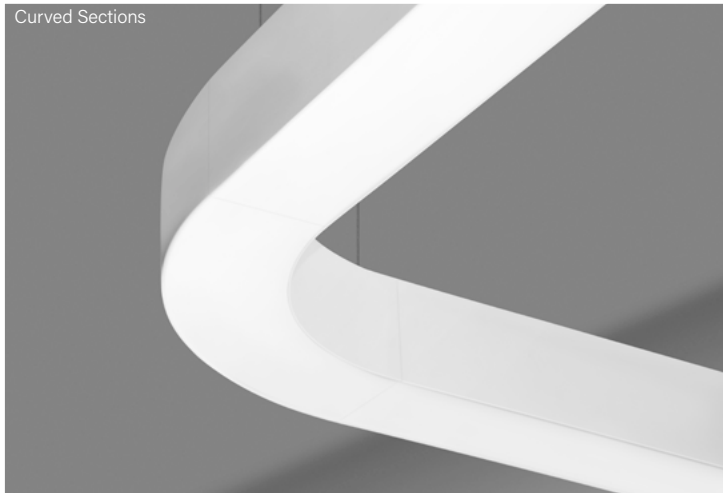


Submitted by:		Date:
Type:	Project:	
Ordering Info:		

High Performance 4" Aperture (HP-4) Curved Sections



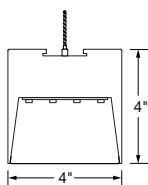
High Performance 4" Aperture Curved Sections are patented luminaires that add design flexibility to the HP-4 family. Curved Sections deliver continuous illumination and are available in 45°, 90°, and 180° angles with 2', 3', and 4' diameter options. All Curved Sections can be joined to HP-4 linear to create a multitude of configurations and are equipped with universal and robust joining hardware for strong and repeatable joints ensuring seamless transitions.

This product is enrolled in the International Living Future Institute (ILFI) Declare 2.0 Program and is third-party verified with options achieving **Red List Approved** and **Red List Declared** status.

Signal White is standard finish

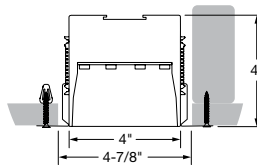
CROSS SECTIONS

Direct



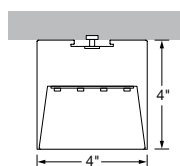
Flush Downlight Diffuser

Recessed Spackle Flange



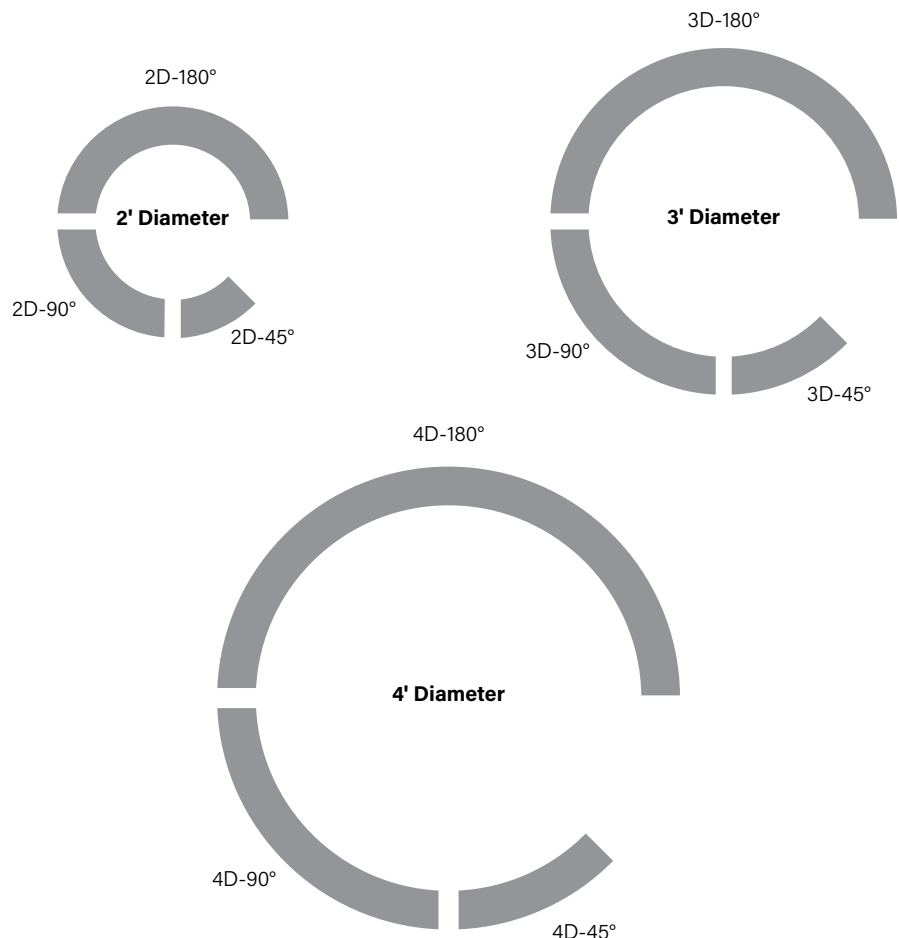
Flush Downlight Diffuser

Surface Mount



Flush Downlight Diffuser

SIZE OPTIONS



Submitted by:		Date:
Type:	Project:	
Ordering Info:		

High Performance 4" Aperture (HP-4) Curved Sections

Ordering Guide Example: HP - 4 - P - D - 36' - S - 835 - F - 96LG - 120 - SC - FC-10% - FA50 - C1 - FE - SW - LGD18W - OBO - CP - RS 5x5

BODY TYPE				OUTPUT AND LED TYPE		
Platform	Series Name	Luminaire Type	Luminaire Distribution	Total Length of Configuration	Downlight Output	LED CRI/CCT
HP - High Performance	4	P - Pendant R - Recessed <i>(Spackle Flange Only)</i> SM - Surface Mount	D - Direct	Total length to be calculated by factory. Minimum 2' increments accurate to 1/16" (±1/32") standard. 12' maximum section length. Use Configuration section to specify size and shape.	S - Standard (377 lm/ft) B - Boosted (474 lm/ft) H - High (717 lm/ft) V - Very High (922 lm/ft) TL - Tailored: _____lm/ft *	830 - 80 CRI, 3000K 835 - 80 CRI, 3500K 840 - 80 CRI, 4000K 930 - 90 CRI, 3000K 935 - 90 CRI, 3500K 940 - 90 CRI, 4000K 8TW - 80 CRI, Tunable White 9TW - 90 CRI, Tunable White

Lumens provide are for 2' dimensions.
* Specify lm/ft of outputs between Standard (S) and Very High (V). Consult factory for tailored lumen output outside of this range.

MECHANICAL FEATURES			ELECTRICAL OPTIONS			
Downlight	Reflector System	Voltage	Circuiting ¹	Driver Selection		
F - Flush (standard)	96LG - 96 Low Gloss White	120 - 120 Voltage 277 - 277 Voltage 347 - 347 Voltage (OTi only)	SC - Single Circuit	0-10V Driver Options FC-10% - 0-10V 10% (standard) FC-1% - 0-10V 1% OTi-10% - EldoLED OTi, 0-10V 10% ^{2,9} OTi-1% - EldoLED OTi, 0-10V 1% ^{2,9} ELD-10V-0% - EldoLED SOLOdrive, 0-10V, 0.1% ¹⁰ 10V-TW-10% - EldoLED OTi, 0-10V 10% (Tunable White) ^{2,10} DALI Driver Options FC-DALI-1% - DALI 1% ¹⁰ DXL-DALI-1% - EldoLED Dexal, 1% ¹⁰ ELD-DALI-0% - EldoLED SOLOdrive, 0.1% ¹⁰ ELD-DALI-TW - EldoLED DUALdrive LightShape, 1% (Tunable White) ¹⁰	DMX Driver Options ELD-DMX - EldoLED POWERdrive, 0.1% ELD-DMX-TW - EldoLED POWERdrive, 0.1% (Tunable White) Lutron Driver Options LUT-ES1 - Lutron, Ecosystem 1% ¹⁰ LUT-TW - Lutron LD2 Dali-2 1% (Tunable White) ¹¹	

See Page 3 for additional driver options and details

MOUNTING OPTIONS			OTHER OPTIONS		
Mounting Method	Ceiling Hardware Type ⁶	Endcap Style	Finish	Emergency Style (Optional) ⁸ <small>See page 5 Backup Battery table</small>	Integrated Sensor (Optional) ⁹
FA50 - Fully Adjustable 50' ⁴ FA100 - Fully Adjustable 100' ⁴ FA150 - Fully Adjustable 150' ⁴ FA200 - Fully Adjustable 200' ⁴ FA250 - Fully Adjustable 250' ⁴ FA300 - Fully Adjustable 300' ⁴ SF - Spackle Flange ⁵ 99 - Custom	C1 - 15/16" T-Bar C2 - 9/16" T-Bar C3 - Screw Slot C4 - Hard Ceiling C1T - 15/16" Tegular C2T - 9/16" Tegular	FE - Flat Endcap (standard)	SW - Signal White FB - Finelite Black SA - Satin Aluminum #### - RAL Color Code ⁷ 99 - Custom Color ⁷	LGD18W - Legrand 18W Brand Battery Back-up LGD10W - Legrand 10W Brand Battery Back-up EM/GEN - Emergency to Generator NL - Night Light BSL722 - Bodine Battery Back up BSL310LP - Bodine Battery Back Up Low Profile GTD - Generator Transfer Device ALCR - Automatic Load Control Relay	OBO - Occupancy OBD - Daylight

Special Options (Optional)	Configuration ¹¹
CP - Chicago Plenum ⁵	RS _____ x _____ - Rounded Square (side 1 x curve section)
RLA - Red List Approved	RR _____ x _____ x _____ - Rounded Rectangle (side 1 x side 2 x curve section)
RLD - Red List Declared	RL _____ x _____ x _____ - Rounded "L" Shape (side 1 x side 2 x curve section)
	RU _____ x _____ x _____ x _____ - Rounded "U" Shape (side 1 x side 2 x side 3 x curve section)
	ARC _____ - Arc (curve section)
	99CFG - Custom Configuration ¹²

Lead times is 8-weeks.

¹ Contact factory for switching options
² Add DTO to gain "Dim to Off" functionality (FC-10% - DTO, FC-1% - DTO)
³ B & V outputs only
⁴ Pendant only
⁵ Recessed and Pendant (Only available with C1, C2, and C3 mounting hardware with Finelite Gridbox)

⁶ For Pendant and Surface Mount only
⁷ 20 business days lead time for color
⁸ Not available for curved sections but can be integrated into straight sections
⁹ Not available for 2D45 & 3D45
¹⁰ Not available for 2D45, 2D90, 2D180 & 3D45

¹¹ See pages 9-10 for more details and examples
¹² Please provide drawing with dimensions

Submitted by:		Date:
Type:	Project:	
Ordering Info:		

High Performance 4" Aperture (HP-4) Curved Sections

SUPPLEMENTARY DRIVER PAGE

0-10V Driver Options

FC-10%¹	Factory Choice 0-10V 10% Dimming (Linear)
FC-10%-DTO¹	Factory Choice 0-10V 10% Dimming, Dim-to-Off (Linear)
FC-1%¹	Factory Choice 0-10V 1% Dimming (Linear)
FC-1%-DTO¹	Factory Choice 0-10V 1% Dimming, Dim-to-Off (Linear)
ELD-10V-0%²	EldoLED SOLOdrive, 0-10V 0.1% Dimming (Linear)
ELD-10V-1%²	EldoLED ECOdrive, 0-10V 1% Dimming (Linear)
10V-TW-10%²	EldoLED OTi, 0-10V 10% Dimming, Tunable White (Linear)
10V-TW-10%-DTO²	EldoLED OTi, 0-10V 10% Dimming, Dim-to-Off, Tunable White (Linear)
OTi-10%¹	EldoLED OTi, 0-10V 10% Dimming (Linear)
OTi-10%-DTO¹	EldoLED OTi, 0-10V 10% Dimming, Dim-to-Off (Linear)
OTi-1%¹	EldoLED OTi, 0-10V 1% Dimming (Linear)
OTi-1%-DTO¹	EldoLED OTi, 0-10V 1% Dimming, Dim-to-Off (Linear)

DALI Driver Options

FC-DALI-1%²	Factory Choice DALI 1% Dimming (Logarithmic)
DXL-DALI-1%²	EldoLED Dexal, DALI 1% Dimming (Logarithmic)
ELD-DALI-0%²	EldoLED SOLOdrive, DALI 0.1% Dimming (Logarithmic)
ELD-DALI-1%²	EldoLED ECOdrive, DALI 1% Dimming (Logarithmic)
ELD-DALI-TW²	EldoLED DUALdrive Light Shape, DALI 0.1% Dimming, Tunable White (Logarithmic Dimming, Linear CCT Control)

DMX Driver Options

ELD-DMX³	EldoLED POWERdrive, DMX 0.1% Dimming (8 Bit, 1CH) (Linear)
ELD-DMX-16³	EldoLED POWERdrive, DMX 0.1% Dimming (16 Bit, 2CH) (Linear)
ELD-DMX-TW³	EldoLED POWERdrive, DMX 0.1% Dimming, Tunable White (8 Bit, 2CH - CH1 Warm / CH2 Cool) (Linear)
ELD-DMX-TW16³	EldoLED POWERdrive, DMX 0.1% Dimming, Tunable White (16 Bit, 4CH - CH1, 2 Warm / CH3, 4 Cool) (Linear)

Lutron Driver Options

LUT-ES1³	Lutron, Ecosystem 1% Dimming
LUT-TW³	Lutron LD2 Dali-2 1%, Tunable White

¹ Not available for 2D45 & 3D45

² Not available for 2D45, 2D90, 2D180 & 3d45

³ Not available for curved sections but can be integrated into straight sections

⁴ B & V outputs only

Submitted by:		Date:
Type:	Project:	
Ordering Info:		

High Performance 4" Aperture (HP-4) Curved Sections

SPECIFICATIONS

BODY TYPE

CONSTRUCTION: Precision-cut 6063-T4 extruded aluminum with 16 gauge steel assembly body.

LINEAR LENGTHS: At any length, 2-foot minimum, in increments down to 1/16th inch ($\pm 1/32''$). 12-foot maximum section length.

OUTPUT & LED TYPE

LIGHT OUTPUT: Four lumen packages available, Standard (**S**), Boosted Standard (**B**), High (**H**), and Very High (**V**). A separate chart summarizes lumen distribution and wattage. Light engines are replaceable. For Tailored Outputs (**TL**), specify lm/ft² of outputs between those of Boosted (**B**) and Very High (**V**). Consult factory for tailored lumen output.

MECHANICAL OPTIONS

DOWNLIGHT DIFFUSER: Flush frost white snap-in lens standard, 80% transmissive, 99% diffusion.

LUMEN MAINTENANCE: 90% of initial light output (L90) at 100,000+ hours; 70% of initial light output (L70) at 200,000+ hours.

REFLECTORS: Die-formed 20-gauge cold-rolled steel reflectors finished in 96LG High Reflectance white powder coat paint.

ELECTRICAL OPTIONS

STATIC WHITE FEED: Standard with one 18-gauge/5-conductor single-circuit feed. 14-gauge feed used when fixture current exceeds 5 amps.

TUNABLE WHITE FEED:

TW Driver

- **0-10V:** Power - 18/3, Control - 18/4;
- **DMX:** Power - 18/3, Control - DMX In & Out;
- **DALI:** Power/Control - 18/5;
- **LUTRON:** Power/Control - 18/5

All above feeds are based on single circuit.

DMX and power feed at same location (standard). DMX feeds cannot be cut or spliced. DMX feeds should be ordered based on fixed lengths.

STATIC WHITE DRIVER¹: Replaceable 120V/277V Constant Current Reduction dimming driver standard. Can be wired dimming or non-dimming. 0-10V dimming controls with a range of 100%-10% standard. Dimming to 1% available. Driver is fully accessible from below the ceiling.

- **Power Factor:** ≥ 0.9 .
- **Total Harmonic Distortion (THD)** <20%.
- **Expected driver lifetime:** 100,000 hours.

LUTRON STATIC DRIVER OPTIONS ^{2,3}:

LUT-ES1 - Hi-lume 1% EcoSystem with Soft-On, Fade to Black dimming (LDE1 series).

TUNABLE WHITE DRIVER ³: Replaceable LED driver. Driver is accessible from below the ceiling. 120V/277V.

- **Power factor** ≥ 0.90 .
- **Total Harmonic Distortion (THD):** <20%.
- **Expected driver lifetime:** 100,000 hours.

LUTRON TUNABLE WHITE DRIVER OPTION ¹:

LUT-TW - Lutron LD2 Dali-2 1%, Tunable White.

MOUNTING TYPE

HANGING HARDWARE:

- **Pendant:** 50" to 300" Fully Adjustable (**FA**) plated steel aircraft cable with safety stop hardware standard.
- **Recessed Spackle Flange:** Drywall surfaces (walls or ceilings): 1/4-20 stud and nut (provided by others).
- **Surface Mount:** Lay-in ceiling types: caddy clip with 1/4 - 20 stud and nut. Drywall or concrete surfaces (walls or ceilings): 1/4 - 20 stud and nut (provided by others).

TUNABLE WHITE DMX HANGING HARDWARE: For grid ceiling applications the dual GridBox™ mounting is supplied (standard). For hard ceiling applications the ceiling mounting box is supplied (standard). DMX feeds cannot be cut or spliced. DMX feeds should be ordered based on fixed lengths. Available DMX pendant feed lengths are 5', 12', and 30' (5' standard).

TUNABLE WHITE DMX INTERCONNECTION CABLES: Luminaires are prewired with plug-and-play interconnected cables to support easy plug-together joining of fixture runs. DMX to RJ45 adapters and an RJ45 terminator for every 32 DMX drivers are included.

OTHER OPTIONS

ENDCAPS: Pendant and Surface Mount: Flat diecast aluminum endcaps add 1/4" to each end of luminaire. Recessed: Flat sheet metal endcaps at each ends adds 1/16" to each end of luminaire.

CURVED SECTIONS: Available in 2', 3' & 4' diameters with section lengths of 45°, 90° & 180°. **2D45** and **3D45** curved sections are not available as independent fixtures.

¹ Not available on 2D45 & 3D45

² Not available on 2D45, 3D45 & 2D90

³ Only available on 3D90, 3D180, 4D90 & 4D180

Submitted by:		Date:
Type:	Project:	
Ordering Info:		

High Performance 4" Aperture (HP-4) Curved Sections

SPECIFICATIONS

EMERGENCY STYLE OPTIONS: Optional Emergency to generator/inverter wiring.

Optional internal generator transfer switch, nightlight wiring, step-dimming driver, backup battery not available for curve sections but can be integrated into straight sections.

TUNABLE WHITE EMERGENCY OPTIONS:

TW Driver Options ⁴:

- **0-10V:** EM/GEN, GTD or Battery Back Up
- **DMX:** Battery Back Up
- **DALI:** EM/GEN, GTD or Battery Back Up
- **LUTRON:** EM/GEN, GTD or Battery Back Up

INTEGRATED SENSORS: Integrated sensors not available for curve sections but can be integrated into straight sections.

FINISHES: Finelite Signal White (**SW**) powder coat standard. Finelite Black (RAL9005) with semi gloss fine texture (**FB**) and Satin Aluminum (**SA**) are available. Optional Adders: 179 non-metallic RAL colors ⁵.

LABELS: Luminaire and electrical components are ETL-listed conforming to UL 1598 in the U.S.A. and CAN/CSA C22.2 No. 250.0 in Canada. In accordance with NEC Code 410.130 (G), this luminaire contains an internal driver disconnect. UL 2108 - PoE options available

on request, contact factory for more details. These fixtures were rated for Damp Location. Chicago Plenum options available for C1, C2, or C3 suspension using our GridBox. Finelite products use electronic components that are RoHS compliant, and the mechanical components of the luminaire have been verified to not knowingly contain any restricted substances listed per RoHS Directive 2015/863. Finelite makes the specification process easy when putting healthier products on your projects. Simply add – **RLA** (Red List Approved) or – **RLD** (Red List Declared) to your part number.

WEIGHTS ⁶:

Curved Sections:

Pendant and Surface Mount: 6 lbs/ft.

Recessed (Spackle Flange only): 6.5 lbs/ft.

Linear: 2.8 lbs/ft.

WARRANTY: 10-year performance-based warranty on all standard components. Optional accessories are covered by their individual manufacturer warranties.

⁴ Consult Finelite for GTD and BB fit

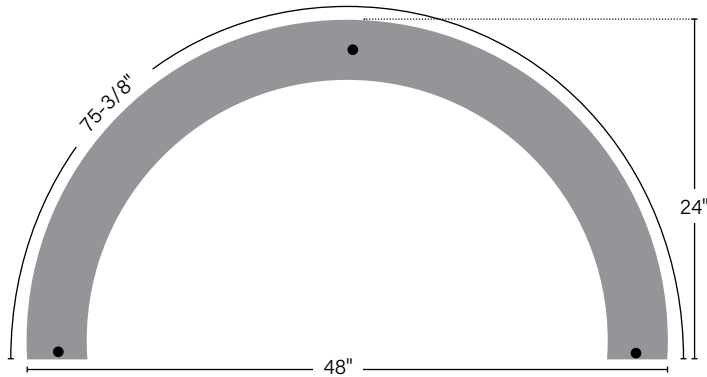
⁵ 20 business days lead time for color

⁶ Excludes Battery Back up and GTD weight

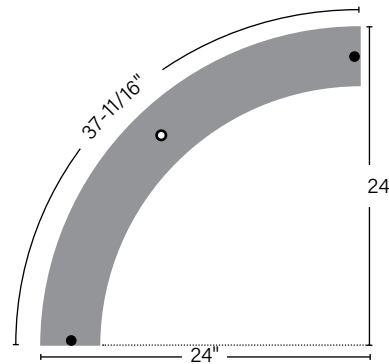
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Type:	Project:	
Ordering Info:		

High Performance 4" Aperture (HP-4) Curved Sections

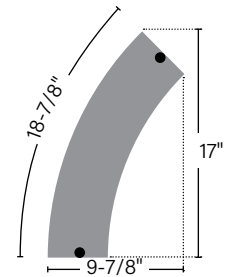
HOUSING CRITICAL DIMENSIONS: PENDANT SHOWN ¹



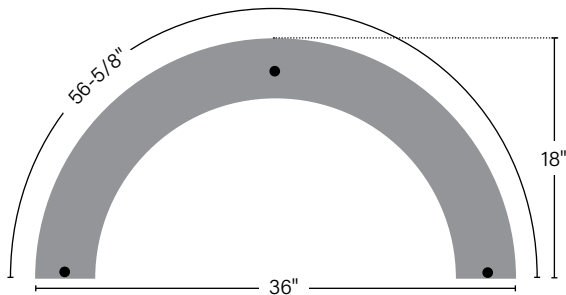
4D180



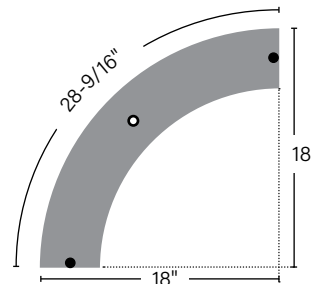
4D90



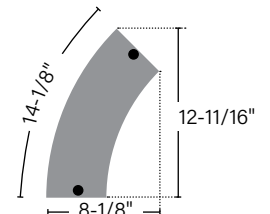
4D45



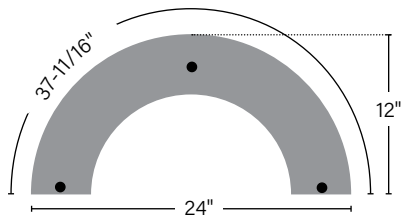
3D180



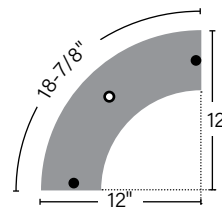
3D90



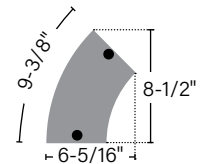
3D45



2D180



2D90



2D45

- = Suspension Points
- = Additional suspension points for non-standard configurations (see page 8)

Drawings are not to scale

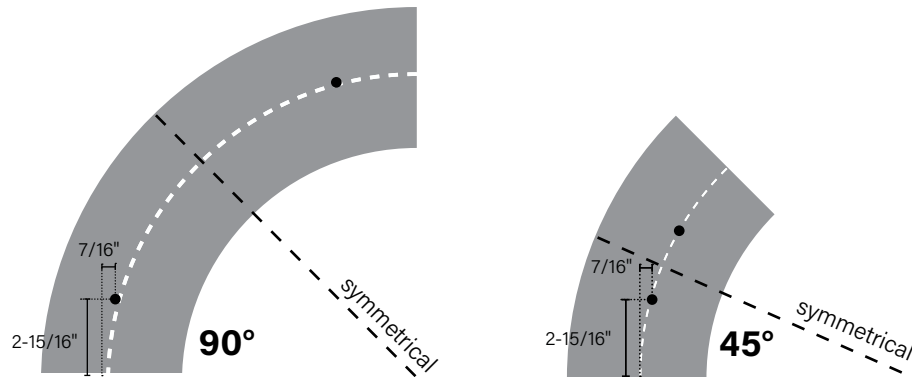
¹ 2D45 and 3D45 curved sections are not available as independent fixtures

Submitted by:		Date:
Type:	Project:	
Ordering Info:		

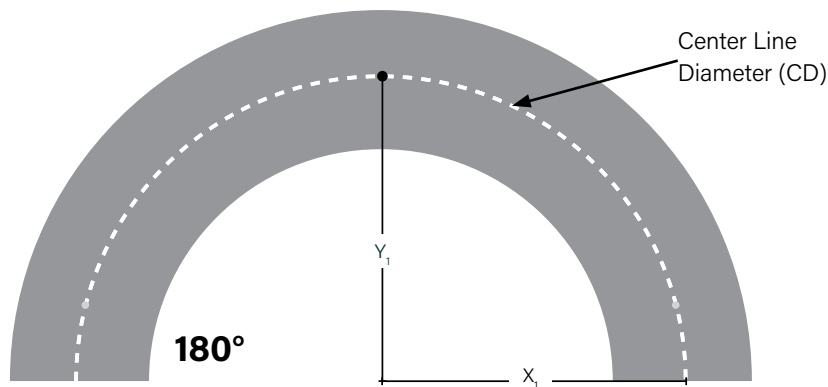
High Performance 4" Aperture (HP-4) Curved Sections

MOUNTING LOCATIONS: RECESSED (SF) AND SURFACE MOUNT

Mounting locations are located on each end of luminaire with offset shown below.



For 180° Sections: third mounting point required as shown below:



	$X_1 = Y_1$	CD
2D-180	10"	20"
3D-180	16"	32"
4D-180	22"	44"

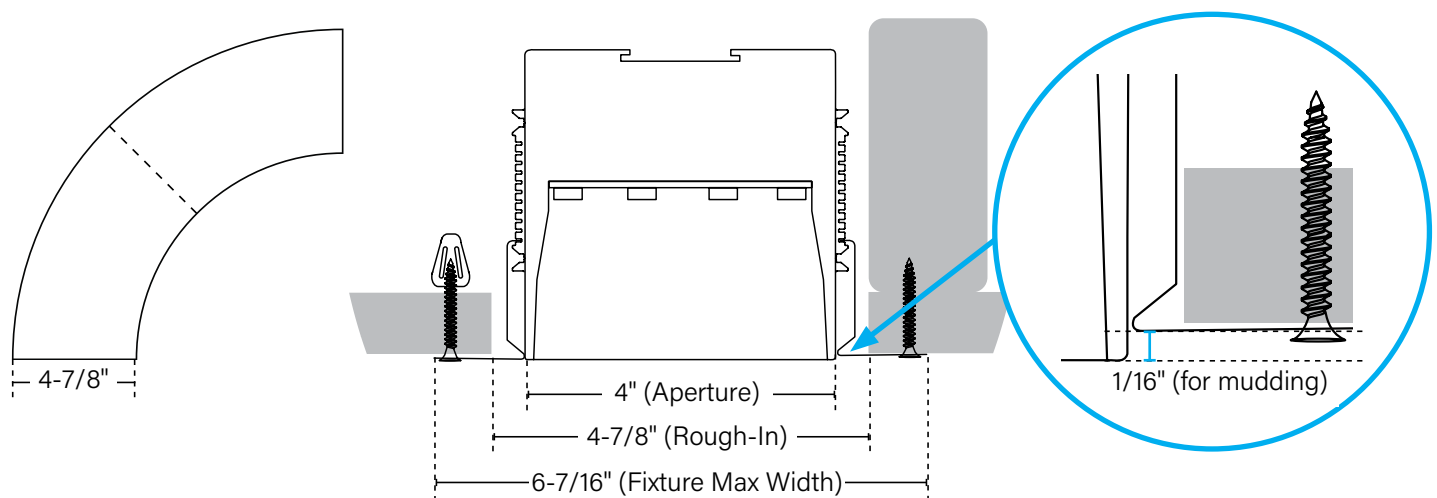
Submitted by:		Date:
Type:	Project:	
Ordering Info:		

High Performance 4" Aperture (HP-4) Curved Sections

ROUGH-IN: RECESSED (SF)

Rough-In

Finelite provides a 90° multi-use template for Rough-In accuracy during installation. Template is perforated for use with 45° sections. Must add 3/8" to rough-in distance at endcap locations.

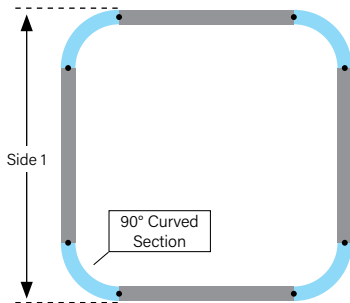


Submitted by:		Date:
Type:	Project:	
Ordering Info:		

High Performance 4" Aperture (HP-4) Curved Sections

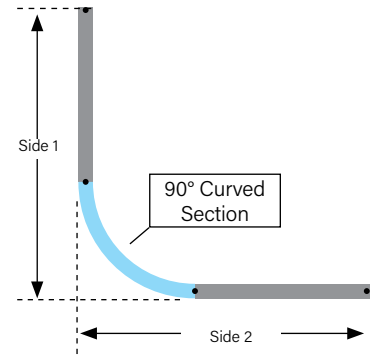
STANDARD CONFIGURATION EXAMPLES ^{1,2}

RS ___ x ___
Rounded Square- Provide Side1 dimension and desired 90° curved section.



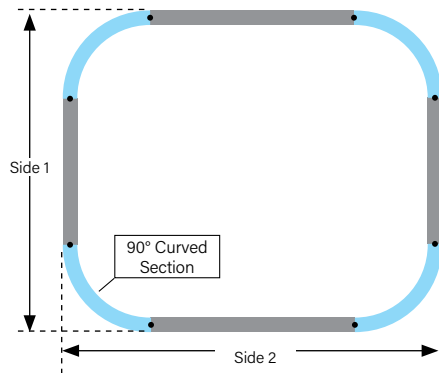
Example -
RS6'x2D90

RL ___ x ___ x ___
Rounded L- Provide Side1x Side2 dimensions and desired 90° curved section.



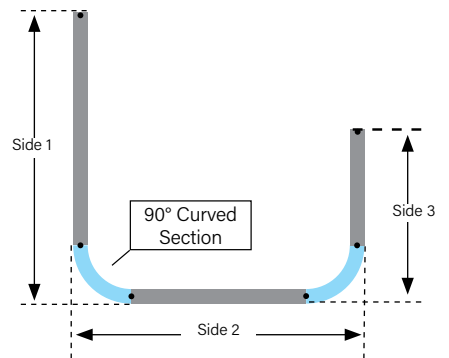
Example -
RL6'x6'x4D90

RR ___ x ___ x ___
Rounded Rectangle- Provide Side1 x Side2 dimension and desired 90° curved section.



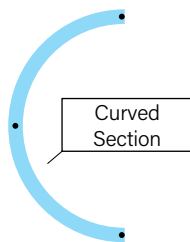
Example -
RR5'x7'x3D90

RU ___ x ___ x ___ x ___
Rounded U- Provide Side1x Side2 x Side3 dimensions and desired 90° or 180° curved section.



Example -
RU8'x6'x4'x2D90

ARC _____
Arc - Provide desired curved section.

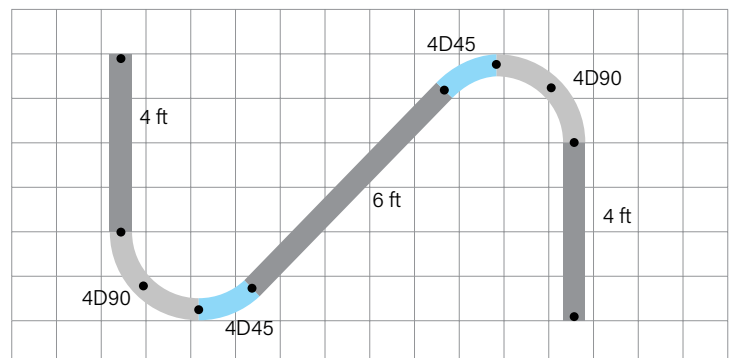


Example -
ARC4D180

99CFG

Custom Configuration - Please provide a sketch or drawing showing desired linear length dimensions and curved sections. Template available on page 10.

Example -



□ = 1 ft²

● = Suspension Points


¹ Drawings are not to scale


² 2' minimum length for linear sections

Submitted by:		Date:
Type:	Project:	
Ordering Info:		

High Performance 4" Aperture (HP-4) Curved Sections

CUSTOM CONFIGURATION TEMPLATE

 = 1 ft²



Submitted by:		Date:
Type:	Project:	
Ordering Info:		

High Performance 4" Aperture (HP-4) Curved Sections

Static White Photometry - 4D-90

HP-4-P-D-3' 1-11/16"-V-835

Efficacy: 100 lm/W

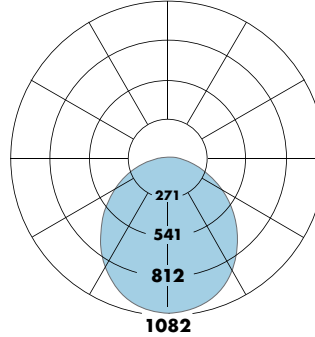
Total luminaire output: 2842 lumens (905 lm/ft)
28.4 watts (9.0 watts/foot³)

Peak Candela Value: 1082 @ 0°

CRI: 80

CCT: 3500K

ITL LM79 Report 91221



CANDELA DISTRIBUTION						
	0.0	22.5	45.0	67.5	90.0	FLUX
0	1082	1082	1082	1082	1082	
5	1076	1076	1076	1077	1077	102
15	1019	1025	1031	1028	1028	289
25	918	926	940	928	929	458
35	785	796	809	798	792	500
45	638	648	661	649	643	502
55	483	492	502	494	489	441
65	327	333	339	333	329	331
75	177	181	183	182	179	192
85	51	51	51	52	53	58
90	0	0	0	0	0	

Light Output, 3500K, 80 CRI (Lumens Per Foot)

	S ¹	B ¹	H ¹	V ²
4'	367	462	698	898
3'	419	526	795	1022
2'	377	474	717	922

Power, 3500K (Watts Per Foot)³

	S ¹	B ¹	H ¹	V ²
4'	3.5	4.5	6.9	9.0
3'	4.0	5.1	7.8	10.2
2'	3.6	4.6	7.1	9.2

Efficacy, 3500K, 80 CRI (Lumens Per Watt)

	S ¹	B ¹	H ¹	V ²
4'	105	104	101	100
3'	105	104	101	100
2'	105	104	101	100

Sample Lumen Adjustment Calculation

Lumen Adjustment Factors 80 CRI

3000K	0.985
3500K	1.000
4000K	1.032

Lumen Adjustment Factors 90 CRI

3000K	0.746
3500K	0.760
4000K	0.789

High Output (H), 2', 4000K, 90 CRI

Lumen Adjustment Factor: 0.789

Total Light Output per Foot: 717 lm/ft x 0.789 = 566 lm/ft.

Watts/foot: 7.1 W/ft.

$$\text{Efficacy} = \frac{566 \frac{\text{lm}}{\text{ft.}}}{7.1 \frac{\text{W}}{\text{ft.}}} = 80 \text{ lm/W}$$

Wattage is Real Power. If you would like additional details to calculate Apparent Power, please contact your local Finelite representative.

S - Standard Output, B - Boosted Standard Output, H - High Output, V - Very High Output

¹ Family Correlation based on 4' Circle, 3500K, Very High Output (V) test - 120V

² Based on ITL report: 91221

³ Watts per foot and lumens per foot calculated using approximate outer arc length of 4D90 Curved Section (3 1/8")

Submitted by:		Date:
Type:	Project:	
Ordering Info:		

0-10V Tunable White

Finelite's contractor friendly Tunable White luminaires are available with low cost, powerful, and simple 0-10V tuning and intensity controls.

TUNABLE WHITE FEATURES

- CCT range: 2700K - 6500K
- Dimming Range: 100% to 10%
- CRI Options: 80 CRI or 90 CRI

Note:
Dim to Off options available.

TUNABLE WHITE RESTRICTIONS

- 0-10V TW not available for 2D45, 2D90, 2D180 & 3D45 independent Curved Sections

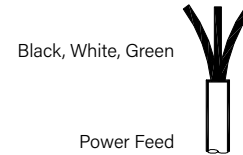
PHOTOMETRY

Apply a power adjustment factor to calculate wattage usage

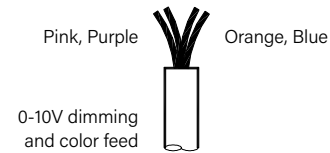
POWER	CONVERSION FACTOR
	1.1X

(Example: a 50 watt luminaire in static white would draw 55 watts using 0-10V Tunable White)

DUAL FEED DETAIL



WIRING LEGEND		
Black	Hot	Line Voltage
White	Neutral	Line Voltage
Green	Ground	



WIRING LEGEND		
Pink	Dimming	0-10V DC
Purple	Dimming	0-10V DC
Orange	TW	0-10V DC
Blue	TW	0-10V DC