



PUBLIC WORKS & WATER RESOURCES
CITY OF NEWARK

220 South Main Street · Newark, Delaware 19711
302.366.7000 · Fax 302.366.7160 · www.newarkde.gov

June 16, 2023

CONTRACT NO. 23-07

ADDENDUM #4

1. PROJECT INFORMATION

Name:	City Hall Parking Lot Reconstruction
Owner:	City of Newark, Delaware
Contract Number:	23-07
Date of Addendum:	June 16, 2023
Pre-Bid Meeting Date:	10:00 a.m., Tuesday, May 30, 2023
Questions Deadline:	12:00 p.m., Tuesday, June 15, 2023
Bid Submission Deadline:	2:00 p.m., Tuesday, June 20, 2023

2. NOTICE TO BIDDERS

- A. The Bidder shall acknowledge receipt of this addendum with their submitted proposal. Failure to do so may disqualify the Bidder.
- B. The date for questions and receipt of bids remains unchanged by this addendum.
- C. This addendum shall serve to answer questions submitted to date for this contract.

3. REVISIONS

- A. The specification sheets for all proposed lighting fixtures are attached to this addendum.
- B. The specification sheets for all proposed lighting poles are attached to this addendum.

4. ATTACHMENTS TO THIS ADDENDUM

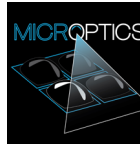
- A. T2-16L-35
- B. T3-16L-35
- C. T3-32L-7
- D. T5-64L-1
- E. RSSP – 12FT
- F. RSSP – 25FT

END OF ADDENDUM #4

Horizon Post Top luminaire is a blend of beautiful luminaire design which is a compliment to commercial or recreational pathways. It is named the Horizon because the luminaire is intended to be a vehicle of which the horizon can be viewed through the inside and around the luminaire without obstruction.

This Dark Sky Friendly Full Cutoff luminaire utilizes silicone Micro Optics to distribute light uniformly as its LEDs are recessed and hidden. Its performance exceeds IES minimum foot candle levels at lower wattage and extends maintenance cycles throughout its lifetime. Horizon PT is available in 2700, 3000K, 3500K, 4000K, 5000K Kelvin temperatures and a range of 18 to 205 watts.

Built to conform to the strictest Made in America standards. Designed, tooled, fabricated and assembled in the USA.



MICRO OPTIC SYSTEM

Our new cell-inclosed, micro optic silicone modules produce high clarity and outstanding performance.

LED WATTAGE CHART

	16L	32L	48L	64L
350 milliamps	18w	-	-	-
530 milliamps	28w	54w	-	-
700 milliamps	36w	71w	104w	137w
1050 milliamps	56w	106w	156w	205w

Project Name:

Type:

Cat#	Light Dist.	# of LEDs	Milliamps	Kelvin	Volts	Mounting	Color	Options
Horizon 1 (HRZ-1)	Type 2 (T2)	16 (16L)	350 (35) ^①	2700K, 70 CRI (27K7)	120-277 (UNV)	Post Top Over 2-3/8" OD (PT238)	Bronze Textured (BRZ)	Dome Top (DT)
	Type 3 (T3)	32 (32L)	530 (53) ^②	2700K, 80 CRI (27K8) ^③	347-480 (HV)	Post Top Over 3" OD (PT3) ^④	White Textured (WHT)	Marine Grade Finish (MGF)
	Type 4 (T4)	48 (48L)	700 (7)	3000K, 70 CRI (30K7)		Post Top Over 3-1/2" OD (PT312)	Smooth White Gloss (SWT)	House Side Shield (HSS)
	Type 5 (T5)	64 (64L)	1050 (1)	3000K, 80 CRI (30K8) ^⑤			Silver (SVR)	Photocell (PC) ^⑥
				3500K, 80 CRI (35K8) ^⑤			Black Textured (BLK)	Nema 7-Pin Receptacle (PET)
				4000K, 70 CRI (40K7)			Smooth Black Gloss (SBK)	Photocell + Receptacle (PCR)
				4000K, 80 CRI (40K8) ^⑤			Graphite Textured (GPH)	Receptacle + Shorting Cap (PER)
				5000K, 70 CRI (50K7)			Grey Textured (GRY)	FSP-211 with Motion Sensor
				5000K, 80 CRI (50K8) ^⑤			Custom (CS)	(FSP-8) ^⑤ 8'+ Below
								(FSP-20) ^⑤ 9'-20' Heights
								(FSP-40) ^⑤ 21'-40' Heights
								Bird Spikes (BS)

Notes:

- ① 16L Only
- ② 16L-32L Only
- ③ Consult Factory for Lead Time. Consult Factory for 90 CRI Requests.
- ④ Standard
- ⑤ Universal Voltage 120-277

PRODUCT SPECIFICATIONS

ELECTRICAL

- 120-277 Volts (UNV) or 347-480 Volts (HV)
- 0-10V dimming driver
- Driver power factor at maximum load is $\geq .95$, THD maximum load is 15%
- LED Drivers Ambient Temp. Min is -40°C and Ambient Temp. Max ranges from 50°C to 55°C and, in some cases, even higher. Consult the factory for revalidation by providing the fixture catalog string before quoting and specifying it.
- All internal wiring UL certified for 600 VAC and 105°C
- CRI 70, 80 or 90
- Color temperatures: 3000K, 3500K, 4000K, 5000K
- Surge Protection: 20KA supplied as standard.

CONSTRUCTION

- Cast Aluminum

OPTIONS

- MARINE GRADE FINISH (MGF) - A multi-step process creating protective finishing coat against harsh environments. Chemically washed in a 5 stage cleaning system. Pre-baked, Powder coated 3-5 mils of Zinc Rich Super Durable Polyester Primer. Oven Baked. Finished Powder Coating of Super Durable Polyester Powder Coat 3-5 mil thickness.

- DOME TOP - Optional decorative dome top.
- HOUSE SIDE SHIELD (HSS) - Designed for full property line cutoff.
- BIRD SPIKES - Offers effective and humane deterrent for larger bird species and provides cost-effective long-term solution to nuisance bird infestations and protects your property.

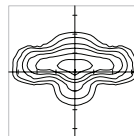
CONTROL OPTIONS

- FSP-211 (FSP-X)—Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
 - All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
 - FSP-20 mounting heights 9-20 feet
 - FSP-40 mounting heights 21-40 feet.
 - Includes 5 dimming event cycles, 0-10V dimming with motion sensing, reprogrammable in the field.
 - FSIR-100 commissioning remote is required to change sensor settings. Please contact factory for ordering.
- Controls Agnostics: Please contact factory for your preferred controls option.
- PHOTOCELL - Button type photocell.
- NEMA 7-PIN RECEPTACLE (PE7)—An ANSI C136.41-2013 receptacle provides electrical and mechanical interconnection between photo control cell and luminaire. Dimming receptacle available two or four dimming contacts supports 0-10 VDC dimming methods or Digital Addressable Lighting Interface (DALI), providing reliable power interconnect.
- PHOTOCELL + RECEPTACLE (PCR)—7-Pin Receptacle and Electronic Twist Lock Photocell for dusk to dawn operation.
- RECEPTACLE + SHORTING CAP (PER)—7-Pin Receptacle and Shorting Cap.

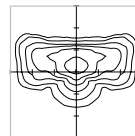
OPTICS

Silicone optics high photo-thermal stability and light output provides higher powered LEDs with minimized lumen depreciation LED life. UV and thermal stability with scratch resistance increases exterior application durability.

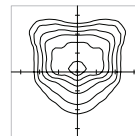
- IES Types



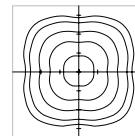
TYPE II (T2)



TYPE III (T3)



TYPE IV (T4)



TYPE V (T5)

FINISH

- 3-5 mils electrostatic powder coat.
- NLS Light's standard high-quality finishes prevent corrosion protects against and extreme environmental conditions

WARRANTY

Five-year limited warranty for drivers and LEDs.

LISTINGS

- Certified to UL 1598
- UL 8750
- CSA C22.2 No. 250.0



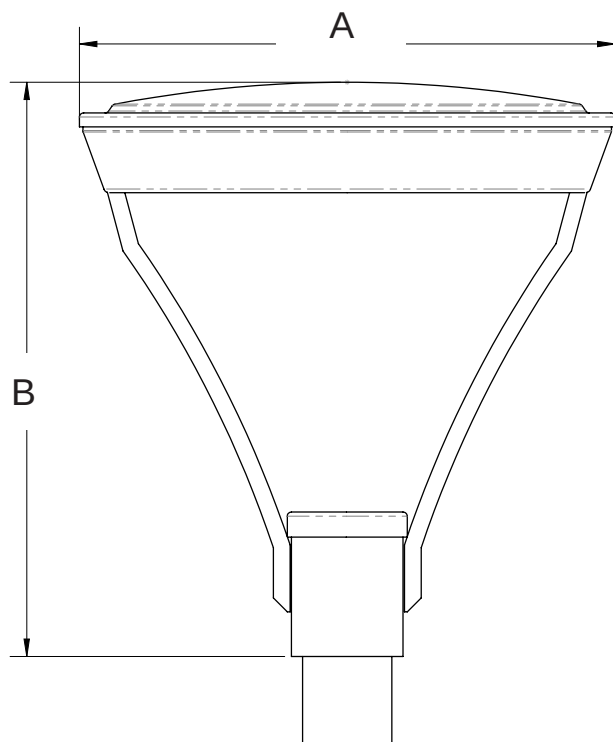
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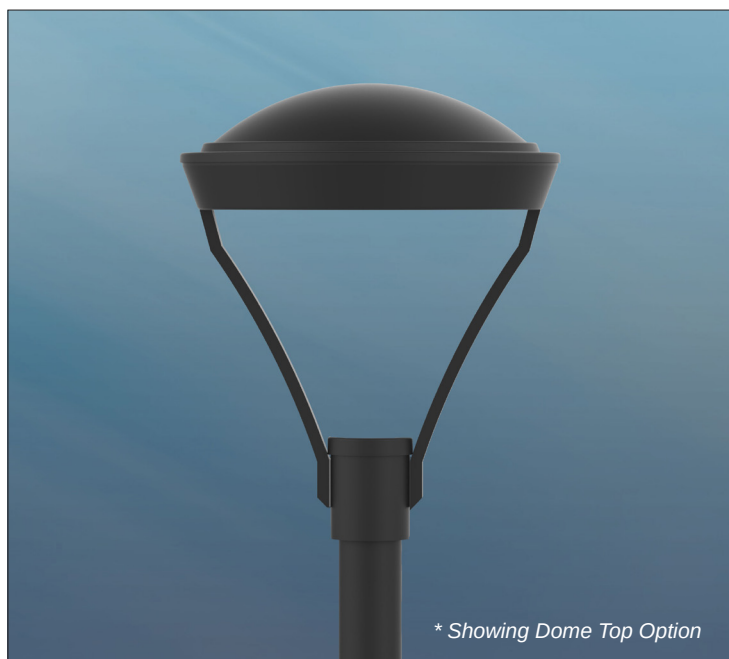
nlsighting.com

PRODUCT SPECIFICATIONS



DIMENSION	HRZ-1
A	24.00 in
B	25.75 in

EPA	STD TOP	DOM TOP
HRZ-1	1.15	1.40



PRODUCT SPECIFICATIONS

LUMEN DATA CHART

PART NUMBER	T2 LUMENS	T2 LM/W	T3 LUMENS	T3 LM/W	T3-HSS LUMENS	T3-HSS LM/W	T4 LUMENS	T4 LM/W	T4-HSS LUMENS	T4-HSS LM/W	T5 LUMENS	T5 LM/W	Watts
HRZ-1-16L-35-30K7	2142	119	2088	116	1044	58	2070	115	1026	57	2160	120	18
HRZ-1-16L-35-40K7	2305	128	2247	125	1116	62	2227	124	1098	61	2322	129	18
HRZ-1-16L-35-50K7	2356	131	2297	128	1188	66	2277	127	1170	65	2376	132	18
HRZ-1-16L-53-30K7	3275	117	3192	114	1624	58	3165	113	1596	57	3304	118	28
HRZ-1-16L-53-40K7	3524	126	3435	123	1736	62	3406	122	1708	61	3556	127	28
HRZ-1-16L-53-50K7	3603	129	3511	125	1848	66	3482	124	1820	65	3640	130	28
HRZ-1-16L-7-30K7	4100	114	4115	111	2088	58	4003	111	2052	57	4176	116	36
HRZ-1-16L-7-40K7	4411	123	4300	119	2232	62	4308	120	2196	61	4500	125	36
HRZ-1-16L-7-50K7	4510	125	4396	122	2376	66	4404	122	2340	65	4608	128	36
HRZ-1-16L-1-30K7	5858	105	5712	102	3248	58	5661	101	3192	57	5880	105	56
HRZ-1-16L-1-40K7	6303	113	6146	110	3472	62	6091	109	3416	61	6328	113	56
HRZ-1-16L-1-50K7	6443	115	6283	112	3696	66	6227	111	3640	65	6496	116	56
HRZ-1-32L-53-30K7	5858	105	5712	102	3248	58	5661	101	3192	57	5880	105	56
HRZ-1-32L-53-40K7	6303	113	6146	110	3472	62	6091	109	3416	61	6328	113	56
HRZ-1-32L-53-50K7	6443	115	6283	112	3696	66	6227	111	3640	65	6496	116	56
HRZ-1-32L-7-30K7	7427	105	7881	111	4118	58	7896	111	4047	57	8236	116	71
HRZ-1-32L-7-40K7	7991	113	8480	119	4402	62	8496	120	4331	61	8875	125	71
HRZ-1-32L-7-50K7	8169	115	8669	122	4686	66	8685	122	4615	65	9088	128	71
HRZ-1-32L-1-30K7	11088	105	10812	102	6148	58	10715	101	6042	57	11130	105	106
HRZ-1-32L-1-40K7	11930	113	11634	110	6572	62	11529	109	6466	61	11978	113	106
HRZ-1-32L-1-50K7	12196	115	11893	112	6996	66	11787	111	6890	65	12296	116	106
HRZ-1-48L-7-30K7	11844	114	11544	111	6032	58	11648	112	5928	57	12068	116	104
HRZ-1-48L-7-40K7	12744	123	12421	119	6448	62	12444	120	6344	61	12985	125	104
HRZ-1-48L-7-50K7	13028	125	12698	122	6864	66	12792	123	6760	65	13275	128	104
HRZ-1-48L-1-30K7	16318	105	15912	102	9048	58	15769	101	8892	57	16455	105	156
HRZ-1-48L-1-40K7	17558	113	17121	110	9672	62	16968	109	9516	61	17705	113	156
HRZ-1-48L-1-50K7	17950	115	17503	112	10296	66	17346	111	10140	65	18100	116	156
HRZ-1-64L-7-30K7	15488	114	15096	111	7888	58	15124	111	7752	57	15781	116	136
HRZ-1-64L-7-40K7	16665	123	16243	119	8432	62	16273	120	8296	61	16981	125	136
HRZ-1-64L-7-50K7	17037	125	16606	122	8976	66	16728	123	8840	65	17359	128	136
HRZ-1-64L-1-30K7	23346	114	22755	111	11890	58	20722	101	11685	57	23780	116	205
HRZ-1-64L-1-40K7	25120	123	24484	119	12710	62	22297	109	12505	61	25625	125	205
HRZ-1-64L-1-50K7	25681	125	25031	122	13530	66	22795	111	13325	65	26240	128	205

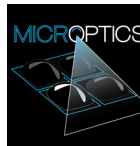
Lumen Maintenance Data

Ambient Temperature	Drive Current	L90 Hours*	L70 Hours**	30,000 Hours*	50,000 Hours*	60,000 Hours*	100,000 Hours**
25°C	Up to 700mA	58,000	173,000	95.7%	91.6%	89.6%	82.1%
	1050mA	38,000	96,000	93.0%	85.4%	81.8%	68.8%
*Reported extrapolations per IESNA TM-21				**Projected extrapolations per IESNA TM-21			

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This Dark Sky Friendly Full Cutoff luminaire utilizes silicone Micro Optics to distribute light uniformly as its LEDs are recessed and hidden. Its performance exceeds IES minimum foot candle levels at lower wattage and extends maintenance cycles throughout its lifetime. Horizon PT is available in 2700, 3000K, 3500K, 4000K, 5000K Kelvin temperatures and a range of 18 to 205 watts.

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Project Name:

Type:

Cat#	Light Dist.	# of LEDs	Milliamps	Kelvin	Volts	Mounting	Color	Options
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	Type 4 (T4)	48 (48L)	700 (7)	3000K, 70 CRI (30K7)		Post Top Over 3-1/2" OD (PT312)	Smooth White Gloss (SWT)	House Side Shield (HSS)
	Type 5 (T5)	64 (64L)	1050 (1)	3000K, 80 CRI (30K8) ^⑤			Silver (SVR)	Photocell (PC) ^⑥
				3500K, 80 CRI (35K8) ^⑤			Black Textured (BLK)	Nema 7-Pin Receptacle (PET)
				4000K, 70 CRI (40K7)			Smooth Black Gloss (SBK)	Photocell + Receptacle (PCR)
				4000K, 80 CRI (40K8) ^⑤			Graphite Textured (GPH)	Receptacle + Shorting Cap (PER)
				5000K, 70 CRI (50K7)			Grey Textured (GRY)	FSP-211 with Motion Sensor
				5000K, 80 CRI (50K8) ^⑤			Custom (CS)	(FSP-8) ^⑤ 8'+ Below
								(FSP-20) ^⑤ 9'-20' Heights
								(FSP-40) ^⑤ 21'-40' Heights
								Bird Spikes (BS)

Notes:

- ① 16L Only
- ② 16L-32L Only
- ③ Consult Factory for Lead Time. Consult Factory for 90 CRI Requests.
- ④ Standard
- ⑤ Universal Voltage 120-277

PRODUCT SPECIFICATIONS

ELECTRICAL

- 120-277 Volts (UNV) or 347-480 Volts (HV)
- 0-10V dimming driver
- Driver power factor at maximum load is $\geq .95$, THD maximum load is 15%
- LED Drivers Ambient Temp. Min is -40°C and Ambient Temp. Max ranges from 50°C to 55°C and, in some cases, even higher. Consult the factory for revalidation by providing the fixture catalog string before quoting and specifying it.
- All internal wiring UL certified for 600 VAC and 105°C
- CRI 70, 80 or 90
- Color temperatures: 3000K, 3500K, 4000K, 5000K
- Surge Protection: 20KA supplied as standard.

CONSTRUCTION

- Cast Aluminum

OPTIONS

- MARINE GRADE FINISH (MGF) - A multi-step process creating protective finishing coat against harsh environments. Chemically washed in a 5 stage cleaning system. Pre-baked, Powder coated 3-5 mils of Zinc Rich Super Durable Polyester Primer. Oven Baked. Finished Powder Coating of Super Durable Polyester Powder Coat 3-5 mil thickness.

- DOME TOP - Optional decorative dome top.
- HOUSE SIDE SHIELD (HSS) - Designed for full property line cutoff.
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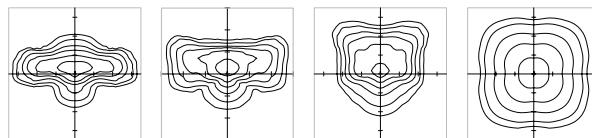
CONTROL OPTIONS

- FSP-211 (FSP-X)—Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
 - All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
 - FSP-20 mounting heights 9-20 feet
 - FSP-40 mounting heights 21-40 feet.
 - Includes 5 dimming event cycles, 0-10V dimming with motion sensing, reprogrammable in the field.
 - FSIR-100 commissioning remote is required to change sensor settings. Please contact factory for ordering.
- Controls Agnostics: Please contact factory for your preferred controls option.
- PHOTOCELL - Button type photocell.
- NEMA 7-PIN RECEPTACLE (PE7)—An ANSI C136.41-2013 receptacle provides electrical and mechanical interconnection between photo control cell and luminaire. Dimming receptacle available two or four dimming contacts supports 0-10 VDC dimming methods or Digital Addressable Lighting Interface (DALI), providing reliable power interconnect.
- PHOTOCELL + RECEPTACLE (PCR)—7-Pin Receptacle and Electronic Twist Lock Photocell for dusk to dawn operation.
- RECEPTACLE + SHORTING CAP (PER)—7-Pin Receptacle and Shorting Cap.

OPTICS

Silicone optics high photo-thermal stability and light output provides higher powered LEDs with minimized lumen depreciation LED life. UV and thermal stability with scratch resistance increases exterior application durability.

- IES Types



TYPE II (T2) TYPE III (T3) TYPE IV (T4) TYPE V (T5)

FINISH

- 3-5 mils electrostatic powder coat.
- NLS Light's standard high-quality finishes prevent corrosion protects against and extreme environmental conditions

WARRANTY

Five-year limited warranty for drivers and LEDs.

LISTINGS

- Certified to UL 1598
- UL 8750
- CSA C22.2 No. 250.0



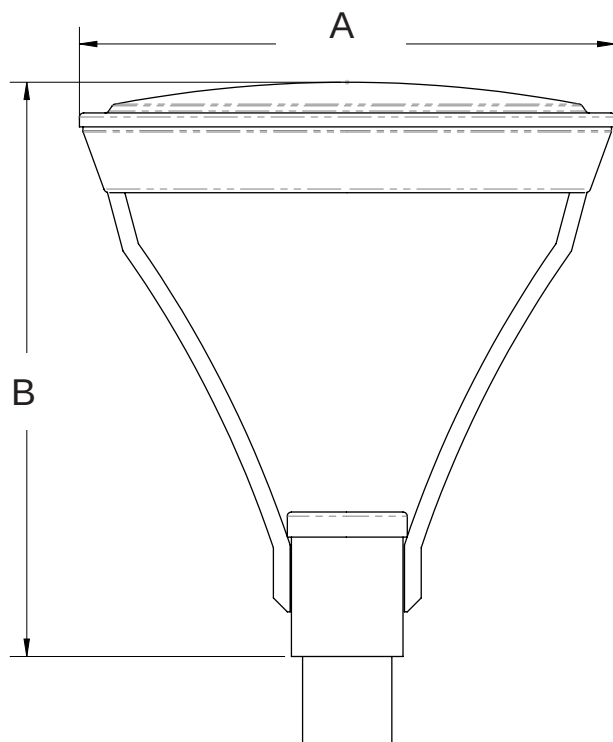
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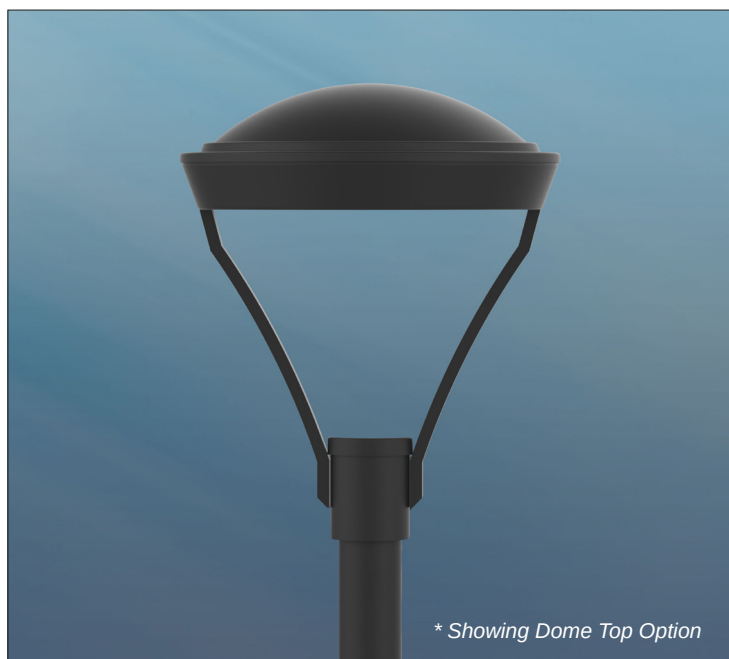
nlsighting.com

PRODUCT SPECIFICATIONS



DIMENSION	HRZ-1
A	24.00 in
B	25.75 in

EPA	STD TOP	DOM TOP
HRZ-1	1.15	1.40



PRODUCT SPECIFICATIONS

LUMEN DATA CHART

PART NUMBER	T2 LUMENS	T2 LM/W	T3 LUMENS	T3 LM/W	T3-HSS LUMENS	T3-HSS LM/W	T4 LUMENS	T4 LM/W	T4-HSS LUMENS	T4-HSS LM/W	T5 LUMENS	T5 LM/W	Watts
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HRZ-1-32L-1-40K7	11930	113	11634	110	6572	62	11529	109	6466	61	11978	113	106
HRZ-1-32L-1-50K7	12196	115	11893	112	6996	66	11787	111	6890	65	12296	116	106
HRZ-1-48L-7-30K7	11844	114	11544	111	6032	58	11648	112	5928	57	12068	116	104
HRZ-1-48L-7-40K7	12744	123	12421	119	6448	62	12444	120	6344	61	12985	125	104
HRZ-1-48L-7-50K7	13028	125	12698	122	6864	66	12792	123	6760	65	13275	128	104
HRZ-1-48L-1-30K7	16318	105	15912	102	9048	58	15769	101	8892	57	16455	105	156
HRZ-1-48L-1-40K7	17558	113	17121	110	9672	62	16968	109	9516	61	17705	113	156
HRZ-1-48L-1-50K7	17950	115	17503	112	10296	66	17346	111	10140	65	18100	116	156
HRZ-1-64L-7-30K7	15488	114	15096	111	7888	58	15124	111	7752	57	15781	116	136
HRZ-1-64L-7-40K7	16665	123	16243	119	8432	62	16273	120	8296	61	16981	125	136
HRZ-1-64L-7-50K7	17037	125	16606	122	8976	66	16728	123	8840	65	17359	128	136
HRZ-1-64L-1-30K7	23346	114	22755	111	11890	58	20722	101	11685	57	23780	116	205
HRZ-1-64L-1-40K7	25120	123	24484	119	12710	62	22297	109	12505	61	25625	125	205
HRZ-1-64L-1-50K7	25681	125	25031	122	13530	66	22795	111	13325	65	26240	128	205

Lumen Maintenance Data

Ambient Temperature	Drive Current	L90 Hours*	L70 Hours**	30,000 Hours*	50,000 Hours*	60,000 Hours*	100,000 Hours**
25°C	Up to 700mA	58,000	173,000	95.7%	91.6%	89.6%	82.1%
	1050mA	38,000	96,000	93.0%	85.4%	81.8%	68.8%
*Reported extrapolations per IESNA TM-21				**Projected extrapolations per IESNA TM-21			



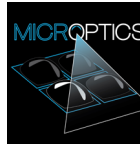
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Horizon Post Top luminaire is a blend of beautiful luminaire design which is a compliment to commercial or recreational pathways. It is named the Horizon because the luminaire is intended to be a vehicle of which the horizon can be viewed through the inside and around the luminaire without obstruction.

This Dark Sky Friendly Full Cutoff luminaire utilizes silicone Micro Optics to distribute light uniformly as its LEDs are recessed and hidden. Its performance exceeds IES minimum foot candle levels at lower wattage and extends maintenance cycles throughout its lifetime. Horizon PT is available in 2700, 3000K, 3500K, 4000K, 5000K Kelvin temperatures and a range of 18 to 205 watts.

Built to conform to the strictest Made in America standards. Designed, tooled, fabricated and assembled in the USA.



MICRO OPTIC SYSTEM

Our new cell-inclosed, micro optic silicone modules produce high clarity and outstanding performance.

LED WATTAGE CHART

	16L	32L	48L	64L
350 milliamps	18w	-	-	-
530 milliamps	28w	54w	-	-
700 milliamps	36w	71w	104w	137w
1050 milliamps	56w	106w	156w	205w

Project Name:

Type:

Cat#	Light Dist.	# of LEDs	Milliamps	Kelvin	Volts	Mounting	Color	Options
Horizon 1 (HRZ-1)	Type 2 (T2)	16 (16L)	350 (35) ^①	2700K, 70 CRI (27K7)	120-277 (UNV)	Post Top Over 2-3/8" OD (PT238)	Bronze Textured (BRZ)	Dome Top (DT)
	Type 3 (T3)	32 (32L)	530 (53) ^②	2700K, 80 CRI (27K8) ^③	347-480 (HV)	Post Top Over 3" OD (PT3) ^④	White Textured (WHT)	Marine Grade Finish (MGF)
	Type 4 (T4)	48 (48L)	700 (7)	3000K, 70 CRI (30K7)		Post Top Over 3-1/2" OD (PT312)	Smooth White Gloss (SWT)	House Side Shield (HSS)
	Type 5 (T5)	64 (64L)	1050 (1)	3000K, 80 CRI (30K8) ^⑤			Silver (SVR)	Photocell (PC) ^⑥
				3500K, 80 CRI (35K8) ^⑤			Black Textured (BLK)	Nema 7-Pin Receptacle (PET)
				4000K, 70 CRI (40K7)			Smooth Black Gloss (SBK)	Photocell + Receptacle (PCR)
				4000K, 80 CRI (40K8) ^⑤			Graphite Textured (GPH)	Receptacle + Shorting Cap (PER)
				5000K, 70 CRI (50K7)			Grey Textured (GRY)	FSP-211 with Motion Sensor
				5000K, 80 CRI (50K8) ^⑤			Custom (CS)	(FSP-8) ^⑤ 8'+ Below
								(FSP-20) ^⑤ 9'-20' Heights
								(FSP-40) ^⑤ 21'-40' Heights
								Bird Spikes (BS)

Notes:

- ① 16L Only
- ② 16L-32L Only
- ③ Consult Factory for Lead Time. Consult Factory for 90 CRI Requests.
- ④ Standard
- ⑤ Universal Voltage 120-277

PRODUCT SPECIFICATIONS

ELECTRICAL

- 120-277 Volts (UNV) or 347-480 Volts (HV)
- 0-10V dimming driver
- Driver power factor at maximum load is $\geq .95$, THD maximum load is 15%
- LED Drivers Ambient Temp. Min is -40°C and Ambient Temp. Max ranges from 50°C to 55°C and, in some cases, even higher. Consult the factory for revalidation by providing the fixture catalog string before quoting and specifying it.
- All internal wiring UL certified for 600 VAC and 105°C
- CRI 70, 80 or 90
- Color temperatures: 3000K, 3500K, 4000K, 5000K
- Surge Protection: 20KA supplied as standard.

CONSTRUCTION

- Cast Aluminum

OPTIONS

- MARINE GRADE FINISH (MGF) - A multi-step process creating protective finishing coat against harsh environments. Chemically washed in a 5 stage cleaning system. Pre-baked, Powder coated 3-5 mils of Zinc Rich Super Durable Polyester Primer. Oven Baked. Finished Powder Coating of Super Durable Polyester Powder Coat 3-5 mil thickness.

- DOME TOP - Optional decorative dome top.
- HOUSE SIDE SHIELD (HSS) - Designed for full property line cutoff.
- BIRD SPIKES - Offers effective and humane deterrent for larger bird species and provides cost-effective long-term solution to nuisance bird infestations and protects your property.

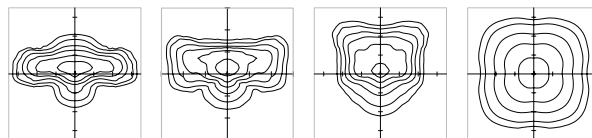
CONTROL OPTIONS

- FSP-211 (FSP-X)—Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
 - All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
 - FSP-20 mounting heights 9-20 feet
 - FSP-40 mounting heights 21-40 feet.
 - Includes 5 dimming event cycles, 0-10V dimming with motion sensing, reprogrammable in the field.
 - FSIR-100 commissioning remote is required to change sensor settings. Please contact factory for ordering.
- Controls Agnostics: Please contact factory for your preferred controls option.
- PHOTOCELL - Button type photocell.
- NEMA 7-PIN RECEPTACLE (PE7)—An ANSI C136.41-2013 receptacle provides electrical and mechanical interconnection between photo control cell and luminaire. Dimming receptacle available two or four dimming contacts supports 0-10 VDC dimming methods or Digital Addressable Lighting Interface (DALI), providing reliable power interconnect.
- PHOTOCELL + RECEPTACLE (PCR)—7-Pin Receptacle and Electronic Twist Lock Photocell for dusk to dawn operation.
- RECEPTACLE + SHORTING CAP (PER)—7-Pin Receptacle and Shorting Cap.

OPTICS

Silicone optics high photo-thermal stability and light output provides higher powered LEDs with minimized lumen depreciation LED life. UV and thermal stability with scratch resistance increases exterior application durability.

- IES Types



TYPE II (T2) TYPE III (T3) TYPE IV (T4) TYPE V (T5)

FINISH

- 3-5 mils electrostatic powder coat.
- NLS Light's standard high-quality finishes prevent corrosion protects against and extreme environmental conditions

WARRANTY

Five-year limited warranty for drivers and LEDs.

LISTINGS

- Certified to UL 1598
- UL 8750
- CSA C22.2 No. 250.0



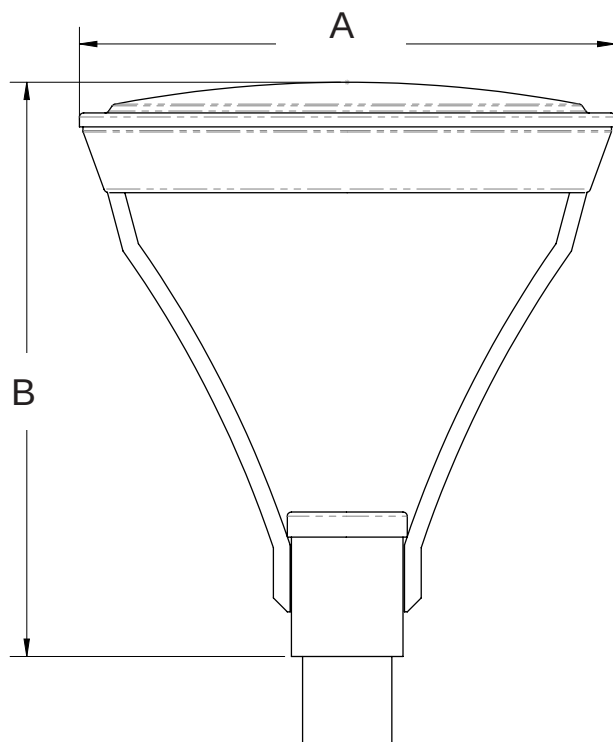
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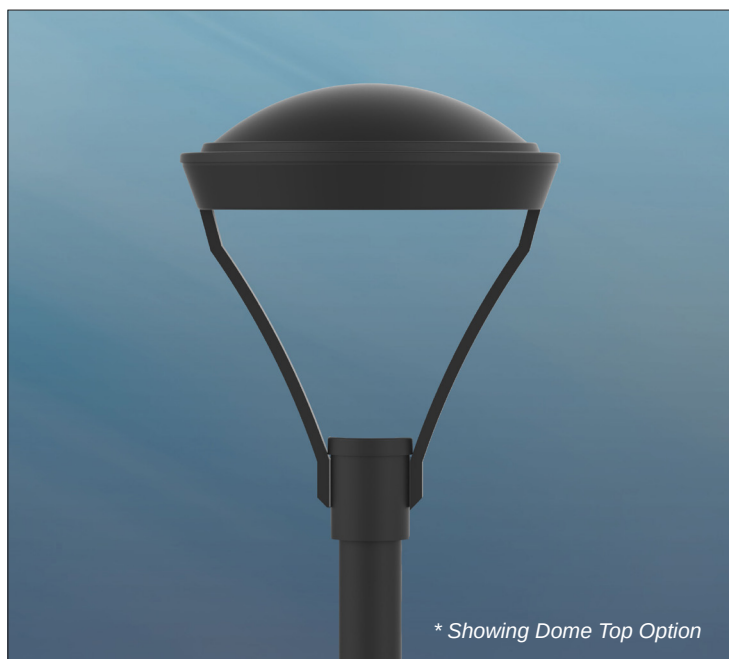
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PRODUCT SPECIFICATIONS



DIMENSION	HRZ-1
A	24.00 in
B	25.75 in

EPA	STD TOP	DOM TOP
HRZ-1	1.15	1.40



PRODUCT SPECIFICATIONS

LUMEN DATA CHART

PART NUMBER	T2 LUMENS	T2 LM/W	T3 LUMENS	T3 LM/W	T3-HSS LUMENS	T3-HSS LM/W	T4 LUMENS	T4 LM/W	T4-HSS LUMENS	T4-HSS LM/W	T5 LUMENS	T5 LM/W	Watts
HRZ-1-16L-35-30K7	2142	119	2088	116	1044	58	2070	115	1026	57	2160	120	18
HRZ-1-16L-35-40K7	2305	128	2247	125	1116	62	2227	124	1098	61	2322	129	18
HRZ-1-16L-35-50K7	2356	131	2297	128	1188	66	2277	127	1170	65	2376	132	18
HRZ-1-16L-53-30K7	3275	117	3192	114	1624	58	3165	113	1596	57	3304	118	28
HRZ-1-16L-53-40K7	3524	126	3435	123	1736	62	3406	122	1708	61	3556	127	28
HRZ-1-16L-53-50K7	3603	129	3511	125	1848	66	3482	124	1820	65	3640	130	28
HRZ-1-16L-7-30K7	4100	114	4115	111	2088	58	4003	111	2052	57	4176	116	36
HRZ-1-16L-7-40K7	4411	123	4300	119	2232	62	4308	120	2196	61	4500	125	36
HRZ-1-16L-7-50K7	4510	125	4396	122	2376	66	4404	122	2340	65	4608	128	36
HRZ-1-16L-1-30K7	5858	105	5712	102	3248	58	5661	101	3192	57	5880	105	56
HRZ-1-16L-1-40K7	6303	113	6146	110	3472	62	6091	109	3416	61	6328	113	56
HRZ-1-16L-1-50K7	6443	115	6283	112	3696	66	6227	111	3640	65	6496	116	56
HRZ-1-32L-53-30K7	5858	105	5712	102	3248	58	5661	101	3192	57	5880	105	56
HRZ-1-32L-53-40K7	6303	113	6146	110	3472	62	6091	109	3416	61	6328	113	56
HRZ-1-32L-53-50K7	6443	115	6283	112	3696	66	6227	111	3640	65	6496	116	56
HRZ-1-32L-7-30K7	7427	105	7881	111	4118	58	7896	111	4047	57	8236	116	71
HRZ-1-32L-7-40K7	7991	113	8480	119	4402	62	8496	120	4331	61	8875	125	71
HRZ-1-32L-7-50K7	8169	115	8669	122	4686	66	8685	122	4615	65	9088	128	71
HRZ-1-32L-1-30K7	11088	105	10812	102	6148	58	10715	101	6042	57	11130	105	106
HRZ-1-32L-1-40K7	11930	113	11634	110	6572	62	11529	109	6466	61	11978	113	106
HRZ-1-32L-1-50K7	12196	115	11893	112	6996	66	11787	111	6890	65	12296	116	106
HRZ-1-48L-7-30K7	11844	114	11544	111	6032	58	11648	112	5928	57	12068	116	104
HRZ-1-48L-7-40K7	12744	123	12421	119	6448	62	12444	120	6344	61	12985	125	104
HRZ-1-48L-7-50K7	13028	125	12698	122	6864	66	12792	123	6760	65	13275	128	104
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HRZ-1-48L-1-40K7	17558	113	17121	110	9672	62	16968	109	9516	61	17705	113	156
HRZ-1-48L-1-50K7	17950	115	17503	112	10296	66	17346	111	10140	65	18100	116	156
HRZ-1-64L-7-30K7	15488	114	15096	111	7888	58	15124	111	7752	57	15781	116	136
HRZ-1-64L-7-40K7	16665	123	16243	119	8432	62	16273	120	8296	61	16981	125	136
HRZ-1-64L-7-50K7	17037	125	16606	122	8976	66	16728	123	8840	65	17359	128	136
HRZ-1-64L-1-30K7	23346	114	22755	111	11890	58	20722	101	11685	57	23780	116	205
HRZ-1-64L-1-40K7	25120	123	24484	119	12710	62	22297	109	12505	61	25625	125	205
HRZ-1-64L-1-50K7	25681	125	25031	122	13530	66	22795	111	13325	65	26240	128	205

Lumen Maintenance Data

Ambient Temperature	Drive Current	L90 Hours*	L70 Hours**	30,000 Hours*	50,000 Hours*	60,000 Hours*	100,000 Hours**
25°C	Up to 700mA	58,000	173,000	95.7%	91.6%	89.6%	82.1%
	1050mA	38,000	96,000	93.0%	85.4%	81.8%	68.8%
*Reported extrapolations per IESNA TM-21				**Projected extrapolations per IESNA TM-21			



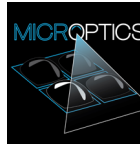
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MICRO OPTIC SYSTEM

Our new cell-inclosed, micro optic silicone modules produce high clarity and outstanding performance.

LED WATTAGE CHART

	16L	32L	48L	64L
350 milliamps	18w	-	-	-
530 milliamps	28w	54w	-	-
700 milliamps	36w	71w	104w	137w
1050 milliamps	56w	106w	156w	205w

Project Name:

Type:

Cat#	Light Dist.	# of LEDs	Milliamps	Kelvin	Volts	Mounting	Color	Options
Horizon 1 (HRZ-1)	Type 2 (T2)	16 (16L)	350 (35) ^①	2700K, 70 CRI (27K7)	120-277 (UNV)	Post Top Over 2-3/8" OD (PT238)	Bronze Textured (BRZ)	Dome Top (DT)
	Type 3 (T3)	32 (32L)	530 (53) ^②	2700K, 80 CRI (27K8) ^③	347-480 (HV)	Post Top Over 3" OD (PT3) ^④	White Textured (WHT)	Marine Grade Finish (MGF)
	Type 4 (T4)	48 (48L)	700 (7)	3000K, 70 CRI (30K7)		Post Top Over 3-1/2" OD (PT312)	Smooth White Gloss (SWT)	House Side Shield (HSS)
	Type 5 (T5)	64 (64L)	1050 (1)	3000K, 80 CRI (30K8) ^⑤			Silver (SVR)	Photocell (PC) ^⑥
				3500K, 80 CRI (35K8) ^⑤			Black Textured (BLK)	Nema 7-Pin Receptacle (PET)
				4000K, 70 CRI (40K7)			Smooth Black Gloss (SBK)	Photocell + Receptacle (PCR)
				4000K, 80 CRI (40K8) ^⑤			Graphite Textured (GPH)	Receptacle + Shorting Cap (PER)
				5000K, 70 CRI (50K7)			Grey Textured (GRY)	FSP-211 with Motion Sensor
				5000K, 80 CRI (50K8) ^⑤			Custom (CS)	(FSP-8) ^⑤ 8'+ Below
								(FSP-20) ^⑤ 9'-20' Heights
								(FSP-40) ^⑤ 21'-40' Heights
								Bird Spikes (BS)

Notes:

- ① 16L Only
- ② 16L-32L Only
- ③ Consult Factory for Lead Time. Consult Factory for 90 CRI Requests.
- ④ Standard
- ⑤ Universal Voltage 120-277

PRODUCT SPECIFICATIONS

ELECTRICAL

- 120-277 Volts (UNV) or 347-480 Volts (HV)
- 0-10V dimming driver
- Driver power factor at maximum load is $\geq .95$, THD maximum load is 15%
- LED Drivers Ambient Temp. Min is -40°C and Ambient Temp. Max ranges from 50°C to 55°C and, in some cases, even higher. Consult the factory for revalidation by providing the fixture catalog string before quoting and specifying it.
- All internal wiring UL certified for 600 VAC and 105°C
- CRI 70, 80 or 90
- Color temperatures: 3000K, 3500K, 4000K, 5000K
- Surge Protection: 20KA supplied as standard.

CONSTRUCTION

- Cast Aluminum

OPTIONS

- MARINE GRADE FINISH (MGF) - A multi-step process creating protective finishing coat against harsh environments. Chemically washed in a 5 stage cleaning system. Pre-baked, Powder coated 3-5 mils of Zinc Rich Super Durable Polyester Primer. Oven Baked. Finished Powder Coating of Super Durable Polyester Powder Coat 3-5 mil thickness.
- DOME TOP - Optional decorative dome top.
- HOUSE SIDE SHIELD (HSS) - Designed for full property line cutoff.
- BIRD SPIKES - Offers effective and humane deterrent for larger bird species and provides cost-effective long-term solution to nuisance bird infestations and protects your property.

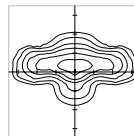
CONTROL OPTIONS

- FSP-211 (FSP-X)—Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
 - All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
 - FSP-20 mounting heights 9-20 feet
 - FSP-40 mounting heights 21-40 feet.
 - Includes 5 dimming event cycles, 0-10V dimming with motion sensing, reprogrammable in the field.
 - FSIR-100 commissioning remote is required to change sensor settings. Please contact factory for ordering.
- Controls Agnostics: Please contact factory for your preferred controls option.
- PHOTOCELL - Button type photocell.
- NEMA 7-PIN RECEPTACLE (PE7)—An ANSI C136.41-2013 receptacle provides electrical and mechanical interconnection between photo control cell and luminaire. Dimming receptacle available two or four dimming contacts supports 0-10 VDC dimming methods or Digital Addressable Lighting Interface (DALI), providing reliable power interconnect.
- PHOTOCELL + RECEPTACLE (PCR)—7-Pin Receptacle and Electronic Twist Lock Photocell for dusk to dawn operation.
- RECEPTACLE + SHORTING CAP (PER)—7-Pin Receptacle and Shorting Cap.

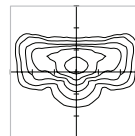
OPTICS

Silicone optics high photo-thermal stability and light output provides higher powered LEDs with minimized lumen depreciation LED life. UV and thermal stability with scratch resistance increases exterior application durability.

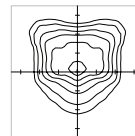
- IES Types



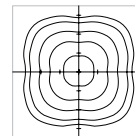
TYPE II (T2)



TYPE III (T3)



TYPE IV (T4)



TYPE V (T5)

FINISH

- 3-5 mils electrostatic powder coat.
- NLS Light's standard high-quality finishes prevent corrosion protects against and extreme environmental conditions

WARRANTY

Five-year limited warranty for drivers and LEDs.

LISTINGS

- Certified to UL 1598
- UL 8750
- CSA C22.2 No. 250.0

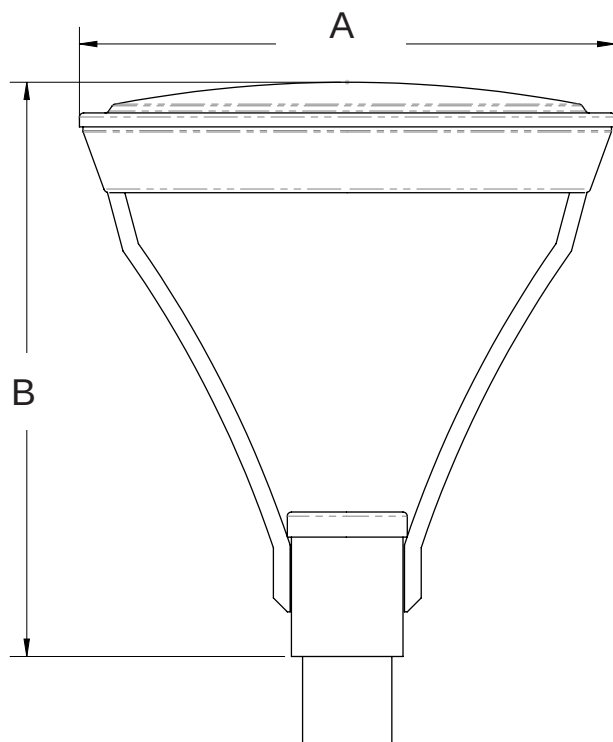


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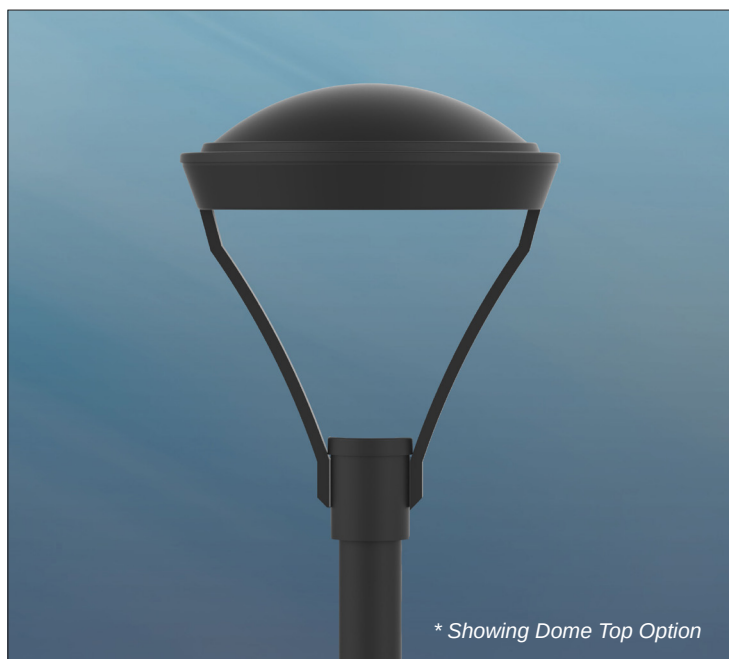
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PRODUCT SPECIFICATIONS



DIMENSION	HRZ-1
A	24.00 in
B	25.75 in

EPA	STD TOP	DOM TOP
HRZ-1	1.15	1.40



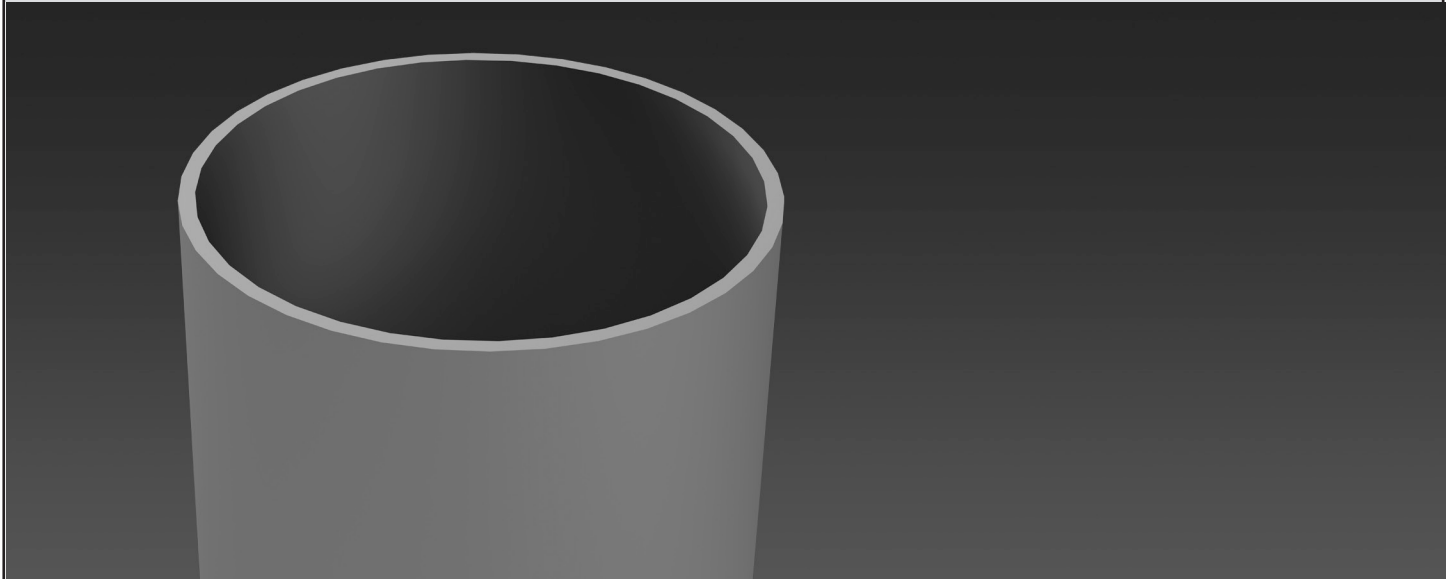
PRODUCT SPECIFICATIONS

LUMEN DATA CHART

PART NUMBER	T2 LUMENS	T2 LM/W	T3 LUMENS	T3 LM/W	T3-HSS LUMENS	T3-HSS LM/W	T4 LUMENS	T4 LM/W	T4-HSS LUMENS	T4-HSS LM/W	T5 LUMENS	T5 LM/W	Watts
HRZ-1-16L-35-30K7	2142	119	2088	116	1044	58	2070	115	1026	57	2160	120	18
HRZ-1-16L-35-40K7	2305	128	2247	125	1116	62	2227	124	1098	61	2322	129	18
HRZ-1-16L-35-50K7	2356	131	2297	128	1188	66	2277	127	1170	65	2376	132	18
HRZ-1-16L-53-30K7	3275	117	3192	114	1624	58	3165	113	1596	57	3304	118	28
HRZ-1-16L-53-40K7	3524	126	3435	123	1736	62	3406	122	1708	61	3556	127	28
HRZ-1-16L-53-50K7	3603	129	3511	125	1848	66	3482	124	1820	65	3640	130	28
HRZ-1-16L-7-30K7	4100	114	4115	111	2088	58	4003	111	2052	57	4176	116	36
HRZ-1-16L-7-40K7	4411	123	4300	119	2232	62	4308	120	2196	61	4500	125	36
HRZ-1-16L-7-50K7	4510	125	4396	122	2376	66	4404	122	2340	65	4608	128	36
HRZ-1-16L-1-30K7	5858	105	5712	102	3248	58	5661	101	3192	57	5880	105	56
HRZ-1-16L-1-40K7	6303	113	6146	110	3472	62	6091	109	3416	61	6328	113	56
HRZ-1-16L-1-50K7	6443	115	6283	112	3696	66	6227	111	3640	65	6496	116	56
HRZ-1-32L-53-30K7	5858	105	5712	102	3248	58	5661	101	3192	57	5880	105	56
HRZ-1-32L-53-40K7	6303	113	6146	110	3472	62	6091	109	3416	61	6328	113	56
HRZ-1-32L-53-50K7	6443	115	6283	112	3696	66	6227	111	3640	65	6496	116	56
HRZ-1-32L-7-30K7	7427	105	7881	111	4118	58	7896	111	4047	57	8236	116	71
HRZ-1-32L-7-40K7	7991	113	8480	119	4402	62	8496	120	4331	61	8875	125	71
HRZ-1-32L-7-50K7	8169	115	8669	122	4686	66	8685	122	4615	65	9088	128	71
HRZ-1-32L-1-30K7	11088	105	10812	102	6148	58	10715	101	6042	57	11130	105	106
HRZ-1-32L-1-40K7	11930	113	11634	110	6572	62	11529	109	6466	61	11978	113	106
HRZ-1-32L-1-50K7	12196	115	11893	112	6996	66	11787	111	6890	65	12296	116	106
HRZ-1-48L-7-30K7	11844	114	11544	111	6032	58	11648	112	5928	57	12068	116	104
HRZ-1-48L-7-40K7	12744	123	12421	119	6448	62	12444	120	6344	61	12985	125	104
HRZ-1-48L-7-50K7	13028	125	12698	122	6864	66	12792	123	6760	65	13275	128	104
HRZ-1-48L-1-30K7	16318	105	15912	102	9048	58	15769	101	8892	57	16455	105	156
HRZ-1-48L-1-40K7	17558	113	17121	110	9672	62	16968	109	9516	61	17705	113	156
HRZ-1-48L-1-50K7	17950	115	17503	112	10296	66	17346	111	10140	65	18100	116	156
HRZ-1-64L-7-30K7	15488	114	15096	111	7888	58	15124	111	7752	57	15781	116	136
HRZ-1-64L-7-40K7	16665	123	16243	119	8432	62	16273	120	8296	61	16981	125	136
HRZ-1-64L-7-50K7	17037	125	16606	122	8976	66	16728	123	8840	65	17359	128	136
HRZ-1-64L-1-30K7	23346	114	22755	111	11890	58	20722	101	11685	57	23780	116	205
HRZ-1-64L-1-40K7	25120	123	24484	119	12710	62	22297	109	12505	61	25625	125	205
HRZ-1-64L-1-50K7	25681	125	25031	122	13530	66	22795	111	13325	65	26240	128	205

Lumen Maintenance Data

Ambient Temperature	Drive Current	L90 Hours*	L70 Hours**	30,000 Hours*	50,000 Hours*	60,000 Hours*	100,000 Hours**
25°C	Up to 700mA	58,000	173,000	95.7%	91.6%	89.6%	82.1%
	1050mA	38,000	96,000	93.0%	85.4%	81.8%	68.8%
*Reported extrapolations per IESNA TM-21				**Projected extrapolations per IESNA TM-21			



Height

10' - 30'

Pole Shaft

The pole shaft material is a weldable grade hot rolled commercial quality steel tubing with a minimum yield of 46,000 psi. Conforms to ASTM A500 Grade B Standards. Poles have ground lug welded inside hand-hole opposite side of the hand-hole. Pole shaft is welded to base plate on top and bottom of base plate.

Base Plate

The Base Plate is manufactured from structural hot rolled steel that meets or exceeds a minimum yield strength of 36,000 psi, conforms the ASTM-A36 standards. Base Plate vary in size from 1" thick for poles 21 feet and over, 3/4" thick for poles 10 to 20 feet.

Anchor Bolts

All anchor bolts are hot dipped galvanized steel and come with two galvanized nuts and washers per bolt. Minimum yield strength 50,000 psi. Anchor bolts are not included for Custom Bolt Circle.

Base Cover

All base covers are fabricated two-piece 6063 aluminum and powder coated to match the pole. Square base cover comes standard, Round base cover optional.

Hand-Hole

A reinforced hand-hole is 12" on center from the base plate and is constructed of 3"x 5" rectangular steel tubing which is welded to pole shaft for added strength. The hand-hole covers are provided with internal bridge support and powder coated to match pole finish.

Pole Cap

All poles come with a removable polymer pole cap installed. All pole caps are black finish.

Finish

All poles are treated with shot blast media for a near white finish, power blasted with 100 psi prior to powder coat application. Electrostatically applied polyester powder coat with a 3 to 5 mil thickness for maximum adherence.

Marine Grade Finish

All poles are washed through a 5-stage cleaning system with a deionized rinse, a 3 to 5 mils zinc rich durable polyester primer powder coat, followed by a 3 to 5 mils super durable polyester powder coat finish.

Galvanized Finish

All poles are Hot Dipped Galvanized in a multi stage process. Galvanizing Specification, Zinc (Hot Dipped Galvanized) per ASTM A 123/A 123M - 02

Zinc coatings on threaded materials shall conform to specification A 153 /A 153M. The coating shall be continuous and reasonably smooth and uniform in thickness and in weight.

Galvanizing Adherence - The Zinc coating shall withstand handling consistent with the nature and thickness of the coating and normal use of the article without peeling or flaking.

Galvanized Under Powder

Galvanized Under Powder (GUP) adheres to above galvanized specification, and the second stage is a light sand blast on the outside of the pole, third stage is a 3-5 mils polyester powder coat finish for maximum adherence.

Vibration Dampener

The Vibration Dampener is factory installed. The Vibration Dampener consists of a rugged galvanized chain coated with heavy duty polyester tubing that is factory secured at the bottom 2-3rds of the pole and field secured by contractor at the base during installation.



Project Name:

Type:

RSSP ORDERING GUIDE

Cat#	Height	Pole Dimension	Gauge	Base Pattern
Round Straight Steel Pole (RSSP)	10' (10) 12' (12) 14' (14) 16' (16) 18' (18) 20' (20) 22' (22) 24' (24) 25' (25) 26' (26) 28' (28) 30' (30)	4" Round (4R) 5" Round (5R) 6" Round (6R)	.120 Wall Thickness (11G) .180 Wall Thickness (7G)	(10'-20') 9"- 10 3/8" Bolt Circle (9BC) (22'-30') 11 1/2"- 14" Bolt Circle (12BC) Custom Bolt Circle (CBC) <i>* Consult Factory</i>

Mounting	Color	Bolts	Options
Single (SGL)	Bronze Textured (BRZ)	3/4" x 30" (3430)	GFI Kit (GFI20A) 20 Amp Weather Proof Receptacle
Double (D-90) (D-180)	White Textured (WHT)	1" x 36" (136)	GFI Provision Only (PROV)
Triple (T-90) (T-120)	Smooth White Gloss (SWT)	Less Anchor Bolts (LAB)	Galvanized (GLV)
Quad (QD)	Silver (SVR)		Round Base Cover (RBC)
No Drill (ND) <i>*Tenon Option</i>	Green Textured (GRN)		Galvanized Under Powder (GUP)
Tenon	Hunter Green Textured (HGN)		1/2" Coupling (COUP) <i>* Specify Location</i>
2 3/8" Round (T2R)	Black Textured (BLK)		Vibration Dampener (VD)
3" Round (T3R)	Smooth Black Gloss (SBK)		Extra Hand Hole (XHH) <i>* Specify Location</i>
3 1/2" Round (T312R)	Graphite Textured (GPH)		Marine Grade Finish (MGF)
4" Round (T4R)	Grey Textured (GRY)		
4 1/2" Round (T412R)	Custom (CS)		

Max. allowable EPA - RSSP poles (per AASHTO LRFDLTS-1)

Catalog Number	Shaft Length, ft	Wall thickness, in.	Shaft dia., in.	Base Plate, in.	Bolt Circle, in.	Bolts	80 mph	Max. wt. (lb)	90 mph	Max. wt. (lb)	100 mph	Max. wt. (lb)	110 mph	Max. wt. (lb)	115 mph	Max. wt. (lb)	120 mph	Max. wt. (lb)	130 mph	Max. wt. (lb)	140 mph	Max. wt. (lb)	150 mph	Max. wt. (lb)	160 mph	Max. wt. (lb)	170 mph	Max. wt. (lb)	180 mph	Max. wt. (lb)
RSSP-10-4R-11G-9BC-3430	10	0.120	4	9" sq.	9	3/4"x30"	20.0	500	20.0	500	20.0	500	20.0	500	18.3	458	16.6	416	13.9	347	11.7	292	10.0	250	8.7	217	7.6	190	6.8	169
RSSP-12-4R-11G-9BC-3430	12	0.120	4	9" sq.	9	3/4"x30"	20.0	500	20.0	500	20.0	500	16.1	402	14.5	363	13.1	329	10.8	270	9.0	225	7.6	190	6.6	165	5.7	143	5.0	126
RSSP-14-4R-11G-9BC-3430	14	0.120	4	9" sq.	9	3/4"x30"	20.0	500	20.0	500	16.4	409	13.0	326	11.7	292	10.5	262	8.5	213	7.0	174	5.8	145	4.9	124	4.3	108	3.7	93
RSSP-16-4R-11G-9BC-3430	16	0.120	4	9" sq.	9	3/4"x30"	20.0	500	16.3	408	12.6	316	9.9	247	8.8	220	7.8	196	6.2	156	4.9	124	4.0	100	3.4	85	2.9	73	2.5	63
RSSP-18-4R-11G-9BC-3430	18	0.120	4	9" sq.	9	3/4"x30"	18.3	458	13.7	344	10.4	261	8.0	201	7.1	177	6.2	154	4.8	119	3.6	91	2.8	70	2.3	60	2.0	60	1.6	60
RSSP-20-4R-11G-9BC-3430	20	0.120	4	9" sq.	9	3/4"x30"	15.7	393	11.6	289	8.6	216	6.5	162	5.5	139	4.8	120	3.5	88	2.5	62	1.8	60	1.4	60	1.1	60	0.9	60
RSSP-20-4R-7G-9BC-3430	20	0.188	4	9" sq.	9	3/4"x30"	20.0	500	19.6	489	15.1	378	11.8	294	10.5	262	9.3	232	7.3	183	5.7	144	4.6	116	3.9	98	3.3	84	2.9	72
RSSP-20-5R-11G-9BC-3430	20	0.120	5	9" sq.	9	3/4"x30"	20.0	500	19.7	491	14.9	374	11.5	288	10.1	253	9.0	226	7.4	186	6.2	156	5.2	131	4.5	112	3.8	96	3.3	83
RSSP-20-5R-7G-9BC-3430	20	0.188	5	9" sq.	9	3/4"x30"	20.0	500	20.0	500	20.0	500	16.2	406	14.4	361	13.0	325	10.8	271	9.1	228	7.8	195	6.7	167	5.8	146	5.1	127
RSSP-22-4R-11G-12BC-136	22	0.120	4	12" sq.	12	1"x36"	12.3	308	8.9	222	6.4	161	4.6	115	3.9	97	3.2	80	2.1	60	1.3	60	0.7	60	0.5	60	0.3	60	0.1	60
RSSP-22-4R-7G-12BC-136	22	0.188	4	12" sq.	12	1"x36"	20.0	500	15.6	389	11.8	295	9.0	226	8.0	199	7.0	174	5.3	133	4.0	100	3.1	77	2.6	64	2.2	60	1.8	60
RSSP-22-5R-11G-12BC-136	22	0.120	5	12" sq.	12	1"x36"	20.0	500	15.4	385	11.5	287	8.6	215	7.5	187	6.6	164	5.4	134	4.4	110	3.7	92	3.1	77	2.6	65	2.2	60
RSSP-22-5R-7G-12BC-136	22	0.188	5	12" sq.	12	1"x36"	20.0	500	20.0	500	20.0	500	15.8	396	14.1	351	12.7	316	10.5	263	8.9	221	7.5	188	6.5	162	5.6	140	4.9	122
RSSP-25-4R-11G-12BC-136	25	0.120	4	12" sq.	12	1"x36"	9.7	242	6.7	167	4.5	112	2.9	72	2.3	60	1.7	60	0.7	60	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
RSSP-25-4R-7G-12BC-136	25	0.188	4	12" sq.	12	1"x36"	17.1	428	12.5	313	9.3	231	6.8	170	5.8	145	5.0	124	3.5	88	2.4	60	1.6	60	1.2	60	0.9	60	0.7	60
RSSP-25-5R-11G-12BC-136	25	0.120	5	12" sq.	12	1"x36"	16.9	423	12.1	302	8.7	217	6.2	154	5.1	128	4.4	110	3.5	87	2.7	68	2.2	60	1.7	60	1.4	60	1.1	60
RSSP-25-5R-7G-12BC-136	25	0.188	5	12" sq.	12	1"x36"	20.0	500	20.0	500	16.4	409	12.5	312	10.9	272	9.7	243	8.0	200	6.7	167	5.6	140	4.8	119	4.0	101	3.5	87
RSSP-26-4R-11G-12BC-136	26	0.120	4	12" sq.	12	1"x36"	8.9	222	6.0	150	3.9	98	2.4	60	1.7	60	1.2	60	0.3	60	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
RSSP-26-4R-7G-12BC-136	26	0.188	4	12" sq.	12	1"x36"	16.1	401	11.6	290	8.5	212	6.2	154	5.2	130	4.4	109	3.0	74	1.9	60	1.2	60	0.8	60	0.6	60	0.3	60
RSSP-26-5R-11G-12BC-136	26	0.120	5	12" sq.	12	1"x36"	13.3	333	11.1	278	7.9	196	5.4	135	4.4	111	3.7	93	2.9	72	2.3	60	1.8	60	1.4	60	1.1	60	0.8	60
RSSP-26-5R-7G-12BC-136	26	0.188	5	12" sq.	12	1"x36"	12.1	302	16.1	403	13.9	347	11.5	287	10.0	249	8.9	222	7.3	182	6.0	150	5.0	125	4.2	106	3.6	89	3.1	77
RSSP-28-4R-7G-12BC-136	28	0.188	4	12" sq.	12	1"x36"	14.1	353	10.0	250	7.1	177	4.9	122	4.0	100	3.3	82	2.0	60	1.0	60	0.3	60	0.1	60	0.0	-	0.0	-
RSSP-28-5R-11G-12BC-136	28	0.120	5	12" sq.	12	1"x36"	13.6	341	9.4	234	6.3	158	4.0	101	3.1	78	2.5	63	1.8	60	1.3	60	0.9	60	0.6	60	0.4	60	0.2	60
RSSP-28-5R-7G-12BC-136	28	0.188	5	12" sq.	12	1"x36"	20.0	500	17.8	445	13.1	329	9.7	242	8.3	207	7.2	181	5.9	147	4.8	120	3.9	98	3.2	81	2.7	68	2.3	60
RSSP-28-6R-7G-12BC-136	28	0.188	6	12" sq.	12	1"x36"	20.0	500	20.0	500	20.0	500	17.0	425	15.4	385	14.0	349	11.6	290	9.7	243	8.2	206	7.1	177	6.1	152	5.3	132
RSSP-30-5R-11G-12BC-136	30	0.120	5	12" sq.	12	1"x36"	11.7	293	7.8	194	4.9	122	2.8	69	1.9	60	1.4	60	0.8	60	0.4	60	0.1	60	0.0	-	0.0	-	0.0	-
RSSP-30-6R-11G-12BC-136	30	0.120	6	12" sq.	12	1"x36"	18.6	466	12.9	321	9.0	225	7.0	175	6.2	154	5.5	136	4.3	108	3.5	87	2.8	69	2.2	60	1.8	60	1.4	60
RSSP-30-5R-7G-12BC-136	30	0.188	5	12" sq.	12	1"x36"	20.0	500	15.6	391	11.3	282	8.1	201	6.8	169	5.8	146	4.6	115	3.7	92	3.0	74	2.4	60	1.9	60	1.5	60
RSSP-30-6R-7G-12BC-136	30	0.188	6	12" sq.	12	1"x36"	20.0	500	20.0	500	18.6	465	14.9	371	13.4	334	12.1	303	10.0	250	8.3	208	7.0	176	6.0	149	5.1	127	4.4	110

*Pole Assemblies With EPA>9.0 Require Specific Review

***Anchor Bolts are NOT included with Custom Bolt Circle.
*Do NOT pour concrete referencing this drawing. Consult Factory.**

***All wind loading calculations are based on sustained wind force plus an additional 1.3 gust.**

MOUNTING CONFIGURATION



Single (SGL)



Double (D-90)



Double (D-180)



Triple (T-90)



Triple (T-120)



Quad (QD)

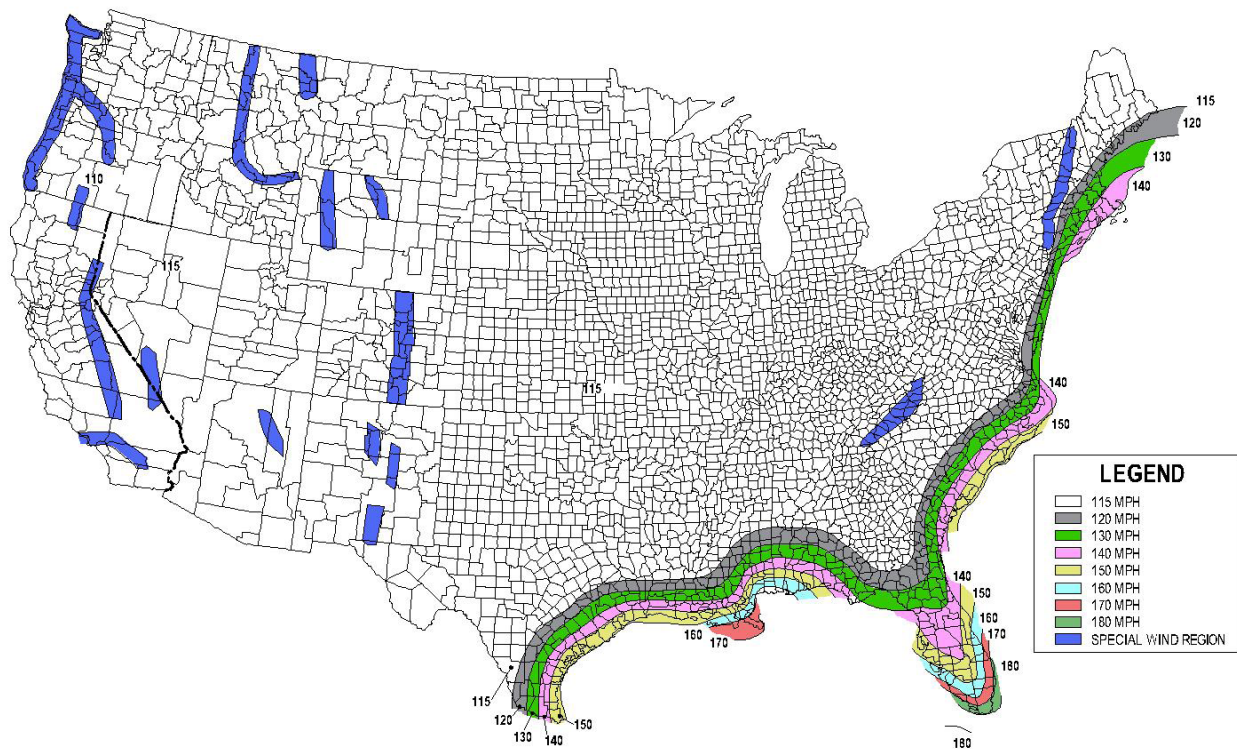
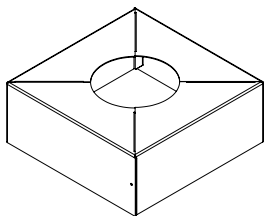
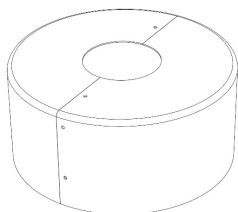


FIG. 3.8-1b - 700-Year MRI Basic Wind Speed, mph (AASHTO LRFDLTS-1)

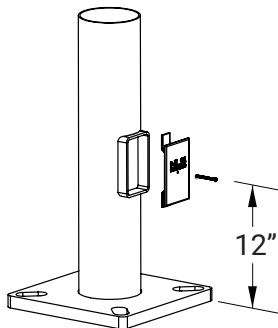
- 1) All wind load calculations are based on sustained wind force plus and additional 1.3 gust
- 2) Wind Map is to be used as a reference only. Please coordinate with local agencies for further review.
- 3) Wind Map values are based on a 50 year mean recurrence. These values do not account for severe conditions, such as hurricanes, tornadoes, etc...
- 4) For review of poles with additional configurations (arms, banners, shorter/longer pole lengths, etc...), please contact factory.



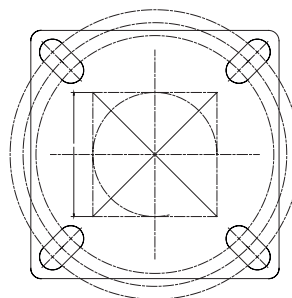
Base Cover



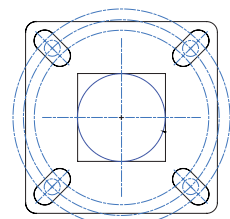
**Optional Round
Base Cover**



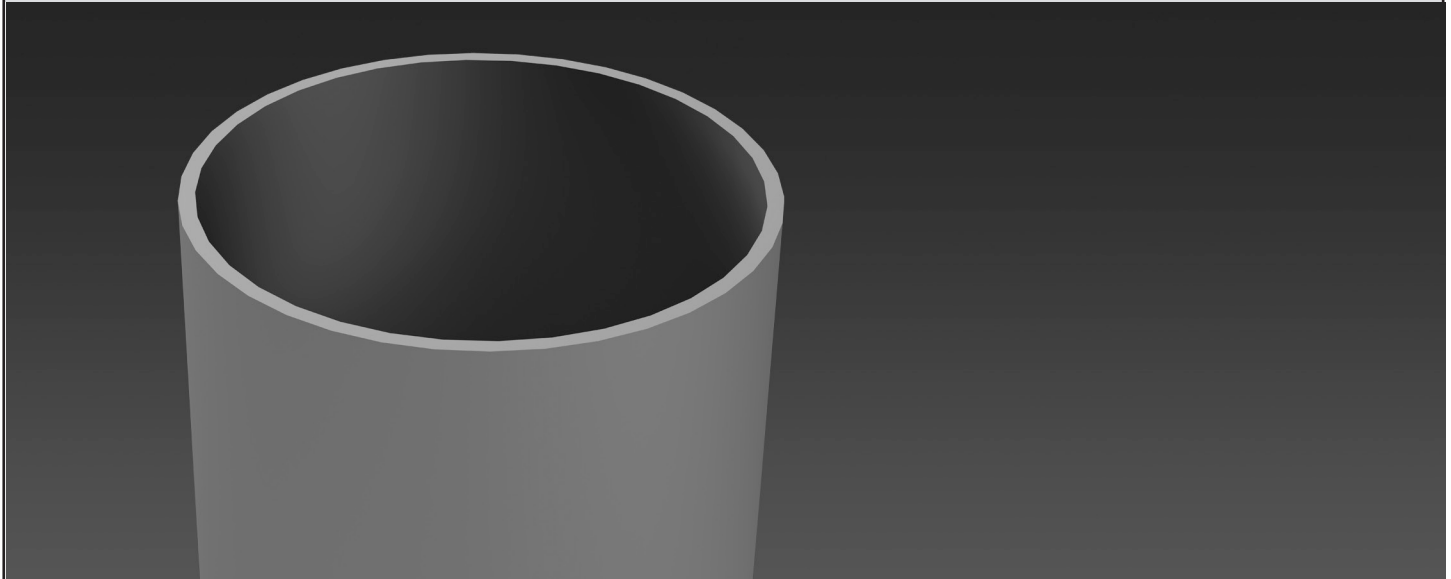
Base Detail



12" Base Detail



9" Base Detail



Height

10' - 30'

Pole Shaft

The pole shaft material is a weldable grade hot rolled commercial quality steel tubing with a minimum yield of 46,000 psi. Conforms to ASTM A500 Grade B Standards. Poles have ground lug welded inside hand-hole opposite side of the hand-hole. Pole shaft is welded to base plate on top and bottom of base plate.

Base Plate

The Base Plate is manufactured from structural hot rolled steel that meets or exceeds a minimum yield strength of 36,000 psi, conforms the ASTM-A36 standards. Base Plate vary in size from 1" thick for poles 21 feet and over, 3/4" thick for poles 10 to 20 feet.

Anchor Bolts

All anchor bolts are hot dipped galvanized steel and come with two galvanized nuts and washers per bolt. Minimum yield strength 50,000 psi. Anchor bolts are not included for Custom Bolt Circle.

Base Cover

All base covers are fabricated two-piece 6063 aluminum and powder coated to match the pole. Square base cover comes standard, Round base cover optional.

Hand-Hole

A reinforced hand-hole is 12" on center from the base plate and is constructed of 3"x 5" rectangular steel tubing which is welded to pole shaft for added strength. The hand-hole covers are provided with internal bridge support and powder coated to match pole finish.

Pole Cap

All poles come with a removable polymer pole cap installed. All pole caps are black finish.

Finish

All poles are treated with shot blast media for a near white finish, power blasted with 100 psi prior to powder coat application. Electrostatically applied polyester powder coat with a 3 to 5 mil thickness for maximum adherence.

Marine Grade Finish

All poles are washed through a 5-stage cleaning system with a deionized rinse, a 3 to 5 mils zinc rich durable polyester primer powder coat, followed by a 3 to 5 mils super durable polyester powder coat finish.

Galvanized Finish

All poles are Hot Dipped Galvanized in a multi stage process. Galvanizing Specification, Zinc (Hot Dipped Galvanized) per ASTM A 123/A 123M - 02

Zinc coatings on threaded materials shall conform to specification A 153 /A 153M. The coating shall be continuous and reasonably smooth and uniform in thickness and in weight.

Galvanizing Adherence - The Zinc coating shall withstand handling consistent with the nature and thickness of the coating and normal use of the article without peeling or flaking.

Galvanized Under Powder

Galvanized Under Powder (GUP) adheres to above galvanized specification, and the second stage is a light sand blast on the outside of the pole, third stage is a 3-5 mils polyester powder coat finish for maximum adherence.

Vibration Dampener

The Vibration Dampener is factory installed. The Vibration Dampener consists of a rugged galvanized chain coated with heavy duty polyester tubing that is factory secured at the bottom 2-3rds of the pole and field secured by contractor at the base during installation.



Project Name:

Type:

RSSP ORDERING GUIDE

Cat#	Height	Pole Dimension	Gauge	Base Pattern
Round Straight Steel Pole (RSSP)	10' (10) 12' (12) 14' (14) 16' (16) 18' (18) 20' (20) 22' (22) 24' (24) 25' (25) 26' (26) 28' (28) 30' (30)	4" Round (4R) 5" Round (5R) 6" Round (6R)	.120 Wall Thickness (11G) .180 Wall Thickness (7G)	(10'-20') 9"- 10 3/8" Bolt Circle (9BC) (22'-30') 11 1/2"- 14" Bolt Circle (12BC) Custom Bolt Circle (CBC) <i>* Consult Factory</i>

Mounting	Color	Bolts	Options
Single (SGL)	Bronze Textured (BRZ)	3/4" x 30" (3430)	GFI Kit (GFI20A) 20 Amp Weather Proof Receptacle
Double (D-90) (D-180)	White Textured (WHT)	1" x 36" (136)	GFI Provision Only (PROV)
Triple (T-90) (T-120)	Smooth White Gloss (SWT)	Less Anchor Bolts (LAB)	Galvanized (GLV)
Quad (QD)	Silver (SVR)		Round Base Cover (RBC)
No Drill (ND) <i>*Tenon Option</i>	Green Textured (GRN)		Galvanized Under Powder (GUP)
Tenon	Hunter Green Textured (HGN)		1/2" Coupling (COUP) <i>* Specify Location</i>
2 3/8" Round (T2R)	Black Textured (BLK)		Vibration Dampener (VD)
3" Round (T3R)	Smooth Black Gloss (SBK)		Extra Hand Hole (XHH) <i>* Specify Location</i>
3 1/2" Round (T312R)	Graphite Textured (GPH)		Marine Grade Finish (MGF)
4" Round (T4R)	Grey Textured (GRY)		
4 1/2" Round (T412R)	Custom (CS)		

Max. allowable EPA - RSSP poles (per AASHTO LRFDLTS-1)

Catalog Number	Shaft Length, ft	Wall thickness, in.	Shaft dia., in.	Base Plate, in.	Bolt Circle, in.	Bolts	80 mph	Max. wt. (lb)	90 mph	Max. wt. (lb)	100 mph	Max. wt. (lb)	110 mph	Max. wt. (lb)	115 mph	Max. wt. (lb)	120 mph	Max. wt. (lb)	130 mph	Max. wt. (lb)	140 mph	Max. wt. (lb)	150 mph	Max. wt. (lb)	160 mph	Max. wt. (lb)	170 mph	Max. wt. (lb)	180 mph	Max. wt. (lb)
RSSP-10-4R-11G-9BC-3430	10	0.120	4	9" sq.	9	3/4"x30"	20.0	500	20.0	500	20.0	500	20.0	500	18.3	458	16.6	416	13.9	347	11.7	292	10.0	250	8.7	217	7.6	190	6.8	169
RSSP-12-4R-11G-9BC-3430	12	0.120	4	9" sq.	9	3/4"x30"	20.0	500	20.0	500	20.0	500	16.1	402	14.5	363	13.1	329	10.8	270	9.0	225	7.6	190	6.6	165	5.7	143	5.0	126
RSSP-14-4R-11G-9BC-3430	14	0.120	4	9" sq.	9	3/4"x30"	20.0	500	20.0	500	16.4	409	13.0	326	11.7	292	10.5	262	8.5	213	7.0	174	5.8	145	4.9	124	4.3	108	3.7	93
RSSP-16-4R-11G-9BC-3430	16	0.120	4	9" sq.	9	3/4"x30"	20.0	500	16.3	408	12.6	316	9.9	247	8.8	220	7.8	196	6.2	156	4.9	124	4.0	100	3.4	85	2.9	73	2.5	63
RSSP-18-4R-11G-9BC-3430	18	0.120	4	9" sq.	9	3/4"x30"	18.3	458	13.7	344	10.4	261	8.0	201	7.1	177	6.2	154	4.8	119	3.6	91	2.8	70	2.3	60	2.0	60	1.6	60
RSSP-20-4R-11G-9BC-3430	20	0.120	4	9" sq.	9	3/4"x30"	15.7	393	11.6	289	8.6	216	6.5	162	5.5	139	4.8	120	3.5	88	2.5	62	1.8	60	1.4	60	1.1	60	0.9	60
RSSP-20-4R-7G-9BC-3430	20	0.188	4	9" sq.	9	3/4"x30"	20.0	500	19.6	489	15.1	378	11.8	294	10.5	262	9.3	232	7.3	183	5.7	144	4.6	116	3.9	98	3.3	84	2.9	72
RSSP-20-5R-11G-9BC-3430	20	0.120	5	9" sq.	9	3/4"x30"	20.0	500	19.7	491	14.9	374	11.5	288	10.1	253	9.0	226	7.4	186	6.2	156	5.2	131	4.5	112	3.8	96	3.3	83
RSSP-20-5R-7G-9BC-3430	20	0.188	5	9" sq.	9	3/4"x30"	20.0	500	20.0	500	20.0	500	16.2	406	14.4	361	13.0	325	10.8	271	9.1	228	7.8	195	6.7	167	5.8	146	5.1	127
RSSP-22-4R-11G-12BC-136	22	0.120	4	12" sq.	12	1"x36"	12.3	308	8.9	222	6.4	161	4.6	115	3.9	97	3.2	80	2.1	60	1.3	60	0.7	60	0.5	60	0.3	60	0.1	60
RSSP-22-4R-7G-12BC-136	22	0.188	4	12" sq.	12	1"x36"	20.0	500	15.6	389	11.8	295	9.0	226	8.0	199	7.0	174	5.3	133	4.0	100	3.1	77	2.6	64	2.2	60	1.8	60
RSSP-22-5R-11G-12BC-136	22	0.120	5	12" sq.	12	1"x36"	20.0	500	15.4	385	11.5	287	8.6	215	7.5	187	6.6	164	5.4	134	4.4	110	3.7	92	3.1	77	2.6	65	2.2	60
RSSP-22-5R-7G-12BC-136	22	0.188	5	12" sq.	12	1"x36"	20.0	500	20.0	500	20.0	500	15.8	396	14.1	351	12.7	316	10.5	263	8.9	221	7.5	188	6.5	162	5.6	140	4.9	122
RSSP-25-4R-11G-12BC-136	25	0.120	4	12" sq.	12	1"x36"	9.7	242	6.7	167	4.5	112	2.9	72	2.3	60	1.7	60	0.7	60	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
RSSP-25-4R-7G-12BC-136	25	0.188	4	12" sq.	12	1"x36"	17.1	428	12.5	313	9.3	231	6.8	170	5.8	145	5.0	124	3.5	88	2.4	60	1.6	60	1.2	60	0.9	60	0.7	60
RSSP-25-5R-11G-12BC-136	25	0.120	5	12" sq.	12	1"x36"	16.9	423	12.1	302	8.7	217	6.2	154	5.1	128	4.4	110	3.5	87	2.7	68	2.2	60	1.7	60	1.4	60	1.1	60
RSSP-25-5R-7G-12BC-136	25	0.188	5	12" sq.	12	1"x36"	20.0	500	20.0	500	16.4	409	12.5	312	10.9	272	9.7	243	8.0	200	6.7	167	5.6	140	4.8	119	4.0	101	3.5	87
RSSP-26-4R-11G-12BC-136	26	0.120	4	12" sq.	12	1"x36"	8.9	222	6.0	150	3.9	98	2.4	60	1.7	60	1.2	60	0.3	60	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
RSSP-26-4R-7G-12BC-136	26	0.188	4	12" sq.	12	1"x36"	16.1	401	11.6	290	8.5	212	6.2	154	5.2	130	4.4	109	3.0	74	1.9	60	1.2	60	0.8	60	0.6	60	0.3	60
RSSP-26-5R-11G-12BC-136	26	0.120	5	12" sq.	12	1"x36"	13.3	333	11.1	278	7.9	196	5.4	135	4.4	111	3.7	93	2.9	72	2.3	60	1.8	60	1.4	60	1.1	60	0.8	60
RSSP-26-5R-7G-12BC-136	26	0.188	5	12" sq.	12	1"x36"	12.1	302	16.1	403	13.9	347	11.5	287	10.0	249	8.9	222	7.3	182	6.0	150	5.0	125	4.2	106	3.6	89	3.1	77
RSSP-28-4R-7G-12BC-136	28	0.188	4	12" sq.	12	1"x36"	14.1	353	10.0	250	7.1	177	4.9	122	4.0	100	3.3	82	2.0	60	1.0	60	0.3	60	0.1	60	0.0	-	0.0	-
RSSP-28-5R-11G-12BC-136	28	0.120	5	12" sq.	12	1"x36"	13.6	341	9.4	234	6.3	158	4.0	101	3.1	78	2.5	63	1.8	60	1.3	60	0.9	60	0.6	60	0.4	60	0.2	60
RSSP-28-5R-7G-12BC-136	28	0.188	5	12" sq.	12	1"x36"	20.0	500	17.8	445	13.1	329	9.7	242	8.3	207	7.2	181	5.9	147	4.8	120	3.9	98	3.2	81	2.7	68	2.3	60
RSSP-28-6R-7G-12BC-136	28	0.188	6	12" sq.	12	1"x36"	20.0	500	20.0	500	20.0	500	17.0	425	15.4	385	14.0	349	11.6	290	9.7	243	8.2	206	7.1	177	6.1	152	5.3	132
RSSP-30-5R-11G-12BC-136	30	0.120	5	12" sq.	12	1"x36"	11.7	293	7.8	194	4.9	122	2.8	69	1.9	60	1.4	60	0.8	60	0.4	60	0.1	60	0.0	-	0.0	-	0.0	-
RSSP-30-6R-11G-12BC-136	30	0.120	6	12" sq.	12	1"x36"	18.6	466	12.9	321	9.0	225	7.0	175	6.2	154	5.5	136	4.3	108	3.5	87	2.8	69	2.2	60	1.8	60	1.4	60
RSSP-30-5R-7G-12BC-136	30	0.188	5	12" sq.	12	1"x36"	20.0	500	15.6	391	11.3	282	8.1	201	6.8	169	5.8	146	4.6	115	3.7	92	3.0	74	2.4	60	1.9	60	1.5	60
RSSP-30-6R-7G-12BC-136	30	0.188	6	12" sq.	12	1"x36"	20.0	500	20.0	500	18.6	465	14.9	371	13.4	334	12.1	303	10.0	250	8.3	208	7.0	176	6.0	149	5.1	127	4.4	110

*Pole Assemblies With EPA>9.0 Require Specific Review

***Anchor Bolts are NOT included with Custom Bolt Circle.
*Do NOT pour concrete referencing this drawing. Consult Factory.**

***All wind loading calculations are based on sustained wind force plus an additional 1.3 gust.**

MOUNTING CONFIGURATION



Single
(SGL)



Double
(D-90)



Double
(D-180)



Triple
(T-90)



Triple
(T-120)



Quad
(QD)

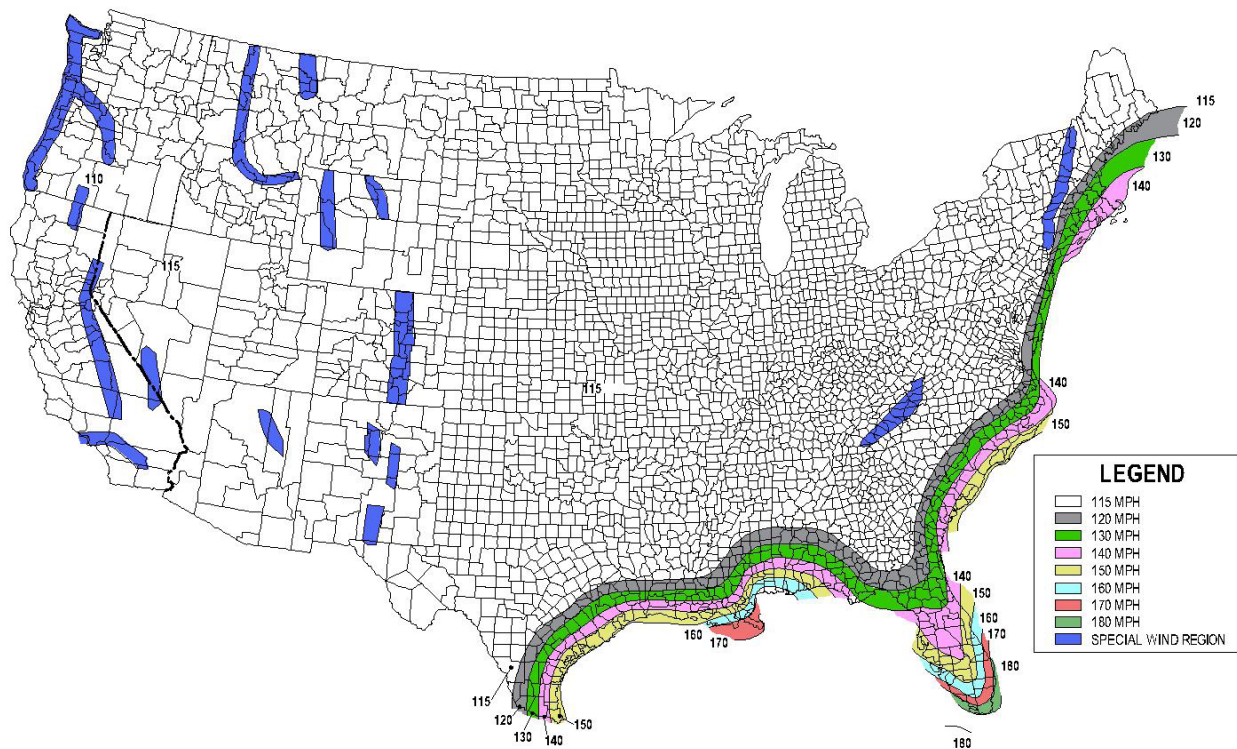
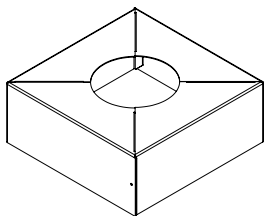
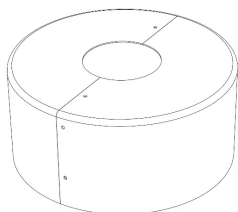


FIG. 3.8-1b - 700-Year MRI Basic Wind Speed, mph (AASHTO LRFDLTS-1)

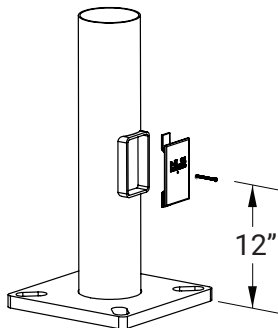
- 1) All wind load calculations are based on sustained wind force plus and additional 1.3 gust
- 2) Wind Map is to be used as a reference only. Please coordinate with local agencies for further review.
- 3) Wind Map values are based on a 50 year mean recurrence. These values do not account for severe conditions, such as hurricanes, tornadoes, etc...
- 4) For review of poles with additional configurations (arms, banners, shorter/longer pole lengths, etc...), please contact factory.



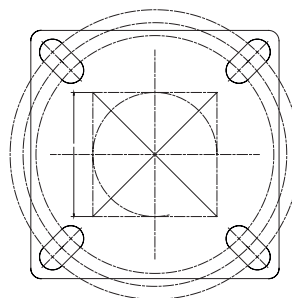
Base Cover



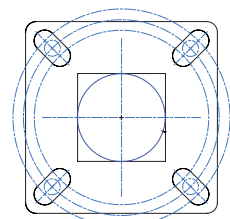
**Optional Round
Base Cover**



Base Detail



12" Base Detail



9" Base Detail