

Microlinea™ Wall Series 2 - LED



Catalog Number	Type
Project Name	

MLP2-IASY/D-LED

2 1/4" x 4 1/2" Indirect/Direct

ADA Compliant

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

- (OP) Open
- (FDC) Frosted 100% Polycarbonate Dust Cover

Direct Optical Controls

(LOH) .070" thick, high transmittance extruded acrylic snap-in lens, formulated for maximum diffusion of the LED light source.

Reflector/Heat Sink

- Indirect - .040" thick die-formed aluminum finished with a high reflectance white enamel.
- Direct - .040" thick die-formed aluminum finished with a high reflectance white enamel.

Driver (Standard)

Osram-Sylvania "Optotronic" power supply is UL/CUL recognized, 0-10V dimming available, 120-277 universal voltage.

Light Engine (Standard)

Osram-Sylvania LED modules available for 3000K, 3500K and 4000K CCT: Standard outputs at 80 CRI:

- MO/MO: *4495 Total Delivered Lms. at 49 System Watts
 - MO/HO: *5419 Total Delivered Lms. at 65 System Watts
 - HO/MO: *5883 Total Delivered Lms. at 66 System Watts
 - HO/HO: *6777 Total Delivered Lms. at 81 System Watts
- (*Values per 4' length using 3500K LED modules)

Driver (Tunable White)

EldoLED power supply is UL recognized, DALI 0-10V, 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.

Circuitry

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

Wiring

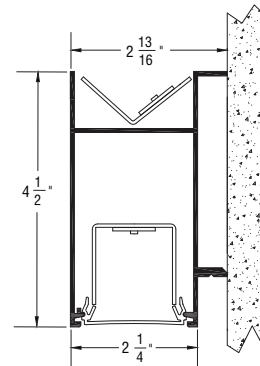
All fixtures intended for continuous rows are provided with factory installed quick-connect wiring.

Controls

Contact factory for control by Occupancy Sensors, Photo Controls and Daylight Harvesting.

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.



MLP2-IASY/D-MO/MO
MLP2-IASY/D-MO/HO
MLP2-IASY/D-HO/MO
MLP2-IASY/D-HO/HO

*Due to continued advancement in LED technology, lumen performance is subject to change. Please visit our website for the most up-to-date information.

Sample Cat. Number: **MLP2-IASY/D - HO/HO - K40 - 80 - 4 - W - OP / LOH - F01M - 120 - DIM1 - OPTIONS**

<p>PAL MLP2-IASY/D Indirect-Asymmetric/Direct</p> <p>Lumen Output/4': HO/HO - Hi Output (Up/Dn) = 6777 Total Lms. - 81 Lm/W (Using 3500K)</p> <p>HO/MO - Hi Output (Up)/Med. Output (Dn) = 5883 Total Lms. - 89 Lm/W</p> <p>MO/HO - Med. Output (Up)/Hi Output (Dn) = 5419 Total Lms. - 83 Lm/W</p> <p>MO/MO - Medium Output (Up/Down) = 4495 Total Lms. - 90 Lm/W</p> <p>CO/CO - Custom Output (Contact factory for available output range)</p> <p>CCT: K30 - 3000K, K35 - 3500K, K40 - 4000K, TW - Tunable White (2700K - 6500K)</p> <p>CRI: 80 (Standard), 90 (Optional)</p> <p>Fixture Length: 2', 3', 4', 6', 8', 12'</p> <p>For continuous rows of 12' or more, specify nominal row length in 1' increments.</p> <p>Mounting: W = Wall Mount</p> <p>Indirect Optical Controls: OP = Open FDC = Frosted Dust Cover</p> <p>Direct Optical Controls: LOH = LED Optimized Acrylic Snap-in Lens</p> <p>Standard Finish: F01M Matte White Premium Finishes:</p> <table border="0"> <tr> <td>F01G Gloss White</td> <td>F06 Pebble Beach</td> <td>F11G Gloss Black</td> <td>F15 Lemon</td> </tr> <tr> <td>F02 Ivory</td> <td>F07 Steel</td> <td>F11M Matte Black</td> <td>F16 Forest Hunter</td> </tr> <tr> <td>F03 Stonewash</td> <td>F08 Gray Seal</td> <td>F12 Ultrasonic Clear</td> <td>F20 Blue Print</td> </tr> <tr> <td>F04 Camel</td> <td>F09 Mocha</td> <td>F13 Merlot</td> <td>F21 Reflex Blue</td> </tr> <tr> <td>F05 Gray Day</td> <td>F10 Bronzed</td> <td>F14 Red Skies</td> <td>F22 Navy</td> </tr> <tr> <td></td> <td></td> <td></td> <td>FCC Custom Color</td> </tr> </table> <p>Voltage: 120V, 277V, 347V or UNV (Universal Voltage)</p> <p>Dimming: DIM1 = Standard Driver with Available Dimming - 100% to 1% DIM0 = Optional Driver with Available Dimming - 100% to 0% (Dark)</p> <p>Options: SS(U/L) = (Upper/Lower) LED Row Sep. Switching (Common Neutral) NLCKT = Night-Light Circuit (Common Neutral) EMCKT = Emergency Circuit (Separate Hot & Neutral)</p> <p>EBPHST = Self-Test. Emergency Battery Pack (10 Watt) *N/A for 2' & 3' DALI = DALI Protocol Driver (Tunable White) 0-10V/TW = 0-10V Driver (Tunable White)</p> <p>DMX = DMX Protocol Driver (Tunable White) FS = Fused Drivers GTD = Generator Transfer Device</p>	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	<p>MLP2-IASY/D</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p> <p>W</p> <p>-</p> <p>/</p> <p>LOH</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p>
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																						



Precision Architectural Lighting 4830 Timber Creek Drive Houston, Texas 77017
Tel 713.946.4343 Fax 713.946.4441 www.pal-lighting.com



Made in America

Wall

MLP2-I/D-HO/HO-K35-OP/LOH



High Output Up/High Output Down

LED Optimized High Transmittance Lens

Catalog Number: MLP2-I/D-HO/HO-K35-4'-W-OP/LOH-120

Report Number: ITL#80651.ies

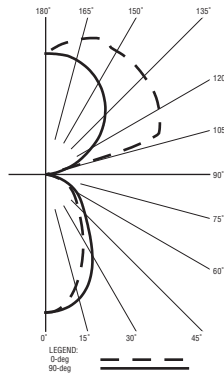
Luminaire Description: Extruded Aluminum Housing with White Aluminum Reflector and LED Optimized Acrylic Lens with Insert

LED Module: Multiple White Low-Power Light Emitting Diodes (LEDs) in a precise lay-out.

Total Luminaire Efficacy = 83.2 Lm/W

Color Rendering Index (CRI) = 82

60% Up 40% Down



PRECISION ARCHITECTURAL LIGHTING	
lighting facts A Program of the U.S. DOE	
Light Output (Lumens)	6777
Watts	81.5
Lumens per Watt (Efficacy)	83
Color Accuracy Color Rendering Index (CRI)	82
Light Color Correlated Color Temperature (CCT)	3507 (Bright White)
Warm White	Bright White
2700K	3000K
4500K	6500K
Daylight	
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-NQWZT (3/27/2014)	
Model Number: MLP2-IASVD-HO-HO-K35-4-OP/LOH-120	
Type: Luminaire - Linear	

MLP2-I/D-MO/HO-K35-OP/LOH



Medium Output Up/High Output Down

LED Optimized High Transmittance Lens

Catalog Number: MLP2-I/D-MO/HO-K35-4'-W-OP/LOH-120

Report Number: ITL#80654.ies

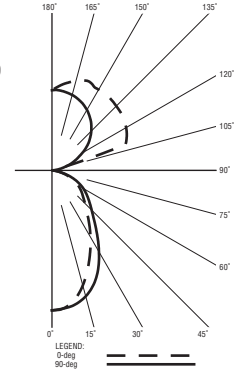
Luminaire Description: Extruded Aluminum Housing with White Aluminum Reflector and LED Optimized Acrylic Lens with Insert

LED Module: Multiple White Low-Power Light Emitting Diodes (LEDs) in a precise lay-out.

Total Luminaire Efficacy = 83.1 Lm/W

Color Rendering Index (CRI) = 82

49% Up 51% Down



PRECISION ARCHITECTURAL LIGHTING	
lighting facts A Program of the U.S. DOE	
Light Output (Lumens)	5419
Watts	65.2
Lumens per Watt (Efficacy)	83
Color Accuracy Color Rendering Index (CRI)	82
Light Color Correlated Color Temperature (CCT)	3505 (Bright White)
Warm White	Bright White
2700K	3000K
4500K	6500K
Daylight	
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-DOEHN (3/27/2014)	
Model Number: MLP2-IASVD-MO-HO-K35-4-OP/LOH-120	
Type: Luminaire - Linear	

MLP2-I/D-HO/MO-K35-OP/LOH



High Output Up/Medium Output Down

LED Optimized High Transmittance Lens

Catalog Number: MLP2-I/D-HO/MO-K35-4'-W-OP/LOH-120

Report Number: ITL#80652.ies

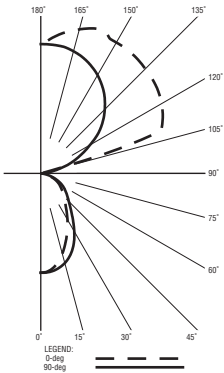
Luminaire Description: Extruded Aluminum Housing with White Aluminum Reflector and LED Optimized Acrylic Lens with Insert

LED Module: Multiple White Low-Power Light Emitting Diodes (LEDs) in a precise lay-out.

Total Luminaire Efficacy = 89.3 Lm/W

Color Rendering Index (CRI) = 82

69% Up 31% Down



PRECISION ARCHITECTURAL LIGHTING	
lighting facts A Program of the U.S. DOE	
Light Output (Lumens)	5883
Watts	65.9
Lumens per Watt (Efficacy)	89
Color Accuracy Color Rendering Index (CRI)	82
Light Color Correlated Color Temperature (CCT)	3507 (Bright White)
Warm White	Bright White
2700K	3000K
4500K	6500K
Daylight	
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-RESEL (3/27/2014)	
Model Number: MLP2-IASVD-HO/MO-K35-4-OP/LOH-120	
Type: Luminaire - Linear	

MLP2-I/D-MO/MO-K35-OP/LOH



Medium Output Up/Medium Output Down

LED Optimized High Transmittance Lens

Catalog Number: MLP2-I/D-MO/MO-K35-4'-W-OP/LOH-120

Report Number: ITL#80653.ies

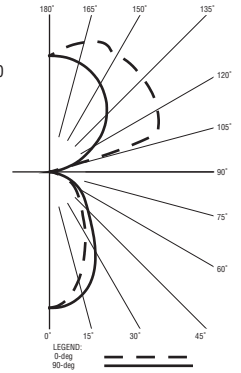
Luminaire Description: Extruded Aluminum Housing with White Aluminum Reflector and LED Optimized Acrylic Lens with Insert

LED Module: Multiple White Low-Power Light Emitting Diodes (LEDs) in a precise lay-out.

Total Luminaire Efficacy = 90.8 Lm/W

Color Rendering Index (CRI) = 82

59% Up 41% Down



PRECISION ARCHITECTURAL LIGHTING	
lighting facts A Program of the U.S. DOE	
Light Output (Lumens)	4495
Watts	49.5
Lumens per Watt (Efficacy)	90
Color Accuracy Color Rendering Index (CRI)	82
Light Color Correlated Color Temperature (CCT)	3499 (Bright White)
Warm White	Bright White
2700K	3000K
4500K	6500K
Daylight	
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-PBTZM (3/27/2014)	
Model Number: MLP2-IASVD-MO/MO-K35-4-OP/LOH-120	
Type: Luminaire - Linear	

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



Precision Architectural Lighting 4830 Timber Creek Drive Houston, Texas 77017
Tel 713.946.4343 Fax 713.946.4441 www.pal-lighting.com



Made in America