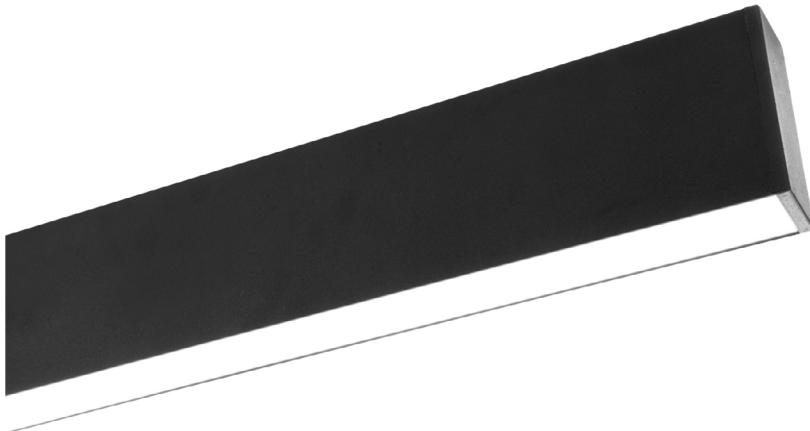


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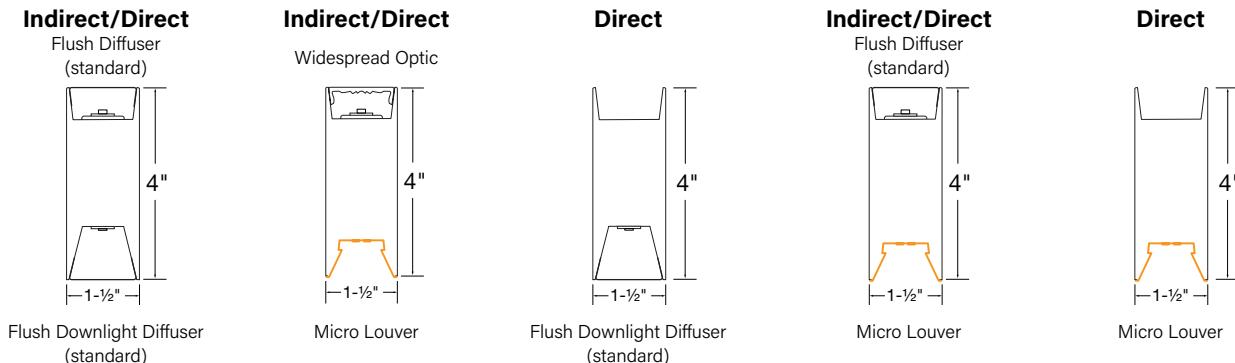
# High Performance 1" Aperture (HP-1) Pendant

Direct shown

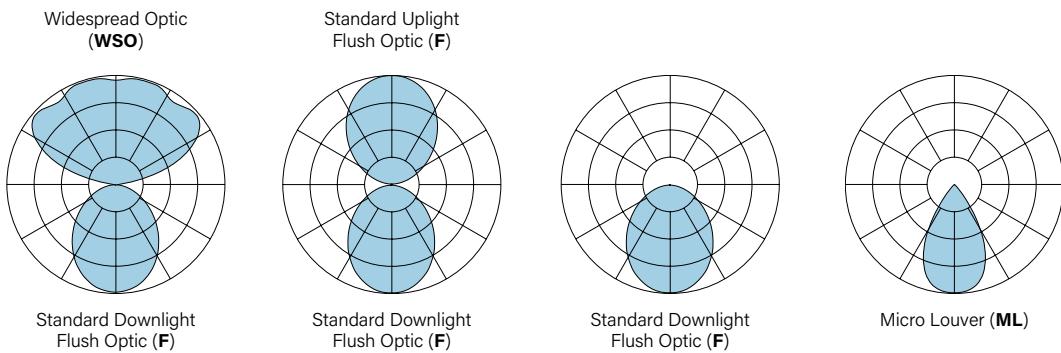


Signal White is standard finish

## CROSS SECTIONS



## OPTIC OPTIONS



High Performance 1" Aperture is a patented, linear LED luminaire family. HP-1 delivers excellent performance using an advanced optical design and mid-power LEDs. Backed by a 10-year performance-based warranty on all standard components.

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.

Submitted by:	Date:
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Ordering Info:	

# High Performance 1" Aperture (HP-1) Pendant

## BODY TYPE

Platform	Series Name	Luminaire Type	Luminaire Distribution	Total Length of Run	Uplight Output (Flush)	Downlight Output ID & D (Flush)
HP - High Performance	1	P - Pendant	D - Direct ID - Indirect/Direct	Minimum 2' section length. Increments accurate to 1/16" ( $\pm 1/32"$ ), standard. 12' maximum section length.	S - Standard B - Boosted H - High V - Very High TL - Tailored: _____ lm/ft*	S - Standard B - Boosted H - High V - Very High TL - Tailored: _____ lm/ft*

\* Specify Tailored lm/ft of outputs between Standard (S) and Very High (V). Consult factory for tailored lumen output outside of this range.

## OUTPUT AND LED TYPE

## MECHANICAL/OPTICAL OPTIONS

## ELECTRICAL OPTIONS

LED CRI/CCT	Uplight Optics ID Only	Downlight Optics ID & D Only	Reflector System	Voltage
827 - 80 CRI, 2700K	F - Flush	F - Flush (standard)	96LG - 96 Low Gloss White	120 - 120 Voltage
830 - 80 CRI, 3000K	WSO - Widespread Optic	MLW-CS - Micro Louver White Continuous <sup>1</sup>		277 - 277 Voltage
835 - 80 CRI, 3500K		MLB-CS - Micro Louver Black Continuous <sup>1</sup>		347 - 347 Voltage (OTi Only)
840 - 80 CRI, 4000K				<b>Circuiting<sup>2</sup></b>
927 - 90 CRI, 2700K				SC - Single Circuit* One single circuit in a run
930 - 90 CRI, 3000K				DC - Dual Circuit* <sup>7</sup> Independent control of up and down separately in an ID style fixture
935 - 90 CRI, 3500K				MC - Multi-Circuit* More than one switch leg or zone. Factory shop drawings required
940 - 90 CRI, 4000K				* Night Light, and Emergency to Generator circuits are in addition to the normal luminaire circuit(s)

## ELECTRICAL OPTIONS

## MOUNTING OPTIONS

## OTHER OPTIONS

Driver Selection	Lutron Driver Options	Mounting Method	Endcap Style	Finish
<b>0-10V Driver Options</b> <b>FC-10%</b> - 0-10V 10% (standard) <b>FC-1%</b> - 0-10V 1% <b>OTI-10%</b> - EldoLED OTi, 0-10V 10% <sup>3</sup> <b>OTI-1%</b> - EldoLED OTi, 0-10V 1% <sup>3</sup> <b>ELD-10V-0%</b> - EldoLED SOLOdrive, 0-10V 0.1%	<b>LUT-ES1</b> - Lutron, Ecosystem 1%	<b>FA50</b> - Fully Adjustable 50" (standard) <b>FA100</b> - Fully Adjustable 100" <b>FA150</b> - Fully Adjustable 150" <b>FA200</b> - Fully Adjustable 200" <b>FA250</b> - Fully Adjustable 250" <b>FA300</b> - Fully Adjustable 300"	<b>FE</b> - Flat Endcap (standard)	<b>SW</b> - Signal White (standard) <b>FB</b> - Finelite Black (15 day lead time) <b>SA</b> - Satin Aluminum (15 day lead time) <b>MM01</b> - Gray Elm <sup>4</sup> <b>MM02</b> - White Oak <sup>4</sup> <b>MM03</b> - Teak <sup>4</sup> <b>MM04</b> - Walnut <sup>4</sup> <b>####</b> - RAL Color Code <sup>4</sup>
<b>DALI Driver Options</b> <b>FC-DALI-1%</b> - DALI 1% <b>DXL-DALI-1%</b> - EldoLED Dexal, 1% <b>ELD-DALI-0%</b> - EldoLED SOLOdrive, 0.1%	See Page 3 for additional driver options and details	<b>Ceiling Hardware Type</b> <b>C1</b> - 15/16" T-Bar <b>C2</b> - 9/16" T-Bar <b>C3</b> - Screw Slot <b>C4</b> - Hard Ceiling <b>C1T</b> - 15/16" Tegular <b>C2T</b> - 9/16" Tegular		

## OTHER OPTIONS

Emergency Style (Optional)	Special Options (Optional)
<b>EM/GEN</b> - Emergency to Generator	<b>CP</b> - Chicago Plenum <sup>5</sup>
<b>NL</b> - Night light	<b>RLA</b> - Red List Approved <b>RLD</b> - Red List Declared

<sup>1</sup> Only 1 ft. increments for Micro Louver

<sup>2</sup> Contact factory for switching options

<sup>3</sup> Add DTO to gain "Dim to Off" functionality (FC-10% - DTO, FC-1% - DTO)

<sup>4</sup> 20 business days lead time for color

<sup>5</sup> Only available with C1, C2, and C3 mounting hardware with Finelite Gridbox

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# High Performance 1" Aperture (HP-1) Pendant

## SUPPLEMENTARY DRIVER PAGE

0-10V Driver Options	
<b>FC-10%</b>	Factory Choice, 0-10V 10% Dimming ( <a href="#">Linear</a> )
<b>FC-10%-DTO</b>	Factory Choice, 0-10V 10% Dimming, Dim-to-Off ( <a href="#">Linear</a> )
<b>FC-1%</b>	Factory Choice, 0-10V 1% Dimming ( <a href="#">Linear</a> )
<b>FC-1%-DTO</b>	Factory Choice, 0-10V 1% Dimming, Dim-to-Off ( <a href="#">Linear</a> )
<b>ELD-10V-0%</b>	EldoLED SOLOdrive, 0-10V 0.1% Dimming ( <a href="#">Linear</a> )
<b>ELD-10V-1%</b>	EldoLED ECOdrive, 0-10V 1% Dimming ( <a href="#">Linear</a> )
<b>OTi-10%</b>	EldoLED OTi, 0-10V 10% Dimming ( <a href="#">Linear</a> )
<b>OTi-10%-DTO</b>	EldoLED OTi, 0-10V 10% Dimming, Dim-to-Off ( <a href="#">Linear</a> )
<b>OTi-1%</b>	EldoLED OTi, 0-10V 1% Dimming ( <a href="#">Linear</a> )
<b>OTi-1%-DTO</b>	EldoLED OTi, 0-10V 1% Dimming, Dim-to-Off ( <a href="#">Linear</a> )

DALI Driver Options	
<b>FC-DALI-1%</b>	Factory Choice, DALI 1% Dimming ( <a href="#">Logarithmic</a> )
<b>ODXL-DALI-1%</b>	EldoLED Dexal, DALI 1% Dimming ( <a href="#">Logarithmic</a> )
<b>ELD-DALI-0%</b>	EldoLED SOLOdrive, DALI 0.1% Dimming ( <a href="#">Logarithmic</a> )
<b>ELD-DALI-1%</b>	EldoLED ECOdrive, DALI 1% Dimming ( <a href="#">Logarithmic</a> )

Lutron Driver Options	
<b>LUT-ES1</b>	Lutron, Ecosystem 1% Dimming

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

# High Performance 1" Aperture (HP-1) Pendant

## SPECIFICATIONS

### BODY TYPE

**CONSTRUCTION:** Precision-cut 6063-T6 extruded aluminum body. Internal joiner system, plug-together wiring, standard.

**LENGTHS:** Any length, 2' minimum, in increments down to 1/16" ( $\pm 1/32"$ ). 12' maximum section length in 1' increments.

### OUTPUT AND LED TYPE

**LIGHT OUTPUT:** Four lumen packages available, Standard (**S**), Boosted Standard (**B**), High (**H**), and Very High (**V**). For lengths 3' and greater, the uplight and downlight can be specified with different lumen packages and dual controls. For Tailored Outputs outside of range from Standard (**S**) to Very High (**V**), consult factory. Light engines are replaceable.

### MECHANICAL/OPTICAL OPTIONS

**UPLIGHT OPTION<sup>1</sup>:** 12 ft. maximum diffuser length. 82% transmissive, 99% diffusion. Uniform, continuous illumination options include: Flush frost white snap-in diffuser, 73% transmissive, 99% diffusion; Wide-spread Optic (**WSO**). WSO enables increased luminaire spacing with improved ceiling uniformity. Consult factory for more tailored lumen outputs.

**DOWNLIGHT OPTION :** 12' maximum diffuser length. Flush frost white snap-in diffuser standard, 82% transmissive, 99% diffusion. Uniform, continuous illumination. Micro Louvers (**MLW/MLB**) are white or black and can be specified in 1' increments that provide continuous illumination (CS). Consult factory for more tailored lumen outputs.

**LUMEN MAINTENANCE:** 90% of initial light output (L90) at 55,000 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 controlling uplight and downlight together (power and dimming). Specify dual feeds for independent control of uplight and downlight. 14-gauge feed used when luminaire current exceeds 5 amps.

**STATIC WHITE DRIVER:** Replaceable 120V, 277V, and 347V 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. Separate dimming for uplight and downlight available. Driver is fully accessible from below the ceiling.

**Power Factor:**  $\geq 0.9$

**Total Harmonic Distortion (THD):** <20%

**Expected driver lifetime:** 100,000 hours

### LUTRON DRIVER OPTIONS:

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

### MOUNTING OPTIONS

**HANGING HARDWARE:** 50" Fully Adjustable (**FA**) steel-plated aircraft cable with safety stop hardware standard.

### OTHER OPTIONS

**ENDCAPS:** Flat diecast aluminum endcaps (**FE**) add 1/4" to each end of luminaire.

**EMERGENCY STYLE:** Optional emergency to generator/inverter wiring, internal generator transfer switch, nightlight wiring, step-dimming driver.

**FINISHES:** Finelite Signal White (**SW**) powder coat is standard. Finelite Black (RAL 9005) with semi gloss fine texture (**FB**) <sup>2</sup>, and Satin Aluminum (**SA**) <sup>2</sup> are available. Material Mimic options<sup>3</sup>: Gray Elm (**MM01**), White Oak (**MM02**), Teak (**MM03**), Walnut (**MM04**). Optional Adder: 179 RAL colors<sup>3</sup> are available.

**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 924 and UL 2108 - PoE options available on request. These fixtures are 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. Consult factory for tailored lighting options. 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.

### WEIGHT<sup>4</sup>:

ID - 1.8 lb/ft

D - 1.5 lb/ft

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

<sup>1</sup> Indirect/Direct only

<sup>2</sup> 15 business days lead time

<sup>3</sup> 20 business days lead time for colors

<sup>4</sup> Excludes Battery Back up and Generator Transfer Device weight

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

# High Performance 1" Aperture (HP-1) Pendant

## Indirect/Direct Photometry - 4' Luminaire 3500K

### HP1-P-ID-4'-V-V-835-F-F

**Uplight:** Flush Diffuser / **Downlight:** Flush Diffuser

**Distribution:** 52% Up (V) / 48% Down (V)

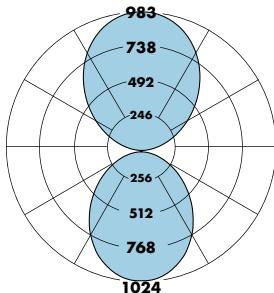
**Efficacy:** 122 lm/W

**Uplight:** 2782 lumens (696 lumens/foot)

**Downlight:** 2609 lumens (652 lumens/foot)

**Total luminaire output:** 5391 lumens (1348 lm/ft)  
44.4 watts (11.1 W/ft)

CRI: 80 / CCT: 3500K



### Total Light Output, 3500K, 80 CRI (Lumens) - 4' Luminaire

	↑S	↑B	↑H	↑V
↓S	1869 ↑51% ↓49%	2410 ↑62% ↓38%	3050 ↑70% ↓30%	3690 ↑75% ↓25%
↓B	2408 ↑40% ↓60%	2948 ↑51% ↓49%	3588 ↑60% ↓40%	4228 ↑66% ↓34%
↓H	3006 ↑32% ↓68%	3546 ↑42% ↓58%	4186 ↑51% ↓49%	4826 ↑58% ↓42%
↓V	3571 ↑27% ↓73%	4111 ↑37% ↓63%	4751 ↑45% ↓55%	5391 ↑52% ↓48%

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

	↑S	↑B	↑H	↑V
↓S	467	602	762	922
↓B	602	737	897	1057
↓H	751	887	1047	1207
↓V	893	1028	1188	1348

### Power, 3500K, 80 CRI (Watts Per Foot) - 4' Luminaire

	↑S	↑B	↑H	↑V
↓S	4.2	5.2	6.4	7.6
↓B	5.2	6.3	7.5	8.7
↓H	6.4	7.5	8.7	9.9
↓V	7.6	8.7	9.9	11.1

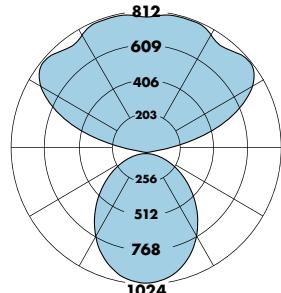
### Efficacy, 3500K, 80 CRI (Lumens Per Watt) - 4' Luminaire

	↑S	↑B	↑H	↑V
↓S	113	116	120	122
↓B	116	118	121	123
↓H	118	119	121	123
↓V	118	119	121	122

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

<sup>1</sup> Family Correlation based on 4' luminaire 3500K Very High Output (V) test - 120V.

<sup>2</sup> Based on HP1-P-D-4'-V-835-F-BLX2835 & HP1-P-I-4'-V-835-F-BLX2835 reports



### HP1-P-ID-4'-V-V-835-WSO-F

**Uplight:** WSO / **Downlight:** Flush Diffuser

**Distribution:** 53% Up (H) / 47% Down (H)

**Efficacy:** 124 lm/W

**Uplight:** 2887 lumens (722 lumens/foot)

**Downlight:** 2609 lumens (652 lumens/foot)

**Total luminaire output:** 5496 lumens (1374 lm/ft)  
44.4 watts (11.1 W/ft)

CRI: 80 / CCT: 3500K

### Total Light Output, 3500K, 80 CRI (Lumens) - 4' Luminaire

	↑S	↑B	↑H	↑V
↓S	1896 ↑52% ↓48%	2474 ↑63% ↓37%	3118 ↑71% ↓29%	3795 ↑76% ↓24%
↓B	2434 ↑41% ↓59%	3012 ↑52% ↓48%	3656 ↑60% ↓40%	4333 ↑67% ↓33%
↓H	3032 ↑33% ↓67%	3610 ↑43% ↓57%	4254 ↑52% ↓48%	4931 ↑59% ↓41%
↓V	3597 ↑27% ↓73%	4175 ↑38% ↓62%	4819 ↑46% ↓54%	5496 ↑53% ↓47%

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

	↑S	↑B	↑H	↑V
↓S	474	618	779	949
↓B	609	753	914	1083
↓H	758	903	1064	1233
↓V	899	1044	1205	1374

### Power, 3500K, 80 CRI (Watts Per Foot) - 4' Luminaire

	↑S	↑B	↑H	↑V
↓S	4.2	5.2	6.4	7.6
↓B	5.2	6.3	7.5	8.7
↓H	6.4	7.5	8.7	9.9
↓V	7.6	8.7	9.9	11.1

### Efficacy, 3500K, 80 CRI (Lumens Per Watt) - 4' Luminaire

	↑S	↑B	↑H	↑V
↓S	114	119	122	125
↓B	117	120	123	125
↓H	118	121	123	125
↓V	118	121	122	124

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

<sup>1</sup> Family Correlation based on 4' luminaire 3500K Very High Output (V) test - 120V.

<sup>2</sup> Based on HP1-P-D-4'-V-835-F-BLX2835 & HP1-P-I-4'-V-835-F-BLX2835 reports

Wattage is Real Power. Delivered lumens and actual wattage may vary +/- 5%. If you would like additional details to calculate Apparent Power, please contact your local Finelite representative.

### Sample Lumen Adjustment Calculation

Lumen Adjustment Factors 80 CRI	
2700K	0.948
3000K	0.971
3500K	1.000
4000K	1.032

Lumen Adjustment Factors 90 CRI	
2700K	0.814
3000K	0.834
3500K	0.858
4000K	0.887

High Output (H) / High Output (H), 3000K, 80 CRI

Lumen Adjustment Factor: 0.971

Total Light Output: 4186 lm x 0.971 = 4065 lm

Total Light Output per Foot: 1047 lm/ft x 0.971 = 1017 lm/ft.

watts/foot: 8.7 W/ft.

$$\text{Efficacy} = \frac{1017 \frac{\text{lm}}{\text{ft}}}{8.7 \frac{\text{W}}{\text{ft}}} = 117 \text{ lm/W}$$

Submitted by:	Date:
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# High Performance 1" Aperture (HP-1) Pendant

## Direct Photometry - 4' Luminaire 3500K

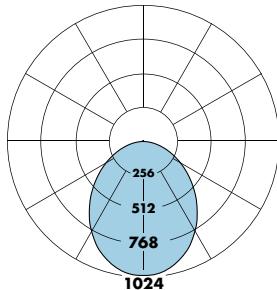
### HP1-P-D-4'-V-835-F

**Downlight:** Flush Diffuser

**Efficacy:** 118 lm/W

**Total luminaire output:** 2609 lumens (652 lm/ft)  
22.1 watts (5.5 W/ft)

CRI: 80 / CCT: 3500K



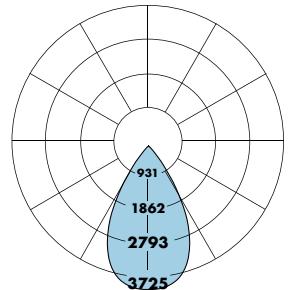
### HP1-P-D-4'-V-835-MLW

**Downlight:** White Micro Louver

**Efficacy:** 130 lm/W

**Total luminaire output:** 3603 lumens (901 lm/ft)  
27.6 watts (6.9 W/ft)

CRI: 80 / CCT: 3500K



## Total Light Output, 3500K, 80 CRI (Lumens) - 4' Luminaire

S	B	H	V
908	1446	2044	2609

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

S	B	H	V
227	362	511	652

## Power, 3500K, 80 CRI (Watts Per Foot) - 4' Luminaire

S	B	H	V
2.1	3.1	4.3	5.5

## Efficacy, 3500K, 80 CRI (Lumens Per Watt) - 4' Luminaire

S	B	H	V
110	116	118	118

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

<sup>1</sup> Family Correlation based on 4' luminaire 3500K Very High Output (V) test - 120V.

<sup>2</sup> Based on HP1-P-D-4'-V-835-F-BLX2835 reports

Wattage is Real Power. Delivered lumens and actual wattage may vary +/- 5%. If you would like additional details to calculate Apparent Power, please contact your local Finelite representative.

## Sample Lumen Adjustment Calculation

Lumen Adjustment Factors 80 CRI		Lumen Adjustment Factors 90 CRI	
2700K	0.948	2700K	0.814
3000K	0.971	3000K	0.834
3500K	1.000	3500K	0.858
4000K	1.032	4000K	0.887

High Output (H), 3000K, 80 CRI

Lumen Adjustment Factor: 0.971

Total Light Output: 2044 lm x 0.971 = 1985 lm

Total Light Output per Foot: 511 lm/ft x 0.971 = 496 lm/ft.

watts/foot: 4.3 W/ft.

$$\text{Efficacy} = \frac{496 \frac{\text{lm}}{\text{ft}}}{4.3 \frac{\text{W}}{\text{ft}}} = 115 \text{ lm/W}$$