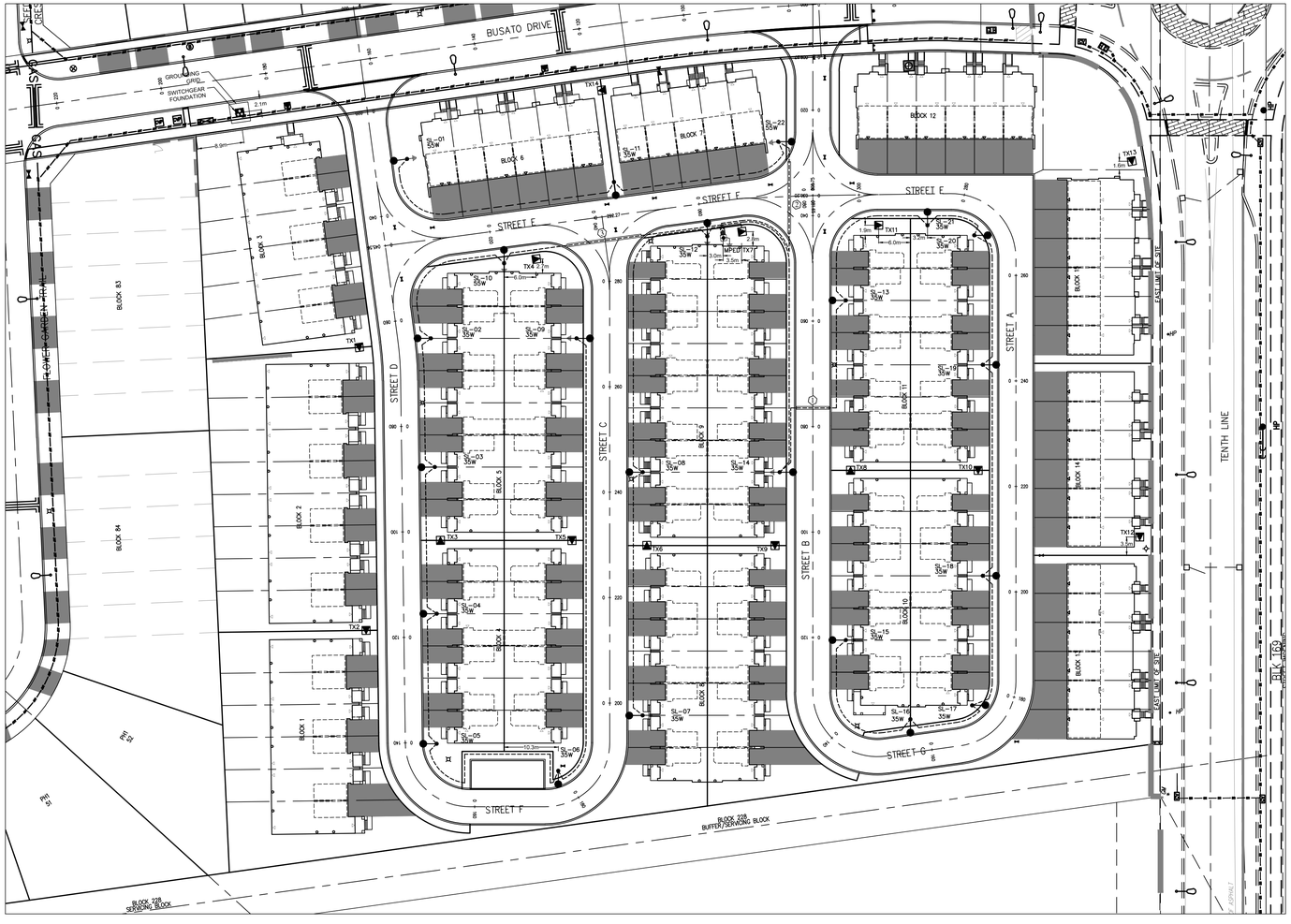
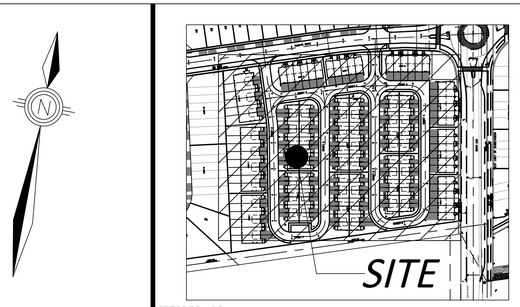


STREET LIGHT SCHEMATIC
N.T.S.



KEY PLAN
N.T.S.

LEGEND:

- PROPERTY BOUNDARY
- TX1 — PROPOSED TRANSFORMER
- PROPOSED LED PENDANT STYLE LUMINAIRE MOUNTED ON 9.1m CONCRETE POLE C/W 1.8m DECORATIVE ARM
  POLE-CAT NO: E-300-APO-G-S90-S/T-FC
  (MOUNTING HEIGHT = 7.6m)
  ARM-CAT NO: KA170-A-S-1-6-BK
  (ARM LENGTH = 1.8m)
  LUMINAIRE: LED PENDANT STYLE LUMINAIRE BY SIGNIFY
- SL-11 35W/55W
  35W:
  CAT NO: L40U-STM-35W32LED3K-G3-C-LE2-120-DMG-RC-BKTX
  IES FILE: L40U-STM-35W32LED3K-G3-C-LE2.IES PHOTOMETRIC FILE WITH A 0.82 LLF
  ROADS: STREET A, STREET B, STREET C, STREET D, STREET E, STREET F, STREET G
  QUANTITY: 19

  55W:
  CAT NO: L40U-STM-55W32LED3K-G3-C-LE2-120-DMG-RC-BKTX
  IES FILE: L40U-STM-55W32LED3K-G3-C-LE2.IES PHOTOMETRIC FILE WITH A 0.82 LLF
  ROAD: STREET B, STREET D, STREET E
  QUANTITY: 03
- +3.4 — PHOTOMETRIC CALCULATION NODE
- PEDESTAL FEED CABLE: 3/0 TRIPLEX AL COMPT 600V XLPEI PVCJ SECONDARY CABLE IN D.B. 50mm PCV TYPE II DUCT
- 2 - #6 Cu. RWU90 AND 1 - #6 Cu. GRN. RWU90 GROUND BLACK (LINE), WHITE (NEUTRAL), AND GREEN (GROUND) INSTALLED IN 50mm PVC TYPE II DUCT
- DIRECT BURIED DUCT ROAD CROSSING
- #2 — 50mm PVC TYPE II DUCT FOR STREET LIGHT, THE NO. DENOTES THE AMOUNT OF DUCT
- MPED — PROPOSED METER PEDESTAL; PEDESTAL SOLUTIONS INC. MODEL# SLM42 WITH 60A MAIN BREAKER AND 40A BRANCH CIRCUITS
- PROPOSED GROUNDING ROD

NOTES:

1. A LIGHT LOSS FACTOR OF 0.82 HAS BEEN USED IN ALL CALCULATIONS.
2. ALL VALUES ARE SHOWN IN LUX
3. CALCULATIONS HAVE BEEN MADE USING TAC GUIDELINES AND IESNA RECOMMENDED PRACTICES.
4. STREET LIGHT TRENCH AND POLE OFFSETS AS PER ROW CROSS-SECTIONS WITHIN THE LIMITS OF THE SUBDIVISION.

REVISIONS

No.	DESCRIPTION	DATE	BY	APPROVED
1.	ISSUED FOR FIRST SUBMISSION	OCT 05/26	S.D.	

Moon-Matz Ltd.
Consulting Engineers
2902 South Sheridan Way
Suite 300
Oakville, On, L6J 7L6
TEL: (905)274-7556

Stouffville
MUNICIPALITY OF WHITCHURCH-STOUFFVILLE
111 SANDIFORD DRIVE, STOUFFVILLE
ON L4A 0Z8, CANADA

7470 - L & M GARDEN-BLOCK 140

STREET LIGHT PLAN & SCHEMATIC

LICENCED PROFESSIONAL ENGINEER
A. BASTA
100056005
PROVINCE OF ONTARIO

DATE: OCTOBER 2026	DESIGNED BY: A.B./S.D.	CHECKED BY: F.S.
SCALE: 1:500	DRAWN BY: A.B./S.D.	CHECKED BY: M.M.

ACCEPTED AS TO FORM IN RELIANCE UPON THE PROFESSIONAL SKILL AND ABILITY OF MOON-MATZ LTD. AS TO DESIGN AND SPECIFICATION.

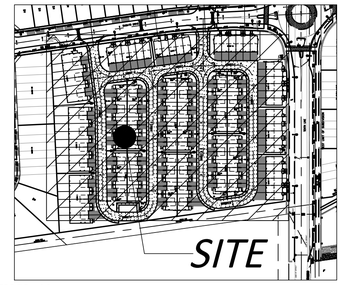
Engineering Services
Town of Clarington

Date

PROJECT No: 7470

DRAWING No: SL-01





KEY PLAN
N.T.S.

LEGEND:

- PROPERTY BOUNDARY
- TX1 — PROPOSED TRANSFORMER
- PROPOSED LED PENDANT STYLE LUMINAIRE MOUNTED ON 9.1m CONCRETE POLE C/W 1.8m DECORATIVE ARM
  POLE-CAT NO: E-300-APO-G-S90-S/F-FC
  (MOUNTING HEIGHT = 7.6m)
  ARM-CAT NO: KA170-A-S-1-6-BK
  (ARM LENGTH = 1.8m)
  LUMINAIRE: LED PENDANT STYLE LUMINAIRE BY SIGNIFY
- SL-11 35W/55W
  35W:
  CAT NO: L40U-STM-35W32LED3K-G3-C-LE2-120-DMG-RC-BKTX
  IES FILE: L40U-STM-35W32LED3K-G3-C-LE2.IES PHOTOMETRIC FILE WITH A 0.82 LLF
  ROADS: STREET A, STREET B, STREET C, STREET D, STREET E, STREET F, STREET G
  QUANTITY: 19

  55W:
  CAT NO: L40U-STM-55W32LED3K-G3-C-LE2-120-DMG-RC-BKTX
  IES FILE: L40U-STM-55W32LED3K-G3-C-LE2.IES PHOTOMETRIC FILE WITH A 0.82 LLF
  ROAD: STREET B, STREET D, STREET E
  QUANTITY: 03
- +3.4 — PHOTOMETRIC CALCULATION NODE
- PEDESTAL FEED CABLE: 3/0 TRIPLEX AL COMPT 600V XLPEI PVCJ SECONDARY CABLE IN D.B. 50mm PCV TYPE II DUCT
- 2 - #6 Cu. RWU90 AND 1 - #6 Cu. GRN. RWU90 GROUND BLACK (LINE), WHITE (NEUTRAL), AND GREEN (GROUND) INSTALLED IN 50mm PVC TYPE II DUCT
- DIRECT BURIED DUCT ROAD CROSSING
- (2) — 50mm PVC TYPE II DUCT FOR STREET LIGHT, THE NO. DENOTES THE AMOUNT OF DUCT
- MPED — PROPOSED METER PEDESTAL; PEDESTAL SOLUTIONS INC. MODEL# SLM42 WITH 60A MAIN BREAKER AND 40A BRANCH CIRCUITS
- PROPOSED GROUNDING ROD

NOTES:

1. A LIGHT LOSS FACTOR OF 0.82 HAS BEEN USED IN ALL CALCULATIONS.
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4. STREET LIGHT TRENCH AND POLE OFFSETS AS PER ROW CROSS-SECTIONS WITHIN THE LIMITS OF THE SUBDIVISION.

REVISIONS

No.	DESCRIPTION	DATE	BY	APPROVED
1.	ISSUED FOR FIRST SUBMISSION	OCT 05/26	S.D.	

Moon-Matz Ltd.
Consulting Engineers
2902 South Sheridan Way
Suite 300
Oakville, On, L6J 7L6
TEL: (905)274-7556

Stouffville
MUNICIPALITY OF WHITCHURCH-STOUFFVILLE
111 SANDIFORD DRIVE, STOUFFVILLE
ON L4A 0Z8, CANADA

7470 - L & M
GARDEN-BLOCK 140

PHOTOMETRIC ANALYSIS

LICENCED PROFESSIONAL ENGINEER
M. BASTA
100155005
PROVINCE OF ONTARIO

DATE: OCTOBER 2026	DESIGNED BY: A.B./S.D.	CHECKED BY: F.S.
SCALE: 1:500	DRAWN BY: A.B./S.D.	CHECKED BY: M.M.

ACCEPTED AS TO FORM IN RELIANCE UPON THE PROFESSIONAL SKILL AND ABILITY OF MOON-MATZ LTD. AS TO DESIGN AND SPECIFICATION.

Engineering Services
Town of Clarington

Date

PROJECT No: 7470

DRAWING No: SL-02

Calculation Summary				
Label	CalcType	Units	Avg	Avg/Min
BEND-STREET-A-BLK-10-NB	Illuminance	Lux	8.39	1.79
BEND-STREET-A-BLK-10-WB	Illuminance	Lux	11.20	1.53
BEND-STREET-B-BLK-10-EB	Illuminance	Lux	4.86	1.31
BEND-STREET-B-BLK-10-NB	Illuminance	Lux	6.01	1.43
BEND-STREET-C-NB	Illuminance	Lux	8.77	1.49
BEND-STREET-C-WB	Illuminance	Lux	10.38	1.62
BEND-STREET-D-EB	Illuminance	Lux	6.36	3.35
BEND-STREET-D-NB	Illuminance	Lux	7.18	2.99
BEND-STREET-E-A	Illuminance	Lux	9.59	2.00
INTER-STREET-B-E	Illuminance	Lux	9.52	2.27
INTER-STREET-C-E	Illuminance	Lux	10.93	2.60
INTER-STREET-D-E	Illuminance	Lux	8.26	1.76
STREET-A-NB	Illuminance	Lux	6.71	2.24
STREET-A-SB	Illuminance	Lux	9.05	2.66
STREET-B-BLK-12-NB	Illuminance	Lux	9.19	1.48
STREET-B-BLK-12-SB	Illuminance	Lux	11.20	1.78
STREET-B-NB	Illuminance	Lux	8.54	1.71
STREET-B-SB	Illuminance	Lux	7.83	1.57
STREET-C-NB	Illuminance	Lux	7.93	3.45
STREET-C-SB	Illuminance	Lux	7.19	3.27
STREET-D-BLK-3-NB	Illuminance	Lux	17.48	1.29
STREET-D-BLK-3-SB	Illuminance	Lux	11.00	1.28
STREET-D-NB	Illuminance	Lux	11.23	1.58
STREET-D-SB	Illuminance	Lux	8.58	1.45
STREET-E-BLK-12-EB	Illuminance	Lux	11.08	1.82
STREET-E-BLK-12-WB	Illuminance	Lux	7.93	1.28
STREET-E-BLK-6-EB	Illuminance	Lux	15.53	1.92
STREET-E-BLK-6-WB	Illuminance	Lux	11.97	1.30
STREET-E-BLK-7-EB	Illuminance	Lux	14.32	1.23
STREET-E-BLK-7-WB	Illuminance	Lux	10.46	1.56
STREET-F-BLK-4-EB	Illuminance	Lux	4.63	2.01
STREET-F-BLK-4-WB	Illuminance	Lux	7.31	2.03
STREET-G-BLK-10-EB	Illuminance	Lux	7.73	1.46
STREET-G-BLK-10-WB	Illuminance	Lux	11.33	1.62
SW--STREET-D	Illuminance	Lux	5.02	3.35
SW-STREET-B-BLK-12-E	Illuminance	Lux	4.70	1.52
SW-STREET-B-BLK-12-W	Illuminance	Lux	8.43	2.81
SW-STREET-B-E	Illuminance	Lux	5.37	1.79
SW-STREET-C-E	Illuminance	Lux	5.11	5.68
SW-STREET-F-A	Illuminance	Lux	8.04	2.98

Calculation Summary (Vertical Illuminance)			
Label	CalcType	Units	Avg
SW-STREET-D	Illuminance	Lux	2.75
SW-STREET-B-BLK-12-E	Illuminance	Lux	3.57
SW-STREET-B-BLK-12-W	Illuminance	Lux	7.10
SW-STREET-B-E	Illuminance	Lux	2.87
SW-STREET-C-E	Illuminance	Lux	2.77
SW-STREET-F-A	Illuminance	Lux	5.06

DESIGN CRITERIA

DESIGN STANDARD USED: RP-8-22

STREET ILLUMINATION:
CALC. METHOD: **ILLUMINANCE**
LOCATION: **STREET-G-BLK-10-WB, STREET-G-BLK-10-EB, STREET-F-BLK-4-WB, STREET-F-BLK-4-EB, STREET-E-BLK-7-WB, STREET-E-BLK-7-EB, STREET-E-BLK-6-WB, STREET-E-BLK-6-EB, STREET-E-BLK-12-WB, STREET-E-BLK-12-EB, STREET-D-SB, STREET-D-NB, STREET-D-BLK-3-SB, STREET-D-BLK-3-NB, STREET-C-SB, STREET-C-NB, STREET-B-SB, STREET-B-NB, STREET-B-BLK-12-SB, STREET-B-BLK-12-NB, STREET-A-SB, STREET-A-NB, BEND-STREET-E-A, BEND-STREET-D-NB, BEND-STREET-D-EB, BEND-STREET-C-WB, BEND-STREET-C-NB, BEND-STREET-B-BLK-10-NB, BEND-STREET-B-BLK-10-EB, BEND-STREET-A-BLK-10-WB, BEND-STREET-A-BLK-10-NB**

ROAD AND PEDESTRIAN CONFLICT AREA		MIN. AVG. VALUES	UNIFORMITY RATIO E_{AVG}/E_{MIN}
ROAD	PED. CON.	PAVEMENT TYPE: **R3**	
LOCAL	**LOW**	LUX: **4.5**	**6.0**

INTERSECTION ILLUMINATION:
CALC. METHOD: **ILLUMINANCE**
LOCATION: **INTER-STREET-B-E, INTER-STREET-C-E, INTER-STREET-D-E**

FUNCTIONAL CLASSIFICATION	MIN. AVG. VALUES	UNIFORMITY RATIO Eavg/ Emin
	PED. CONFLICT: **LOW**	
LOCAL/LOCAL	**8.0** LUX	**6.0**

DESIGN CRITERIA FOR PEDESTRIAN ACTIVITY AREA LIGHTING:
CALC. METHOD: **ILLUMINANCE**
LOCATION: **SW--STREET-D, SW-STREET-B-BLK-12-E, SW-STREET-B-BLK-12-W, SW-STREET-B-E, SW-STREET-C-E, SW-STREET-F-A**

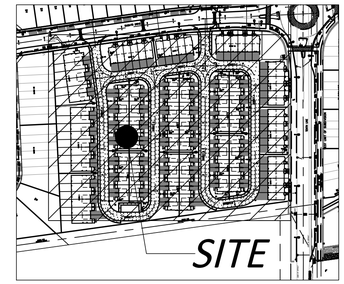
PEDESTRIAN ACTIVITY CLASSIFICATION	AVERAGE ILLUMINANCE E_{AVG} (lux/fc)	AVERAGE UNIFORMITY RATIO E_{AVG}/E_{MIN}
LOW	**2.0** lux	**10.0**

DESIGN CRITERIA

DESIGN STANDARD USED: RP-8-22, TOWN OF WHITBY

DESIGN CRITERIA FOR PEDESTRIAN ACTIVITY AREA LIGHTING: VERTICAL ILLUMINANCE
CALC. METHOD: **ILLUMINANCE**
LOCATION: **SW--STREET-D, SW-STREET-B-BLK-12-E, SW-STREET-B-BLK-12-W, SW-STREET-B-E, SW-STREET-C-E, SW-STREET-F-A**

PEDESTRIAN ACTIVITY CLASSIFICATION	AVERAGE ILLUMINANCE $E_{V,AVG}$ (lux/fc)
LOW	**1.0** lux



KEY PLAN
N.T.S.

LEGEND:

- PROPERTY BOUNDARY
- TA1 — PROPOSED TRANSFORMER
- PROPOSED LED PENDANT STYLE LUMINAIRE MOUNTED ON 9.1m CONCRETE POLE C/W 1.8m DECORATIVE ARM
  POLE-CAT NO: E-300-APO-G-S90-S/T-FC
  (MOUNTING HEIGHT = 7.6m)
  ARM-CAT NO: KA170-A-S-1-6-BK
  (ARM LENGTH = 1.8m)
  LUMINAIRE: LED PENDANT STYLE LUMINAIRE BY SIGNIFY
- SL-11 35W/55W
  35W:
  CAT NO: L40U-STM-35W32LED3K-G3-C-LE2-120-DMG-RC-BKTX
  IES FILE: L40U-STM-35W32LED3K-G3-C-LE2.IES PHOTOMETRIC FILE WITH A 0.82 LLF
  ROADS: STREET A, STREET B, STREET C, STREET D, STREET E, STREET F, STREET G
  QUANTITY: 19

  55W:
  CAT NO: L40U-STM-55W32LED3K-G3-C-LE2-120-DMG-RC-BKTX
  IES FILE: L40U-STM-55W32LED3K-G3-C-LE2.IES PHOTOMETRIC FILE WITH A 0.82 LLF
  ROAD: STREET B, STREET D, STREET E
  QUANTITY: 03
- +3.4 — PHOTOMETRIC CALCULATION NODE
- PEDESTAL FEED CABLE: 3/0 TRIPLEX AL COMPT 600V XLPEI PVCJ SECONDARY CABLE IN D.B. 50mm PCV TYPE II DUCT
- 2 - #6 Cu. RWU90 AND 1 - #6 Cu. GRN. RWU90 GROUND BLACK (LINE), WHITE (NEUTRAL), AND GREEN (GROUND) INSTALLED IN 50mm PVC TYPE II DUCT
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- (2) — 50mm PVC TYPE II DUCT FOR STREET LIGHT, THE NO. DENOTES THE AMOUNT OF DUCT
- MPED — PROPOSED METER PEDESTAL; PEDESTAL SOLUTIONS INC. MODEL# SLM42 WITH 60A MAIN BREAKER AND 40A BRANCH CIRCUITS
- PROPOSED GROUNDING ROD

NOTES:

1. A LIGHT LOSS FACTOR OF 0.82 HAS BEEN USED IN ALL CALCULATIONS.
2. ALL VALUES ARE SHOWN IN LUX
3. CALCULATIONS HAVE BEEN MADE USING TAC GUIDELINES AND IESNA RECOMMENDED PRACTICES.
4. STREET LIGHT TRENCH AND POLE OFFSETS AS PER ROW CROSS-SECTIONS WITHIN THE LIMITS OF THE SUBDIVISION.

REVISIONS

No.	DESCRIPTION	DATE	BY	APPROVED
1.	ISSUED FOR FIRST SUBMISSION	OCT 05/26	S.D.	

Moon-Matz Ltd. Consulting Engineers
2902 South Sheridan Way
Suite 300
Oakville, On, L6J 7L6
TEL: (905)274-7556

Stouffville
MUNICIPALITY OF WHITCHURCH-STOUFFVILLE
111 SANDIFORD DRIVE, STOUFFVILLE
ON L4A 0Z8, CANADA

7470 - L & M
GARDEN-BLOCK 140

CALCULATION SUMMARY

LICENCED PROFESSIONAL ENGINEER — 100045004 — M. BATTA — 2026/10/05 — PROVINCE OF ONTARIO

DATE: OCTOBER 2026	DESIGNED BY: A.B./S.D.	CHECKED BY: F.S.
SCALE: N.T.S	DRAWN BY: A.B./S.D.	CHECKED BY: M.M.

ACCEPTED AS TO FORM IN RELIANCE UPON THE PROFESSIONAL SKILL AND ABILITY OF MOON-MATZ LTD. AS TO DESIGN AND SPECIFICATION.

Engineering Services
Town of Clarington

Date

PROJECT No: 7470

DRAWING No: SL-03

LUMEC
by Signify

Urban

L4OU STM

L40 Pendant Luminaire



Lumec **L40U** LED pendant luminaire create a warm and friendly ambiance with its design while at the same time offering high-end technology and photometric performance. Evoking a distinguished touch of yesteryear, the **L40U** LED pendant lantern delivers an encompassing light that is warm and safe. The blend of form and function makes this luminaire an excellent choice for any environment.

Project:
Location:
Cat.No:
Type:
Lamps: Qty:
Notes:

Ordering guide

example: L40U-STM-72W32LED4K-G3-ACDR-C-LE3-320-DMG-SFR-RC-HS-GN8TX

Series	LED module	Gen.	Globe material	Globe finish	Optical system	Voltage	Driver options	Luminaire options	Brackets	Poles / Brackets	Finish
L40U-STM	3000K 35W32LED3K 55W32LED3K 55W48LED3K 72W32LED3K 80W48LED3K 108W48LED3K 4000K 35W32LED4K 55W32LED4K 55W48LED4K 72W32LED4K 80W48LED4K 108W48LED4K	G3 Gen 3	ACDR Acrylic Globe PC Poly-carbonate	C Clear Globe	LE2 Type II (ASYM) LE3 Type III (ASYM) LE4 Type IV (ASYM) LE5[1] Type V (SYM)	120 208 240 277 347 480	AST[1] Pre-set driver for progressive start-up CDMGE25[1] (2) 8 hrs. 25% reduction CDMGE50[1] (2) 8 hrs. 50% reduction CDMGE75[1] (2) 8 hrs. 75% reduction CDMGM25[1] (2) 6 hrs. 25% reduction CDMGM50[1] (2) 6 hrs. 50% reduction CDMGM75[1] (2) 6 hrs. 75% reduction CDMGS25[1] (2) 4 hrs. 25% reduction CDMGS50[1] (2) 4 hrs. 50% reduction CDMGS75[1] (2) 4 hrs. 75% reduction DMG 0-10V CLO[1] Pre-set driver to manage lumen depreciation OTL[1] Pre-set driver to signal end of life of the lamp SRD[1] Sensor ready driver (standard configuration) SRD1[1] Sensor ready driver (alternate configuration)	CHM Etched Glass Chimney HS House Side Shield RC[2][3] Receptacle 3-pins PH8[1] Photoelectric cell PH9[1] Shorting Cap PHXL[1] Photoelectric cell, extended life RCD7[4] Receptacle 7-pin SP2 20kV/20kA surge protector TN2.875C 2 7/8" dia. Tenon adaptor TN3 3" dia. Tenon adaptor TN3.5 3 1/2" dia. Tenon adaptor	S25AU5 S25AU6 1A 2	Consult with signify.com/outdoorluminaires for details and the complete line of Signify poles and brackets.	Textured BE2TX Midnight Blue BE6TX Ocean Blue BE8TX Royal Blue BG2TX Sandstone BK7TX Black BR7TX Bronze GN4TX Blue Green GN6TX Forest Green GN8TX Dark Forest Green GN7X Green GY3TX Medium Grey RD2TX Burgundy RD4TX Scarlet WH7X White Other GR Gray Sandtex NP Natural Aluminum TG Hammertone Gold

1. Not available with HS option.
2. Not available 347-480 volt.
3. Use of photoelectric cell or shorting cap is required to ensure proper illumination.
4. L40U-STM Always ships with an RC Receptacle.
5. Not available with WC option.
6. The RCD7 is located on top of the roof in place of the finial for use with a control node.
Note: If DALI or 5 or 7 pin receptacle is required contact factory.

LUMEC
by Signify

Urban

L4OU STM

L40 Pendant Luminaire



Lumec **L40U** LED pendant luminaire create a warm and friendly ambiance with its design while at the same time offering high-end technology and photometric performance. Evoking a distinguished touch of yesteryear, the **L40U** LED pendant lantern delivers an encompassing light that is warm and safe. The blend of form and function makes this luminaire an excellent choice for any environment.

Project:
Location:
Cat.No:
Type:
Lamps: Qty:
Notes:

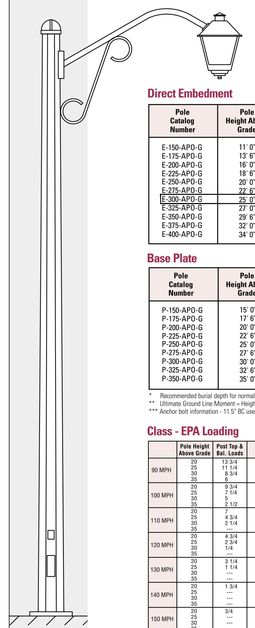
Ordering guide

example: L40U-STM-72W32LED4K-G3-ACDR-C-LE3-320-DMG-SFR-RC-HS-GN8TX

Series	LED module	Gen.	Globe material	Globe finish	Optical system	Voltage	Driver options	Luminaire options	Brackets	Poles / Brackets	Finish
L40U-STM	3000K 35W32LED3K 55W32LED3K 55W48LED3K 72W32LED3K 80W48LED3K 108W48LED3K 4000K 35W32LED4K 55W32LED4K 55W48LED4K 72W32LED4K 80W48LED4K 108W48LED4K	G3 Gen 3	ACDR Acrylic Globe PC Poly-carbonate	C Clear Globe	LE2 Type II (ASYM) LE3 Type III (ASYM) LE4 Type IV (ASYM) LE5[1] Type V (SYM)	120 208 240 277 347 480	AST[1] Pre-set driver for progressive start-up CDMGE25[1] (2) 8 hrs. 25% reduction CDMGE50[1] (2) 8 hrs. 50% reduction CDMGE75[1] (2) 8 hrs. 75% reduction CDMGM25[1] (2) 6 hrs. 25% reduction CDMGM50[1] (2) 6 hrs. 50% reduction CDMGM75[1] (2) 6 hrs. 75% reduction CDMGS25[1] (2) 4 hrs. 25% reduction CDMGS50[1] (2) 4 hrs. 50% reduction CDMGS75[1] (2) 4 hrs. 75% reduction DMG 0-10V CLO[1] Pre-set driver to manage lumen depreciation OTL[1] Pre-set driver to signal end of life of the lamp SRD[1] Sensor ready driver (standard configuration) SRD1[1] Sensor ready driver (alternate configuration)	CHM Etched Glass Chimney HS House Side Shield RC[2][3] Receptacle 3-pins PH8[1] Photoelectric cell PH9[1] Shorting Cap PHXL[1] Photoelectric cell, extended life RCD7[4] Receptacle 7-pin SP2 20kV/20kA surge protector TN2.875C 2 7/8" dia. Tenon adaptor TN3 3" dia. Tenon adaptor TN3.5 3 1/2" dia. Tenon adaptor	S25AU5 S25AU6 1A 2	Consult with signify.com/outdoorluminaires for details and the complete line of Signify poles and brackets.	Textured BE2TX Midnight Blue BE6TX Ocean Blue BE8TX Royal Blue BG2TX Sandstone BK7TX Black BR7TX Bronze GN4TX Blue Green GN6TX Forest Green GN8TX Dark Forest Green GN7X Green GY3TX Medium Grey RD2TX Burgundy RD4TX Scarlet WH7X White Other GR Gray Sandtex NP Natural Aluminum TG Hammertone Gold

1. Not available with HS option.
2. Not available 347-480 volt.
3. Use of photoelectric cell or shorting cap is required to ensure proper illumination.
4. L40U-STM Always ships with an RC Receptacle.
5. Not available with WC option.
6. The RCD7 is located on top of the roof in place of the finial for use with a control node.
Note: If DALI or 5 or 7 pin receptacle is required contact factory.

Octagonal Class A - Light Duty Pole



Octagonal Class A - Light Duty Pole



Physical Details:

- Octagonal symmetrically tapered shaft.
- 5.375" flat to flat pole tip.
- 0.125" per linear ft. taper increase.
- 600 lb. transverse bending strength (2 ft. from tip).
- Mold finish is standard but optional etched or polished finish and Decor colors are available.
- For various luminaire mounting details, please reference arms and accessories.

Direct Embedment

Pole Catalog Number	Pole Height Above Grade	Assumed Embedment Depth*	Overall Pole Length	Pole Butt Flat to Flat (Inches)	Ultimate Ground-Line Moment (ft. lbs.**)	Nominal Weight (lbs.)
E-150-APO-G	11' 0"	4' 0"	15' 0"	7.25	5400	495
E-175-APO-G	13' 6"	4' 0"	17' 6"	7.56	6500	600
E-200-APO-G	16' 0"	4' 0"	20' 0"	7.88	8400	710
E-225-APO-G	18' 6"	4' 0"	22' 6"	8.19	9900	825
E-250-APO-G	20' 0"	5' 0"	25' 0"	8.50	10800	975
E-275-APO-G	22' 6"	5' 0"	27' 6"	8.81	12300	1110
E-300-APO-G	25' 0"	5' 0"	30' 0"	9.13	13800	1255
E-325-APO-G	27' 0"	5' 6"	32' 6"	9.44	15000	1400
E-350-APO-G	29' 6"	5' 6"	35' 0"	9.75	16500	1555
E-375-APO-G	32' 0"	5' 6"	37' 6"	10.06	18000	1725
E-400-APO-G	34' 0"	6' 0"	40' 0"	10.38	19200	1990

Base Plate

Pole Catalog Number	Pole Height Above Grade	Pole Butt Flat to Flat (Inches)	Base Plate Size (Inches)	Bolt Circle*** (Inches)	Ultimate Ground-Line Moment (ft. lbs.**)	Nominal Weight (lbs.)
P-150-APO-G	15' 0"	7.25	11.5 x 11.5	11.5	7800	538
P-175-APO-G	17' 6"	7.56	11.5 x 11.5	11.5	9300	640
P-200-APO-G	20' 0"	7.88	11.5 x 11.5	11.5	10800	750
P-225-APO-G	22' 6"	8.19	11.5 x 11.5	11.5	12300	870
P-250-APO-G	25' 0"	8.50	11.5 x 11.5	11.5	13800	1020
P-275-APO-G	27' 6"	8.81	11.5 x 11.5	11.5	15300	1155
P-300-APO-G	30' 0"	9.15	11.5 x 11.5	11.5	16800	1300
P-325-APO-G	32' 6"	9.44	14.5 x 14.5	17	18300	1480
P-350-APO-G	35' 0"	9.75	14.5 x 14.5	17	19800	1635

* Recommended burial depth for normal soils. Where large imbalanced loads are applied or soil strength is questionable, deeper burial may be necessary.
** Ultimate Ground Line Moment = Height above grade minus 2 Ft x transverse bending load + 5% safety margin.
*** Anchor bolt information - 11.5" BC uses 3/4" x 27" anchor bolts. 17" BC uses 1" x 36" anchor bolts.

Class - EPA Loading

	Pole Height Above Grade	Post Top & Bal. Loads	Imbalanced Loads 4' arm	6' arm	8' arm
90 MPH	20	13 3/4	12	10 3/4	9 1/4
	25	11 1/4	9 3/4	8	7 3/4
	30	8	7 1/2	6	5 3/4
	35	---	---	4 1/2	3 3/4
100 MPH	20	9 3/4	8 1/2	7 1/2	6 1/4
	25	7 1/4	6 1/2	5 3/4	4 3/4
	30	5	4	3 1/2	2 3/4
	35	2 1/2	---	1 3/4	1/2
110 MPH	20	7	5 3/4	5	4
	25	4 3/4	3 3/4	3 1/4	2 1/2
	30	2 1/4	1 1/2	1	1/2
	35	---	---	---	---
120 MPH	20	4 3/4	4	3 1/4	2 1/4
	25	2 3/4	1 3/4	1 3/4	3/4
	30	1/4	---	---	---
	35	---	---	---	---
130 MPH	20	3 1/4	2 1/4	1 3/4	1
	25	1 1/4	1/4	---	---
	30	---	---	---	---
	35	---	---	---	---
140 MPH	20	1 3/4	1 1/4	3/4	---
	25	---	---	---	---
	30	---	---	---	---
	35	---	---	---	---
150 MPH	20	3/4	1/4	---	---
	25	---	---	---	---
	30	---	---	---	---
	35	---	---	---	---

Decor Colors & Finishes

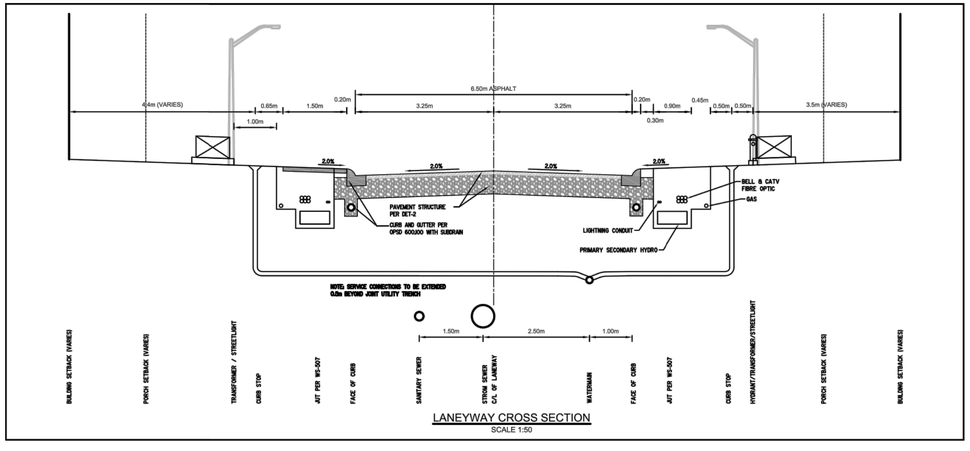
Color / Finish	Eclipse (Black)	Ash White	Pearl Gray	Dusty Rose	Aztec Jade (Green)	Desert Sand (Buff)	Saluki Bronze (Brown)
Etched Finish	E11	E35	E40	E41	E51	E70	E90
Polished	S11	S35	S40	S41	S51	S70	S90

Mold finish, catalog #M00, is standard on all poles. Decor colors and finishes must be specified. A clear acrylic coating is standard on all Decor poles.

◀ When selecting a pole strength class, care must be taken to ensure it will carry the desired EPA loading of arm and luminaire for the wind conditions at your location. If you are unsure of your location's wind condition, please reference Isotach Map in General and Technical section.

StressCrete

LP-11

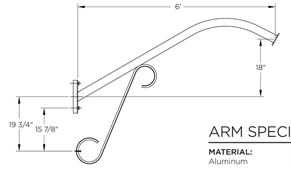


LANEYWAY CROSS SECTION
SCALE 1:50

KA170 // COACH LANTERN ARM

STREET LIGHT ARM

King Luminaire



The King Luminaire K170 Coach Lantern Arm is simple and stylish street lighting arm. This side mount is available in a variety of lengths and single or double arm configurations. The KA170 is perfectly paired with the Coach Lantern Luminaire and is an ideal solution for any street lighting situation.

ARM SPECIFICATIONS

MATERIAL:
Aluminum

MOUNTING TYPE:
Side

ARM QUANTITY:
Single
Double

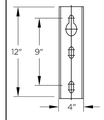
ARM LENGTHS:
4'
5'
6'
8'

FINISH:
Available in textured or smooth.

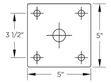
EPA
1.42 - 4.58 sq. ft.

WEIGHT
11 - 40 lbs

MOUNTING DETAILS:



Side Mount Details



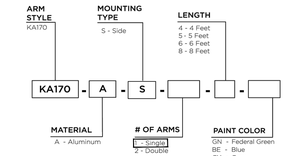
Luminaire Mounting Plate

ARM DIMENSIONS:

Run	Rise
4'	6 7/16"
5'	18"
6'	18"
8'	20 9/16"

LUMINAIRE MOUNTING:
The luminaire mounting plate is at a fixed 60° angle.

HOW TO ORDER

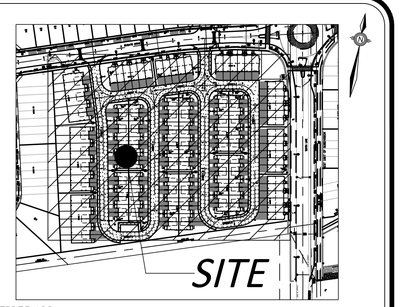


*Additional options available on website. BK will be provided if blank.

EPA & WEIGHT

Catalog Number	Mount Type	# of Arms	L. (ft)	EPA (sq ft)	Wt. (lbs)
KA170-A-S-1-4	Side	1	4	1.42	11
KA170-A-S-1-5	Side	1	5	1.65	12
KA170-A-S-1-6	Side	1	6	1.89	17
KA170-A-S-1-8	Side	1	8	2.29	20
KA170-A-S-2-4	Side	2	4	2.84	22
KA170-A-S-2-5	Side	2	5	3.30	24
KA170-A-S-2-6	Side	2	6	3.78	34
KA170-A-S-2-8	Side	2	8	4.58	40

06-26-2025



KEY PLAN
N.T.S.

LEGEND:

PROPERTY BOUNDARY

1X1 — PROPOSED TRANSFORMER

PROPOSED LED PENDANT STYLE LUMINAIRE MOUNTED ON 9.1m CONCRETE POLE C/W 1.8m DECORATIVE ARM
POLE-CAT NO: E-300-APO-G-S90-S/F-FC
(MOUNTING HEIGHT = 7.6m)
ARM-CAT NO: KA170-A-S-1-6-BK
(ARM LENGTH = 1.8m)
LUMINAIRE: LED PENDANT STYLE LUMINAIRE BY SIGNIFY

SL—11
35W/55W

35W:
CAT NO: L40U-STM-35W32LED3K-G3-C-LE2-120-DMG-RC-BKTX
IES FILE: L40U-STM-35W32LED3K-G3-C-LE2.IES PHOTOMETRIC FILE WITH A 0.82 LLF
ROADS: STREET A, STREET B, STREET C, STREET D, STREET E, STREET F, STREET G
QUANTITY: 19

55W:
CAT NO: L40U-STM-55W32LED3K-G3-C-LE2-120-DMG-RC-BKTX
IES FILE: L40U-STM-55W32LED3K-G3-C-LE2.IES PHOTOMETRIC FILE WITH A 0.82 LLF
ROAD: STREET B, STREET D, STREET E
QUANTITY: 03

+3.4 — PHOTOMETRIC CALCULATION NODE

PEDESTAL FEED CABLE: 3/0 TRIPLEX AL COMPT 600V XLPEI PVCJ SECONDARY CABLE IN D.B. 50mm PCV TYPE II DUCT

2 - #6 Cu. RWU90 AND 1 - #6 Cu. GRN. RWU90 GROUND BLACK (LINE), WHITE (NEUTRAL), AND GREEN (GROUND) INSTALLED IN 50mm PVC TYPE II DUCT

DIRECT BURIED DUCT ROAD CROSSING

(2) — 50mm PVC TYPE II DUCT FOR STREET LIGHT, THE NO. DENOTES THE AMOUNT OF DUCT

METER — PROPOSED METER PEDESTAL; PEDESTAL SOLUTIONS INC. MODEL# SLM42 WITH 60A MAIN BREAKER AND 40A BRANCH CIRCUITS

PROPOSED GROUNDING ROD

NOTES:

1. A LIGHT LOSS FACTOR OF 0.82 HAS BEEN USED IN ALL CALCULATIONS.
2. ALL VALUES ARE SHOWN IN LUX.
3. CALCULATIONS HAVE BEEN MADE USING TAC GUIDELINES AND IESNA RECOMMENDED PRACTICES.
4. STREET LIGHT TRENCH AND POLE OFFSETS AS PER ROW CROSS-SECTIONS WITHIN THE LIMITS OF THE SUBDIVISION.

REVISIONS

No.	DESCRIPTION	DATE	BY	APPROVED
1.	ISSUED FOR FIRST SUBMISSION	OCT 05/26	S.D.	

Moon-Matz Ltd.
Consulting Engineers
2902 South Sheridan Way
Suite 300
Oakville, On, L6J 7L6
TEL: (905)274-7556

Stouffville

MUNICIPALITY OF WHITCHURCH-STOUFFVILLE
111 SANDIFORD DRIVE, STOUFFVILLE
ON L4A 0Z8, CANADA

7470 - L & M GARDEN-BLOCK 140

DETAILS

LICENSED PROFESSIONAL ENGINEER
100048000
BANTA
2026/10/05
PROVINCE OF ONTARIO

DATE:	OCTOBER 2026	DESIGNED BY:	A.B./S.D.
SCALE:	N.T.S	DRAWN BY:	A.B./S.D.
		CHECKED BY:	F.S.
		CHECKED BY:	M.M.

ACCEPTED AS TO FORM IN RELIANCE UPON THE PROFESSIONAL SKILL AND ABILITY OF MOON-MATZ LTD. AS TO DESIGN AND SPECIFICATION.

Engineering Services
Town of Clarington

Date

PROJECT No: 7470

DRAWING No: SL-04