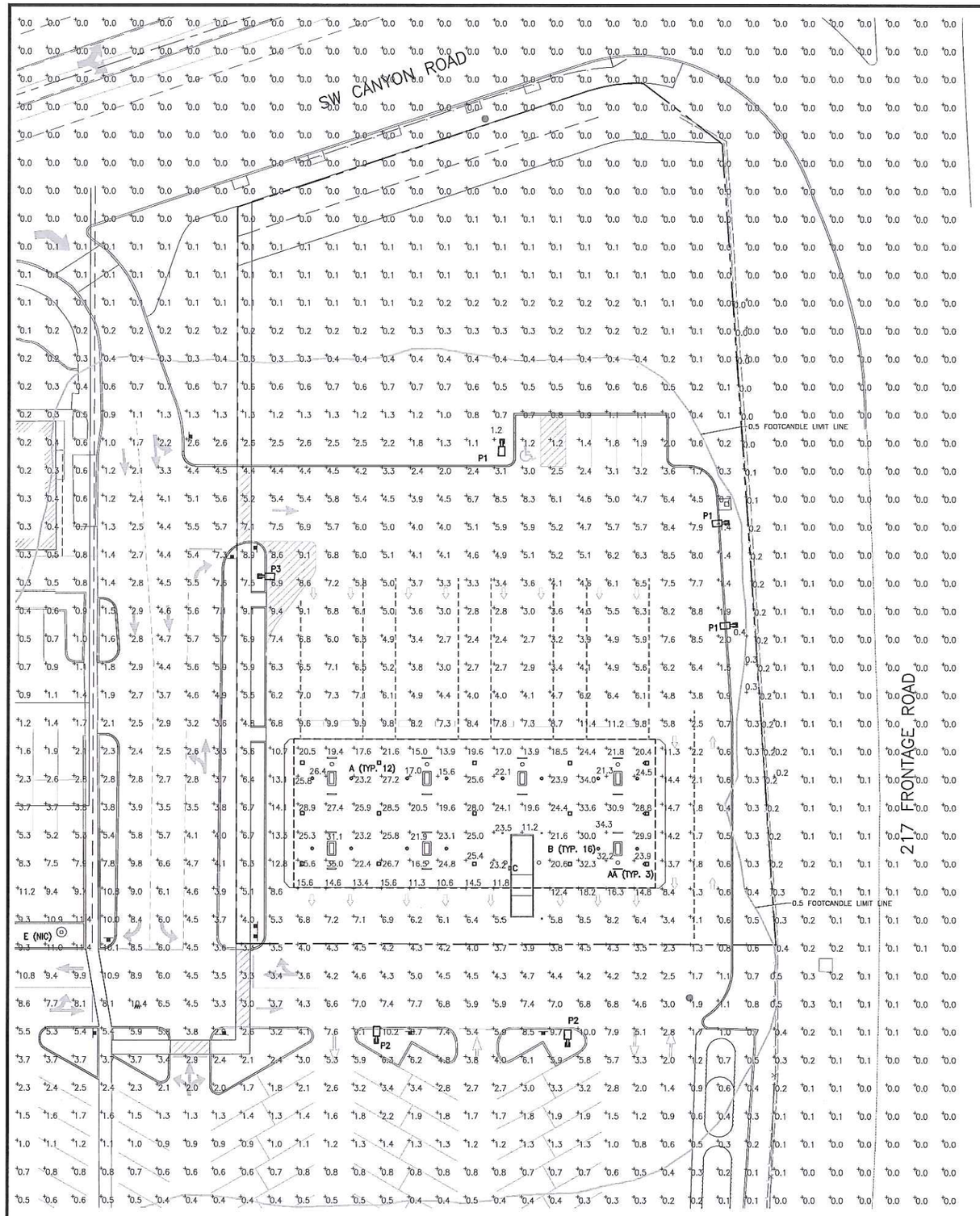

1 FUEL CENTER CANOPY LIGHTING PLAN

SCALE: 1"=20'-0"

LUMINAIRE SCHEDULE

FIXTURE	SYMBOL	QTY	POLE HEIGHT/ MOUNTING HEIGHT	MOUNTING	INITIAL LUMENS	MANUFACTURER/CATALOG #	LAMP TYPE	DIODES /WATTS
A		12	15'-6"	SURFACE	14570	LSI LIGHTING, LED CANOPY LIGHT #CRS-SC-LED-84-HO-CW-UE	LED	84
AA	AIM	3	15'-6"	SURFACE	14570	LSI LIGHTING, LED CANOPY LIGHT #CRS-AC-LED-84-HO-CW-UE	LED	84
B		1	15'-6"	SURFACE	1432	LUMARK, CROSSTOUR SERIES #XTORA2A-4000K	LED	20
C		16	15'-6"	SURFACE	2400	LSI LIGHTING, CROSSOVER SERIES #CR03-FO-LED-30-350-CW-UE-WHT	LED	30
E (NIC)		EXIST.	EXISTING	POLE	140000	EXISTING 1000W E25 SITE LIGHT FIXTURE (NOT IN CONTRACT)	HIGH PRESSURE SODIUM	1000
P1		3	27'-6"/30'-0"	POLE	80000	McGRAW EDISON, GALLERIA SQUARE #GSM-AIR-750-MH-FT-FG-EHS-BZ-L	METAL HALIDE	750
P2		2	27'-6"/30'-0"	POLE	40000	McGRAW EDISON, GALLERIA SQUARE #GSM-AIR-400-MP-MT-3F-FG-BZ-L	METAL HALIDE	400
P3		1	27'-6"/30'-0"	POLE	80000	McGRAW EDISON, GALLERIA SQUARE #GSM-AIR-750-MH-MT-AS-FG-BZ-L	METAL HALIDE	750

CALCULATION SUMMARY

LABEL	UNITS	AVG	MAX	MIN	AVG/MIN	MAX/MIN
CANOPY	FC	23.89	35.0	11.2	2.13	3.13
EXISTING SITE	FC	3.97	11.4	0.3	13.23	38.00
OVERALL FUEL SITE	FC	4.39	14.7	0.1	43.90	147.00

FIXTURE NOTES:

1. LAMP PROVIDED WITH FIXTURE.
2. PROVIDED THROUGH KROGER DIRECT BUY.
3. POLE: COOPER NO, TRS8A30SF-BZ WITH BASE COVER (30" ROUND TAPERED STEEL) CUT TO 27'-6". SEE POLE MOUNTING DETAIL, SHEET P1.2
4. FIXTURE COMPLIES TO THE CITY OF BEAVERTON TECHNICAL LIGHTING STANDARDS, TABLE 60.05-1.
5. FIXTURE CONTROLLED THROUGH THE FUEL KIOSK LIGHTING MANAGER EMS SYSTEM.
6. PROVIDE SUGGESTED HOUSE SIDE SHIELD ON SITE POLE LIGHT TO COMPLY WITH THE CITY OF BEAVERTON TECHNICAL LIGHTING STANDARDS, TABLE 60.05-1.
7. (NIC) NOT IN CONTRACT, SHOWN FOR REFERENCE ONLY.

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Planning. Architecture. Engineering.
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Greenwood Village, CO 80111
303.770.8884 O
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The Kroger Co.
Supermarket
Petroleum Group
Denver, CO 80239
Phone (303) 715-5901
Fax (303) 715-5905
FredMeyer

REVISIONS

No.	DESCRIPTION	DES. BY	DRAWN BY	DATE

Project #:	FM #035
Designed By:	JMG
Drawn By:	JMG
Checked By:	JMG
Date:	AUGUST, 2013
Scale:	FULL
Disk File:	KroD0697_LP1.0-Lite
Model:	

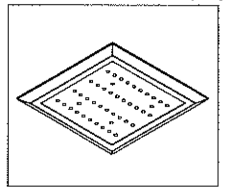
Address: 11360 SW Canyon Road Beaverton, OR

SITE LIGHTING PLAN

Drawing No.: LP-1.0

LED AMBIENT CANOPY LIGHT (CRS)

Crossover® LED LIGHTING TECHNOLOGY



May be covered by the following: US patent D474894, 7828459, 8062428 & 8042868 and MX patent 29937 and ISRL 48878 and AUS 28931/2008 and US & Int'l. patents pending

SMARTTEC™ ENERGY SAVING FEATURES:

THERMAL CONTROL - Sensor reduces drive current when ambient temperatures exceeds rated temperature.

LEDS - Choose from three array choices, 84, 64 and 128, which feature select high brightness LEDs; 5000°K color temperature, 70 CRI (nominal).

DRIVE CURRENT - Super Saver (SS) - most economical and highest lumens per watt or High Output (HO) - highest output per initial dollar.

OPTICS / DISTRIBUTION - Available with (SC) Standard Canopy or (AC) Asymmetric Canopy distribution.

OPTICAL UNIT - Featuring an ultra-slim 1" profile, housing is die-formed aluminum with a clear tempered glass lens. Unit is water-resistant, sealed to an IP67 rating. Patented integral single blade heat sink does not trap dirt and grime, ensuring cool running performance over the life of the fixture.

THE INDUSTRY'S ONLY BREATHABLE SEAL - Luminaire assembly incorporates a pressure stabilizing vent breather to prevent seal fatigue and failure.

DRIVER - State-of-the-art driver technology provides excellent system efficiency, control and protection. Components are fully encased in potting for IP65 moisture resistance. Complies with IEC and FCC standards.

DRIVER HOUSING - Wet location rated driver/electrical enclosure is elevated above canopy deck to help prevent water entry and to provide easy "knock-out" connection of primary wiring.

FINISH - Standard color is white. Finished with LSI's DuraGrip® polyester powder coat process. DuraGrip withstands extreme weather changes without cracking or peeling.

OPERATING TEMPERATURE - -40°C to +50°C (-40°F to +122°F)

ELECTRICAL - Universal voltage power supply, 120-277 VAC, 50/60 Hz input. Two-stage surge protection (including separate surge protection built into electronic driver) meets IEEE C62.41.2-2002, Scenario 1, Location Category C

INSTALLATION - Installs in a 12" or 16" deck pan. Deck penetration consists of 5 drilled holes simplifying installation and water sealing. Unit is designed to retrofit into existing Scottsdale® (4") hole as well as openings for Encore® and Encore® Top Access and to reconnect wiring from the SC/ECTA without having to relocate conduit. Retrofit panels are available for existing Scottsdales and Encores (see back page) as well as kits for recessed and 2x2 installations (see separate spec sheets).

SHIPPING WEIGHT - 9.2 lbs.

EXPECTED LIFE - Minimum 60,000 hours to 100,000 hours depending upon the ambient temperature of the installation location. See LSI web site for specific guidance.

WARRANTY - Limited 5-year warranty.

LISTING - ETL and UL listed to UL1598, UL8750 and other U.S. and International safety standards. Suitable for wet locations.

PHOTOMETRICS - Application layouts are available upon request. Contact LSI Petroleum Lighting or petroleum.apps@lsi-industries.com

LIGHT OUTPUT - CRS		SS - Super Saver		HO - High Output	
Description	# of LEDS	Lumens	Watts	Lumens	Watts
CRS SC LED	84	[illegible]	78	13596	105
CRS AC LED	64	7823	78	13195	105
CRS SC LED	84	10747	87	14573	147
CRS AC LED	84	10347	103	13960	147
CRS SC LED	128	16374	145	19835	198
CRS AC LED	128	16134	145	19300	198

LISTED · wet location · American Innovation · American Made · Suitable for wet locations · IP67 · RoHS

Project Name ______ Fixture Type ______
Catalog # ______

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LED AMBIENT CANOPY LIGHT (CRS)

Crossover® LED LIGHTING TECHNOLOGY

LUMINAIRE ORDERING INFORMATION

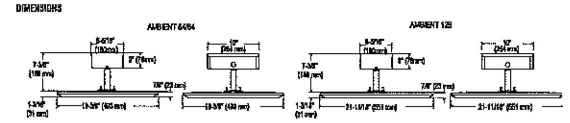
TYPICAL ORDER EXAMPLE:	(12) CRS SC LED 84 HO CW UE WHT
	(3) CRS AC LED 84 HO CW UE WHT

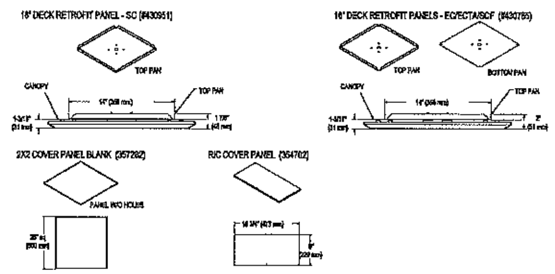
Prefix	Distribution	Light Source	# of LEDs	Drive Current	Color Temperature	Input Voltage	Finish	Options
CRS	SC - Standard Canopy AC - Asymmetric Canopy	LED	84	HO - High Output	CW - Cool White	UE - Universal Voltage (120-277 AC)	WHT - White	

Note:
1- Consult Factory

ACCESSORY ORDERING INFORMATION (Accessories are field installed)			
Description	Order Number	Description	Order Number
Retrofit Panel - SC to CRS, for 16" Deck Panel	430951	Retrofit 2x2 Cover Panel Blank (no holes)	357282
Retrofit Panel - EC / ECTA / SCF to CRS, for 16" Deck Panel	430765	Retrofit R/C Cover Panel Blank (no holes)	354702
Retrofit Panel - SC to CRS, for 12" Deck Panel	430767	Kit - Hole Plugs and Silicone (enough for 25 retrofits) [1]	172540
Retrofit Panel - ECTA / SCF to CRS, for 12" Deck Panel	430768	[1] Consists of (30) 7/8" hole plugs and (1) 10.3 oz tube of RTV	

DIMENSIONS





Project Name ______ Fixture Type ______
Catalog # ______

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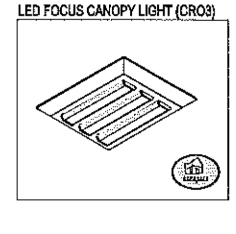
MANUFACTURER SPECIFICATION SHEET FOR CANOPY FIXTURE 'A' & 'AA'

LED FOCUS CANOPY LIGHT (CRO3)

Crossover® SOLID-STATE LIGHTING



US patent D574955, D590100 and US & Int'l patents pending

LEDS - Select high-brightness LEDs. 5300°K color temperature, 70 CRI (nominal).

OPTICS / DISTRIBUTIONS - Ultra-High efficiency optics provide precise beam placement for optimal retail surface illumination. Each bank of LEDs in a light cartridge is independently adjustable between +/- 45° allowing targeted zone illumination. Regardless of light cartridge position luminaire provides cutoff.

OPTICAL UNIT - Featuring a slim 2" profile luminaire. Housing is die-formed aluminum with independently adjustable extruded aluminum light cartridges. Each light cartridge is provided with a gasketed clear tempered glass lens providing a water-resistant seal.

DRIVER - State-of-the-art driver technology designed specifically for LSI LED light sources provides unsurpassed system efficiency. Input power is 50 watts. Components are fully encased in potting for moisture resistance. Driver complies with IEC and FCC standards.

DRIVER HOUSING - Weather-tight aluminum driver/electrical enclosure is elevated above canopy deck to ensure no water entry and providing "knock-out" entry for primary wiring.

FINISH - Standard color is white. Fixture is finished with LSI's DuraGrip® polyester powder coat process. DuraGrip withstands extreme weather changes without cracking or peeling.

OPERATING TEMPERATURE - -40°C to +50°C (-40°F to +122°F)

ELECTRICAL - Universal voltage power supply 120-277V VAC, (50/60 Hz) Input. C-Medium surge protection (10KV, 5KA per ANSI C62.41)

INSTALLATION - Installs in a 12" or 16" deck pan. Deck penetration consists of 5 drilled holes simplifying installation and water sealing. Unit is designed to retrofit into existing Scottsdale® (4") hole as well as openings for Encore® and Encore® Top Access and to reconnect wiring from the SC/ECTA without having to relocate conduit. Retrofit panels are available for existing Scottsdales and Encores (see back page) as well as kits for recessed and 2x2 installations (see separate spec sheets).

EXPECTED LIFE - Minimum 60,000 hours to 100,000 hours depending upon the ambient temperature of the installation location. See LSI web site for specific guidance.

WARRANTY - Limited 5-year warranty

LISTING - ETL listed to UL1598, UL8750 and other U.S. and International safety standards. Suitable for wet locations.

PHOTOMETRICS - Application layouts are available upon request. Contact LSI Petroleum Lighting or petroleum.apps@lsi-industries.com

LIGHT OUTPUT		
Fixture Distribution		Lumens (Nominal)
CRO3	Type FO	4000 (for each of 3 banks - total 3000)
	Input Power of 40 watts	

American Innovation · American Made · Suitable for wet locations · IP67 · RoHS · CE

Project Name ______ Fixture Type ______
Catalog # ______

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LED FOCUS CANOPY LIGHT (CRO3)

Crossover® SOLID-STATE LIGHTING

LUMINAIRE ORDERING INFORMATION

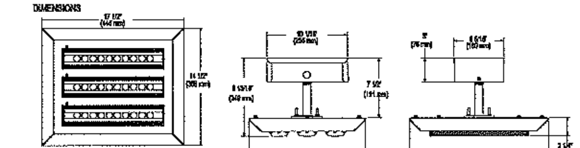
TYPICAL ORDER EXAMPLE: CRO3 FO LED 30 350 CW UE WHT

Luminaire Prefix	Distribution	Light Source	# of LEDs	Drive Current	Color Temperature	Input Voltage	Finish
CRO3	FO - Focus		30	350-350 mA	CW - Cool White (5000° K nom) LED	UE - Universal Voltage (120-277V AC)	WHT - White

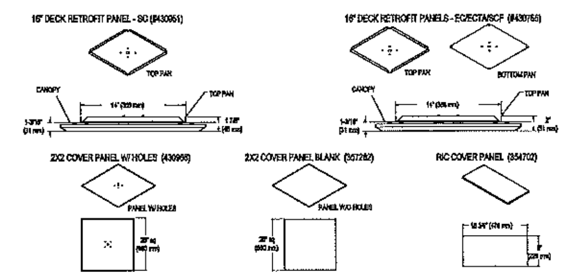
ACCESSORY ORDERING INFORMATION (Accessories are field installed)			
Description	Order Number	Description	Order Number
Retrofit Panel - SC to CRO3, for 16" Deck Panel	430951	Retrofit 2x2 Cover Panel Blank (no holes)	357282
Retrofit Panel - SC / ECTA / SCF to CRO3, for 16" Deck Panel	430765	Retrofit R/C Cover Panel Blank (no holes)	354702
Retrofit Panel - SC to CRO3, for 12" Deck Panel	430767	Kit - Hole Plugs and Silicone (enough for 25 retrofits) [1]	122540
Retrofit Panel - ECTA / SCF to CRO3, for 12" Deck Panel	430768	[1] Consists of (25) 7/8" hole plugs and (1) 10.3 oz tube of RTV	
Retrofit 2x2 Cover Panel (w/ surfaced hole pattern for CRO3)	430966		

SuperKits® are available to retrofit CRO3 Ambient and Focus fixtures into a wide variety of existing 2x2 and recessed housings. See separate spec sheets.

DIMENSIONS



SHIPPING WEIGHTS	
12.2 lbs.	1 fixture
53.3 lbs.	4 fixtures



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Project Name ______ Fixture Type ______
Catalog # ______

MANUFACTURER SPECIFICATION SHEET FOR FOCUS FIXTURE 'B'

LUMARK®

DESCRIPTION

The patent pending 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.

Catalog #	Type
Project	
Comments	Date
Prepared by	

SPECIFICATION FEATURES

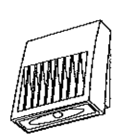
Construction
Slim, low profile LED design with rugged one-piece, die-cast aluminum hinged removable door and back box. Matching housing styles incorporate both a small and large design. The small housing is available in 10W and 20W. The large housing is available in the 30W model. Patent pending secure lock hinge feature allows for safe and easy tool-less electrical connections with the supplied push-in connectors. Back box includes three (3) half-inch NPT threaded conduit entry points. The universal back box supports both the small and large 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. Solid state LED Crosstour luminaires are thermally optimized with five (5) lumen packages in cool 5000K or neutral warm 3500K LED color temperature (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. 10W models operate in -40°C to 40°C [-40°F to 104°F]. 20W and 30W models operate in -30°C to 40°C [-22°F to 104°F]. Crosstour luminaires maintain greater than 70% of initial light output after 60,000 hours of operation. Three (3) half-inch NPT threaded conduit entry points allow for thru-branch wiring. Back box is an authorized electrical wiring compartment. Integral LED electronic driver incorporates surge protection. 10W, 120V, 60Hz, 20W and 30W, 120-277V or 347V 50/60Hz models.

Finish
Crosstour is protected with a Super TGIC carbon bronze or summit white polyester powder coat paint. Super TGIC powder coat paint finishes withstand extreme climate conditions while providing optimal color and gloss retention of the installed life.

Warranty
Crosstour features a five-year limited warranty.

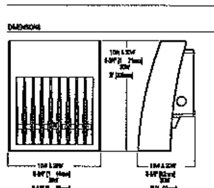


XTOR
CROSSTOUR LED

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

SustainabLEDesign

DIMENSIONS



CERTIFICATION DATA
UL/cUL Wet Location Listed
IP66 Ingress Protection Rated
ADA Compliant
LM79 / LM80 Compliant
ROHS Compliant
ARRA Compliant
DLC Qualified Models
Lighting Facts Approved
Title 24 Compliant
NOM Compliant Models

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

EPA
Effective Projected Area: (Sq. Ft.)
XTOR/A/XTOR/B=0.34
XTOR/C=0.46

SHIPPING DATA:
Approximate Net Weight:
3.7 - 4.25 lbs. [1.7 - 3.4 kgs.]

COOPER Lighting
www.cooperlighting.com

ADH 110!! pe
2013-08-01 [illegible]

ORDERING INFORMATION

XTOR CROSSTOUR LED

[illegible]

STOCK ORDERING INFORMATION

[illegible]

5 Days Quick-Ship

[illegible]

LUMENS / CRI / CCT TABLE

[illegible]

CURRENT DRAW

[illegible]

COOPER Lighting
www.cooperlighting.com

NOTE: Specifications and dimensions subject to change without notice.
Visit our web site at www.cooperlighting.com
Customer First Center 1121 Highway 74 South Peachtree City, GA 30269 770.486.4800 FAX 770.486.4801

MANUFACTURER SPECIFICATION SHEET FOR BUILDING FIXTURE 'C'

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The Kroger Co.
Supermarket
Petroleum Group
Denver, CO 80239
Phone (303) 715-5901
Fax (303) 715-5905

FredMeyer

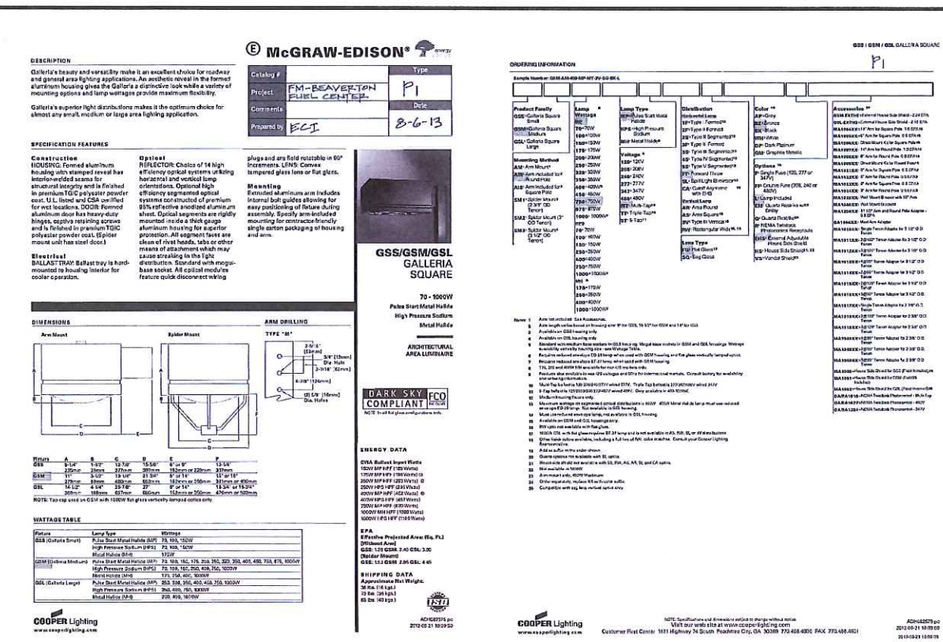
REVISIONS

No.	DESCRIPTION	DES. BY	DRAWN BY	DATE

Project #:	FM #035
Designed By:	DLJ
Drawn By:	JMG
Checked By:	DLJ
Date:	AUGUST, 2013
Scale:	FULL
Disk File:	KroFM035_LP1.x-Lite
Model:	
Address:	11360 SW Canyon Road Beaverton, OR

SITE LIGHTING DETAILS

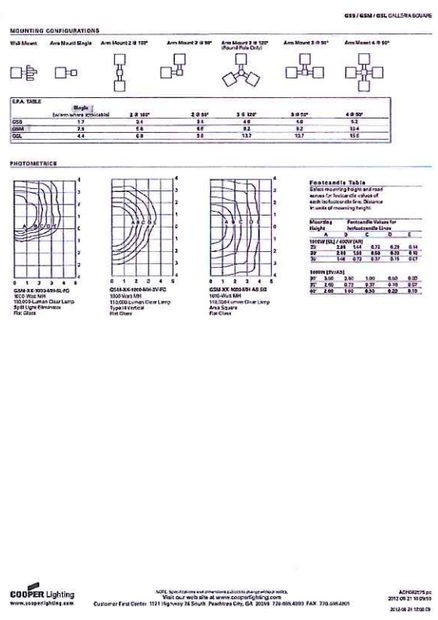
Drawing No.: LP-1.1



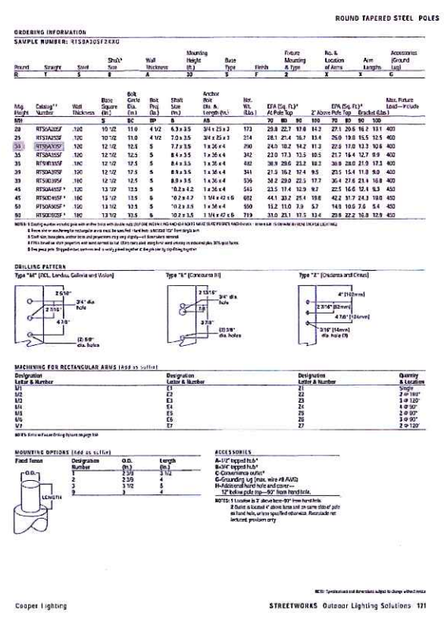
MANUFACTURER SPECIFICATION SHEET FOR SITE FIXTURE 'P1'

MANUFACTURER SPECIFICATION SHEET FOR SITE FIXTURE 'P2'

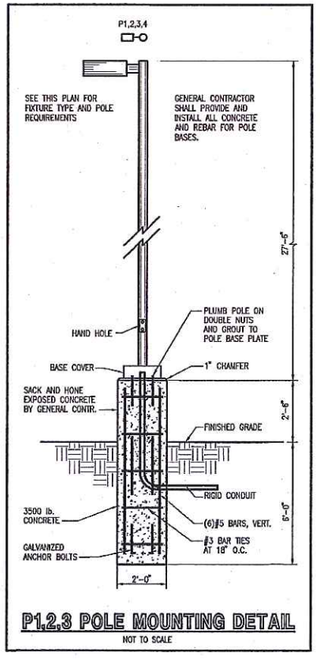
MANUFACTURER SPECIFICATION SHEET FOR SITE FIXTURE 'P3'



MANUFACTURER SPECIFICATION SHEET FOR ALL SITE FIXTURE 'P1', 'P2' & 'P3'

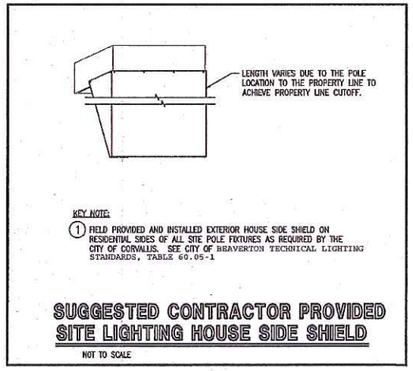


MANUFACTURER SPECIFICATION SHEET FOR ALL SITE FIXTURE POLES



P1,2,3 POLE MOUNTING DETAIL

NOT TO SCALE



SUGGESTED CONTRACTOR PROVIDED SITE LIGHTING HOUSE SIDE SHIELD

NOT TO SCALE

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303.770.8884 F
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The Kroger Co.
Supermarket
Petroleum Group
Denver, CO 80239
Phone: (303) 715-5901
Fax: (303) 715-5905

FredMeyer

REVISIONS

No.	DESCRIPTION	DES. BY	DRAWN BY	DATE

Project #:	FM #035
Designed By:	DLJ
Drawn By:	JMG
Checked By:	DLJ
Date:	AUGUST, 2013
Scale:	FULL
Disk File:	KroFM035_LP1.x-Lite
Model:	
Address:	11360 SW Canyon Road Beaverton, OR

SITE LIGHTING DETAILS

Drawing No.: LP-1.2