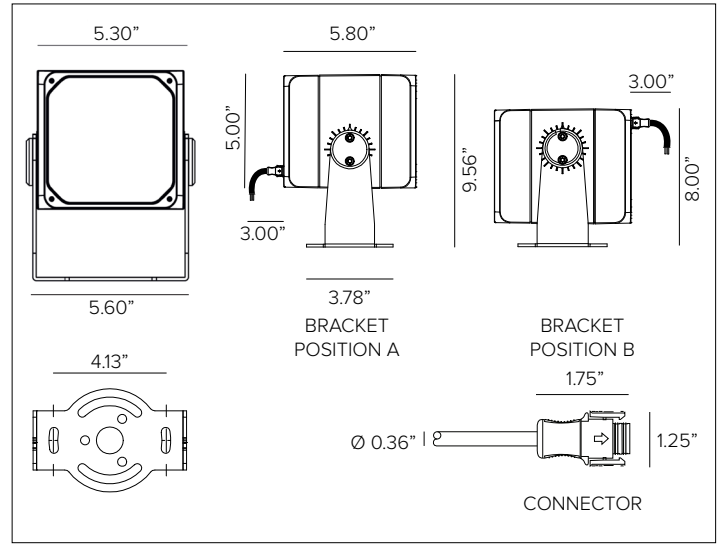


# DART MEDIUM EVENT POLE

## Multi-headed Event Pole with Professional Adjustable Floodlight Projector



### CONCEPT

Event pole with small footprint adjustable LED projector.

### FIXTURE MECHANICAL CHARACTERISTICS

<b>Housing</b>	5.30"W x 5.80"D
<b>Materials</b>	Die-cast aluminum powder coated body and joints for maximum heat dissipation.
<b>Finish</b>	Textured finish. ● Ferrite Dark Grey
<b>Power Connection</b>	Cabled with 10ft SJ00W 16-6 cable and DSM&T anti-wicking quick disconnect.
<b>Functionality</b>	Adjustable up to ±45° on the horizontal pane and +90°/-45° on the vertical plane with aim locking set screw.
<b>Weight</b>	6.5lbs ea.
<b>Protection</b>	IP66
<b>Resistance</b>	IK10

### POLE MECHANICAL CHARACTERISTICS

<b>Materials</b>	Hot-galvanized EN ISO 1461. Integral hatch door for utility power.
<b>Finish</b>	Textured finish. ● Ferrite Dark Grey
<b>Foundation</b>	<b>(16'19')</b> 39.4" x 39.4" x 39.4"H / <b>(22')</b> 47.2" x 47.2" x 47.2"H
<b>Anchor Bolts</b>	(4pcs) 3/4" x 24" x 3" J-Bolts included
<b>Horizontal Displacement</b>	<b>(16')</b> CL1 / <b>(19')</b> CL2 / <b>(22')</b> CL3
<b>Thickness</b>	0.12"
<b>MPH</b>	140mph
<b>EPA</b>	<b>(16')</b> 1.032 sqft (4 fixtures max) / <b>(19')</b> 2.064 sqft (8 fixtures max) / <b>(22')</b> 3.096 sqft (12 fixtures max) / <b>(Individual fixture)</b> 0.258 sqft

### CERTIFICATIONS

cULus Wet Location Listed.  
 Tested in accordance with LM-79-08.  
 Compliant for California installations.  
 IEC 62471  
 RoHS3 EU 215/863

### WARRANTY

5 year limited warranty  
 ^ Consult factory for use in marine grade environments.

### ELECTRICAL CHARACTERISTICS

<b>Power Supply</b>	Integrated 4/1 smart driver (Non-Dimmable / 0-10V / Reverse Phase / Forward Phase).
<b>Wattage</b>	19W (NSP) / 36W nominal (SP / FL / MWFL / WFL / NASYM / ASYM)
<b>Voltage</b>	Universal Voltage 120-277V AC 50/60Hz

### SOURCE

NSP optic uses high efficiency LED Emitter. SP / FL / MWFL / WFL / NASYM / ASYM optics use high efficiency LED Chip on Board.

TM30	CCT (Nominal)	CRI	Rf	Rg	MR	SDCM
	2700K	81	80	97	2	2
	3000K	82	82	97	2	2
	3500K	82	81	97	2	2
	4000K	82	81	97	2	2

Ra90 available upon request

### OPTIC

Optical system is dependent on beam angle. NSP version comprised of methacrylate lenses. SP and FL versions comprised with a hybrid optic system. MWFL and WFL versions comprised of precision optics with convex reflective anodized aluminum facets. NASYM and ASYM version comprised of reflective pre-anodized brushed aluminum optic.

Beam	NSP 10°	SP 14°	FL 32°	MWFL 48°	WFL 62°	NASYM 41°x52°	ASYM 51°x83°
<b>Delivered Lumens</b>	<b>3000K</b> 1008Lm 2560Lm 2403Lm 4145Lm 4169Lm 3845Lm 3526Lm	<b>4000K</b> 1068Lm 2581Lm 2422Lm 4244Lm 4269Lm 3938Lm 3611Lm					

*For 2700K lumen values use multiplier of 0.96 from 3000K For 3500K lumen values use multiplier of 1.02 from 3000K.*

<b>Efficacy</b>	129Lm/W max. Refer to photometric graphs for specific values.
<b>Lifetime</b>	NSP: L96/B10 30,000hrs / L95/B10 50,000hrs at max TA +25°C SP / FL: L89/B10 30,000hrs / L85/B10 50,000hrs / L78/B10 80,000hrs / L74/B10 100,000hrs at max TA +25°C MWFL / WFL / NASYM / ASYM: L91/B10 30,000hrs / L88/B10 50,000hrs / L84/B10 80,000hrs / L81/B10 100,000hrs at max TA +25°C

**Photobiological Classification** Low risk safety RG1

# DART MEDIUM EVENT POLE

## FIXTURE SPECIFICATION INFORMATION

DAM							8	9	10	11
1	2	3	4	5	6	7	REQUIRED		OPTIONAL	

Ex: DAM41FEL1NS30PM / 1USP01FE16S / 1USP01BKTFS

1 - PRODUCT CODE	2 - DRIVER	3 - FINISH	4 - WATTAGE	5 - OPTIC	6 - KELVIN	7 - CABLE
DAM — DART MEDIUM	41 — 4/1 Smart Dimming (Non-Dimming / 0-10V / Reverse Phase / Forward Phase)	FE — Ferrite Dark Grey	L1 <sup>c</sup> — 19W L2 <sup>d</sup> — 36W	NS <sup>a</sup> — NSP 10° SP — SP 14° FL — FL 32° MF — MWFL 48° WF — WFL 62° NA — NASYM 41°x52° AS — ASYM 51°x83°	27 — 2700K 30 — 3000K 35 — 3500K 40 — 4000K	PM — 25ft Cable
8 - EVENT POLE	9 - MOUNTING BRACKET	10 - POLE ACCESSORIES	11 - OPTICAL ACCESSORIES			
<a href="#">16ft Pole</a> See section for details	<a href="#">1 Fixture Bracket</a> See section for details	<a href="#">Decorative Base Cover</a> See section for details	<a href="#">Filter Holder Ring</a> See section for details			
<a href="#">19ft Pole</a> See section for details	<a href="#">2 Fixture Bracket</a> See section for details		<a href="#">Blade Light Linear Spread Lens</a> See section for details			
<a href="#">22ft Pole</a> See section for details	<a href="#">3 Fixture Bracket</a> See section for details		<a href="#">Anti-glare Louver</a> See section for details			
	<a href="#">4 Fixture Bracket</a> See section for details		<a href="#">Asymmetric Snoot</a> See section for details			

<sup>a</sup> NS option not available in 2700K or 3500K.

<sup>c</sup> 19W available in NSP optic only.

<sup>d</sup> 36W available in SP / FL / MWFL / WFL / NASYM / ASYM optics only.



## OPTIC VERSIONS

NSP OPTIC ONLY



SP / FL OPTICS



MWFL / WF OPTICS



NASYM / ASYM OPTICS



# DART MEDIUM EVENT POLE

## 8 - EVENT POLE (REQUIRED)

16ft round powder coated steel pole. Hot-galvanized EN ISO 1461 with integral hatch door for utility power. Maximum of 1 bracket (4 fixtures).

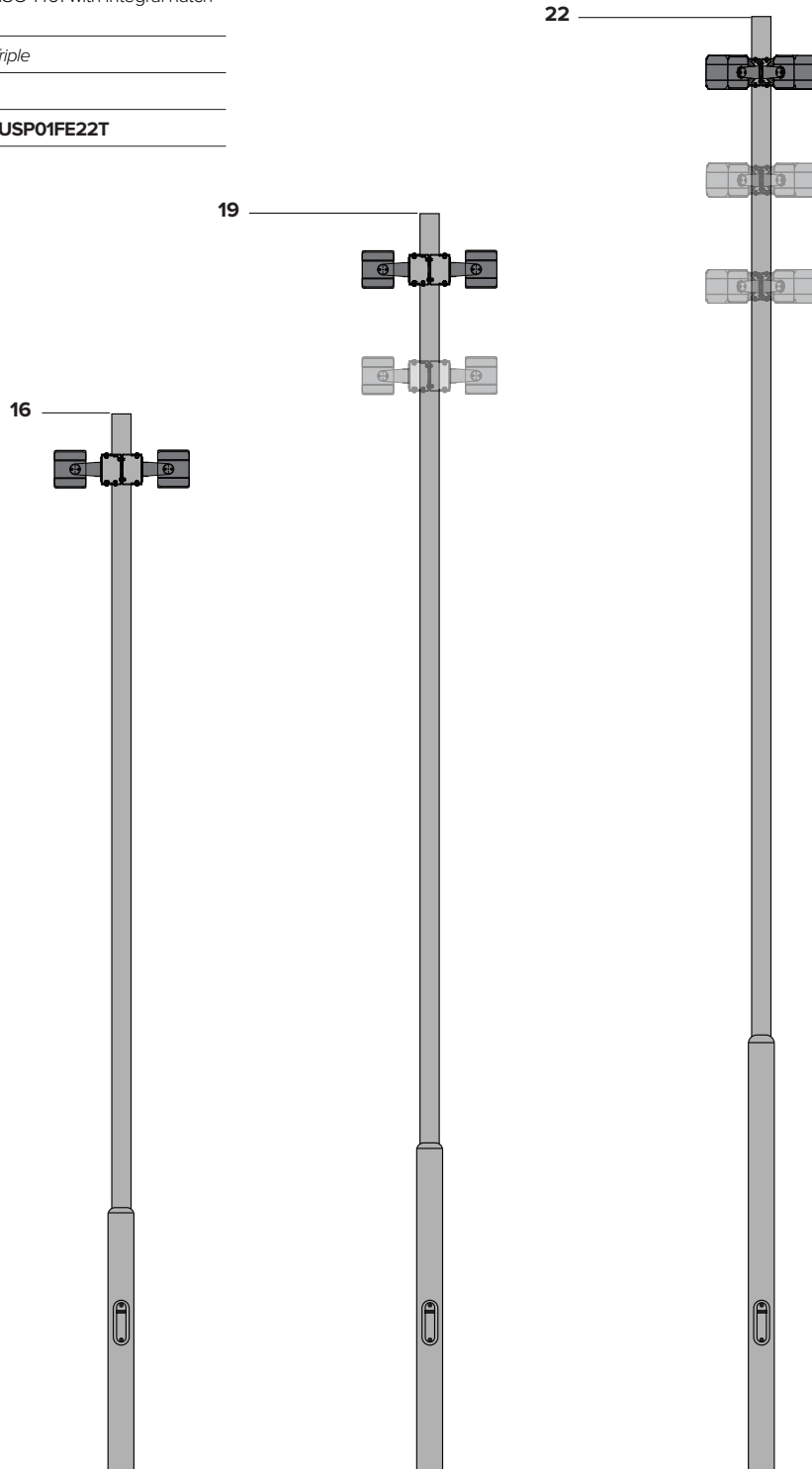
Level	Single
Finish	● Ferrite Dark Grey
Part No.	<b>1USP01FE16S</b>

19ft round powder coated steel pole. Hot-galvanized EN ISO 1461 with integral hatch door for utility power. Maximum of 2 brackets (8 fixtures).

Level	Single	Dual
Finish	● Ferrite Dark Grey	
Part No.	<b>1USP01FE19S</b>	<b>1USP01FE19D</b>

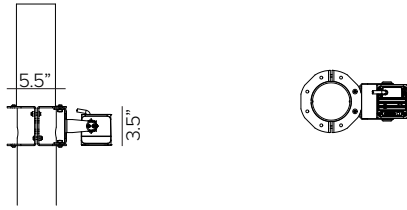
22ft round powder coated steel pole. Hot-galvanized EN ISO 1461 with integral hatch door for utility power. Maximum of 3 brackets (12 fixtures).

Level	Single	Dual	Triple
Finish	● Ferrite Dark Grey		
Part No.	<b>1USP01FE22S</b>	<b>1USP01FE22D</b>	<b>1USP01FE22T</b>



# DART MEDIUM EVENT POLE

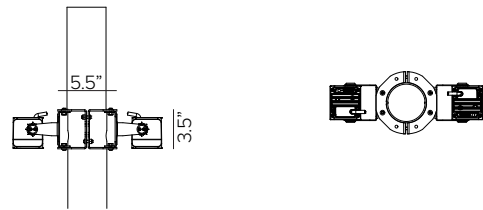
## 9 - MOUNTING BRACKET (REQUIRED)



Mounting bracket, 1 fixture

Finish ● Ferrite Dark Grey

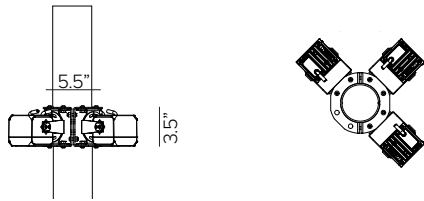
Part No. **1USP01BKTFES**



Mounting bracket, 2 fixtures

Finish ● Ferrite Dark Grey

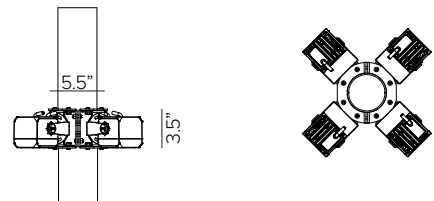
Part No. **1USP01BKTFED**



Mounting bracket, 3 fixtures

Finish ● Ferrite Dark Grey

Part No. **1USP01BKTFET**

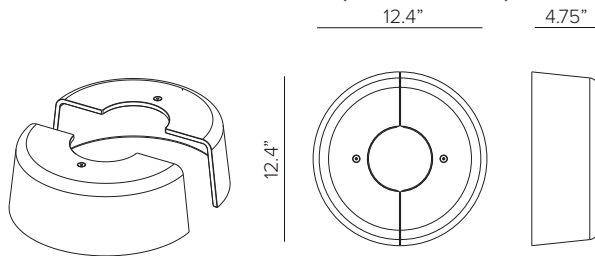


Mounting bracket, 4 fixtures

Finish ● Ferrite Dark Grey

Part No. **1USP01BKTFEQ**

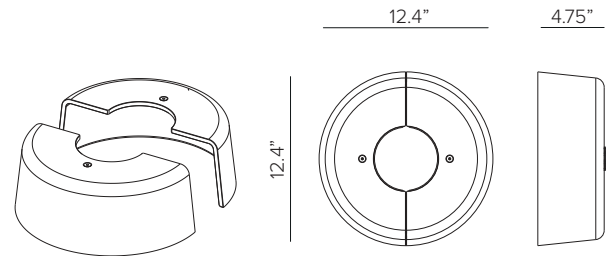
## 10 – POLE ACCESSORIES (OPTIONAL)



Aluminum decorative pole base cover.

Finish ● Ferrite Dark Grey

Part No. **1USP01CVR02FE**



Iron decorative pole base cover. To be used in environments that may have impact.

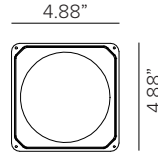
Finish ● Ferrite Dark Grey

Part No. **1USP02CVR01FE**

# DART MEDIUM EVENT POLE

## 11 – OPTICAL ACCESSORIES (OPTIONAL)

MAXIMUM OF TWO ACCESSORIES PER FIXTURE.



Holder ring. CNC machined anodized and powder coated aluminum. Dimension 4.75in x 4.75in. **Required for use of all filters. Not required for use with 1E3024 or 1E3025.**

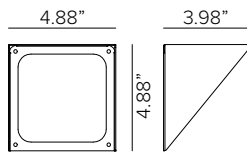
Finish ● Ferrite Dark Grey

Part No. **1E3022**



'Blade of Light' linear spread lens. PMMA holographic filter. **Not suitable for use with NSP and AYSM optics. To be completed with 1E3022 dedicated holder ring. Does not apply toward maximum accessory count.**

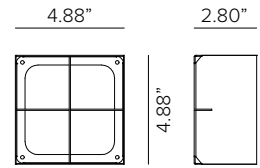
Part No. **1E3023**



Asymmetric screen. Powder coated stainless steel. **Not compatible with 1E3025.**

Finish ● Ferrite Dark Grey

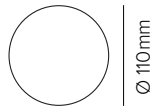
Part No. **1E3024**



Anti glare louver with removable baffles in deep black finish for different levels of glare control. Extrusion powder coat stainless steel. Cutoff 43.4°. **Not compatible with 1E3024.**

Finish ● Ferrite Dark Grey

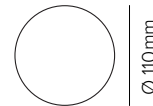
Part No. **1E3025**



Water jet cut stainless steel round pinhole LUMISHAPE light shield. **Performs best with SP optic.**

Finish ● Deep Black

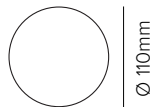
Part No. **LS11001**



Water jet cut stainless steel round circular LUMISHAPE light shield. **Performs best with SP or FL optic.**

Finish ● Deep Black

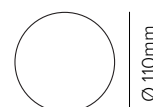
Part No. **LS11002**



Water jet cut stainless steel square pinhole LUMISHAPE light shield. **Performs best with SP optic.**

Finish ● Deep Black

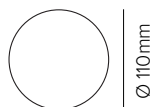
Part No. **LS11003**



Water jet cut stainless steel regular square LUMISHAPE light shield. **Performs best with SP or FL optic.**

Finish ● Deep Black

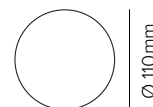
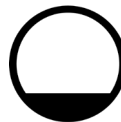
Part No. **LS11004**



Water jet cut stainless steel half LUMISHAPE light shield. **Stackable up to 4pcs per fixture; 4pcs accounts to 1 accessory toward maximum accessory count. Performs best with FL or MWFL optic**

Finish ● Deep Black

Part No. **LS11005**



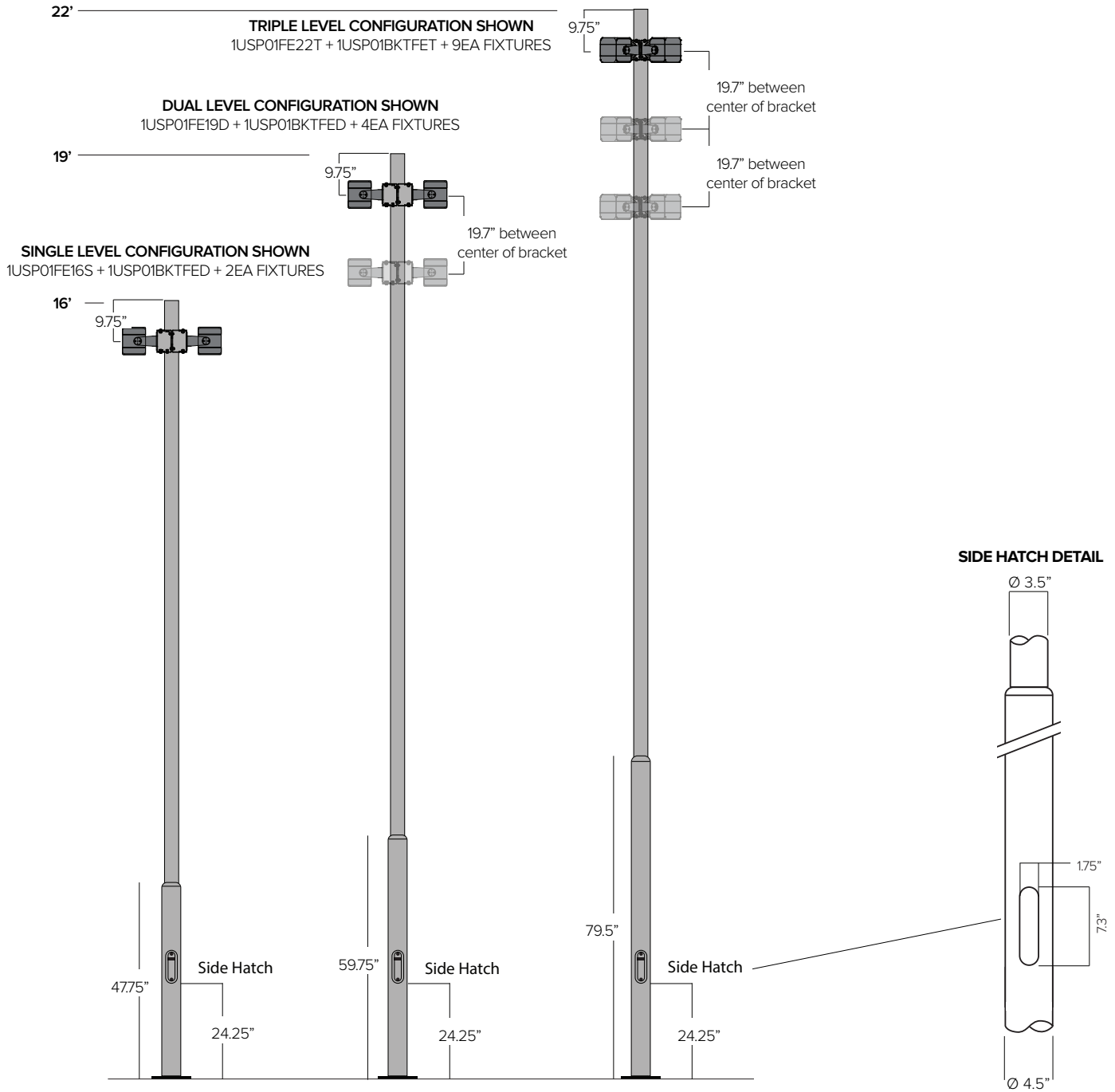
Water jet cut stainless steel quarter LUMISHAPE light shield. **Stackable up to 4pcs per fixture; 4pcs accounts to 1 accessory toward maximum accessory count. Performs best with FL or MWFL optic**

Finish ● Deep Black

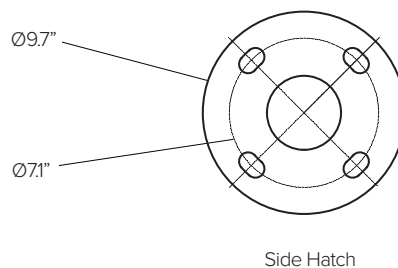
Part No. **LS11006**

# DART MEDIUM EVENT POLE

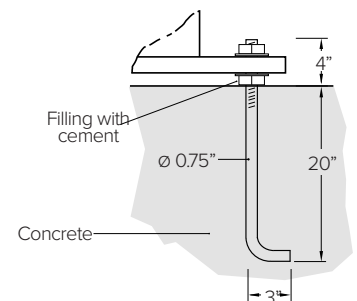
## INSTALLATION DIAGRAM



**POLE BASE DETAIL**



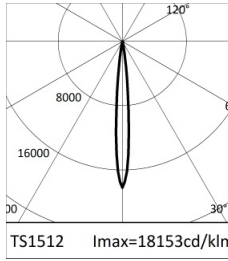
**ANCHOR BOLTS DETAIL**



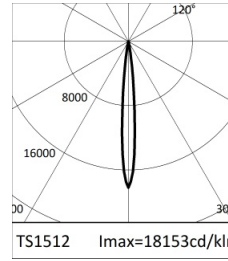
# DART MEDIUM EVENT POLE

## PHOTOMETRY

### NARROW SPOT



3000K		H(m)	D(m)	Emax(lx)		
Ra80			10°			
Fixture Power	19W	1	0.17	24179		
Source Flux	1332lm	2	0.34	6045		
Fixture Flux	1008lm	3	0.51	2687		
Efficacy	53lm/W	4	0.68	1511		
TS1512	I <sub>max</sub> =18153cd/klm	I <sub>max</sub>	24179cd	5	0.86	967



4000K		H(m)	D(m)	Emax(lx)		
Ra80			10°			
Fixture Power	19W	1	0.17	25613		
Source Flux	1411lm	2	0.34	6403		
Fixture Flux	1068lm	3	0.51	2846		
Efficacy	56lm/W	4	0.68	1601		
TS1512	I <sub>max</sub> =18153cd/klm	I <sub>max</sub>	25613cd	5	0.86	1025

### SPOT

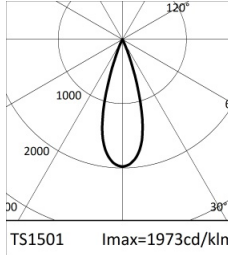


3000K		H(m)	D(m)	Emax(lx)		
Ra80			14°			
Fixture Power	36W	1	0.24	32755		
Source Flux	4336lm	2	0.47	8189		
Fixture Flux	2560lm	3	0.71	3639		
Efficacy	71lm/W	4	0.95	2047		
TS1500	I <sub>max</sub> =7554cd/klm	I <sub>max</sub>	32755cd	5	1.18	1310

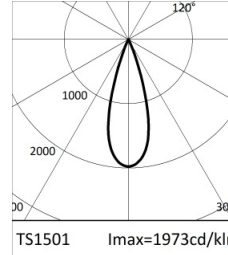


4000K		H(m)	D(m)	Emax(lx)		
Ra80			14°			
Fixture Power	36W	1	0.24	33020		
Source Flux	4371lm	2	0.47	8255		
Fixture Flux	2581lm	3	0.71	3669		
Efficacy	71lm/W	4	0.95	2064		
TS1500	I <sub>max</sub> =7554cd/klm	I <sub>max</sub>	33020cd	5	1.18	1321

### FLOOD

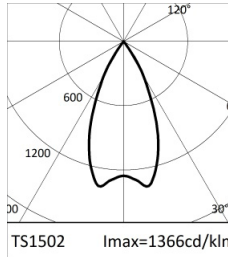


3000K		H(m)	D(m)	Emax(lx)		
Ra80			32°			
Fixture Power	36W	1	0.58	8554		
Source Flux	4336lm	2	1.16	2139		
Fixture Flux	2403lm	3	1.74	950		
Efficacy	66lm/W	4	2.33	535		
TS1501	I <sub>max</sub> =1973cd/klm	I <sub>max</sub>	8554cd	5	2.91	342



4000K		H(m)	D(m)	Emax(lx)		
Ra80			32°			
Fixture Power	36W	1	0.58	8623		
Source Flux	4371lm	2	1.16	2156		
Fixture Flux	2422lm	3	1.74	958		
Efficacy	67lm/W	4	2.33	539		
TS1501	I <sub>max</sub> =1973cd/klm	I <sub>max</sub>	8623cd	5	2.91	345

### MEDIUM WIDE FLOOD

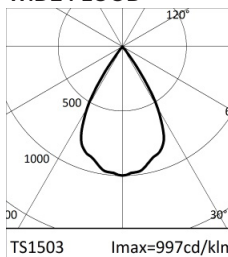


3000K		H(m)	D(m)	Emax(lx)		
Ra80			48°			
Fixture Power	33W	1	0.89	6540		
Source Flux	4963lm	2	1.78	1635		
Fixture Flux	4145lm	3	2.68	727		
Efficacy	125lm/W	4	3.57	409		
TS1502	I <sub>max</sub> =1366cd/klm	I <sub>max</sub>	6778cd	5	4.46	262

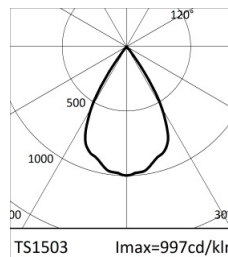


4000K		H(m)	D(m)	Emax(lx)		
Ra80			48°			
Fixture Power	33W	1	0.89	6697		
Source Flux	5082lm	2	1.78	1674		
Fixture Flux	4244lm	3	2.68	744		
Efficacy	128lm/W	4	3.57	419		
TS1502	I <sub>max</sub> =1366cd/klm	I <sub>max</sub>	6940cd	5	4.46	268

### WIDE FLOOD



3000K		H(m)	D(m)	Emax(lx)		
Ra80			62°			
Fixture Power	33W	1	1.20	4948		
Source Flux	4963lm	2	2.40	1237		
Fixture Flux	4169lm	3	3.60	550		
Efficacy	126lm/W	4	4.80	309		
TS1503	I <sub>max</sub> =997cd/klm	I <sub>max</sub>	4948cd	5	5.99	198

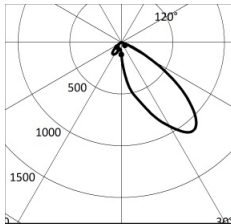


4000K		H(m)	D(m)	Emax(lx)		
Ra80			62°			
Fixture Power	33W	1	1.20	5066		
Source Flux	5082lm	2	2.40	1267		
Fixture Flux	4269lm	3	3.60	563		
Efficacy	129lm/W	4	4.80	317		
TS1503	I <sub>max</sub> =997cd/klm	I <sub>max</sub>	5066cd	5	5.99	203

# DART MEDIUM EVENT POLE

## PHOTOMETRY

### NARROW ASYMMETRIC

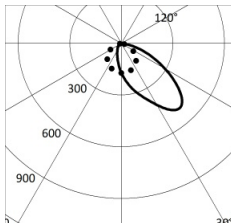


	3000K	H(m)	D1(m)	D2(m)	Emax(lx)	
	Ra80		41°	52°		
Fixture Power	33W	1	1.20	1.26	3026	
Source Flux	4963lm	2	2.41	2.52	756	
Fixture Flux	3845lm	3	3.61	3.78	336	
Efficacy	116lm/W	4	4.81	5.04	189	
TS1505	I <sub>max</sub> =1098cd/klm	I <sub>max</sub>	5	6.02	6.29	121

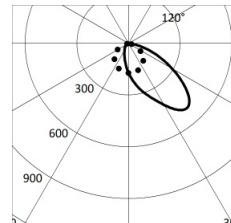


	4000K	H(m)	D1(m)	D2(m)	Emax(lx)	
	Ra80		41°	52°		
Fixture Power	33W	1	1.20	1.26	3098	
Source Flux	5082lm	2	2.41	2.52	775	
Fixture Flux	3938lm	3	3.61	3.78	344	
Efficacy	119lm/W	4	4.81	5.04	194	
TS1505	I <sub>max</sub> =1098cd/klm	I <sub>max</sub>	5	6.02	6.29	124

### ASYMMETRIC



	3000K	H(m)	D1(m)	D2(m)	Emax(lx)	
	Ra80		51°	83°		
Fixture Power	33W	1	1.72	2.39	1328	
Source Flux	4963lm	2	3.44	4.78	332	
Fixture Flux	3526lm	3	5.16	7.16	148	
Efficacy	106lm/W	4	6.88	9.55	83	
TS1504	I <sub>max</sub> =504cd/klm	I <sub>max</sub>	5	8.60	11.94	53



	4000K	H(m)	D1(m)	D2(m)	Emax(lx)	
	Ra80		51°	83°		
Fixture Power	33W	1	1.72	2.39	1360	
Source Flux	5082lm	2	3.44	4.78	340	
Fixture Flux	3611lm	3	5.16	7.16	151	
Efficacy	109lm/W	4	6.88	9.55	85	
TS1504	I <sub>max</sub> =504cd/klm	I <sub>max</sub>	5	8.60	11.94	54