

TABLE 1 – LUMINAIRE ARM, POLE, SHOE BASE & ANCHOR BOLT DATA

Designation	Mounting Height (A)	Luminaire Arm(s)		Pole Shaft			Shoe Base		Anchor Bolt			
		Length (B)	Type	Base O.D.	Top O.D.	Min. Wall Thickness	Shaft Length (C)	Square (S)	Bolt Circle (BC)	Diameter	Length	Hook
OP14	-	-	-	6"	3.0"	.0156"	14'-0"	9.75"	9.50"	0.75"10NC	25"	3"
OP301	30	6	-	7"	4.5"	.0156"	27'-6"	10.00"	10.50"	1.00" BNC	36"	4"
OP301	30	8	-	7"	4.5"	.0156"	27'-6"	10.00"	10.50"	1.00" BNC	36"	4"
OP302	30	10/12	-	8"	6.0"	.0156"	28'-8"	11.75"	11.50"	1.00" BNC	36"	4"
OP303	30	8	A	8"	4.5"	.0156"	27'-6"	11.75"	11.50"	1.00" BNC	36"	4"
OP303	30	10	B	8"	6.0"	.0156"	27'-8"	11.75"	11.50"	1.00" BNC	36"	4"
OP401	40	6	-	8"	4.5"	.0219"	37'-6"	11.75"	11.50"	1.00" BNC	36"	4"
OP401	40	8	-	8"	4.5"	.0219"	37'-6"	11.75"	11.50"	1.00" BNC	36"	4"
OP402	40	10	-	8"	6.0"	.0219"	36'-8"	11.75"	11.50"	1.00" BNC	36"	4"
OP402	40	12	-	8"	6.0"	.0219"	36'-8"	11.75"	11.50"	1.00" BNC	36"	4"
OP402	40	15	-	8"	6.0"	.0219"	36'-8"	11.75"	11.50"	1.00" BNC	36"	4"
OP403	40	8	B/12/15	B	10"	6.0"	35'-8"	14.00"	14.50"	1.00" BNC	48"	4"
OP403	40	12	B/12/15	B	10"	6.0"	35'-8"	14.00"	14.50"	1.00" BNC	48"	4"
OP403	40	15	B/12/15	B	10"	6.0"	35'-8"	14.00"	14.50"	1.00" BNC	48"	4"

TYPE	POLE TYPE(S)	MAXIMUM TORQUE RATING (lbs ft)	A	B	C	D	E	F	G
			SHAFT DIA.	SHAFT LENGTH	HELIX DIA.	PLATE SIZE	PLATE THICKNESS	BOLT CIRCLE	S.O.T LOCATION
R	OP14	15,000	6"	48"	12"	10"	0.75"	9.5"	12"
T1	OP301	15,000	6"	60"	12"	12"	1.0"	10.5"	18"
T2	OP302, OP303	15,000	6"	60"	12"	12"	1.0"	11.5"	18"
F1	OP401, OP402	20,000	8"	60"	14"	12"	1.0"	11.5"	18"
F2	OP403	20,000	8"	60"	14"	15"	1.25"	14.5"	18"

MATERIAL DATA

Component	Aluminum Alloy Designation	Specification
Shoe Base	356-16, Cast	ASTM B26 or B108
Bolt Covers	356 or 360, Cast	ASTM B26 or B108
Pole Shaft	6063-16, Extruded	ASTM B221 or B241
Ground Lug	6061-16 or 6063-16, Plate	ASTM B221
Reinforced Handhole Frame	356-16 or 6061-16	ASTM B26, B206 or B221
Handhole Cover	6063-16	ASTM B209, B221 or B241
Luminaire Arm & Tubing Pipes *	6063-16	ASTM B221, B241 or B429
Luminaire Arm Plate	6061-16 or 6063-16 Extruded	ASTM B221
Luminaire Arm Strut* & Arm Connector*	6061-16 or 6063-16 Extruded	ASTM B221, B241 or B429
Pole Cap	356, Cast	ASTM B26 or B108

*TRUSS-TYPE LUMINAIRE ARMS (TYPE B) ONLY.

NOTES 1) POLE SHAFT SHALL HAVE A SATIN GROUND FINISH UNLESS OTHERWISE SPECIFIED BY CITY OF OLATHE STAFF.

2) ALL HARDWARE (BOLTS, NUTS, WASHERS BUT NOT INCLUDING ANCHOR BOLTS) NOT OTHERWISE SPECIFICALLY DESIGNATED IN THE SPECIFICATIONS OR DETAILS SHALL BE ALUMINUM OR 300-SERIES PASSIVATED STAINLESS STEEL.



GARDNER, KANSAS
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DATE

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11/4/22

STREET LIGHT
MATERIAL
DATA
STANDARD
DETAIL
90-5