Microlinea™ Suspended Series 2 - Indirect

(1 7/8" Luminous Aperture)

MLS2-Indirect

2 1/4" X 3 1/2" Indirect Only
Suspended Mount

TW TunableWhite Available

DLC LISTED™

5 Year Limited Warranty LED Boards & Drivers
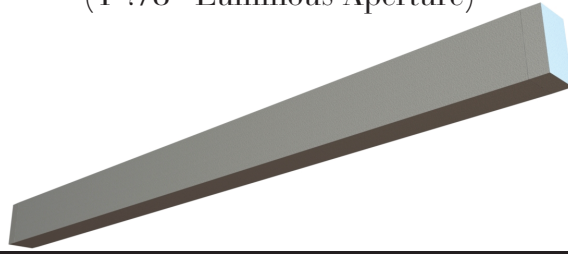
S P E C I F I C A T I O N S

Housing
One-piece .070" thick extruded aluminum. Die-cast aluminum end caps are secured with no visible fasteners. Standard lengths are nominal 2', 3', 4', 6' 8' and 12'. Provisions may be made for continuous rows of any length.

Finish
Standard and premium finishes are baked powder coat electrostatically applied (2.0 mil minimum thickness) to assure aesthetics and durability.

Indirect Optical Controls
■ (FDC) Frosted 100% polycarbonate dust cover - Standard distribution.
■ (WSOP) Wide-Spread Optic/W. S. Distribution - Open Top.
■ (WSDC) Wide-Spread Optic/W.S. Distribution - Clear 100% polycarbonate dust cover.

Reflector/Heat Sink
.040" thick die-formed aluminum finished with a high reflectance white enamel.

Circuitry
All fixtures are factory pre-wired for a single circuit. Provision for multiple switching/circuiting is optional.

Integral Controls
Contact factory for daylight and/or occupancy sensor controls.

Wiring
All fixtures intended for continuous rows are provided with factory installed quick-connect wiring.

Driver (Standard)
Power supply is UL/CUL recognized, 0-10V dimming available, 120-277 universal voltage. 347V is available.

Light Engine (Standard)
LED light source available for 3000K, 3500K, and 4000K CCT, in high and medium light outputs, and 80 or 90 CRI.
Standard outputs at 80 CRI:
HO -High Output (Frosted Dust Cover)
    *885 Total Delivered Lms/Ft and 7 Watts/Ft
HO -High Output (Wide-Spread Optic/Open Top)
    *942 Total Delivered Lms/Ft and 7 Watts/Ft
MO -Medium Output (Frosted Dust Cover)
    *600 Total Delivered Lms/Ft and 4.75 Watts/Ft
MO -Medium Output (Wide-Spread Optic/Open Top)
    *644 Total Delivered Lms/Ft and 4.75 Watts/Ft

(*All values per using 4000K LED modules)

Driver (Tunable White)
EldoLED power supply is UL recognized, DALI or DMX available, 120-277 universal voltage.

Light Engine (Tunable White)
Tunable White LED light source available for 2700K thru 6500K CCT, and 80 or 90 CRI. Contact factory for available outputs.
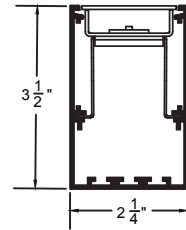
*Due to continued advancement in LED technology, lumen performance is subject to change. Please visit our website for the most up-to-date information.
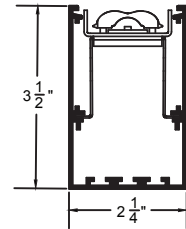
Certification
Fixtures are ETL listed for use in 'Dry or Damp Applications.' Conforms to UL Standard #1598 and to CAN/CSA #C22.2No.250.0

MLS2 - Indirect
Shown with optional Frosted Dust Cover

(3 1/2", 2 1/4")

MLS2 - Indirect
Shown with optional Wide-Spread Optic

(3 1/2", 2 1/4")

Wide-Spread Optic
The WS optic is a precisely designed, optical-grade acrylic LED-refraction system. Engineered for superior ceiling uniformity, it provides a more comfortable illuminated space while reducing energy requirements.

Sample Catalog Number: **MLS2 - I - HO - K40 - 80 - 4 - CN - WSOP - F01M - UNV - DIM1 - OPTIONS**

MLS2 - I   Microlinea Suspended Series 2 - Indirect
Lumen Output: **HO** - Hi Output (FDC) = 885 Total Lms/Ft - 128 Lm/W
(Using 4000K) **HO** - Hi Output (WSOP) = 942 Total Lms/Ft - 136 Lm/W
   MO - Med. Output (FDC) = 600 Total Lms/Ft - 130 Lm/W
   MO - Med. Output (WSOP) = 644 Total Lms/Ft - 139 Lm/W
   CO - Custom Output - 1566 Lms/Ft - MAX. (Contact factory)
CCT: **K30** - 3000K, **K35** - 3500K, **K40** - 4000K, **TW** - Tunable White (2700K - 6500K)
CRI: **80** (Standard), **90** (Optional)
Fixture Length: **2', 3', 4', 6', 8', 12'**
   For continuous rows of 12' or longer, specify nominal row lengths in 1' increments.
Mounting: **CN** = Cable (Non T-Bar) Fully Adjustable (36" Std.)
Indirect Optical Controls: **FDC** = Frosted Polycarb. Dust Cover   **WSOP** = Wide-Spread Optic/Distribution - Open Top
   WSDC = Wide-Spread Optic/Distribution - Clear Polycarbonate Dust Cover
Standard Finish: **F01M** Matte White   Premium Finishes: **F01G** Gloss White   **F06** Pebble Beach   **F11G** Gloss Black   **F15** Lemon
   F02 Ivory   **F07** Steel   **F11M** Matte Black   **F16** Forest Hunter
   F03 Stonewash   **F08** Gray Seal   **F12** Ultrasonic Clear   **F20** Blue Print
   F04 Camel   **F09** Mocha   **F13** Merlot   **F21** Reflex Blue
   F05 Gray Day   **F10** Bronzed   **F14** Red Skies   **F22** Navy
      FCC Custom Color
Voltage: **UNV** (120-277V Universal Voltage), **347V**
Dimming: **DIMX** = Standard Driver - no Dimming   **DIM1** = Standard Driver wired for Dimming - 100% to 1%   **DIM0** = Optional Driver with Dimming - 100% to 0%
Options: **NLCKT** = Night-Light Circuit (Common Neutral)   **EMCKT** = Emerg. Circuit (Separate Hot & Neutral)   **EBPHST** = Self-Test. Emerg. Battery Pack (10 Watt) *N/A for 2' & 3'
   DALI = DALI Protocol Driver (Tun. White)   **DMX** = DMX Protocol Driver (Tun. White)   **0-10V/TW** = 0-10V Driver (Tun. White)   **FS** = Fused Drivers   **GTD** = Generator Transfer Device

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Suspended - Indirect

MLS2 - I - HO - K40 - FDC

Indirect - High Output

Frosted Polycarbonate Dust Cover

Catalog Number:	MLS2-I-HO-K40-80-4'-X-FDC-UNV
Report Number:	#LLIA000844-005-R01.ies
Luminaire Description:	Extruded Aluminum Housing with White Aluminum Reflector and Frosted Polycarbonate Dust Cover Up
LED Module:	Multiple White Low-Power Light Emitting Diodes (LEDs) in a precise lay-out.

Total Luminaire Efficacy = 127.8 Lm/W
Color Rendering Index (CRI) = 84
100% Up

LEGEND:
0-deg
90-deg

LED lighting facts®
A Program of the U.S. DOE

Precision Architectural Lighting, Inc.

Light Output (Lumens)	3541
Watts	27.69
Lumens per Watt (Efficacy)	127.88
Color Accuracy Color Rendering Index (CRI)	84

Light Color
Correlated Color Temperature (CCT): **3962 (Bright White)**

Warm White	Bright White	Daylight	
2700K	3000K	4500K	6500K

All results are according to IESNA LM-79-2008: *Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.* The U.S. Department of Energy (DOE) verifies product test data and results.

Visit www.lightingfacts.com for the *Label Reference Guide.*

Registration Number: 1NRP-R1NS6B (12/26/2017)
Model Number: MLS2-I-HO-K40-XX-4-XX-FDC-XXXX-120
Type: Luminaire - Linear

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MLS2 - I - MO - K40 - FDC

Indirect - Medium Output

Frosted Polycarbonate Dust Cover

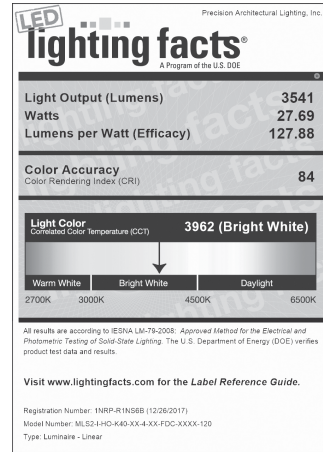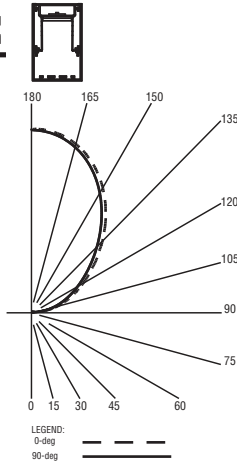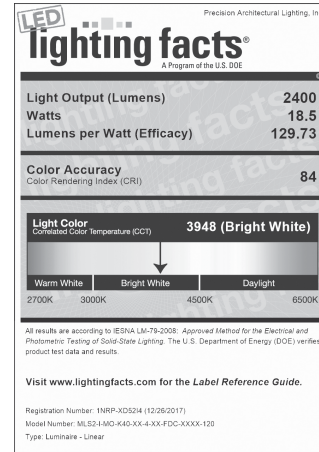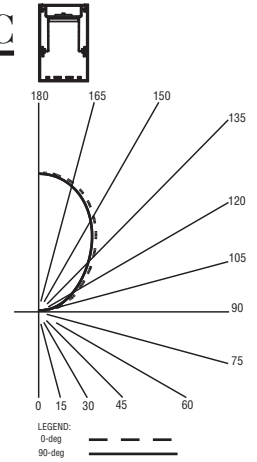|	
Catalog Number:	MLS2-I-MO-K40-80-4'-X-FDC-UNV
Report Number:	#LLIA000844-006-R01.ies
Luminaire Description:	Extruded Aluminum Housing with White Aluminum Reflector and Frosted Polycarbonate Dust Cover Up
LED Module:	Multiple White Low-Power Light Emitting Diodes (LEDs) in a precise lay-out.

Total Luminaire Efficacy = 129.7 Lm/W
Color Rendering Index (CRI) = 84
100% Up

LEGEND:
0-deg
90-deg

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Precision Architectural Lighting, Inc.

Light Output (Lumens)	2400
Watts	18.5
Lumens per Watt (Efficacy)	129.73
Color Accuracy Color Rendering Index (CRI)	84

Light Color
Correlated Color Temperature (CCT): **3948 (Bright White)**

Warm White	Bright White	Daylight	
2700K	3000K	4500K	6500K

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Registration Number: 1NRP-XD52I4 (12/26/2017)
Model Number: MLS2-I-MO-K40-XX-4-XX-FDC-XXXX-120
Type: Luminaire - Linear

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MLS2 - I - HO - K40 - WSOP

Indirect - High Output

Wide-Spread Optic/Distribution - Open Top

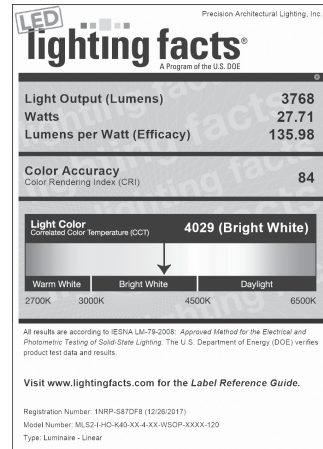|	
Catalog Number:	MLS2-I-HO-K40-80-4'-X-WSOP-UNV
Report Number:	#LLIA000844-001-R01.ies
Luminaire Description:	Extruded Aluminum Housing with White Aluminum Reflector and Acrylic Optical 'Wide-Spread' Insert
LED Module:	Multiple White Low-Power Light Emitting Diodes (LEDs) in a precise lay-out.

Total Luminaire Efficacy = 136.0 Lm/W
Color Rendering Index (CRI) = 84
100% Up

LEGEND:
0-deg
90-deg

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Precision Architectural Lighting, Inc.

Light Output (Lumens)	3768
Watts	27.71
Lumens per Watt (Efficacy)	135.98
Color Accuracy Color Rendering Index (CRI)	84

Light Color
Correlated Color Temperature (CCT): **4029 (Bright White)**

Warm White	Bright White	Daylight	
2700K	3000K	4500K	6500K

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Registration Number: 1NRP-S87OF8 (12/26/2017)
Model Number: MLS2-I-HO-K40-XX-4-XX-WSOP-XXXX-120
Type: Luminaire - Linear

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MLS2 - I - MO - K40 - WSOP

Indirect - Medium Output

Wide-Spread Optic/Distribution - Open Top

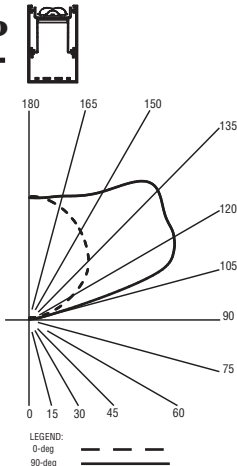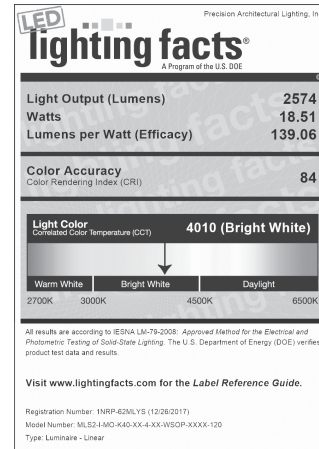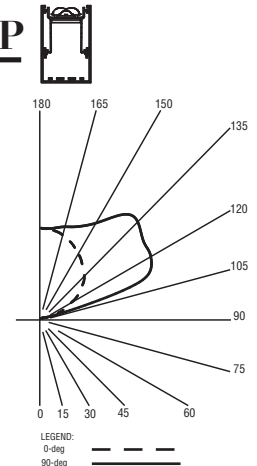|	
Catalog Number:	MLS2-I-MO-K40-80-4'-X-WSOP-UNV
Report Number:	#LLIA000844-002-R01.ies
Luminaire Description :	Extruded Aluminum Housing with White Aluminum Reflector and Acrylic Optical 'Wide-Spread' Insert
LED Module:	Multiple White Low-Power Light Emitting Diodes (LEDs) in a precise lay-out.

Total Luminaire Efficacy = 139.1 Lm/W
Color Rendering Index (CRI) = 84
100% Up

LEGEND:
0-deg
90-deg

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Precision Architectural Lighting, Inc.

Light Output (Lumens)	2574
Watts	18.51
Lumens per Watt (Efficacy)	139.06
Color Accuracy Color Rendering Index (CRI)	84

Light Color
Correlated Color Temperature (CCT): **4010 (Bright White)**

Warm White	Bright White	Daylight	
2700K	3000K	4500K	6500K

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Visit www.lightingfacts.com for the *Label Reference Guide.*

Registration Number: 1NRP-62MLYS (12/26/2017)
Model Number: MLS2-I-MO-K40-XX-4-XX-WSOP-XXXX-120
Type: Luminaire - Linear

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For more information, visit our website at www.pal-lighting.com