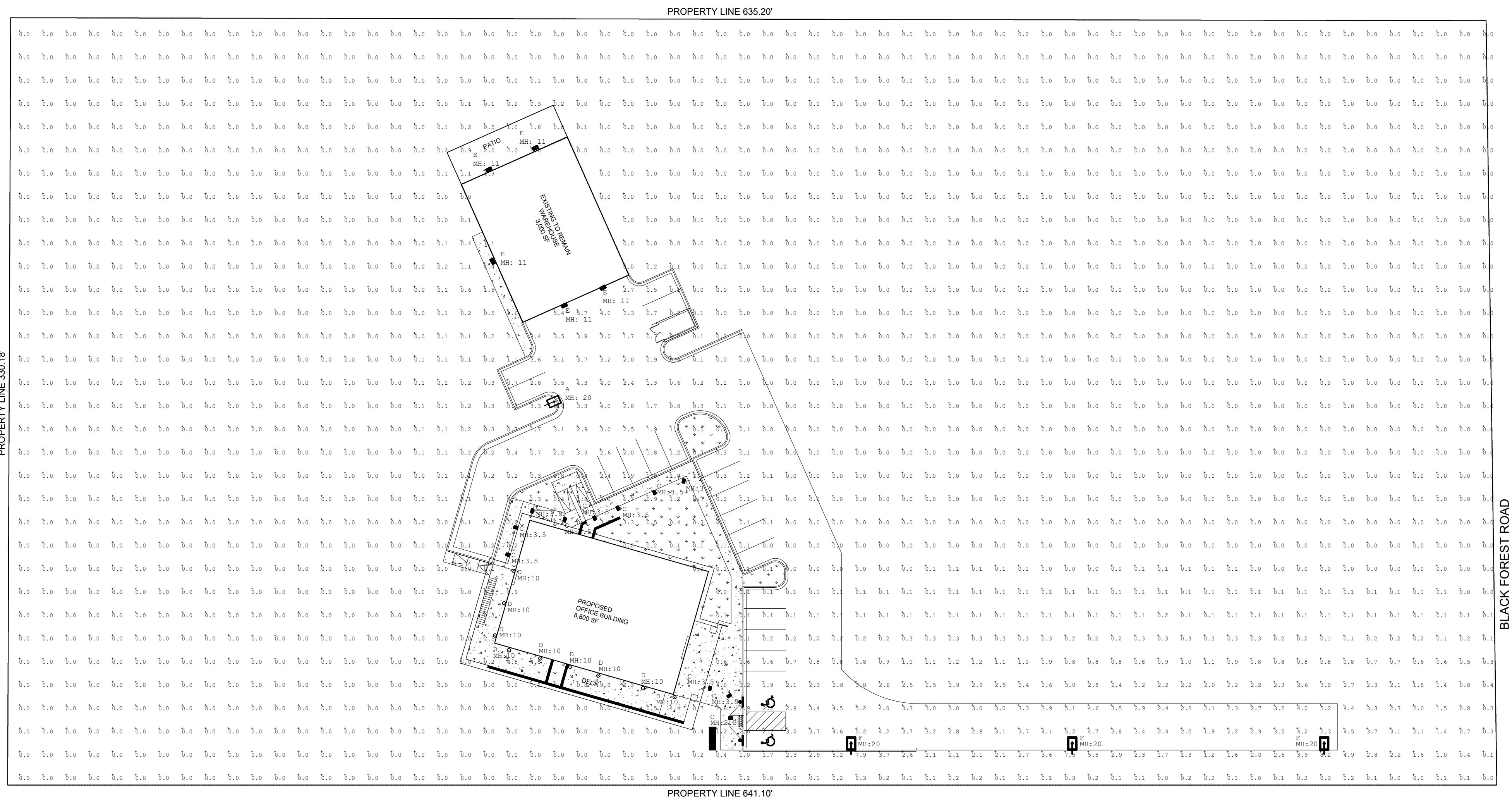


SITE DEVELOPMENT PLAN

BLACK FOREST OFFICE

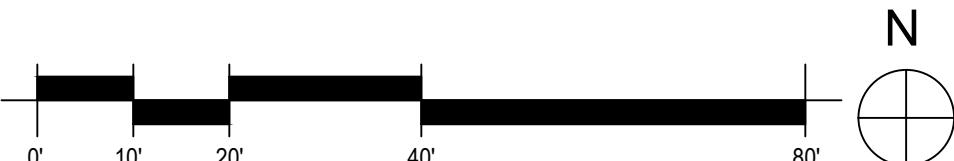
N1/2 NE1/4 SE 1/4 SE 1/4 OF SECTION 07, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF
THE 6TH P.M., EL PASO COUNTY, COLORADO

4.77 ACRES



① PHOTOMETRIC SITE PLAN

1/32" = 1'-0"



Luminaire Schedule					
Symbol	Qty	Label	Lum. Watts	Lum. Lumens	LLF
■	1	A	166	18459	0.900
■	11	C	28.9	557	0.900
○	9	D	20	1256	0.900
□	5	E	12.2	1418	0.900
■	3	F	166	15881	0.900

Calculation Summary						
Label	CalcType	Units	Avg	Max	Min	Avg/Min
SITE	Illuminance	Fc	0.33	9.9	0.0	N.A.
Deck under overhang	Illuminance	Fc	2.26	9.9	0.2	11.30
parking and drivel_1	Illuminance	Fc	1.94	5.7	0.0	N.A.

PHOTOMETRIC
PLAN

PROJECT NUMBER: SP0000-00
DATE PREPARED: 09-15-2020
PLANS PREPARED FOR:
BLACK FOREST, LLC
12740 BLACK FOREST RD.
COLORADO SPRINGS, CO 80908

SHEET
9 OF 10



SITE DEVELOPMENT PLAN

BLACK FOREST OFFICE

N1/2 NE1/4 SE 1/4 SE 1/4 OF SECTION 07, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF
THE 6TH P.M., EL PASO COUNTY, COLORADO

77 ACRES

Fixture Type "A & F"

McGraw-Edison

DESCRIPTION

The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated and UL/cUL Listed for wet locations.

SPECIFICATION FEATURES

Construction
Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, die-cast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested and rated. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

Electrical
LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Standard with 0-10V dimming. Shipped standard with Cooper Lighting Solutions proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to +40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 600mA, 800mA and 1200mA drive currents (nominal).

Optics
Patented, high-efficiency injection-molded AccuLED Optics technology. Optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT 70 CRI. Optional 3000K, 5000K and 6000K CCT.

Finish
Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is powder coated black. Standard housing colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.

Mounting
STANDARD ARM MOUNT:
Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during mounting. When mounting two or more luminaires at 90° and 120° apart, the EA extended arm matches available.

Warranty
Five-year warranty.

DIMENSIONS

DIMENSION DATA

Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length ¹	Weight with Arm (lbs.)	EPA with Arm ² (Sq. Ft.)
1-4	15-1/2" [394mm]	7" [178mm]	10" [254mm]	33 (15.0 kgs.)	0.96
5-6	21-5/8" [549mm]	7" [178mm]	10" [254mm]	44 (20.0 kgs.)	1.00
7-8	27-5/8" [702mm]	7" [178mm]	13" [330mm]	54 (24.5 kgs.)	1.07
9-10	33-3/4" [857mm]	7" [178mm]	16" [406mm]	63 (28.5 kgs.)	1.12

NOTES: 1. Optional arm length to be used when mounting two fixtures at 90° on a single pole. 2. EPA calculated with optional arm length.

CERTIFICATION DATA

- UL Certified
- IP66
- 3G VIB
- IEC68-2-27 Certified
- DLC
- DLC LM79 LM80
- LM79 LM80 Compliant
- IDA
- Light Allocations®
- LumenSense Technology
- WaveLink

DRILLING PATTERN

ENERGY DATA

- Electronic LED Driver
- >0.9 Power Factor
- <20% Total Harmonic Distortion
- 120V-277V 50/60Hz
- 347V, 480V 60Hz
- 40°C Min. Temperature
- 40°C Max. Temperature
- 50°C Max. Temperature (HA Option)

ARM MOUNTING REQUIREMENTS

Configuration	90° Apart	120° Apart
GLEON-AF-01	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-02	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-03	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-04	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-05	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AF-06	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AF-07	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AF-08	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AF-09	16" Extended Arm (Required)	16" Extended Arm (Required)
GLEON-AF-10	16" Extended Arm (Required)	16" Extended Arm (Required)

NOTES: 1 Round poles are 3 @ 120°. Square poles are 3 @ 90°. 2 Round poles are 3 @ 90°.

STANDARD WALL MOUNT

MAST ARM MOUNT

QUICK MOUNT ARM (INCLUDES FIXTURE ADAPTER)

QM Quick Mount Arm (Standard)

QMEA Quick Mount Arm (Extended)

QUICK MOUNT ARM DATA

Number of Light Squares ^{1,2}	"A" Width	Weight with QM Arm (lbs.)	Weight with QMEA Arm (lbs.)	EPA (Sq. Ft.)
1-4	15-1/2" [394mm]	35 (15.9 kgs.)	38 (17.27 kgs.)	1.11
5-6 ³	21-5/8" [549mm]	46 (20.91 kgs.)	49 (22.27 kgs.)	
7-8	27-5/8" [702mm]	56 (25.45 kgs.)	N/A	

NOTES: 1 QM option available with 1-8 light square configurations. 2 QMEA option available with 1-6 light square configurations. 3 QMEA arm to be used when mounting two fixtures at 90° on a single pole.

COOPER
Lighting Solutions

*www.designlights.org

TD500020EN June 2, 2020 12:06 PM

GLEON GALLEON LED

TD500020EN June 2, 2020 12:06 PM

Fixture Type "A & F"

page 2

GLEON GALLEON LED

ARM MOUNTING REQUIREMENTS

Configuration	90° Apart	120° Apart
GLEON-AF-01	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-02	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-03	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-04	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-05	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AF-06	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AF-07	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AF-08	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AF-09	16" Extended Arm (Required)	16" Extended Arm (Required)
GLEON-AF-10	16" Extended Arm (Required)	16" Extended Arm (Required)

NOTES: 1 Round poles are 3 @ 120°. Square poles are 3 @ 90°. 2 Round poles are 3 @ 90°.

STANDARD WALL MOUNT

MAST ARM MOUNT

QUICK MOUNT ARM (INCLUDES FIXTURE ADAPTER)

OM Quick Mount Arm (Standard)

QMEA Quick Mount Arm (Extended)

QUICK MOUNT ARM DATA

Number of Light Squares ^{1,2}	"A" Width	Weight with QM Arm (lbs.)	Weight with QMEA Arm (lbs.)	EPA (Sq. Ft.)
1-4	15-1/2" (394mm)	35 (15.91 kgs.)	38 (17.27 kgs.)	
5-6 ³	21-5/8" (549mm)	46 (20.91 kgs.)	49 (22.27 kgs.)	
7-8	27-5/8" (702mm)	56 (25.45 kgs.)	N/A	1.11

NOTES: 1 QM option available with 1-8 light square configurations. 2 QMEA option available with 1-6 light square configurations. 3 QMEA arm to be used when mounting two fixtures at 90° on a single pole.

TD500020EN
June 2, 2020 12:06 PM

Fixture Type "C"

SYNTRA BOLLARD

TECH LIGHTING®

Exhibiting a modern, Zen-like design approach, the Syntra outdoor bollard light blends seamlessly into contemporary architecture and landscapes. The symmetric down lighting provides abundant outdoor illumination and the clean, angular aesthetic maintains an understated elegance.

High quality LM80-tested LEDs
for consistent long-life performance and color

Outstanding protection against the elements:

- Powder coat finishes
- Stainless Steel mounting hardware
- Impact-resistant, UV stabilized frosted acrylic lensing

SPECIFICATIONS

DELIVERED LUMENS	578
WATTS	28.9
VOLTAGE	Universal 120-277V, with integral transient 2.5kV surge protection (driver)
SECONDARY SURGE PROTECTOR	10kA
DIMMING	0-10, ELV
LIGHT DISTRIBUTION	Symmetric
MOUNTING OPTIONS**	Bolt
PERFORMANCE OPTIONS	Photocontrol / In-Line Fuse
CCT	3000K or 4000K
CRI	80+
COLOR BINNING	3 Step
BUG RATING	B0-U1-G0
DARK SKY	Compliant
WET LISTED	IP65
GENERAL LISTING	ETL
CALIFORNIA TITLE 24	Can be used to comply with CEC 2016 Title 24 Part 6 for outdoor use. Registration with CEC Appliance Database not required.
START TEMP	-30°C
FIELD SERVICEABLE LED	Yes
CONSTRUCTION	Aluminum
HARDWARE	Stainless Steel
FINISH	Powder Coat
LED LIFETIME	L70; 70,000 Hours
WARRANTY*	5 Years
WEIGHT	29.2 lbs.

* Visit techlighting.com for specific warranty limitations and details.
**Bollard base not suitable for branch circuit through wiring.

ORDERING INFORMATION

7000BSYN	CRI/CCT	LENGTH	LENS	FINISH	VOLTAGE	DISTRIBUTION	OPTIONS	
830	80 CRI, 3000K	42	42°	C FLAT CLEAR	UNV	120V-277V	S SYMMETRIC	NONE
840	80 CRI, 4000K			Z BRONZE			PC	BUTTON PHOTOCONTROL
				H CHARCOAL			LF	IN-LINE FUSE
							PLCF	BUTTON PHOTOCONTROL & IN-LINE FUSE*

*FOR USE ONLY IN 120V-277V VERSION.

techlighting.com

SYNTRA BOLLARD

TECH LIGHTING®

SYNTRA BOLLARD

ANCHOR PLATE BOLT PATTERN

PHOTOMETRICS*

*For latest photometrics, please visit www.techlighting.com/OUTDOOR

SYNTRA BOLLARD

Total Lumen Output:	470
Total Power:	392
Luminaire Efficacy:	313
Color Temp:	235
CRI:	157
BUG Rating:	B0-U1-G0

PROJECT INFO

Fixture Type & Quantity	Job Name & Info	Notes
_____	_____	_____
_____	_____	_____

TECH LIGHTING®
GENERATION BRANDS
7400 Linder Avenue, Skokie, Illinois 60077
T 847.410.4400 F 847.410.4500

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techlighting.com

Fixture Type "C"

SYNTRA
BOLLARD

 TECH LIGHTING®

Syntra Bollard

Anchor Plate Bolt Pattern

PHOTOMETRICS*

*For latest photometrics, please visit www.techlighting.com/OUTDOOR

SYNTRA BOLLARD

Total Lumen Output:	578
Total Power:	28.9
Luminaire Efficacy:	19.9
Color Temp:	3000K
CRI:	80+
BUG Rating:	B0-U1-G0

PROJECT INFO

Fixture Type & Quantity

Job Name & Info

Notes

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 TECH LIGHTING®

GENERATION BRANDS
7400 Linder Avenue, Skokie, Illinois 60077
T 847.410.4400 F 847.410.4500

techlighting.com

ELECTRICAL SITE NOTES:

- CONTRACTOR SHALL BE HELD RESPONSIBLE FOR LOCATING, VERIFYING, AND AVOIDING ANY EXISTING UNDER GROUND SERVICES, OR UTILITIES AND NEW SERVICES OR UTILITIES BEING INSTALLED.

FOR LIGHT FIXTURE CONCRETE BASE, ALL CONCRETE AND REINFORCEMENT SHALL BE ENGINEERED BY SOIL ENGINEER AND SHALL BE DONE BY GENERAL CONTRACTOR.

FOR LIGHT FIXTURE CONCRETE BASE, DEPTH SHALL BE AND DIAMETER SHALL VERIFIED AND COORDINATED WITH SOIL ENGINEER PRIOR TO DIGGING.

ELECTRICAL CONTRACTOR SHALL PROVIDE MANUFACTURE INFORMATION FOR INSTALLATION OF ANCHOR BOLTS WITH GENERAL CONTRACTOR PRIOR TO POURING OF CONCRETE.

CONTRACTOR SHALL BE ENSURE ALL UTILITY SERVICES OR SPECIAL SYSTEM CABLING ARE LOCATED AND MARKED WITHIN THE NEW CONSTRUCTION AREA. ALL CAUTION SHALL BE TAKEN TO ENSURE UTILITY SERVICES OR SPECIAL SYSTEM CABLING WILL NOT BE DISTURBED. IF SERVICES HAVE BEEN DAMAGED, CONTACT APPROPRIATE DIVISION AND REPAIR CABLING AS REQUIRED FOR A FULLY OPERATIONAL SYSTEM.

COORDINATE ROUTING OF ALL CONDUITS WITH ENVIRONMENTAL CONTRACTOR AND ARCHITECT. ELECTRICAL CONTRACTOR IS TO ROUTE ELECTRICAL SYSTEMS THROUGH TRENCHES PROVIDED BY ENVIRONMENTAL CONTRACTORS. ELECTRICAL CONTRACTOR TO PROVIDE ADDITIONAL TRENCHING IN IMMEDIATE AREAS TO PROVIDE A COMPLETE SYSTEM.

UPON COMPLETION OF NEW UTILITY SERVICES INSTALLATION, THE APPROPRIATE CONTRACTOR SHALL REPAIR OR REPLACE THE DAMAGED SITE AREA TO THE ORIGINAL CONDITIONS THAT WAS AFFECTED FOR THE INSTALLATION OF THE NEW UTILITY SERVICE OR AS DIRECTED BY THE ARCHITECT.

FOR TELEPHONE COMPANY AND CABLE COMPANY USE; PROVIDE AND INSTALL SCHEDULE 80 CONDUITS WITH PULL WIRE AND WARNING TAPE. EXTEND CONDUIT (S) 5'-0" FROM EXTERIOR OF THE BUILDING UNLESS OTHERWISE DIRECT BY UTILITY COMPANIES OR GENERAL CONTRACTOR. CAP AND STAKE EXTERIOR END OF THE CONDUIT TO BE LOCATE FOR FUTURE USE. COORDINATE EXACT TERMINATION POINT LOCATION, SIZE OF CONDUITS, NUMBER OF CONDUITS AND ADDITIONAL REQUIREMENTS WITH APPROPRIATE UTILITY COMPANIES AND GENERAL CONTRACTOR PRIOR TO TRENCHING AND INSTALLATION.

INTERCEPT AND EXTEND TELEPHONE/CABLE CONDUITS TO THE THE MAIN TELEPHONE ROOM. PRIOR TO STUBBING CONDUIT INTO THE MAIN TELEPHONE ROOM, CONNECT GRC CONDUIT TO THE DIRECT BURIED SCHEDULE 80 PVC CONDUIT AS REQUIRED AND STUB GRC CONDUIT INTO THE MAIN TELEPHONE AND BUSH. THE SCHEDULE 80 PVC CONDUIT WILL NOT BE EXPOSED INSIDE THE

BUILDING STRUCTURE. COORDINATE EXACT ROUTING AND TERMINATION POINTS WITH GENERAL CONTRACTOR PRIOR TO COMMENCING OF WORK.

10. FURNISH AND INSTALL LIGHTING FIXTURES COMPLETE WITH LAMPS, BALLAST(S), AND REQUIRED MOUNTING HARDWARE. ELECTRICAL CONTRACTOR SHALL SUBMIT FIXTURE CUT SHEETS TO OWNER AND ARCHITECT FOR THEIR FINAL APPROVAL PRIOR TO ORDERING THE FIXTURES. ELECTRICAL CONTRACTOR SHALL ALSO VERIFY QUANTITIES, MOUNTING REQUIREMENTS, FINISHES, FIXTURE AVAILABILITY AND LEAD TIME FOR DELIVERY TO SITE.

11. SUBSCRIPT LOWERCASE LETTER ADJACENT TO FIXTURE INDICATES THE CHANNEL IN WHICH THE FIXTURES SHALL BE CONTROLLED AND WIRED THROUGH THE LCP-1 CHANNEL AUTOMATION SCHEDULE WITH POTO-CELL "ON" PER INDIVIDUAL POLE LIGHT FIXTURE HEAD. REFER TO FIRST FLOOR LIGHTING PLAN, E1.0 FOR ADDITIONAL INFORMATION.

DASHED LINE WEIGHT INDICATES UNDERGROUND WIRING. REFER TO ELECTRICAL BUILDING OUTLINE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

13. ENSURE VOLTAGE DROP IS CALCULATED FOR FINAL CIRCUITRY ROUTING PRIOR TO TRENCHING. ADJUST CONDUIT AND WIRE SIZE PER THE CALCULATIONS.

14. FOR LIGHT FIXTURE CONCRETE BASE, ALL CONCRETE AND REINFORCEMENT SHALL BE ENGINEERED BY SOIL ENGINEER AND SHALL BE DONE BY GENERAL CONTRACTOR.

15. ANY PROPOSED LIGHT FIXTURES INSTALLED ON PRIVATE PROPERTY, ADJACENT TO THE PUBLIC RIGHT-OF-WAY, SHALL BE ORIENTED IN SUCH A MANNER OR LIMITED IN LUMEN OUTPUT TO PREVENT GLARE PROBLEMS AND SHALL NOT EXCEED NATIONAL I.E.S. LIGHTING STANDARDS FOR DISABILITY GLARE.

16. CONTRACTOR SHALL POTHOLE AND VERIFY LOCATION OF THE EXISTING IRRIGATION MAINLINE AND COORDINATE WITH OWNER'S REP. PRIOR TO INSTALLATION OF THE NEW LIGHT POLE BASE OR CONDUIT RUNS.

ALL SITE LIGHTING OR EXTERIOR LIGHTING FIXTURES SHALL BE FULL CUT-OFF OR SHIELD TO PREVENT LIGHT SPILLAGE ONTO ADJACENT PROPERTIES AND ROADWAYS.

Fixture Type "D"

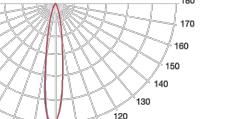


Date:	
Type:	
Fixture:	
Project:	



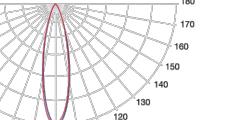
PHOTOMETRY

FCC610
120V
LED 4000K
1000 Lumens
Spot Distribution



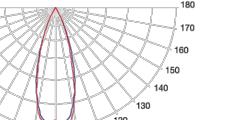
A polar plot showing a narrow beam angle for the FCC610 fixture. The main lobe is centered at 90 degrees with a width of approximately 20 degrees. The distribution is nearly uniform across the 180-degree horizontal plane.

FCC610
120V
LED 4000K
1000 Lumens
Narrow Flood Distribution



A polar plot showing a wider beam angle for the FCC610 fixture. The main lobe is centered at 90 degrees with a width of approximately 40 degrees. The distribution is relatively flat across the 180-degree horizontal plane.

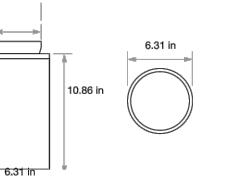
FCC610
120V
LED 4000K
1000 Lumens
Flood Distribution



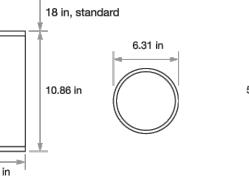
A polar plot showing a very wide beam angle for the FCC610 fixture. The main lobe is centered at 90 degrees with a width of approximately 120 degrees. The distribution is relatively flat across the 180-degree horizontal plane.

DIMENSIONS

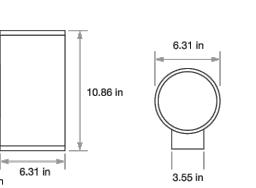
FCC610
FCC610P
FCC610W



Technical drawing of the FCC610 fixture dimensions. It shows a rectangular base with a height of 10.86 in, a top cap diameter of 6.31 in, and a side profile height of 1.4 in. The overall width is 5.4 in.



Technical drawing of the FCC610P fixture dimensions. It shows a rectangular base with a height of 10.86 in, a top cap diameter of 6.31 in, and a side profile height of 18 in. The overall width is 6.31 in.



Technical drawing of the FCC610W fixture dimensions. It shows a rectangular base with a height of 10.86 in, a top cap diameter of 6.31 in, and a side profile height of 5.52 in. The overall width is 6.31 in.

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JO Rev. 616

FIXTURE TYPE "D"

FC
LIGHTING

PHOTOMETRY

FCC610 120V LED 4000K 1000 Lumens Spot Distribution

A polar plot showing the photometric distribution of the FCC610 in Spot Distribution mode. The horizontal axis represents the angle in degrees from 0 to 120, and the vertical axis represents the intensity in lumens from 0 to 180. The distribution is highly concentrated, peaking at 1000 lumens at 90 degrees.

FCC610 120V LED 4000K 1000 Lumens Narrow Flood Distribution

A polar plot showing the photometric distribution of the FCC610 in Narrow Flood Distribution mode. The horizontal axis represents the angle in degrees from 0 to 120, and the vertical axis represents the intensity in lumens from 0 to 180. The distribution is moderately wide, peaking at 1000 lumens at 90 degrees.

FCC610 120V LED 4000K 1000 Lumens Flood Distribution

A polar plot showing the photometric distribution of the FCC610 in Flood Distribution mode. The horizontal axis represents the angle in degrees from 0 to 120, and the vertical axis represents the intensity in lumens from 0 to 180. The distribution is very broad, peaking at 1000 lumens at 90 degrees.

DIMENSIONS

FCC610

Technical drawings of the FCC610 fixture showing front view dimensions: height 10.86 in, width 6.31 in, depth 1.4 in, and mounting hole diameter Ø 5.4 in.

FCC610P

Technical drawings of the FCC610P fixture showing front view dimensions: height 10.86 in, width 6.31 in, and mounting hole diameter Ø 6.31 in. An optional backplane height of 18 in is also shown.

FCC610W

Technical drawings of the FCC610W fixture showing front view dimensions: height 10.86 in, width 6.31 in, depth 2.05 in, and mounting hole diameter Ø 5.52 in. An optional backplane height of 18 in is also shown.

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JO Rev. 616

Fixture Type "E"

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 facade/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 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

Catalog #	Type
Project	
Comments	Date
Prepared by	

XTOR
CROSSTOUR LED

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 Ingress 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.]

COOPER
Lighting Solutions

*www.designlights.org

TD514013EN

March 12, 2020 9:33 AM

This technical drawing illustrates the construction details for a utility pole foundation and support structure. The drawing is divided into two main sections: a detailed base foundation view on the left and a vertical pole assembly view on the right.

Left View (Base Foundation):

- 25'-0" STEEL POLE:** A vertical steel pole is shown above ground.
- ANCHOR BOLT (TYP 4):** An anchor bolt is shown at the top of the pole, with a note referring to Note 2.
- 4#4 REBARS W/#4 REBAR PIN TIES 12" O.C.:** Four #4 rebars are shown with pin ties spaced every 12 inches.
- #2 COOPER STRANDED GROUND CONDUCTOR:** A ground conductor is shown running through the rebar.
- FINISHED GRADE:** The top level of the soil is indicated.
- CONDUIT IN AND OUT 24" BELOW GRADE:** A conduit is shown entering and exiting the foundation 24 inches below grade.
- 3/4"x10" COPPER WELD GROUND ROD:** A ground rod is shown extending from the foundation into the earth.
- 2'-0" :** A dimension line indicates a distance of 2 feet 0 inches.
- NOTE 3.:** A note is present near the bottom left of the foundation.
- 45° CHAMFER:** A chamfered corner is shown on the side of the foundation.
- COVER:** A cover is shown at the top of the foundation.
- EDGED HAND HOLE:** A hand hole is shown at the top of the foundation.

Right View (Vertical Pole Assembly):

- 22'-6" POLE:** A vertical steel pole is shown.
- 1 HEAD WITH LED LAMPS:** A luminaire head is shown at the top of the pole.
- SQUARE STEEL POLE. PAINT TO MATCH LUMINAIRE.:** A note specifies the pole type and paint requirement.
- CONC. BASE (SEE BASE DETAIL THIS SHEET):** A note refers to the base detail on another sheet.

& F)
CUTTING ROLE BASE DETAIL

DEFINITION

- E:
ALL CONCRETE AND REINFORCING SHALL BE BY G.C.

ELECTRICAL CONTRACTOR SHALL COORDINATE ALL
REQUIREMENTS AND INSTALLATION PROCEDURES PER
MANUFACTURE'S RECOMMENDATIONS WITH GENERAL
CONTRACTOR.

PROVIDE A WEATHERPROOF, GFI DUPLEX RECEPTACLE WHERE
SHOWN ON PLAN. MOUNT TOP OF JUNCTION BOX FLUSH WITH

PHOTOMETRIC CUT SHEETS

PROJECT NUMBER: SP0000-00
DATE PREPARED: 09-15-2020
PLANS PREPARED FOR:

BLACK FOREST, LLC

12740 BLACK FOREST RD.
COLORADO SPRINGS CO 80908

SHEET
10 OF 10

PWN

The logo for Architects & Planners, Inc. It features the company name in a large, bold, serif font. The word "Architects" is on top and "Planners" is on the bottom, separated by a thin horizontal line. A small "Inc." is positioned at the end of the "Planners" line. Above the text is a stylized graphic element consisting of several thick, dark grey or black diagonal bars of varying lengths, creating a layered, geometric effect.