

PHOTOMETRIC PLAN

QT 4448 ADDITION SUBDIVISION

LOT 1

PROJECT NO.:89-4



TECHNOLOGY + SECURITY SOLUTIONS
800.685.6440
www.cruxsolutions.com

www.cruxsolutions.com

Photometric Data Table

Photometric Data Table			
	Description	Value	Unit
	Total proposed external lumens	1,076,343	Lumens
	Total square footage of area to be illuminated.	97,856	Square Feet
Fixture #	Description	Value	Unit
1	i) Type of Fixture (i.e. Pole, Wall Mounted)	Pole	
	ii) manufacturer and model number(s)	LSI Industries SLM-LED-12L-SIL-FT-40-70-CRI	
	iii) Number of these Fixtures Shown	9	Fixtures
	vi) Lamp source type (bulb type, i.e. high pressure sodium, LED)	LED	
	v) Lumen output and wattage per Fixture	12,591lms/93.1w	Lumen/Wattage
	vi) Mounting Height / Fixture Height	22	Feet
Fixture #	Description	Value	Unit
2	i) Type of Fixture (i.e. Pole, Wall Mounted)	Pole	
	ii) manufacturer and model number(s)	LSI Industries SLM-LED-12L-SIL-FT-40-70-CRI	
	iii) Number of these Fixtures Shown	3	Fixtures
	vi) Lamp source type (bulb type, i.e. high pressure sodium, LED)	LED	
	v) Lumen output and wattage per Fixture	25,182lms/186.2w	Lumen/Wattage
	vi) Mounting Height / Fixture Height	22	Feet
Fixture #	Description	Value	Unit
3	i) Type of Fixture (i.e. Pole, Wall Mounted)	Pole	
	ii) manufacturer and model number(s)	LSI Industries SLM-LED-12L-SIL-FT-40-70-CRI	
	iii) Number of these Fixtures Shown	1	Fixtures
	vi) Lamp source type (bulb type, i.e. high pressure sodium, LED)	LED	
	v) Lumen output and wattage per Fixture	37,773lms/279.3w	Lumen/Wattage
	vi) Mounting Height / Fixture Height	22	Feet
Fixture #	Description	Value	Unit
4	i) Type of Fixture (i.e. Pole, Wall Mounted)	Soffit mounted	
	ii) manufacturer and model number(s)	LSI Industries SCV-LED-13L-SC-40 (WHITE)	
	iii) Number of these Fixtures Shown	32	Fixtures
	vi) Lamp source type (bulb type, i.e. high pressure sodium, LED)	LED	
	v) Lumen output and wattage per Fixture	12,793lms/83.6w	Lumen/Wattage
	vi) Mounting Height / Fixture Height	17	Feet
Fixture #	Description	Value	Unit
5	i) Type of Fixture (i.e. Pole, Wall Mounted)	Soffit mounted	
	ii) manufacturer and model number(s)	LSI Industries SCV-LED-13L-SC-40 (BLACK)	
	iii) Number of these Fixtures Shown	12	Fixtures
	vi) Lamp source type (bulb type, i.e. high pressure sodium, LED)	LED	
	v) Lumen output and wattage per Fixture	12,793lms/83.6w	Lumen/Wattage
	vi) Mounting Height / Fixture Height	17	Feet
Fixture #	Description	Value	Unit
6	i) Type of Fixture (i.e. Pole, Wall Mounted)	Soffit mounted	
	ii) manufacturer and model number(s)	LSI Industries XSPS-S-LED-VHO-NW-DFL	
	iii) Number of these Fixtures Shown	9	Fixtures
	vi) Lamp source type (bulb type, i.e. high pressure sodium, LED)	LED	
	v) Lumen output and wattage per Fixture	6,041lms/48.7w	Lumen/Wattage
	vi) Mounting Height / Fixture Height	10	Feet
Fixture #	Description	Value	Unit
7	i) Type of Fixture (i.e. Pole, Wall Mounted)	Wall mounted	
	ii) manufacturer and model number(s)	LSI Industries XMW-3-LED-06-40	
	iii) Number of these Fixtures Shown	5	Fixtures
	vi) Lamp source type (bulb type, i.e. high pressure sodium, LED)	LED	
	v) Lumen output and wattage per Fixture	6,275lms/54w	Lumen/Wattage
	vi) Mounting Height / Fixture Height	12	Feet
Fixture #	Description	Value	Unit
8	i) Type of Fixture (i.e. Pole, Wall Mounted)	Pole	
	ii) manufacturer and model number(s)	LSI Industries MRL-LED-65L-SIL-FT-40-70-CRI-IL	
	iii) Number of these Fixtures Shown	3	Fixtures
	vi) Lamp source type (bulb type, i.e. high pressure sodium, LED)	LED	
	v) Lumen output and wattage per Fixture	67,023lms/592w	Lumen/Wattage
	vi) Mounting Height / Fixture Height	35	Feet

**PRELIMINARY PLAN
QT 4448 ADDITION SUBDIVISION LOT 1
QuikTrip No. 4448**

EOLA ROAD (IL 14) & DIEHL ROAD
AURORA, DUPAGE COUNTY, IL 60502

Current Land Owner:
Yorkville partners II, LLC
1733 park Street, Ste 110
Naperville, IL 60563
Timothy Boos, Manager
tboos@boosrt.com
312-560-2560

All Bunkers
abukhres@quiktrip.com
918-284-9456

REVIEWED BY: JC

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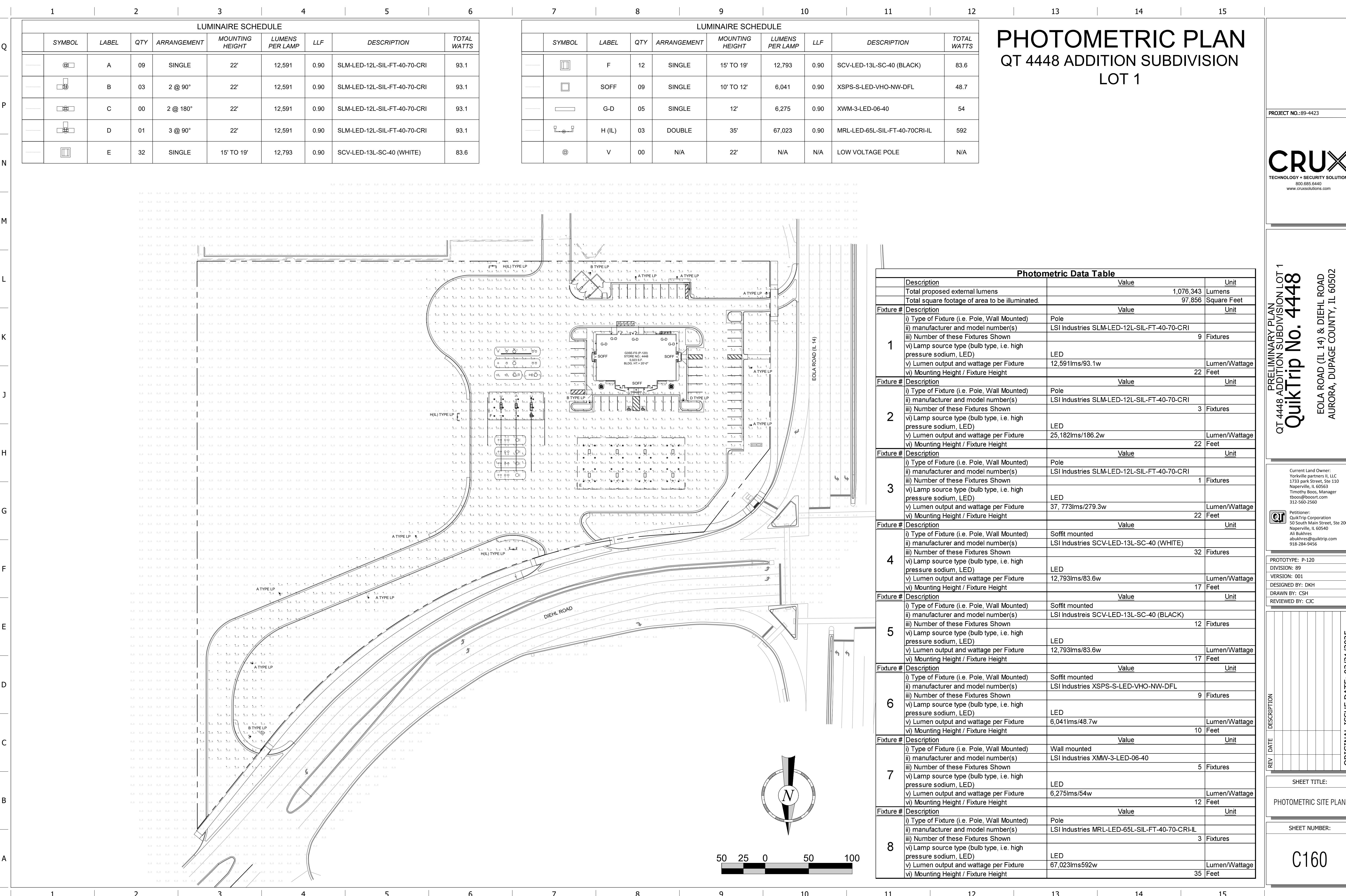
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SHEET NUMBER:

C160

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ANSWER



PHOTOMETRIC PLAN

QT 4448 ADDITION SUBDIVISION

LOT 1

PROJECT NO.:89-4423



PRELIMINARY PLAN QT 4448 ADDITION SUBDIVISION LOT 1

EOLA ROAD (IL 14) & DIELH ROAD
AURORA, DUPAGE COUNTY, IL 60502

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15																																																																	
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Slice Medium - SLM Outdoor LED Area Light																																																																															
Features & Specifications (Cont.)																																																																															
Construction The Slice's sleek design makes it perfectly-suited for Commercial & Industrial applications, while its cost-effective die-cast aluminum housing makes its acquisition cost very competitive. The Slice offers high performance silicone optics, die cast aluminum housing, 42000+ lumens and is available with integral Airlink Synapse controls.																																																																															
Performance																																																																															
ELECTRICAL DATA (AMPS): <table border="1"> <tr> <td>Lumens</td><td>Watts</td><td>120V</td><td>200V</td><td>240V</td><td>277V</td><td>347V</td><td>484V</td> </tr> <tr> <td>9L</td><td>60.0</td><td>10.0</td><td>10.0</td><td>10.0</td><td>10.0</td><td>10.0</td><td>10.0</td> </tr> <tr> <td>12L</td><td>90.0</td><td>15.0</td><td>14.0</td><td>14.0</td><td>14.0</td><td>14.0</td><td>14.0</td> </tr> <tr> <td>18L</td><td>148.5</td><td>1.0A</td><td>0.7A</td><td>0.6A</td><td>0.5A</td><td>0.4A</td><td>0.3A</td> </tr> <tr> <td>24L</td><td>188.8</td><td>1.0A</td><td>0.9A</td><td>0.8A</td><td>0.7A</td><td>0.6A</td><td>0.5A</td> </tr> <tr> <td>30L</td><td>248.6</td><td>2.1A</td><td>1.3A</td><td>1.0A</td><td>0.8A</td><td>0.7A</td><td>0.6A</td> </tr> <tr> <td>36L</td><td>317.9</td><td>2.0A</td><td>1.5A</td><td>1.3A</td><td>1.0A</td><td>0.8A</td><td>0.7A</td> </tr> <tr> <td>42L</td><td>384.4</td><td>2.0A</td><td>1.5A</td><td>1.3A</td><td>1.0A</td><td>0.8A</td><td>0.7A</td> </tr> </table>																Lumens	Watts	120V	200V	240V	277V	347V	484V	9L	60.0	10.0	10.0	10.0	10.0	10.0	10.0	12L	90.0	15.0	14.0	14.0	14.0	14.0	14.0	18L	148.5	1.0A	0.7A	0.6A	0.5A	0.4A	0.3A	24L	188.8	1.0A	0.9A	0.8A	0.7A	0.6A	0.5A	30L	248.6	2.1A	1.3A	1.0A	0.8A	0.7A	0.6A	36L	317.9	2.0A	1.5A	1.3A	1.0A	0.8A	0.7A	42L	384.4	2.0A	1.5A	1.3A	1.0A	0.8A	0.7A
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<small>FOOTNOTES:</small> <ul style="list-style-type: none"> 1 - Not available on 484V distribution. 2 - Control factory for availability. 3 - Only available in 9L and 12L Lumen Packages. 4 - Available in 9L, 12L, 18L, 24L, 30L, 36L, 42L. 5 - Consult Factory for Site Layout. 6 - IMS is field adjustable, via a hand held Remote Configurator Tool, which must be ordered separately. See Accessory Ordering Information. 7 - Control device must be ordered separately. 7 pin standard. See Accessory Ordering Information. 8 - Accessories are shipped separately and field installed. 9 - 7-pin ANS 130-41-2010 control receptacle option for "P" Poles. 10 - Only available with ALSU Control. 11 - "CLP" denotes finish. See Finish options. 12 - Only available in 9L/12L/24L lumen packages 24L-42L. 																																																																															
<small>Accessories/Options</small>																																																																															
<small>Integral Louver</small> Accessory Integral Louver available for improved back-light control without sacrificing street side performance. LSI Integral Louver (IL) option delivers back-light control that significantly reduces light spill behind the pole for applications with pole locations close to adjacent properties. The integral louver is designed to rotate 180° around the optical axis - reducing glare, maintaining the optical distribution selected, and most importantly, eliminating light trespass. The integral louver rotates with the optical distribution.																																																																															
<small>Luminaire Shown with Integral Louver (IL)</small>																																																																															
<small>7 Pin Photocentric Control</small> 7-pin ANS 130-41-2010 control receptacle option available for twist lock photocentrals or wireless controls module. Control accessories sold separately. Dimming leads from the receptacle will be connected to the driver dimming leads (Consult factory for alternate wiring).																																																																															
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Stand-alone Controls: Occupancy Sensor (IMS)																																																																															
The integral passive infrared motion sensor activates switching of luminaire light levels. Standard factory settings: High level light is activated and increased to full bright upon detection of motion. Lowlight level (10% maximum drive current) is activated when target zone detects motion activity for ~5 minutes. See coverage diagram for detection cone.																																																																															
The Remote Configurator Tool allows for easy and safe programming of each luminaire from ground level. See the Remote Configurator User Guide for programming instructions.																																																																															
When ordering the Stand-alone Occupancy Sensor on the fixture, you must include IMS (see ordering guide for mounting height options) as the controls option in the fixture nomenclature.																																																																															
To order as a motion sensor with the Airlink Wireless Control System, see ordering guide under "Wireless Controls System" and select the LSISCS04 option with the desired mounting height.																																																																															
<small>IMS Coverage Diagrams</small>																																																																															
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<small>Luminaire Shown with IMS</small>																																																																															
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<small>Top View</small>																																																																															
<small>LSI Industries Inc. 10000 Alliance Rd Cincinnati, OH 45242 • www.lsi-industries.com • (513) 372-3200 • LSI Industries Inc. All Rights Reserved. 09/28/18</small>																																																																															
Slice Medium - SLM Outdoor LED Area Light																																																																															
AirLink™ enabled by Synapse®																																																																															
The AirLink™ enabled by Synapse Wireless Lighting Control System is the perfect solution for commercial, industrial and municipal applications such as street lighting, parking lots, garages, shopping complexes and warehouses. It allows for complete customization of the system's features. Some capabilities of the system include: occupancy/sensitivity sensing, daylight harvesting, scheduling, high-end trim, dimming, zone control, BMS integration and energy monitoring.																																																																															
The AirLink System																																																																															
Features & Specifications																																																																															
Optical System State-of-the-Art one piece silicone optic sheet delivers industry leading optical control with an integrated gasket to provide IP66 rated sealed optical chamber in 1 component.																																																																															
Proprietary silicone reflectors optics provide exceptional coverage and uniformity in IES Types 2, 3, FMT and FTA.																																																																															
Silicone optical materials does not yellow or crack with age and provides a typical light transmittance of 93%.																																																																															
Zero uplight.																																																																															
Available in 5000K, 4000K, 3000K, and 2700K color temperatures per ANSI C78.3-2008 (6000K CRI available in 80CRI only).																																																																															
Minimum CRI of 80. Optional 80 and 90 CRI available, consult factory for lead time.																																																																															
Integral Louver (IL) option available for improved back-light control without sacrificing street side performance. See Accessory Ordering Information.																																																																															
Power factor > 0.9.																																																																															
Input power stays constant over life.																																																																															
Field replaceable surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).																																																																															
High-efficiency LEDs mounted to metal-core circuit board to maximize heat dissipation.																																																																															
Terminal block provided accepts up to 10ga wire.																																																																															
Components are fully encased in potting material for moisture resistance. Driver complies with FCC standards. Driver and key electronic components can easily be accessed.																																																																															
Product Dimensions																																																																															
<table border="1"> <tr> <td>Lumens</td><td>Watts</td><td>120V</td><td>200V</td><td>240V</td><td>277V</td><td>347V</td><td>484V</td> </tr> <tr> <td>9L</td><td>60.0</td><td>10.0</td><td>10.0</td><td>10.0</td><td>10.0</td><td>10.0</td><td>10.0</td> </tr> <tr> <td>12L</td><td>90.0</td><td>15.0</td><td>14.0</td><td>14.0</td><td>14.0</td><td>14.0</td><td>14.0</td> </tr> <tr> <td>18L</td><td>148.5</td><td>1.0A</td><td>0.7A</td><td>0.6A</td><td>0.5A</td><td>0.4A</td><td>0.3A</td> </tr> <tr> <td>24L</td><td>188.8</td><td>1.0A</td><td>0.9A</td><td>0.8A</td><td>0.7A</td><td>0.6A</td><td>0.5A</td> </tr> <tr> <td>30L</td><td>248.6</td><td>2.1A</td><td>1.3A</td><td>1.0A</td><td>0.8A</td><td>0.7A</td><td>0.6A</td> </tr> <tr> <td>36L</td><td>317.9</td><td>2.0A</td><td>1.5A</td><td>1.3A</td><td>1.0A</td><td>0.8A</td><td>0.7A</td> </tr> <tr> <td>42L</td><td>384.4</td><td>2.0A</td><td>1.5A</td><td>1.3A</td><td>1.0A</td><td>0.8A</td><td>0.7A</td> </tr> </table>																Lumens	Watts	120V	200V	240V	277V	347V	484V	9L	60.0	10.0	10.0	10.0	10.0	10.0	10.0	12L	90.0	15.0	14.0	14.0	14.0	14.0	14.0	18L	148.5	1.0A	0.7A	0.6A	0.5A	0.4A	0.3A	24L	188.8	1.0A	0.9A	0.8A	0.7A	0.6A	0.5A	30L	248.6	2.1A	1.3A	1.0A	0.8A	0.7A	0.6A	36L	317.9	2.0A	1.5A	1.3A	1.0A	0.8A	0.7A	42L	384.4	2.0A	1.5A	1.3A	1.0A	0.8A	0.7A
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PHOTOMETRIC PLAN

QT 4448 ADDITION SUBDIVISION

LOT 1

PROJECT NO.:89-44



www.cruxsolutions.com

**PRELIMINARY PLAN
QT 4448 ADDITION SUBDIVISION LOT 1
QuickTrip No 4448**

OLA ROAD (IL 14) & DIEHL ROAD
RORA, DUPAGE COUNTY, IL 60502

PHOTOMETRIC PLA
QT 4448 ADDITION SUBDIVISION
LOT 1

This technical drawing provides a detailed photometric analysis for the Mirada Large Outdoor LED Area Light (MRL) across four models: MRL-LED-40L-SIL-FTA-L, MRL-LED-65L-SIL-40-70CRI, MRL-LED-65L-SIL-2-40-70CRI, and MRL-LED-65L-SIL-FT-40-70CRI. The drawing includes photometric data tables, polar and isofootcandle plots, and various accessories like mounting brackets and poles.

MRL-LED-40L-SIL-FTA-L Photometric Data:

Type	4000K	5000K	6000K
Luminous Flux (lm)	40,000	40,000	40,000
Efficiency (lm/W)	115	115	115
Color Temperature (K)	4000	5000	6000
Driver Rating (W)	40W	40W	40W
Power Factor	>0.90	>0.90	>0.90
PF Rating	PF > 0.90	PF > 0.90	PF > 0.90
Dimming	0-10V Dimming	0-10V Dimming	0-10V Dimming
Wattage Range	286 - 786	286 - 786	286 - 786
Efficacy Range (LPW)	115 - 154	115 - 154	115 - 154
Weight (kg)	60 (27.2)	60 (27.2)	60 (27.2)

MRL-LED-65L-SIL-40-70CRI Photometric Data:

Type	4000K	5000K	6000K
Luminous Flux (lm)	65,000	65,000	65,000
Efficiency (lm/W)	115	115	115
Color Temperature (K)	4000	5000	6000
Driver Rating (W)	65W	65W	65W
Power Factor	>0.90	>0.90	>0.90
PF Rating	PF > 0.90	PF > 0.90	PF > 0.90
Dimming	0-10V Dimming	0-10V Dimming	0-10V Dimming
Wattage Range	286 - 786	286 - 786	286 - 786
Efficacy Range (LPW)	115 - 154	115 - 154	115 - 154
Weight (kg)	60 (27.2)	60 (27.2)	60 (27.2)

MRL-LED-65L-SIL-2-40-70CRI Photometric Data:

Type	4000K	5000K	6000K
Luminous Flux (lm)	65,000	65,000	65,000
Efficiency (lm/W)	115	115	115
Color Temperature (K)	4000	5000	6000
Driver Rating (W)	65W	65W	65W
Power Factor	>0.90	>0.90	>0.90
PF Rating	PF > 0.90	PF > 0.90	PF > 0.90
Dimming	0-10V Dimming	0-10V Dimming	0-10V Dimming
Wattage Range	286 - 786	286 - 786	286 - 786
Efficacy Range (LPW)	115 - 154	115 - 154	115 - 154
Weight (kg)	60 (27.2)	60 (27.2)	60 (27.2)

MRL-LED-65L-SIL-FT-40-70CRI Photometric Data:

Type	4000K	5000K	6000K
Luminous Flux (lm)	65,000	65,000	65,000
Efficiency (lm/W)	115	115	115
Color Temperature (K)	4000	5000	6000
Driver Rating (W)	65W	65W	65W
Power Factor	>0.90	>0.90	>0.90
PF Rating	PF > 0.90	PF > 0.90	PF > 0.90
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Weight (kg)	60 (27.2)	60 (27.2)	60 (27.2)

PHOTOMETRIC PLAN

QT 4448 ADDITION SUBDIVISION

LOT 1

QT 4448 ADDITION SUBDIVISION

PROJECT NO.:89-44

The CRUX logo consists of the word "CRUX" in a bold, black, sans-serif font. The letter "X" is stylized with two diagonal lines that intersect at the top and bottom, forming a cross-like shape.

**PRELIMINARY PLAN
QT 4448 ADDITION SUBDIVISION LOT 1
QuikTrip No. 4448**

EOILA ROAD (IL 14) & DIEHL ROAD
URORA, DUPAGE COUNTY, IL 60502

BRUNA, DURAGL COON I , 1L 00000Z

Current Land Owner:
Yorkville partners II, LLC
1733 park Street, Ste 110
Naperville, IL 60563
Timothy Boos, Manager
tboos@boost.com

Petitioner:
QuikTrip Corporation
50 South Main Street, Ste 200
Naperville, IL 60540
Ali Bukhres
abukhres@quiktrip.com
918-284-9456

PROTOTYPE: P-120
DIVISION: 89
VERSION: 001
DESIGNED BY: DKH
DRAWN BY: CSH
REVIEWED BY: CJC

21/2035

ISSUE DATE: 03

SHEET TITLE:
LIGHTING CUT SHEETS

C165

PHOTOMETRIC PLAN
QT 4448 ADDITION SUBDIVISION
LOT 1

This photometric plan for QT 4448 Addition Subdivision, Lot 1, includes the following sections:

- Mirada Medium Wall Sconce (XWM) Overview:** Catalog, Project, Type, Mirada Medium Wall Sconce (XWM), Outdoor Wall Sconce, IK08, Overview, Quick Links, Ordering Guide, Performance, Photometrics, Dimensions.
- Mirada Wall Sconce (XWM) Ordering Guide:** Type, Mirada Wall Sconce (XWM), Back to Quick Links, XWM 2 LED 03L 30 UE BRZ ALSC, Family, Distribution, LED Technology, Lumens Package, Color Temperature, Voltage, Options.
- Mirada Wall Sconce (XWM) Performance:** Type, Mirada Wall Sconce (XWM), Back to Quick Links, DELIVERED LUMENS*, XWM-2-LED-6L-40, LUMINANCE DATA, ISO FOOTCANDLE PLOT, POLAR CURVE.
- Mirada Wall Sconce (XWM) Photometrics:** Type, Mirada Wall Sconce (XWM), Back to Quick Links, All published luminaire photometric testing performed to IESNA LM-79 standards. ISO footcandle plots below demonstrate the Mirada Wall Sconce (XWM) light patterns only. Not for total fixture output. For complete specifications and IES files, see website.
- QuikTrip No. 4448 Preliminary Plan:** PROJECT NO.:89-4423, CRUX TECHNOLOGY + SECURITY SOLUTION, 800.685.6440, www.crusolutions.com, EOLA ROAD (IL14) & DIEHL ROAD AURORA, DUPAGE COUNTY, IL 60502, PRELIMINARY PLAN LOT 1, QuikTrip No. 4448.
- Product Dimensions:** Mirada Wall Sconce (XWM), PRODUCT DIMENSIONS, LUMINAIRE SHOWN WITH IMSBT, SURFACE WIRING BOX, LUMINAIRE SHOWN WITH PCI, CONTROLS, AIRLINK WIRELESS LIGHTING CONTROLLER, INTEGRAL BLUETOOTH™ MOTION AND PHOTOCELL SENSOR (IMSBT), AIRLINK BLUE.
- Electrical Data:** LUMINAIRE DATA, DELIVERED LUMENS*, RECOMMENDED LUMEN MAINTENANCE (31-6L), RECOMMENDED LUMEN MAINTENANCE (12-2L), ZONAL LUMEN SUMMARY.
- Other:** Current Land Owner, Petitioner, PROTOTYPE: P-120, DIVISION: 89, VERSION: 001, DESIGNED BY: DHK, DRAWN BY: CSH, REVIEWED BY: CJC, SHEET TITLE: LIGHTING CUT SHEETS, SHEET NUMBER: C165.