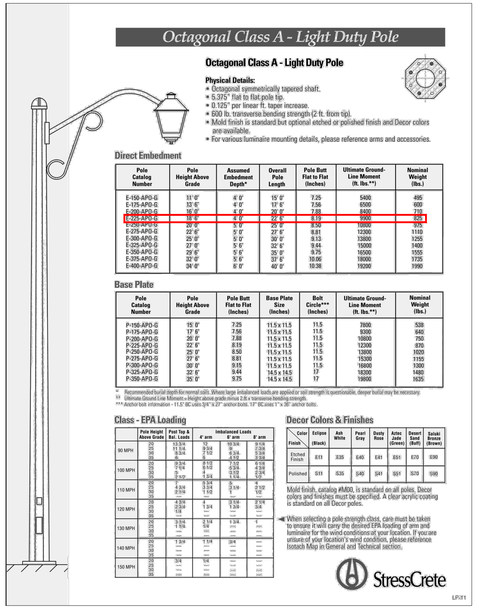
PHOTOMETRIC RESULTS - HAYLOCK BLOCK 141									
STREET NAME	ROAD TYPE	LOCATION ID	CALCULATION	CLASSIFICATION	PEDESTRIAN	AVERAGE	MAX/MIN	AVG/MIN	MINIMUM
QUIBELL LANE	ROADWAY	A	ILLUMINANCE	LOCAL	LOW	7.35 (4.5)	8.95 (10.0)	3.34 (6.0)	2.20
QUIBELL PARKING	ROADWAY	B	ILLUMINANCE	LOCAL	LOW	8.85	5.93 (15.0)	2.95	3.00 (2.0)



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	13' 0"	4' 0"	15' 0"	7.25	5400	495
E-175-APO-G	13' 0"	4' 0"	17' 0"	7.56	6500	600
E-200-APO-G	16' 0"	4' 0"	20' 0"	7.88	8500	710
E-225-APO-G	18' 0"	4' 0"	22' 0"	8.19	9900	825
E-250-APO-G	20' 0"	5' 0"	25' 0"	8.50	10800	905
E-275-APO-G	22' 0"	5' 0"	27' 0"	8.81	12300	1110
E-300-APO-G	25' 0"	5' 0"	30' 0"	8.13	13800	1255
E-325-APO-G	27' 0"	5' 6"	32' 6"	9.44	15000	1400
E-350-APO-G	29' 0"	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	1900

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	7000	528
P-175-APO-G	17' 0"	7.56	11.5 x 11.5	11.5	8300	640
P-200-APO-G	20' 0"	7.88	11.5 x 11.5	11.5	10000	750
P-225-APO-G	22' 0"	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' 0"	8.81	11.5 x 11.5	11.5	15200	1155
P-300-APO-G	30' 0"	9.15	11.5 x 11.5	11.5	16800	1300
P-325-APO-G	32' 0"	9.44	14.5 x 14.5	17	18200	1480
P-350-APO-G	35' 0"	9.75	14.5 x 14.5	17	19800	1625

* 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 strength.
*** Anchor bolt information - 11.5" BC uses (8) 1" x 37" anchor bolts. 17" BC uses 1" x 36" anchor bolts.

Class - EPA Loading

	Pole Height Above Grade	Post Top & Ext. Loads	Unbalanced Loads 4" arm	8" arm	12" arm
90 MPH	20	41.5 lbs	15	10.5 lb	8 lb
	25	41.5 lbs	2 1/2	2 1/2	2 1/2
	30	8 lbs	3	4 1/2	3 3/8
	35	8 lbs	4	4 1/2	3 3/8
100 MPH	20	7 1/4	8 1/2	4 1/2	4 1/8
	25	7 1/4	8 1/2	4 1/2	4 1/8
	30	9	4	4 1/2	3 3/8
	35	9	4 3/4	4 1/2	3 3/8
110 MPH	20	4 3/4	5 3/4	3	2 1/8
	25	4 3/4	5 3/4	3	2 1/8
	30	6 1/4	7	4	2 7/8
	35	6 1/4	7	4	2 7/8
120 MPH	20	4 3/4	6	3 1/4	2 1/8
	25	4 3/4	6	3 1/4	2 1/8
	30	6 1/4	7	4	2 7/8
	35	6 1/4	7	4	2 7/8
130 MPH	20	3 1/2	5 1/4	3 1/4	—
	25	3 1/2	5 1/4	3 1/4	—
	30	—	—	—	—
	35	—	—	—	—
140 MPH	20	3 1/2	5 1/4	3 1/4	—
	25	3 1/2	—	—	—
	30	—	—	—	—
	35	—	—	—	—
150 MPH	20	3 1/2	5 1/4	3 1/4	—
	25	—	—	—	—
	30	—	—	—	—
	35	—	—	—	—

Decor Colors & Finishes

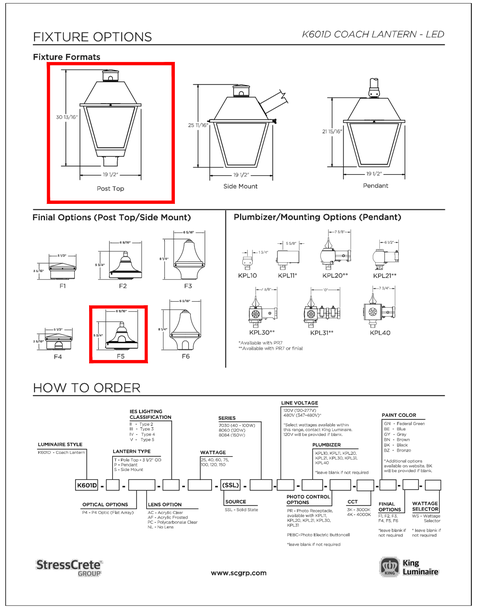
Color Finish	Eclipse (Black)	Ash White	Pearl Grey	Dusty Rose	Aztec Jade (Green)	Desert Sand (Buff)	Sahara Bronze (Brown)
Etched Finish	E13	E35	E40	E81	E61	E70	E90
Polished	S13	S35	S40	S81	S61	S70	S90

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



FIXTURE OPTIONS — *K601D COACH LANTERN - LED*

Fixture Formats

Post Top — Side Mount — Pendant

Finial Options (Post Top/Side Mount)

F1 F2 F3 F4 F5 F6

Plumbizer/Mounting Options (Pendant)

KPL10 KPLT1* KPL20** KPL21** KPL30** KPL31** KPL40

*Available with VHT
**Available with PRT or finial

HOW TO ORDER

LUMINAIRE STYLE: K601D = Coach Lantern

IES LIGHTING CLASSIFICATION: II = Type 2, III = Type 3, IV = Type 4, V = Type 5

LANTERN TYPE: T = Pole Top • 3 1/2" OD, P = Pendant, S = Side Mount

WATTAGE: 25, 40, 60, 75, 100, 120, 150

SERIES: P(30) (4K) - 4(5W), M(60 (120V), M(84 (120V))

SOURCE: SSL = Solid State

LINE VOLTAGE: 120V (120VAC), 480V (347-480VAC)*

*Select wattages available within this range, contact King Luminaire. 120V will be provided if blank.

PLUMBIZER: KPL10, KPL11, KPL20, KPL21, KPL30, KPL31, KPL40

*Leave blank if not required

PAINT COLOR: FP = Federal Green, BG = Blue, BZ = Bronze, BN = Brown, BK = Black, SV = Bronze

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

OPTICAL OPTIONS: P4 = P4 Optics (if Not Asked)

LENS OPTION: AC = Acrylic Clear, PC = Polycarbonate, PCC = Polycarbonate Clear, NL = No Lens

PHOTO CONTROL OPTIONS: NA = Photo Receptacle available with KPL1, KPL20, KPL21, KPL30, KPL31

PBSC=Photo Electric Button cell

*Leave blank if not required

CCT: 3K = 3000K, 4K = 4000K

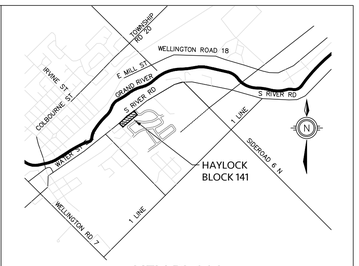
FINIAL OPTIONS: F1, F2, F3, F4, F5, F6

*leave blank if not required

WATTAGE SELECTOR: WS = Wattage Selector

* leave blank if not required

StressCrete GROUP — www.scgrp.com — King Luminaire



KEY PLAN (N.T.S.)

LEGEND (N.T.S.)

KING COACH
K601D-T-P4NL-III-25(SSL)-7030-120:277-3K-F5-PR7
POST TOP LUMINAIRE ON E225-AP0-G-S11

LUMINAIRE ISOLINES

NOTES

1. STREET LIGHT PHOTOMETRIC ANALYSIS COMPLETED IN AGI32 IS IN ACCORDANCE WITH IES RP-8-18, PART 2 - DESIGN, CHAPTER 11: STREET LIGHTING AND CHAPTER 12: INTERSECTIONS, ROUNDABOUTS AND CROSSWALKS, AND IN PARTICULAR TABLES 11-1, 12-1, AND 12-4.
2. THE FOLLOWING STREET LIGHT LUMINAIRE IES FILES WERE USED IN THE AGi32 PHOTOMETRIC ANALYSIS:
   2.1. 601DSP4NL302540HH-G02132.IES
3. THE ILLUMINANCE CALCULATION METHOD WAS USED AS THE DEVELOPMENTS CONSISTS OF CURVILINEAR ROAD SECTIONS AND NOTE MORE THAN TEN (10) CONSECUTIVELY INSTALLED LUMINAIRES ON STRAIGHT/LEVEL ROAD SECTIONS. THE DEVELOPMENT DOES NOT CONTAIN PEDESTRIAN WALKWAYS OR BIKEWAYS.
4. GRID POINT VALUES ARE MEASURED IN LUX AND COLOURED AS FOLOWS: BLUE FOR ROADWAYS AND GREEN FOR PARKING.
5. LUMINAIRE ISOLINES ARE MEASURED IN LUX AND COLOURED AS FOLLOWS: CYAN IS 10 LUX, GREEN IS 5 LUX, BLUE IS 2 LUX, AND BLACK IS 1 LUX.
6. STREET LIGHT PHOTOMETRIC ANALYSIS RESULTS ARE IN COMPLIANCE WITH IES RP-8-18 WITH THE FOLLOWING EXCEPTIONS:
   6.1. NONE

ISSUED FOR APPROVAL

L.T.G.ROSS 100202901 PROFESSIONAL ENGINEER 05-JUL-2021 PROVINCE OF ONTARIO

19008-04_r0

REV	DATE	DESCRIPTION	APRV'D
		REVISION HISTORY	

OVER UNDER ENGINEERING SERVICES LTD.

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HAYLOCK FARM LIMITED
HAYLOCK SUBDIVISION BLOCK 141
TOWNSHIP OF CENTRE WELLINGTON
ELORA, ON

HAYLOCK SUBDIVISION BLOCK 141
STREET LIGHTING PHOTOMETRIC ANALYSIS
CALCULATION GRID

DESIGN CAD: T.ROSS	OUES PROJECT NO.: 19008-04
CHECKED: M.B.MEHAGAN	HYDRO ONE JOB NO.: -
APPROVED: T.ROSS	MTE FILE NO.: 38569-202
SCALE: 1:500	DRAWING NO.: 19008-04-200 REV. NO.: 0

0 25 50 75 100
BAR CHART SCALE (METERS)