## Microlinea<sup>™</sup> Direct Suspended or Ceiling Mount Series 5

Catalog Number Project Name





### Housing

One-piece .090" 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 patterns and continuous rows of any length.

Standard and premium finishes are baked powder coat electrostatically applied (2.0 mil minimum thickness) to assure aesthetics and durability. Standard finish for stems and canopies is white.

#### **Optical Controls**

(LOH) LED optimized high transmittance acrylic snap-in lens.

#### 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.

#### Wiring

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

#### **Integral Controls**

Contact factory for daylight and/or occupancy sensor controls.

#### 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 standard for 3000K, 3500K and 4000K CCT, in high and medium light outputs, 80 or 90 CRI. Standard outputs at 80 CRI:

#### HO-High Output (DCL Listed)

\*3633 Total Delivered Lms. at 31 System Watts

#### MO -Medium Output (DCL Listed)

\*2232 Total Delivered Lms. at 18 System Watts (\*All values per 4' 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.

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

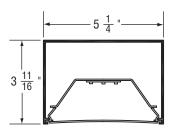
#### Certification

Fixtures are ETL listed for use in 'Dry or Damp Applications.' Conforms to UL Standard #1598 and to CAN/CSA #C22.2No.250.0.

### MLS5-D-LED

5-1/4" X 3-11/16" Direct Suspended or Ceiling Mount





MLS5-D-HO MLS5-D-MO

Sample Catalog Number: MLS5-D - HO - K40 - 80 - 4 - CN - LOH - F01M - 120 - DIM1 - OPTIONS LOH MLS5-D Microlinea Susp./Ceiling Mt. Series 5 - Direct Lumen Output / 4': HO - High Output = 3633 Total Lms. - 117 Lm/W MO - Medium Output = 2232 Total Lms. - 122 Lm/W CO - Custom Output (Contact factory for available output range) CCT: K30-3000K, K35-3500K, K40-4000K, TW-Tunable White (2700K-6500K) CRI: 80 (Standard), 90 (Optional) Fixture Lengths: 2', 3', 4', 6', 8' and 12' -For continuous rows of 12' or longer, specify nominal row length in 1' increments Mounting: **CN** = Cable (Non T-Bar) Fully Adjustable (36" Std.) **P** = Rigid Stem (Up to 48" Long - Std.) K = Swivel Stem (Up to 48" Long - Std.) J = Ceiling Mount Direct Optical Control: LOH = LED Optimized Acrylic Snap-in Lens Standard Finish: F01M Matte White Premium Finishes: F01G Gloss White F08 Gray Seal F14 Red Skies F02 Ivory F09 Mocha F15 Lemon F16 Forest Hunter F03 Stonewash F10 Bronzed F04 Camel F11G Gloss Black F20 Blue Print F05 Grav Day F11M Matte Black F21 Reflex Blue F06 Pebble Beach F12 Ultrasonic Clear F22 Navv FCC Custom Color F07 Steel F13 Merlot Voltage: 120V. 277V. 347V or UNV (Universal Voltage) Dimming: DIMX = Standard Driver - No Dimming DIM1 = Standard Driver wired for Dimming - 100% to 1% DIM0 = Optional Driver with Available Dimming - 100% to 0% Options: NLCKT = Night-Light Circuit (Common Neutral) EMCKT = Emergency Circuit (Separate Hot & Neutral) EBPHST = Self-Testing Emergency Battery Pack (10 Watt)



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

# **Suspended or Ceiling Mount**

## MLS5-D-HO-K35-LOH /---

### Direct - High Output

#### **LED Optimized High Transmittance Lens**

 $\textbf{Catalog Number:} \qquad \text{MLS5-D-H0-K35-80-4'-X-L0H-120}$ 

Report Number: #LLIA001197-004.ies

Luminaire Description: Extruded Aluminum Housing with

White Aluminum Reflector and LED

Optimized Acrylic Lens.

LED Module: Multiple White Low-Power Light

Emitting Diodes (LEDs) in a uniform

grid pattern.

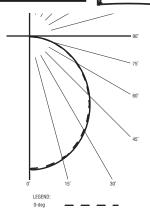
Total Luminaire Efficacy = 116.9 Lm/W

0% Up 100% Down

Color Rendering Index (CRI) = 82

#### ZONAL LUMEN SUMMARY

Zon	ie	Lumens	%Fixture	
0-	40	1644	45.2	
0-	60	2856	78.5	
0-	90	3633	100.0	
90-	180	0	0.0	
0-	180	3633	100.0	





#### CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	1331	1331	1331	1331	1331
5	1318	1319	1321	1327	1332
15	1259	1260	1263	1269	1273
25	1149	1149	1159	1160	1164
35	999	1000	1004	1012	1014
45	824	826	829	836	838
55	637	634	638	644	645
65	435	436	441	445	445
75	242	243	247	249	249
85	73	72	72	72	71
90	0	0	0	0	1

### MLS5-D-MO-K35-LOH

#### **Direct - Medium Output**

#### **LED Optimized High Transmittance Lens**

Catalog Number: MLS5-D-MO-K35-80-4'-X-LOH-120

Report Number: #LLIA001197-003

**Luminaire Description:** Extruded Aluminum Housing with

White Aluminum Reflector and LED

Optimized Acrylic Lens.

LED Module: Multiple White Low-Power Light

Emitting Diodes (LEDs) in a uniform

grid pattern.

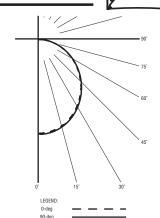
Total Luminaire Efficacy = 121.6 Lm/W

0% Up 100% Down

Color Rendering Index (CRI) = 82

### ZONAL LUMEN SUMMARY

Zone		Lumens	%Fixture
0-	40	1010	45.2
0-	60	1755	78.5
0-	90	2232	100.0
90-	180	0	0.0
0-	180	2232	100.0





#### CANDELA DISTRIBUTION

OANDELA DISTRIBUTION							
	0.0	22.5	45.0	67.5	90.0		
0	818	818	818	818	818		
5	809	810	812	815	819		
15	774	774	776	779	782		
25	706	706	713	713	715		
35	614	615	617	621	623		
45	506	507	510	513	515		
55	391	390	392	396	396		
65	268	268	271	274	274		
75	149	150	152	153	153		
85	45	45	44	44	44		
90	0	0	0	0	0		

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



