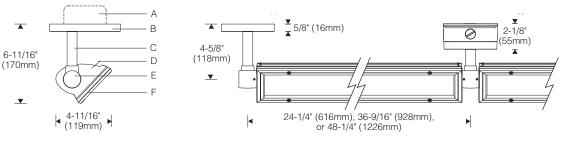
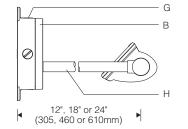
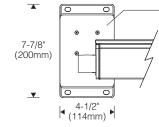
Solid State (LED)

Surface Hanger (Lighting Downward) 1:8 Scale

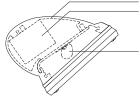


Cantilever Hanger with Splice Box





Internal Components 1:4 Scale



- **Specifications**
- A Recessed outlet box (by others)
- **B** Die-cast aluminum mounting plate
- **C** Aluminum surface hanger stem
- **D** Die-cast aluminum end plate E Die-cast aluminum hub
 - (1.5"W x 1.5" dia.)
- F Extruded aluminum door frame with mitered corners, tempered micro-prismatic glass lens
- G Die-cast aluminum splice box H Schedule 40 galvanized steel cantilever arm (7/8" O.D.)
- J Aluminum access cover with silicone gaskets
- K Extruded aluminum heat sink/ housing
- L Integral high power factor constant current driver
 - M Field serviceable light engine with fraqtir™
 - asymmetric optic

Watertight operation facing up or down Rugged all aluminum and stainless steel construction – polyester powder coat exceeds 1000 hour salt spray test

- Versatile surface, cantilever or pendant mount Several lumen packages that put the light on target

Performance

Features

fraqtir technology uses a combination of refraction and total internal reflection. creating a distribution of light ideal for illuminating surfaces uniformly. Glare is minimized while light delivered to the target is maximized, resulting in high application efficiency.

For LM79 and photometric reports. visit thelightingquotient.com



@ 25°C per TM-21



SV 2.0

Optic Assembly:

Two-piece extruded aluminum heat sink housing and light engine. Precision formed asymmetric optical light bar of high temperature, water-clear acrylic. Extruded aluminum door frame with tamper-resistant fasteners. Tempered microprismatic glass lens and holographic diffuser with silicone gasket for watertight operation when facing upward or downward.

Finish:

Exterior surfaces - 6 stage pretreatment and electrostatically applied thermoset polyester powder coating for a durable abrasion, fade and corrosion resistant finish. All hardware and components - non-corrosive stainless steel or aluminum.

Electrical:

Integral electronic HPF constant current driver(s), dimming drivers are optional. For complete driver specifications, see website, reference document MA-1303. 84" leads exit one end of housing (OF option, 84" leads exit both ends for feedthrough wiring).

Mounting:

Required 1-1/2" diameter x 1-1/2" aluminum hubs with 1/2" NPT threaded entry, ordered and priced separately. Housing aiming is adjustable - locks with set screws. Alternately, order hubs with surface, pendant or cantilever hangers (see SV2.1). Hangers include aluminum mounting plate, cover plate and hub with 7/8" O.D. steel arm/stem. Specify end kit or intermediate hubs/hangers.

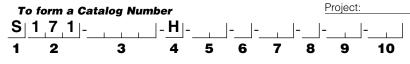
Fixture weight: 3.5 lb/ft (5.2 kg/m).

Standard:

UL listed or CSA certified for wet locations when mounted horizontally. For positions other than horizontal, consult factory. 5 year warranty, maximum ambient temperature 45°C (113°F).







1 Source

S = Solid state (LED)

2 Style

171 = Small linear outdoor LED, integral driver

3 Drive Current/Length/No. of LEDs

Solid State LED fractir linear drive current (LXZ2 emitters). fixture length (nominal), and number of emitters (composed of 6- or 7-LED boards), options below.

Lumen/Wattage Options:

L214	=	2ft	fixture,	14	LEDs	@	350mA,	16	watts,	1099	lumens
M214	=	2ft	fixture,	14	LEDs	@	700mA,	33	watts,	1998	lumens
L221	=	2ft	fixture,	21	LEDs	@	350mA,	24	watts,	1648	lumens
M221	=	2ft	fixture,	21	LEDs	@	700mA,	50	watts,	2997	lumens
L318	=	Зft	fixture,	18	LEDs	@	350mA,	21	watts,	1413	lumens
M318	=	Зft	fixture,	18	LEDs	@	700mA,	43	watts,	2569	lumens
L328	=	Зft	fixture,	28	LEDs	@	350mA,	32	watts,	2198	lumens
M328	=	Зft	fixture,	28	LEDs	@	700mA,	67	watts,	3996	lumens
L424	=	4ft	fixture,	24	LEDs	@	350mA,	27	watts,	1884	lumens
M424	=	4ft	fixture,	24	LEDs	@	700mA,	57	watts,	3425	lumens
L442	=	4ft	fixture,	42	LEDs	@	350mA,	47	watts,	3297	lumens
M442	=	4ft	fixture,	42	LEDs	@	700mA,	97	watts,	5895	lumens
Based on 4000K/70+CRI. Click here for scaled performance table.											
Note: J and K codes are discontinued.											

4 Mounting

H = For use with required mounting hubs only or mounting hubs with surface, pendant or cantilever hangers ordered and priced separately, see hubs/hangers at right

17 = Champagne

18 = Copper

5 Finish

SV

2.1

- **02** = Semialoss white
- **06** = Dark bronze
- 07 = Silver
- **08** = Semigloss black

6 Voltage/Driver

Electronic Driver 8 = 120-277V

Electronic Dimming Driver* M = 120-277V

3 = 347V

K = 347V

*Dimming range refers to % power input, % light output will vary. Note: 347V dimming from ZX dimming option only.

Refer to Driver Information document MA-1303

elliptipar with fractir[™]LED

7 Option

- **00** = No options
- **0F** = Feed-through wiring option
- V0 = Cutoff visor
- **VF** = Cutoff visor with feed-through wiring option
- **XX** = For modification not listed, include detailed description. Consult factory prior to specification.

8 Destination Requirement

= UL listed or CSA certified for U.S. 0

J = UL listed or CSA certified for Canada

9 Color Temperature

2700K, 80+ CRI	2H = 2700K, 90+ CRI
3000K, 80+ CRI	3H = 3000K, 90+ CRI
3500K, 80+ CRI	
4000K, 80+ CRI	4L = 4000K, 70+ CRI
	2700K, 80+ CRI 3000K, 80+ CRI 3500K, 80+ CRI 4000K, 80+ CRI

Additional CCT and CRI options are available; consult factory.

00 = Non-dimmina

- **ZX** = 0-10V analog dimming 120-277V or 347V input, dimming range 100%-5%, 0-10V controls by others
- **TE** = LighTech line voltage dimming 100-10% power (trailing edge/reverse phase/ELV dimming controls by others)
- **LH** = Lutron Hi-lume L3D 120-277V input, dimming range 100%-1%, Lutron 3-wire dimming controls by others
- range 100%-1%, EcoBus dimming controls by others

**Dimming range refers to % power input, % light output will vary.

Refer to Driver Information document MA-1303

Note: Number of drivers varies with number of LEDs, drive current and driver type.

Required Hubs, with Hangers

Type:

HOD, HOC (hubs only) or HDA, HDB, HDC, HDD, HDF, HDG (hubs with hangers) are required — ordered and priced separately. Order one hanger end kit for each individually mounted luminaire or each row. For a continuous row, order one intermediate hanger for each additional luminaire in the row. Example: three rows of four housings requires 3 end kits and 9 intermediate hangers. Note: Recessed outlet box by others or splice box style hanger required at each mounted location for electrical connections.

- HDA Surface hanger, mount/splice box options (intermediate)
- HDB Surface hanger, mount/splice box options (end kit/pair)
- HDC Cantilever hanger, mount/splice box options (intermediate)
- HDD Cantilever hanger, mount/splice box options (end kit/pair)
- HDF Pendant hanger, mount/splice box options (intermediate)
- **HDG** Pendant hanger, mount/splice box options (end kit/pair)

Required Hubs Only

HOD, HOC (hubs only) or HDA, HDB, HDC, HDD, HDF, HDG (hubs with hangers) are required - ordered and priced separately. For use with 1/2" rigid conduit or fittings (supplied by others). Order one hub end kit for each individually mounted luminaire or each row. For a continuous row, order one intermediate hub for each additional luminaire in the row. Example: three rows of four housings requires 3 end kits and 9 intermediate hubs. Note: Locate electrical feed at end of row.

HOD Hub end kit (pair)

HOC Intermediate mounting hub

4000K/70+CRI output shown.



elliptipar from The Lighting Quotient

114 Boston Post Road, West Haven, Connecticut 06516, USA Voice 203.931.4455 • Fax 203.931.4464 • thelightingquotient.com The external shapes of the housings are trademarks of Sylvan R. Shemitz Designs, LLC dba The Lighting Quotient, makers of elliptipar, tambient and fragtir.

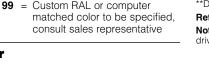
Certain products illustrated may be covered by applicable patents and patents pending. These specifications supersede all prior publications and are subject to change without notice. Copyright @ 2018 Sylvan R. Shemitz Designs, LLC, all rights reserved.

10 Dimming**

- L3 = Lutron Hi-lume L3D EcoSystem 120-277V input, dimming
- EL = eldoLED SOLOdrive 120-277V input, 0-10V analog dimming 100%-0.1% power (controls by others)

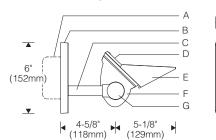
DOE Lighting Facts label for S171.

4ft (42 LEDs) fixture @ 700 mA.

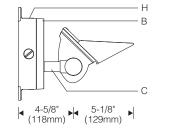


Uplighting Small outdoor, integral driver

Surface Hanger 1:8 Scale



Surface Hanger with Splice Box 1:8 Scale



A Recessed outlet box (by others)

Die-cast aluminum mounting

Aluminum surface hanger stem

with mitered corners, tempered

D Extruded aluminum door frame

micro-prismatic glass lens

0 7-7/8 (200mm) 0 0 . +- 1/2" (114mm) 4-1/2"

E Aluminum cutoff visor

G Die-cast aluminum hub

(1.5"W x 1.5" diameter)

F Die-cast aluminum

H Die-cast aluminum

splice box

end plate

4-1/2" 🕨

(114mm)

- J Aluminum splice/ access cover
 - K Schedule 40 galvanized steel cantilever arm (7/8" O.D.)
 - L Field serviceable light engine with fragtir[™] optic

M Integral high power factor constant current driver

- N Extruded aluminum heat sink/housing

Next Generation

Performance

fraqtir technology

For LM79 and

Optic Assembly:

plate

Specifications

Two-piece extruded aluminum heat sink housing and light engine. Precision formed asymmetric optical light bar of high temperature, water-clear acrylic. Extruded aluminum door frame with tamper-resistant fasteners. Tempered microprismatic glass lens and holographic diffuser with silicone gasket for watertight operation when facing upward or downward.

Finish:

в

С

Exterior surfaces - 6 stage pretreatment and electrostatically applied thermoset polyester powder coating for a durable abrasion, fade and corrosion resistant finish. All hardware and components - non-corrosive stainless steel or aluminum.

Electrical:

Integral electronic HPF constant current driver(s), dimming drivers are optional. 84" leads exit one end of housing (OF option, 84" leads exit both ends for feed-through wiring). For complete driver specifications, see website, reference document MA-1303

Mounting:

Required 1-1/2" diameter x 1-1/2" aluminum hubs with 1/2" NPT threaded entry, ordered and priced separately. Housing aiming is adjustable - locks with set screws. Alternately, order hubs with surface, pendant or cantilever hangers (see SU2.1). Hangers include aluminum mounting plate, cover plate and hub with 7/8" O.D. steel arm/stem. Specify end kit or intermediate hubs/hangers.

Fixture weight: 3.5 lb/ft (5.2 kg/m).

Standard:

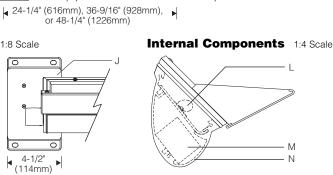
UL listed or CSA certified for wet locations when mounted horizontally. For positions other than horizontal, consult factory. 5 year warranty, maximum ambient temperature 45°C (113°F).

- Rugged all aluminum and stainless steel construction polyester powder coat exceeds 1000 hour salt spray test
- Versatile surface, cantilever or pendant mount
- Several lumen packages that put the light on target

uses a combination of refraction and total internal reflection. creating a distribution of light ideal for illuminating surfaces uniformly. Glare is minimized while light delivered to the target is maximized, resulting in high application efficiency.

photometric reports, visit thelightingquotient.com

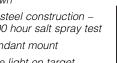
Solid State (LED)



2-1/8

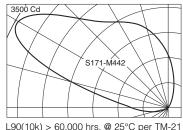
Watertight operation facing up or down

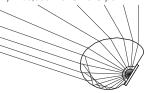
Features



SU

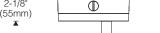
2.0

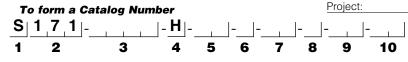












1 Source

S = Solid state (LED)

2 Style

171 = Small linear outdoor LED, integral driver

3 Drive Current/Length/No. of LEDs

Solid State LED fragtir linear drive current (LXZ2 emitters), fixture length (nominal), and number of emitters (composed of 6- or 7-LED boards), options below.

Lumen/Wattage Options:

L214 = 2ft fixture, 14 LEDs @ 350mA, 16 watts, 1099 lumens M214 = 2ft fixture, 14 LEDs @ 700mA, 33 watts, 1998 lumens L221 = 2ft fixture, 21 LEDs @ 350mA, 24 watts, 1648 lumens M221 = 2ft fixture, 21 LEDs @ 700mA, 50 watts, 2997 lumens L318 = 3ft fixture, 18 LEDs @ 350mA, 21 watts, 1413 lumens M318 = 3ft fixture, 18 LEDs @ 700mA, 43 watts, 2569 lumens L328 = 3ft fixture, 28 LEDs @ 350mA, 32 watts, 2198 lumens M328 = 3ft fixture, 28 LEDs @ 700mA, 67 watts, 3996 lumens L424 = 4ft fixture, 24 LEDs @ 350mA, 27 watts, 1884 lumens M424 = 4ft fixture, 24 LEDs @ 700mA, 57 watts, 3425 lumens L442 = 4ft fixture, 42 LEDs @ 350mA, 47 watts, 3297 lumens M442 = 4ft fixture, 42 LEDs @ 700mA, 97 watts, 5895 lumens

Based on 4000K/70+CRI. Click here for scaled performance table Note: J and K codes are discontinued.

4 Mounting

H = For use with required mounting hubs only or mounting hubs with surface, pendant or cantilever hangers ordered and priced separately, see hubs/hangers at right.

5 Finish

- **02** = Semigloss white
- **06** = Dark bronze
- 07 = Silver
- **08** = Semigloss black
- 17 = Champagne 18 = Copper
- 99 = Custom RAL or computer
 - matched color to be specified. consult sales representative

6 Voltage/Driver

- Electronic Driver 8 = 120-277V
- 3 = 347V
- M = 120-277VK = 347V

Electronic Dimming Driver*

*Dimming range refers to % power input, % light output will vary.

Note: 347V dimming from ZX dimming option only. Refer to Driver Information document MA-1303

7 Option

- **00** = No options
- **0F** = Feed-through wiring option
- V0 = Cutoff visor
- **VF** = Cutoff visor with feed-through wiring option
- **XX** = For modification not listed, include detailed description. Consult factory prior to specification.

8 Destination Requirement

- **0** = UL listed or CSA certified for U.S.
- J = UL listed or CSA certified for Canada

9 Color Temperature

2700K, 80+ CRI	2H = 2700K, 90+ CRI
3000K, 80+ CRI	3H = 3000K, 90+ CRI
3500K, 80+ CRI	
4000K, 80+ CRI	4L = 4000K, 70+ CRI
	2700K, 80+ CRI 3000K, 80+ CRI 3500K, 80+ CRI 4000K, 80+ CRI

Additional CCT and CRI options are available; consult factory.

10 Dimmina**

- **00** = Non-dimming
- ZX = 0.10V analog dimming 120-277V or 347V input. dimming range 100%-5%, 0-10V controls by others
- **TE** = LighTech line voltage dimming 100-10% power (trailing edge/reverse phase/ELV dimming controls by others)
- **LH** = Lutron Hi-lume L3D 120-277V input, dimming range 100%-1%, Lutron 3-wire dimming controls by others
- L3 = Lutron Hi-lume L3D EcoSystem 120-277V input, dimming range 100%-1%, EcoBus dimming controls by others
- EL = eldoLED SOLOdrive 120-277V input, 0-10V analog dimming 100%-0.1% power (controls by others)

**Dimming range refers to % power input, % light output will vary.

Refer to Driver Information document MA-1303

Note: Number of drivers varies with number of LEDs, drive current and driver type.

elliptipar from The Lighting Quotient

114 Boston Post Road, West Haven, Connecticut 06516, USA Voice 203.931.4455 • Fax 203.931.4464 • thelightingquotient.com

Required Hubs, with Hangers

Type:

HOD, HOC (hubs only) or HDA, HDB, HDC, HDD, HDF, HDG (hubs with hangers) are required — ordered and priced separately. Order one hanger end kit for each individually mounted luminaire or each row. For a continuous row, order one intermediate hanger for each additional luminaire in the row. Example: three rows of four housings requires 3 end kits and 9 intermediate hangers. Note: Recessed outlet box by others or splice box style hanger required at each mounted location for electrical connections.

- HDA Surface hanger, mount/splice box options (intermediate)
- HDB Surface hanger, mount/splice box options (end kit/pair)
- HDC Cantilever hanger, mount/splice box options (intermediate)
- HDD Cantilever hanger, mount/splice box options (end kit/pair)
- HDF Pendant hanger, mount/splice box options (intermediate)
- **HDG** Pendant hanger, mount/splice box options (end kit/pair)

Required Hubs Only

HOD, HOC (hubs only) or HDA, HDB, HDC, HDD, HDF, HDG (hubs with hangers) are required - ordered and priced separately. For use with 1/2" rigid conduit or fittings (supplied by others). Order one hub end kit for each individually mounted luminaire or each row. For a continuous row, order one intermediate hub for each additional luminaire in the row. Example: three rows of four housings requires 3 end kits and 9 intermediate hubs. Note: Locate electrical feed at end of row.

HOD Hub end kit (pair)

HOC Intermediate mounting hub

DOE Lighting Facts label for S171.

4ft (42 LEDs) fixture @ 700 mA. 4000K/70+CRI output shown.



The external shapes of the housings are trademarks of Sylvan R. Shemitz Designs, LLC dba The Lighting Quotient, makers of elliptipar, tambient and fragtir.

Certain products illustrated may be covered by applicable patents and patents pending. These specifications supersede all prior publications and are subject to change without notice. Copyright @ 2018 Sylvan R. Shemitz Designs, LLC, all rights reserved.





SU

2.1

7/18

Style S17