

EVOLVE

CUSTOMER NAME
PROJECT NAME
DATE TYPE
CATALOG NUMBER

EACL® Series

LED Area Light/Compact Low Wattage

Current's EAL Series of Area Light Luminaires offer a wide range of optical patterns, color temperatures, lumen packages, and mounting configurations to optimize area light applications, as well as provide versatility in lighting design within the same form factor.

Construction

Housing:	Die-cast aluminum housing with integral heat sink for maximum heat transfer
Paint:	Corrosion resistant polyester powder paint, minimum 2.0 mil thickness Standard = Black, Dark Bronze Gray, White (RAL & custom colors available) Optional coastal finish available.
Weight:	15 lbs (6.8 kg) Max depending on configuration

Optical System

Lumens:	2,900 - 23,400
Distribution:	Asymmetric Forward Type IV Asymmetric Wide Type III Asymmetric Narrow/Auto Type II
Efficacy:	123 - 143 LPW
CCT:	3000K, 4000K, 5000K
CRI:	≥70

Electrical

Input Voltage:	120-277V & 347-480V
Input Frequency:	50/60Hz
Power Factor:	> 90% at rated watts
Total Harmonic Distortion:	< 20% at rated watts

Surge Protection*

TYPICAL ICE3 SYSTEM	ENHANCED ICE3 SYSTEM	
☐ 6kV/3kA*	☐ 10kV/5kA*	

*Per ANSI C136.2-2015

Warranty

☐ 5 Year (Standard)

Lumen Maintenance

Projected Lxx per IES TM-21-11 at 25°C

LUMEN CODES	LXX/L090 @ HOURS		
	25,000 HR	50,000 HR	60,000 HR
A2, A3, A4, B2, B3, B4, C2, C3, C4D2, D3, D4, E2, E3, E4, F2, F3, F4	L84	L80	L68
H2,H3, H4	L87	L96	L96

Note: Projected Lxx based on LM80 (> 6,000 hour testing). Accepted Industry tolerances apply to initial lumious flux and lumen maintenance measurements.

Luminaire Ambient Temperature Factor

AMBIENT TEMP (°C)	INITIAL FLUX FACTOR	AMBIENT TEMP (°C)	INITIAL FLUX FACTOR
10	1.02	30	0.99
20	1.01	40	0.98
25	1.00	50	0.97

Ratings

Operating Temperature:	-30°C to 50°C
Vibration:	3G vibration per ANSI C136.31 2018
LM-79:	Testing in accordance with IESNA Standards

Controls

Dimming:	Standard - 0-10V ☐ Optional - DALI (Option U) ☐
Sensors:	Photo Electric Sensors (PE) available LightGrid™ and Daintree Compatible

LISTED

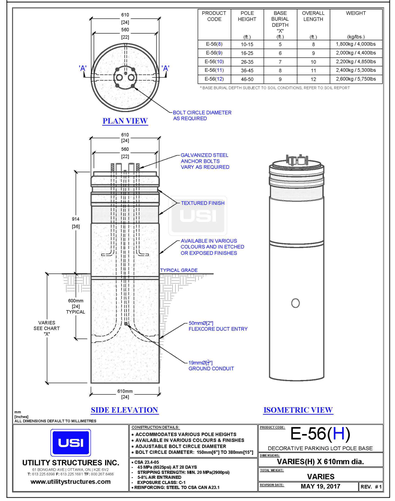
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Current

LED.com

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Rev 04/5/24
EVLPAEF.pcs



PRODUCT CODE	POLE HEIGHT (ft.)	BASE BURIAL DEPTH (ft.)	OVERALL LENGTH (ft.)	WEIGHT (kg/lbs.)
E-56(8)	10-15	5	8	1,800kg / 4,000lbs
E-56(9)	16-25	6	9	2,000kg / 4,400lbs
E-56(10)	26-35	7	10	2,200kg / 4,850lbs
E-56(11)	36-45	8	11	2,400kg / 5,300lbs
E-56(12)	46-50	9	12	2,600kg / 5,700lbs

*BASE BURIAL DEPTH SUBJECT TO SOIL CONDITIONS, REFER TO SOIL REPORT

Unless Noted
ALL DIMENSIONS DEFAULT TO MILLIMETRES

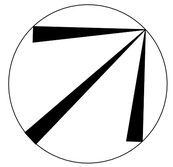
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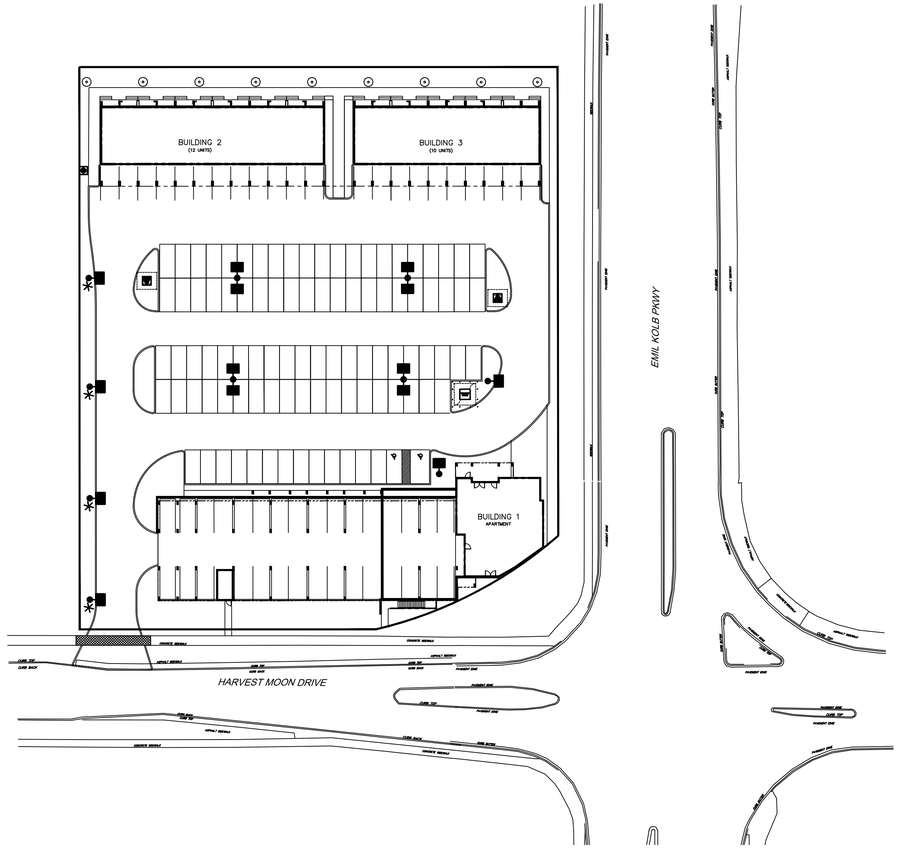
UTILITY STRUCTURES INC.
61 BOWLAND AVE | CITTANIA, ON | L4Z 2V2
T: 613.225.6000 ✠ F: 613.225.1001 ✠ TF: 800.267.5460
www.utilitystructures.com

CONSTRUCTION DETAILS:
- ACCOMMODATES VARIOUS POLE HEIGHTS
- AVAILABLE IN VARIOUS COLOURS & FINISHES
- ACCOMMODATES ELECTRICAL DAMETER
- BOLT CIRCLE DIAMETER: 560mm[22"] TO 585mm[23"]

- CSA S16-09
- STEEL GRADE:Rp0.2 AT 20 DA YS
- STRENGTH STRENGTH: MIN. 20 MPa(3990psi)
- SAFLAW ENTRAINED
- EXPOSURE CLASS: C-1
- REINFORCING: STEEL TO CSA CAN A23.1

PRODUCT CODE: E-56(H)
DECORATIVE PARKING LOT POLE BASE
DIMENSION: VARIES(H) X 610mm dia.
FINISH: VARIES
ISSUED DATE: MAY 19, 2017
REV. # 1





TOWN OF CALEDON
PLANNING
RECEIVED
March 4, 2025

KEY PLAN N.T.S.

LEGEND

- SITE LIGHTING: GE "EVOLVE" EACL AREA, 73W LED, 3000K C/W INDIVIDUAL PHOTO CONTROL MOUNTED ON A BLACK 6.0m SQUARE STEEL POLE, MOUNTED ON USI E56(H) DECORATIVE CONCRETE BASE (OR EQUIV). LUMINAIRE PN (TO BE CONFIRMED): EACL_01_0_D3_AW_7_30_N_A_D1-BLCK, IES FILE EACL01_D3AW740.IES LUMINAIRE MOUNTING HEIGHT NOT TO EXCEED 7.0m (BASE + POLE/LUMINAIRE)
- SITE LIGHTING; AS ABOVE, BUT WITH BACK SHIELD TOWARDS PROPERTY LINE.
- KING 36W LED KLCM BOLLARD DIRECT BURIED, POLISHED ECLIPSE (KLCSQ-CBAC-V-40(SSL)-4001-120:277-3K -S11-DB-PBC) PER CF287P.IES SOLID STATE LIGHTING TYPE V C/W ELECTRONIC BALLAST AND BUTTON PHOTOCONTROL
- STREETLIGHT POWER SUPPLY PEDESTAL TO BE MANUFACTURED BY PEDESTAL SOLUTIONS INC. (PSI), YORK, ONTARIO. CAT.#SLM271-B-40, 200A 2 POLE MAIN BREAKER, 8-40 BRANCH BREAKERS, PROVISION FOR UP TO 12 BRANCH BREAKERS. WEATHER PROOF, TAMPER PROOF CABINET, DARK GREEN, PROVISIONS FOR PADLOCKING, MOUNT ON PRE-CAST CONCRETE FOUNDATION (UTILICON UP2022 BASE)
- PROPOSED GROUND ROD.
- HYDRO ONE 1ø TRANSFORMER.
- HYDRO ONE 3ø TRANSFORMER.
- STREETLIGHT CABLE: 2-#6RWU C/W 1-#6 RWU GND. CABLE INSTALLED IN 50mm PVC TYPE 2 DIRECT BURIED DUCT IN COMPLETE ACCORDANCE WITH E.S.A. STANDARDS & SPECIFICATIONS
- STREETLIGHT PEDESTAL SUPPLY CABLE: 3-#2 Cu. RWU-90 C/W JACKETED GND IN CONTINUOUS 50mm PVC TYPE 2 DUCT IN COMPLETE ACCORDANCE WITH E.S.A. STANDARDS & SPECIFICATIONS.
- (14) MUNICIPAL NUMBER
- (50) x1 DIRECT BURIED CROSSING IN 50mm DUCT, QUANTITY AS SHOWN.

APPROVED FOR CONSTRUCTION
THIS APPROVAL CONSTITUTES A GENERAL REVIEW AND DOES NOT CERTIFY DIMENSIONAL ACCURACY.

THIS APPROVAL IS SUBJECT TO THE FURTHER CERTIFICATION OF THE "AS CONSTRUCTED" WORKS BY A REGISTERED PROFESSIONAL ENGINEER OF THE PROVINCE OF ONTARIO.

DATE :_____ APPROVED BY:_____

NO.	REVISION	DATE	BY
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LICENCED PROFESSIONAL ENGINEER
T. J. G.
T. J. GAYOWSKY
2025.02.26
PROVINCE OF ONTARIO

RTG SYSTEMS INC.
ELECTRICAL CONSULTING ENGINEERS
3518 Mainway Dr., Suite 201
BURLINGTON ON L7M 1A8
E-MAIL: general@rtgsystems.com
Office: (905) 335-4470
Toronto: (905) 827-7887

04176-00

TOWN OF CALEDON

13656 & 13668 EMIL KOLB PARKWAY
ARPEGGIO (BOLTON)
SITE LIGHTING

DWG BY	DATE	CK'D BY	DATE
T.J.G.	2025.02.26		

SCALE	DRAWING NO.	SHEET
1:500 EXCEPT SYMBOLS	SL-1	1 OF 2

SITE PLAN APPLICATION NUMBER: SPA XX-YYYY

EVOLVE



CUSTOMER NAME _____

PROJECT NAME _____

DATE _____ TYPE _____

CATALOG NUMBER _____

EACL® Series

LED Area Light/Compact Low Wattage

Current's EAL Series of Area Light Luminaires offer a wide range of optical patterns, color temperatures, lumen packages, and mounting configurations to optimize area light applications, as well as provide versatility in lighting design within the same form factor.

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Housing:	Die-cast aluminum housing with integral heat sink for maximum heat transfer
Paint:	Corrosion resistant polyester powder paint, minimum 2.0 mil thickness Standard = Black, Dark Bronze Gray, White (RAL & custom colors available) Optional coastal finish available.
Weight:	15 lbs (6.8 kg) Max depending on configuration

Optical System

Lumens:	2,900 - 23,400
Distribution:	Asymmetric Forward Type IV Asymmetric Wide Type III Asymmetric Narrow/Auto Type II
Efficacy:	123 - 143 LPW
CCT:	3000K, 4000K, 5000K
CRI:	≥70

Electrical

Input Voltage:	120-277V & 347-480V
Input Frequency:	50/60Hz
Power Factor:	> 90% at rated watts
Total Harmonic Distortion:	< 20% at rated watts

Surge Protection*

TYPICAL IOD SYSTEM 3.0		ENHANCED IOD SYSTEM 6.0	
☐ 6kV/3kA*		☐ 10kV/5kA*	

*Per ANSI C136.2-2015

Warranty

☐ 5 Year (Standard)

Lumen Maintenance

Projected Lxx per IES TM-21-11 at 25°C

LUMEN CODES	LXX/L090 @ HOURS		
	25,000 HR	50,000 HR	60,000 HR
A2, A3, A4, B2, B3, B4, C2, C3, C4D2, D3, D4, E2, E3, E4, F2, F3, F4	L94	L90	L88
H2,H3, H4	L97	L96	L96

Note: Projected Lxx based on LM80 (> 6,000 hour testing). Accepted Industry tolerances apply to initial lumious flux and lumen maintenance measurements.

Luminaire Ambient Temperature Factor

AMBIENT TEMP. (°C)	INITIAL FLUX FACTOR	AMBIENT TEMP. (°C)	INITIAL FLUX FACTOR
10	1.02	30	0.99
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Operating Temperature:	-30°C to 50°C
Vibration:	3G vibration per ANSI C136.31 2018
LM-79:	Testing in accordance with IESNA Standards

Controls

Dimming:	Standard - 0-10V ☐ Optional - DALI (Option U) ☐
Sensors:	Photo Electric Sensors (PE) available LightGrid™ and Dantzee Compatible

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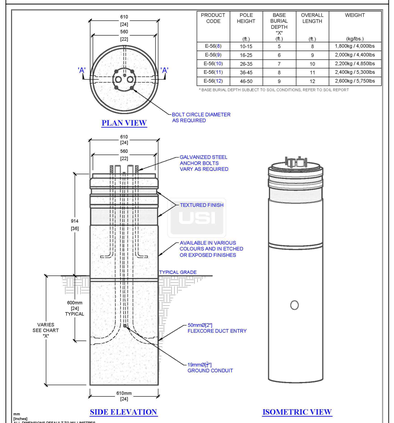
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Rev 04/15/24
ELFAMC.pcs



PRODUCT CODE	POLE HEIGHT (ft.)	BASE BURIAL DEPTH (ft.)	OVERALL LENGTH (ft.)	WEIGHT (kg/lbs.)
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E-56(10)	26-35	7	10	2,200kg / 4,850lbs
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* BASE BURIAL DEPTH SUBJECT TO SOIL CONDITIONS, REFER TO SOIL REPORT

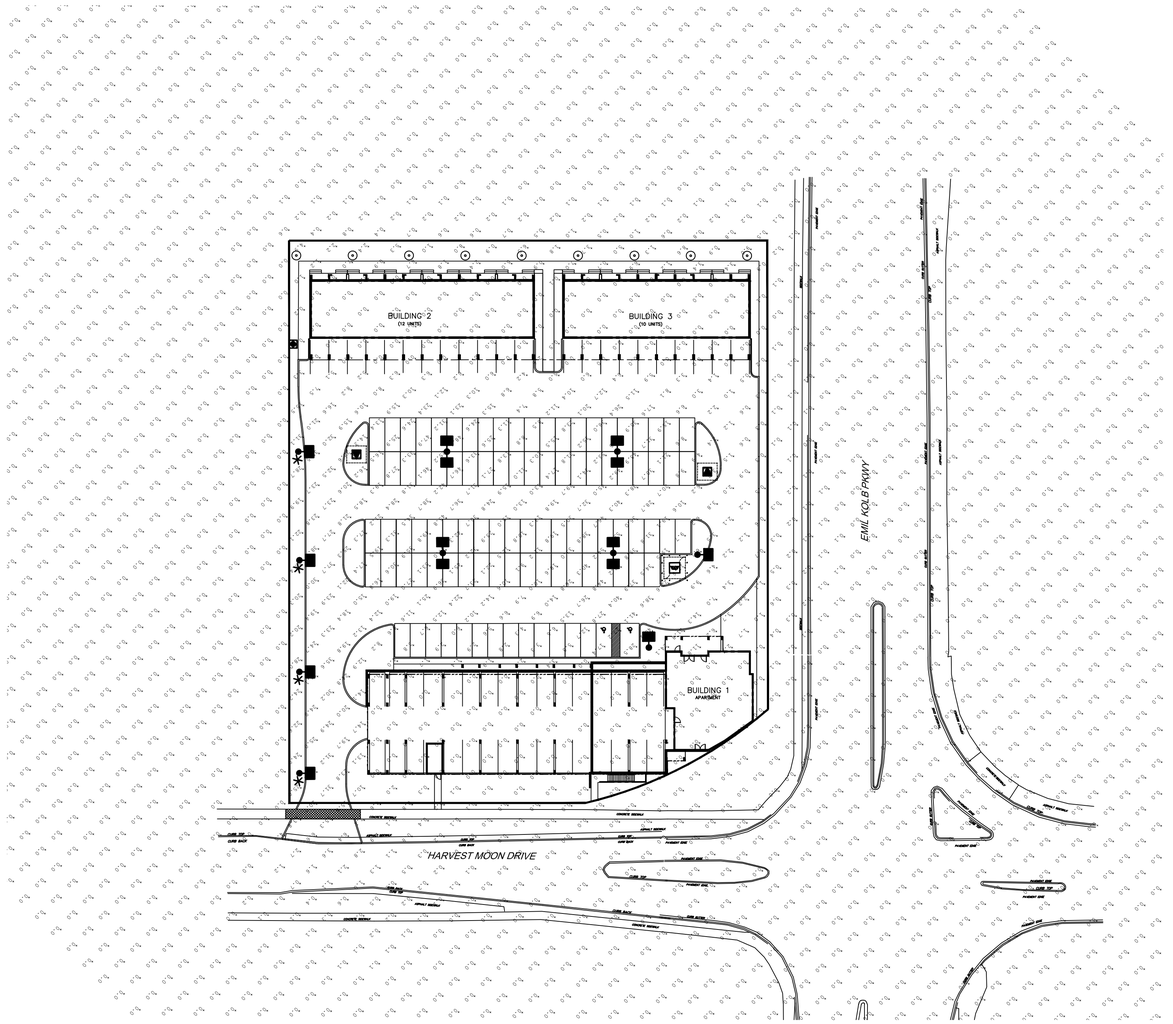
NOTE:
DRAWING
ALL DIMENSIONS DEFAULT TO MILLIMETRES

UTILITY STRUCTURES INC.
91 STEINWAY BLVD., UNIT 1
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www.utilitystructures.com

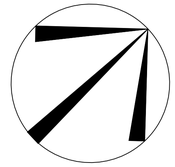
CONSTRUCTION DETAILS:
- ACCOMMODATES VARIOUS POLE HEIGHTS
- AVAILABLE IN VARIOUS COLOURS & FINISHES
- ADJUSTABLE BOLT CIRCLE DIAMETER
- BOLT CIRCLE DIAMETER: 150mm[6"] TO 380mm[15"]

- CSA S16-09
- CONCRETE: 32MPa[5ksi] AT 28 DAYS
- STRIPPING STRENGTH: MIN. 20 MPa[3000psi]
- 5-8% AIR ENTRAINED
- REINFORCING: 20M BARS
- REINFORCING STEEL TO CSA CAN A23.1

DRAWING CODE: E-56(H)
DECORATIVE PARKING LOT POLE BASE
DIMENSIONS: VARIES(H) X 610mm dia.
COATING MEDIUM: VARIES
DRAWING DATE: MAY 19, 2017 REV.: # 1



PHOTOMETRIC VALUES IN LUX.
TRAVELLED PORTION OF PAVEMENT =17.9 LUX AVG



KEY PLAN N.T.S.

LEGEND

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–	–	–	–

LICENSED PROFESSIONAL ENGINEER
T. J. GAYOWSKY
2025.02.26
PROVINCE OF ONTARIO

RTG SYSTEMS INC.
ELECTRICAL CONSULTING ENGINEERS
3518 Mainway Dr., Suite 201
BURLINGTON ON L7M 1A8
E-MAIL: general@rtgsystems.com
Office: (905) 335-4470
Toronto: (905) 827-7887

04176-00

TOWN OF CALEDON

13656 & 13668 EMIL KOLB PARKWAY
ARPEGGIO (BOLTON)
LIGHT TRESPASS ANALYSIS

DWG BY	DATE	CK'D BY	DATE
T.J.G.	2025.02.26		

SCALE	DRAWING NO.	SHEET
1:500 EXCEPT SYMBOLS	TRESPASS-1	1 OF 2

SITE PLAN APPLICATION NUMBER: SPA XX-YYYY