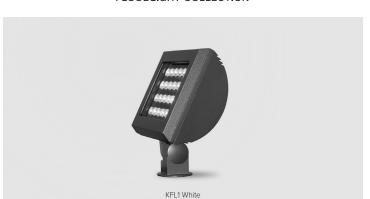




DATE: LOCATION: TYPE: PROJECT:

Architectural



RELATED PRODUCTS

Ouro Pavilion Intent

FEATURES

- · Lumen range from 5,000 to 7,000 lm
- Color Temperature 3000K, 4000K, 5,000K at 70 and 80 CRI
- · Yoke and Threaded Knuckle mounting options
- 6 beam distributions and beam angles including: Narrow 17°x17°, Medium 28°x27°, Medium Flood 62°x61°, Wide 79°x64°, Horizontal 54°x22°, and Vertical 22°x54°











SPECIFICATIONS

CONSTRUCTION

- One piece die-cast, low copper (<0.6% Cu) Aluminum Alloy 360 with vents and .100" minimum wall thickness
- Finish: fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat.
- Lens is impact resistant 1/8" tempered glass with anti-reflective coating
- Lens has a one-piece extruded vulcanized silicone gasket
- Lens frame one piece die-cast, low copper (<0.6% Cu) Aluminum Alloy 360 and .100" minimum wall thickness
- Lens frame has a one-piece O-ring extruded vulcanized silicone gasket
- Mid-frame one piece die-cast, low copper (<0.6% Cu) Aluminum Alloy 360 and .100" minimum wall thickness
- Mid-frame secures to Lens Frame and housing by stainless steel recessed Allen-head screws
- · Silicone gaskets throughout
- · All external fasteners are stainless steel

OPTICS

- LEDs mount to a metal printed circuit board assembly (MCPCB)
- Optical lenses are clear injection molded PMMA acrylic

INSTALLATION

 Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury

CATALOG #

ELECTRICAL

- Universal voltage, 120 through 277V with a ±10% tolerance. Driver is Underwriters Laboratories recognized
- High voltage configurations, 347/480. Driver has a 0-10V dimming interface for multi-level illumination options. Driver is Underwriters Laboratories recognized
- "Thermal Shield", secondary side, thermistor provides protection for the sustainable life of LED module and electronic components
- Drivers shall have greater than a 0.9 power factor, less than 20% harmonic distortion, and be suitable for operation in -40°C to 40°C ambient environments
- Luminaire shall be capable of operating at 100% brightness in a 40°C environment. Both driver and optical array have integral thermal protection that will dim the luminaire upon detection of temperatures in excess of 85°C
- Dimming range from 10% to 100% through the use of standard 0-10V interface on the programmable driver
- Modular wiring harness in the service area provides user access to the dimming circuitry
- Optional factory programmed dimming profile

ELECTRICAL (CONTINUED)

- Surge protection: 10,000k in parallel, 20,000k in series
- SF for 120, 277, 347 Line volts
 DF for 208, 240, 480 Line volts
- Wiring: No. 18AWM rated 105°C, wet rating.

CERTIFICATIONS AND LISTINGS

- UL 1598 Standard for Luminaires.
- IP66 certified.
- 3G rated for ANSI C136.31 high vibration applications.
- · RoHS compliant.
- IEC 66262 Mechanical Impact Code IK08

WARRANTY

• 5 year warranty

KEY DATA				
Lumen Range	4,491–7,644			
Wattage Range	45–70			
Efficacy Range (LPW)	94.8–124.5			
Reported Life (Hours)	L70/60,000			
Weight	12 lbs 5.44 kg			
EPA Front View / Side View	.75 / .27			







DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

ORDERING GUIDE

Example: KFL2-24L-70-3K7-MF-UNV-K-GTT-BD

CATALOG #

HOUSING

KFL2																								
Housing LED Er		LED Eng	LED Engine		ED Engine		LED Engine		.ED Engine		ED Engine		ED Engine (ED Engine CCT/CRI Be		Bea	Beam Spread Voltage		ge	Mounting		Color	
KFL2	Architectural Floodlight		45W, 5,000 lm 70W, 7,000 lm	3K7 3K8 4K7 4K8	3000K, 70 CRI 3000K, 80 CRI 4000K, 70 CRI 4000K, 80 CRI	N M MF WF	Narrow Medium Medium Flood Wide Flood	UNV 347 480	120-277V 347V 480V	Y K		BLS BLT DBS	Black Gloss Smooth Black Matte Textured Dark Bronze Gloss Smooth											
				5K7 5K8	5000K, 70 CRI 5000K, 80 CRI	HF VF	Horizontal Flood Vertical Flood					GTT LGS LGT	Dark Bronze Matte Textured Graphite Matte Texture Light Grey Gloss Smooth Light Grey Matte Textured Platinum Silver Gloss											
												VGT WHS WHT	Smooth Verde Green Matte Textured White Gloss Smooth White Matte Textured											
													Option Custom Color											

Optio	ons	Opt	ical Options
SF	Single Fuse 120, 277, 347 Line Volts	BD	Barn Doors
DF	Double Fuse 208, 240, 480 Line Volts	HS	Half Glare Shield

Mounting Accessories

Mounting Access	sories	Acces	sories Color
JBR 2/3/21/24 ²	Brass In-Grade Architectural Junction Box	BLS	Black Gloss Smooth
JBR 4/5 ²	Composite In-Grade Architectural Junction Box	BLT	Black Matte Textured
JBR30 ²	(2) ½" NPT in bottom, (2) 19" long stakes Brass In-Grade Staked Junction Box	DBS	Dark Bronze Gloss Smooth
JBR32 ²	(2) ½" NPT in bottom, (2) 19" long stakes with 9' cord Brass In-Grade Staked Junction Box	DBT	Dark Bronze Matte Textured
J-27N	Surface Mount	GTT	Graphite Matte Textured
SM18	Stanchion Mount	LGS	Light Grey Gloss
SPM	Side Pole Mount		Smooth
JB1	Architectural Junction Box	LGT	Light Grey Matte Textured
WM	Wall or Ceiling Mount	PSS	Platinum Silver Gloss
WM1	Wall Mount		Smooth
TM2	Twin Mount	VGT	Verde Green Matte
PT	Post Top Mount		Textured
PT2	Twin Post Top Mount	WHS	White Gloss Smooth
		WHT	White Matte Textured
		Color	Option
		CC ¹	Custom Color

Notes:

- 1 Consult factory for custom color, marine and corrosive finish options
 - See pages 4 & 5 for additional detail on mounting options







DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

DELIVERED LUMENS

LEDa	Naminal	Manainal		Deam	3000K 70CRI		4000K 70CRI			5000K 70CRI									
LEDs #	Nominal Watts	Nominal Lumens	Distribution	Beam Angles	Lumen	Center Beam Candlepower	lm/w	Lumen	Center Beam Candlepower	lm/w	Lumen	Center Beam Candlepower	lm/w						
			N	17° × 17°	4944	39687	111.3	5082	40795	114.4	5276	42352	118.6						
			М	26° x 26°	5028	18739	113.2	5168	19261	116.3	5365	19995	120.3						
2.41	45	E 000 l	MF	61° x 62°	4645	5414	104.5	4774	5564	107.4	4956	5776	111.7						
24L	45	5,000 lm	WF	81° x 78°	5186	3888	116.7	5331	3997	120.0	5534	4149	124.5						
			HF	52° x 21°	4527	8364	101.9	4654	8599	104.7	4831	8926	108.7						
			VF	21° x 52°	4491	8389	101.1	4616	8622	103.9	4792	8951	108.4						
			N	17° × 17°	7045	56552	104.4	7241	58125	107.3	7517	60341	111.4						
			М	26° x 26°	7163	26700	106.1	7363	27445	109.1	7644	28489	113.2						
2.41	70 7,000 lm	70001	70001		70001		70001	70001	MF	61° x 62°	6617	7720	98.0	6802	7936	100.8	7061	8238	104.6
24L		7,000 lm	WF	81° x 78°	7389	5540	109.5	7595	5694	112.5	7884	5911	116.8						
			HF	52° x 21°	6450	11917	95.6	6630	12250	98.2	6883	12717	102.0						
				VF	21° x 52°	6398	11949	94.8	6577	12285	97.4	6827	12752	101.1					

CRI Lumen Multiplier					
ССТ	80 CRI				
3000K	0.9408				
4000K	0.9067				



Page 3 of 9



KFL2

STATIC WHITE ARCHITECTURAL FLOOD

DATE: LOCATION: TYPE: PROJECT:

CATALOG #

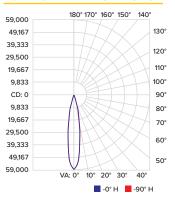
PHOTOMETRY

KFL2-24L-70-4K7-N

LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	3916
Watts	36.37
Efficacy	107.7
Beam Angles (H x V)	16.7° x 16.5°
Center Beam Candlepower	33469

POLAR CANDELA DISTRIBUTION



ILLUMINANCE AT A DISTANCE



LUMENS PER ZONE

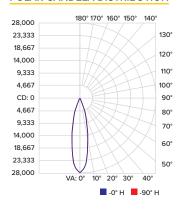
Zone	Lumens	% Total
0-10	3,649.4	50.10%
43758	2,448.3	33.60%
20-30	572.6	7.90%
30-40	245.7	3.40%
40-50	149.7	2.10%
50-60	110.2	1.50%
60-70	70.0	1.00%
70-80	31.1	0.40%
80-90	5.0	0.10%

KFL2-24L-70-4K7-M

LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	3954
Watts	36.37
Efficacy	108.7
Beam Angles (H x V)	27.8° x 26.8°
Center Beam Candlepower	13935

POLAR CANDELA DISTRIBUTION



ILLUMINANCE AT A DISTANCE



LUMENS PER ZONE

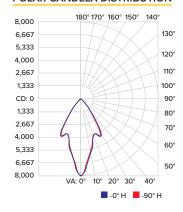
Zone	Lumens	% Total
0-10	2,066.6	28.0%
10-20	3,175.5	43.0%
20-30	1,427.3	19.3%
30-40	371.3	5.0%
40-50	149.0	2.0%
50-60	102.2	1.4%
60-70	59.4	0.8%
70-80	25.7	0.3%
80-90	4.7	0.1%

KFL2-24L-70-4K7-MF

LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	3860
Watts	36.37
Efficacy	106.1
Beam Angles (H x V)	62.4° x 61.2°
Center Beam Candlepower	4146

POLAR CANDELA DISTRIBUTION



ILLUMINANCE AT A DISTANCE



LUMENS PER ZONE

Zone	Lumens	% Total
0-10	606.2	8.9%
10-20	1,334.1	19.6%
20-30	2,010.0	29.5%
30-40	1,676.4	24.6%
40-50	660.7	9.7%
50-60	270.1	4.0%
60-70	165.1	2.4%
70-80	73.0	1.1%
80-90	13.7	0.2%





LOCATION: DATE: TYPE: PROJECT:

CATALOG #

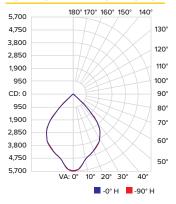
PHOTOMETRY CONTINUED

KFL2-24L-70-4K7-WF

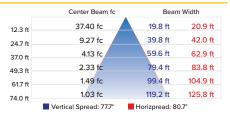
LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	3923
Watts	36.37
Efficacy	107.9
Beam Angles (H x V)	78.7° x 63.7°
Center Beam Candlepower	3160

POLAR CANDELA DISTRIBUTION



ILLUMINANCE AT A DISTANCE



LUMENS PER ZONE

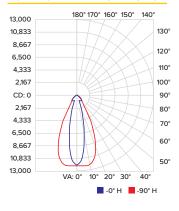
Zone	Lumens	% Total
0-10	509.1	6.7%
10-20	1,315.9	17.3%
20-30	1,891.8	24.9%
30-40	2,115.4	27.8%
40-50	1,418.6	18.7%
50-60	274.2	3.6%
60-70	50.8	0.7%
70-80	20.9	0.3%
80-90	5.8	0.1%

KFL2-24L-70-4K7-HF

LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	3539
Watts	36.37
Efficacy	97.3
Beam Angles (H x V)	54° x 22°
Center Beam Candlepower	6652

POLAR CANDELA DISTRIBUTION



ILLUMINANCE AT A DISTANCE



LUMENS PER ZONE

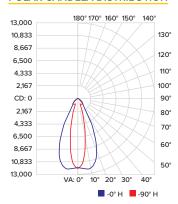
Zone	Lumens	% Total
0-10	1,029.5	15.5%
10-20	1,831.4	27.6%
20-30	1,149.4	17.3%
30-40	821.8	12.4%
40-50	833.7	12.5%
50-60	610.2	9.2%
60-70	263.2	4.0%
70-80	90.6	1.4%
80-90	14.5	0.2%

KFL2-24L-70-4K7-VF

LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	3489
Watts	36.37
Efficacy	95.9
Beam Angles (H x V)	22° x 54°
Center Beam Candlepower	6622

POLAR CANDELA DISTRIBUTION



ILLUMINANCE AT A DISTANCE



LUMENS PER ZONE

Zone	Lumens	% Total
0-10	1,030.5	15.6%
10-20	1,834.5	27.8%
20-30	1,111.3	16.9%
30-40	808.0	12.3%
40-50	829.7	12.6%
50-60	612.3	9.3%
60-70	261.8	4.0%
70-80	88.4	1.3%
80-90	14.4	0.2%







LOCATION: DATE:

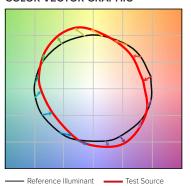
PROJECT:

CATALOG #:

TYPE:

TM-30 DATA

COLOR VECTOR GRAPHIC



TEST SOURCE

$R_{\rm f}$	68
Rg	99
CCT(K)	3947
D_{UV}	0.0004
х	0.3831
у	0.3793
CIE Ra	72

SPECTRAL POWER DISTRIBUTION COMPARISON Test Source Reference Source 100% 80% Relative Power 60% 40% 20% 0% 380 430 480 580 630 680 730 780

Wavelength (nm)

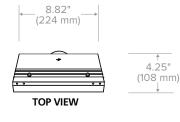
ELECTRICAL DATA

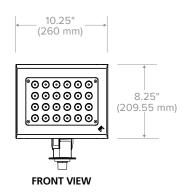
	Electrical											Dimming					
Light	System	Drive	Line Voltage			Amps AC			Min. Power	Max	Dimming		current 0-10V		e voltage n 0-10V (+)		
Engine	Watts	Current	VAC	Hz	120	208	240	277	347	480	Factor	THD (%)	Range	Min	Max	Min	Max
2.41	45	550 mA	120 100	E0/60	0.38	0.22	0.19	0.16	0.13	0.09	.00	20	10% to	0 1	1 1	0) (10) /
24L	70	850 mA	120-480	50/60	0.58	0.34	0.29	0.25	0.20	0.15	>0.9	20	100%	0mA	1mA	OV	10V

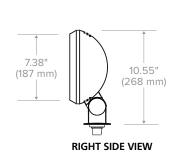
TM-21 Lifetime Calculation - Projected Lumen Maintenance (25°C / 77°C)								
Hours	0	25,000	36,000	50,000	100,000	Reported L70		
Projected Lumen Maintenance	100%	97.21%	95.78%	93.98%	87.83%	> 60,000		

CRI Multiplier					
ССТ	Multiplier				
3000K	0.9119				
4000K	0.8941				
5000K	0.8625				

DIMENSIONS



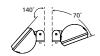




AIMING INFORMATION

THREADED KNUCKLE

AIMING RANGE May be limited by selected mounting option YOKE AIMING RANGE



YOKE AIMING RANGE WITH **GROUND RESTRICTIONS**









DATE:	LOCATION:
TYPE:	PROJECT:

CATALOG #:

PRODUCT EXCEPTIONS & DETAILS

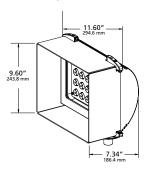
OPTICAL OPTIONS

BARN DOORS (BD)

 Formed 3/32" thick aluminum. Each door is hinged to a cast, low copper (<0.6% Cu) aluminum frame, and locks by set screws.
 Doors are individually removable. Barn Door assembly mounts to predrilled door frame holes. Assembly will be painted to match fixture housing.

CAUTION:

• Not recommended for ground mounted fixtures in vandal prone areas.

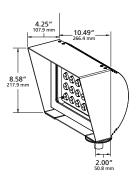


HALF GLARE SHIELD (HS)

 Formed 3/32" thick aluminum. Mounts to predrilled door frame holes. Can be mounted along the top or bottom of the fixture to shield the lamp and lens from view. Assembly will be painted to match fixture housing.

CAUTION:

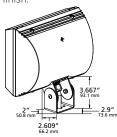
 Not recommended for ground mounted fixtures in vandal prone areas.



MOUNTING OPTIONS

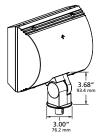
ARCHITECTURAL YOKE (Y)

- Architectural Yoke Mount used for surface mounting applications. Secured to surface using two 1/4" bolts.
- Yoke is stainless steel material with powder coating finish.



THREADED KNUCKLE (K)

- Threaded Knuckle is die-cast aluminum with integral locking teeth providing 5° adjustment intervals. Stainless steel allen-head screw with spring locking washer and 1/2" NPSM. Clear anodized prior to chromate conversion coating for added corrosion resistance.
- Threaded Knuckle mounting used in conjunction with mounting accessories listed on page 1.







DATE:	LOCATION:
TYPE:	PROJECT:

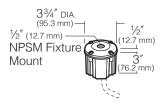
CATALOG #:

PRODUCT EXCEPTIONS & DETAILS CONTINUED

MOUNTING ACCESSORIES

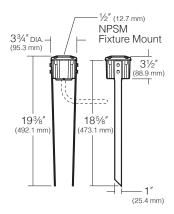
BRASS IN-GRADE ARCHITECTURAL JUNCTION BOX (THREADED KNUCKLE MOUNT ONLY)

- JBR-2 (2) 1/2" NPT in bottom
- JBR-3. (2) 3/4" NPT in bottom
- JBR21 (2) 1/2" NPT in sides (2) 1/2" NPT in bottom
- **JBR24** (4) ½" NPT in sides (2) ½" NPT in bottom
- Die-cast brass with 1/2" NPSM fixture mount and die-cast cover. Internal set screw provided for locking position. 21 cu in. internal volume.
 NOTE: All side taps provided with plugs.
 Creates a flush-mounted appearance.
 May be cast in concrete for increased stability.
 CAUTION: Fixture stem and swivel must not contact soil or standing water. Provide drainage away from junction box.



BRASS IN-GRADE STAKED JUNCTION BOX (THREADED KNUCKLE MOUNT ONLY)

- JBR-30 (2) ½" NPT in bottom, (2) 19" long stakes Brass In-Grade Staked Junction Box
- JBR-32. (2) 19" long stakes
- Die-cast brass with 1/2" NPSM fixture mount and die-cast cover. Internal set screw provided for locking position. 21 cu in. internal volume. Creates a flush-mounted appearance. May be cast in concrete for increased stability.
 CAUTION: To assure a rigid installation, Staked Junction Box must be set in concrete (by others). Fixture stem and swivel must not contact soil or standing water. Provide drainage away from junction box.

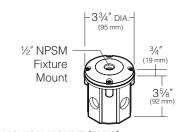


COMPOSITE IN-GRADE ARCHITECTURAL JUNCTION BOX

- JBR-4 (2) ½" NPT knock-outs in bottom (4) ½" NPT knock-outs on sides at 90°
- JBR-5 Same as above but with brass cover
- Composite box with ½" NPSM fixture mount and composite cover. Internal set screw provided for locking position. 19 cu in. internal volume.

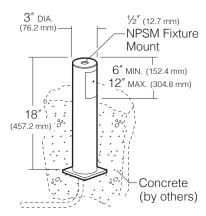
NOTE: May also be used to hard mount low voltage fixtures

CAUTION: Fixture stem and swivel must not contact soil or standing water. Provide drainage away from junction box.



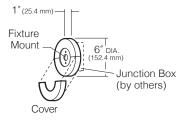
STANCHION MOUNT (SM18) (THREADED KNUCKLE MOUNT ONLY)

3" O.D. by .188" wall cast low copper (<0.6% Cu) aluminum with 1/2" NPSM fixture mount and hand hole with flush cover. Internal set screw fixture lock accessible through hand hole. Internal ground lug supplied with installed lead. CAUTION: To assure a rigid installation, stanchion must be set in concrete (by others).



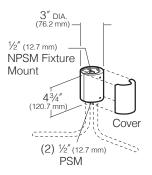
WALL OR CEILING MOUNT (WM) (THREADED KNUCKLE MOUNT ONLY)

 Electro zinc steel mounting plate adapts to standard 4" square or octagonal Junction Boxes. Fixture mounts to cast low copper (<0.6% Cu) aluminum upper cover which attaches to mounting plate. Lower cover half provides splice access. Dielectric sealing compound provided for wall interface.



ARCHITECTURAL JUNCTION BOX (JB1) (THREADED KNUCKLE MOUNT ONLY)

 Die-cast, low copper (<0.6% Cu) anodized aluminum with 1/2" NPSM fixture mount.
 Internal set screw provided for locking position.
 Two 1/2" NPSM in bottom, 17 cu in. internal volume. CAUTION: Junction Box must be installed high enough to avoid contact with soil or standing water.



notice. All values are design or typical values when measured under laboratory conditions.





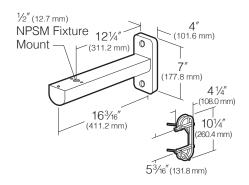
DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

PRODUCT EXCEPTIONS & DETAILS CONTINUED

MOUNTING ACCESSORIES

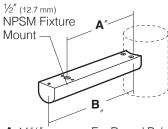
WALL MOUNT (WM1) (THREADED KNUCKLE MOUNT ONLY)

Extruded aluminum arm with a removable end cap for wiring access. Arm is welded to a cast aluminum plate with two 1/2" dia. mounting holes. Optional Wall Embedment Bracket (WEB) provides 3/8-16 bolt receptacles welded in a galvanized re-bar cage for casting into poured-in-place concrete walls. Bolt receptacles receive fixture attachment bolts. Component EPA: 0.3.



SIDE POLE MOUNT (SPM-X) (THREADED KNUCKLE MOUNT ONLY)

Available for Round and Square Poles. Extruded aluminum arm. Internal set screw fixture lock. Removable end cap for wiring access. For use with other Kim Site/Roadway Luminaires as an additional mid-pole floodlight. X in Side Pole Mount Cat. No. indicates 3", 3-1/2", 4", 5" or 6" pole dia. Example: SPM-4/BL is for 4" round pole with Black finish. For square poles, omit -X. NOTE: Field drilling of Poles is required. Component EPA: 0.3.

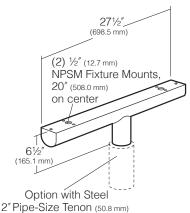


A 11½"(292.1 mm) For Round Poles 12"(304.8 mm) For Square Poles

B 153/8"(390.5 mm) For Round Poles 151/8" (403.2 mm) For Square Poles

TWIN MOUNT (TM2) (THREADED KNUCKLE MOUNT ONLY)

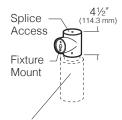
• Extruded aluminum arm. Internal set screw fixture locks. Can be mounted on a SM2, SMT, or Steel Kim Pole with steel 2" pipe-size tenon (2-3/8" O.D. x 3-1/2" min. length). Removable end caps for wiring access. CAUTION: Approved for mounting to poles with steel tenons only. Component EPA: 0.6.



(SM2, SMT, or KIM Pole)

POST TOP MOUNT (PT) (YOKE MOUNT ONLY)

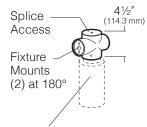
 Cast aluminum mount for pole or other mounting option with 2" pipe-size tenon (2-3/8" O.D. x 3-1/2" minimum length). Fixture attaches with concealed internal studs, mounting is with 1/4-20 allen set screws. Top cap provides splice access. Component EPA: 0.7.



Option with 2" Pipe-Size Tenon (50.8 mm) (WM2, SMT, SM2, M2B, M3E, or KIM Pole)

TWIN POST TOP MOUNT (PT2) (YOKE MOUNT ONLY)

 Cast aluminum mount for pole or other mounting option with 2" pipe-size tenon (2-3/8" O.D. x 3-1/2" minimum length). Fixture attaches with concealed internal studs, mounting is with 1/4-20 allen set screws. Top cap provides splice access. NOTE: Not for use with SMT, SPT, WM2, M2B, or M3E options. Component EPA: 0.1.



Option with 2" Pipe-Size Tenon (50.8 mm) (SM2 or KIM Pole)