

Microlinea™ Direct Suspended or Ceiling Mount Series 3

(2 7/8" Luminous Aperture)



Catalog Number	Type
Project Name	

MLS3-D-LED

3 1/8" X 3 1/2" Direct Suspended
or Ceiling Mount



S P E C I F I C A T I O N S

Housing

One-piece .080" 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.

Finish

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, formulated for maximum diffusion of the LED light source.

■ (BWL) Translucent acrylic snap-in lens with internal prisms providing a batwing-shape light distribution.

■ (ASYL) Translucent acrylic snap-in lens providing an asymmetric-shape light distribution.

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 wiring.

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, and 80 or 90 CRI. Standard outputs at 80 CRI:

HO - High Output (LOH lens)

*2983 Total Delivered Lms. at 29 System Watts

MO - Medium Output (LOH lens)

*1853 Total Delivered Lms. at 17 System Watts

(*All values per 4' using 3500K LED modules)

Driver (Tunable White)

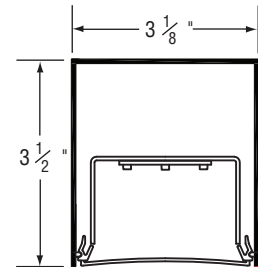
EldoLED power supply is UL recognized, DALI, 0-10V or DMX available, 120-277 universal voltage.

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.

Certification

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



MLS3-D-HO
MLS3-D-MO

*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 Catalog Number: **MLS3-D - HO - K40 - 80 - 4 - CN - LOH - F01M - 120 - DIM1 - OPTIONS**

MLS3-D Direct Only	MLS3-D	-		-		-		-		-		-		-		-		-		-	
Lumen Output / 4':	HO - High Output = 2983 Total Lms. - 104 Lm/W																				
(Using 3500K)	MO - Medium Output = 1853 Total Lms. - 108 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'																				
Mounting:	CN = Cable (Non T-Bar) Fully Adj. (36" Std.) P = Rigid Stem (Up to 48" Std.)																				
	K = Swivel Stem (Up to 48" Std.) J = Ceiling Mount																				
Optical Controls:	LOH = LED Optimized Acrylic Snap-in Lens BWL = Batwing Distribution Lens																				
	ASYL = Asymmetric Distribution Lens																				
Standard Finish:	F01M Matte White Premium Finishes:	F01G Gloss White	F08 Gray Seal	F14 Red Skies																	
		F02 Ivory	F09 Mocha	F15 Lemon																	
		F03 Stonewash	F10 Bronzed	F16 Forest Hunter																	
		F04 Camel	F11G Gloss Black	F20 Blue Print																	
		F05 Gray Day	F11M Matte Black	F21 Reflex Blue																	
		F06 Pebble Beach	F12 Ultrasonic Clear	F22 Navy																	
		F07 Steel	F13 Merlot	FCC Custom Color																	
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 Dimming - 100% to 0%																				
Options:	NLCKT = Night-Light Circuit (Common Neutral) EMCKT = Emergency Circuit (Separate Hot & Neutral)																				
	EBPST = Self-Testing Emergency Battery Pack (10 Watt)																				
	DALI = DALI Protocol Driver (Tunable White) DMX = DMX Protocol Driver (Tunable White)																				
	0-10V/TW = 0-10V Driver (Tunable White)																				
	GTD = Generator Transfer Device FS = Fused Drivers																				



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Made in America

Suspended or Ceiling Mount

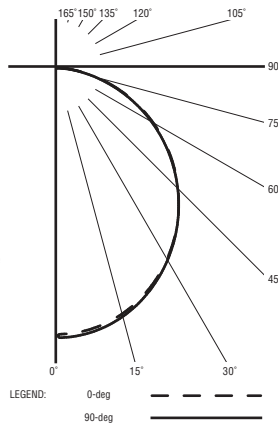
MLS3-D-HO-K35-LOH

High Output

LED Optimized High Transmittance Lens

Catalog Number: MLS3-D-HO-K35-80-4'-X-LOH-120
Report Number: #LLIA001201-002.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 precise layout.

Total Luminaire Efficacy = 103.9 Lm/W
 Input Power / 4': 28.72 W
 0% Up 100% Down
 Color Rendering Index (CRI) = 82



ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0- 30	832	27.9
0- 40	1354	45.4
0- 60	2368	79.4
0- 90	2983	100.0
90- 180	0	0.0
0- 180	2983	100.0

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	1086	1086	1086	1086	1086
5	1075	1076	1079	1083	1088
15	1032	1032	1034	1038	1041
25	948	948	949	952	954
35	833	833	832	834	835
45	694	695	693	694	693
55	538	538	536	535	533
65	367	368	365	363	361
75	191	191	191	190	189
85	41	43	45	46	46
90	0	0	1	1	1

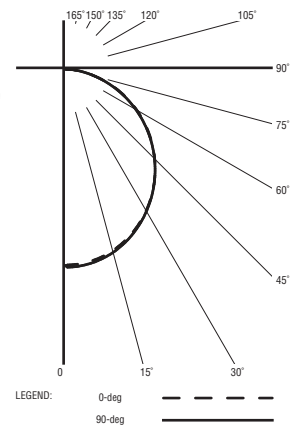
MLS3-D-MO-K35-LOH

Medium Output

LED Optimized High Transmittance Lens

Catalog Number: MLS3-D-MO-K35-80-4'-X-LOH-120
Report Number: #LLIA001201-001.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 precise layout.

Total Luminaire Efficacy = 107.5 Lm/W
 Input Power / 4': 17.24 W
 0% Up 100% Down
 Color Rendering Index (CRI) = 82



ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0- 30	517	27.9
0- 40	841	45.4
0- 60	1471	79.4
0- 90	1853	100.0
90- 180	0	0.0
0- 180	1853	100.0

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	675	675	675	675	675
5	668	669	671	673	676
15	641	642	643	645	647
25	589	589	590	592	593
35	518	518	517	519	519
45	432	432	431	431	430
55	334	334	333	332	331
65	228	228	227	226	224
75	119	119	118	118	117
85	26	26	28	29	28
90	0	0	0	1	1

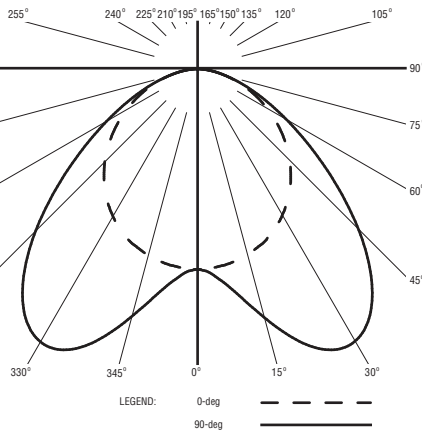
MLS3-D-HO-K40-BWL

High Output

Batwing Distribution Lens

Catalog Number: MLS3-D-HO-K40-80-4'-X-BWL-UNV
Report Number: #LLIA001849-001.ies
Description: Extruded Aluminum Housing with White Aluminum Reflector and Translucent Acrylic (BWL) Lens.
LED Module: Multiple White Low-Power Light Emitting Diodes (LED) in a precise layout.

Total Luminaire Efficacy = 118.5 Lm/W
 Input Power / 4': 27.20 W
 0% Up 100% Down
 Color Rendering Index (CRI) = 84



ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0- 30	831	25.8
0- 40	1466	45.5
0- 60	2651	82.2
0- 90	3224	100.0
90- 180	0	0.0
0- 180	3224	100.0

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	840	840	840	840	840
5	834	838	851	866	873
15	806	844	940	1037	1076
25	748	839	1056	1239	1297
35	663	800	1085	1236	1259
45	548	703	955	989	956
55	413	544	699	636	587
65	272	355	416	351	318
75	139	175	189	156	143
85	35	40	40	34	32
90	0	0	0	0	0

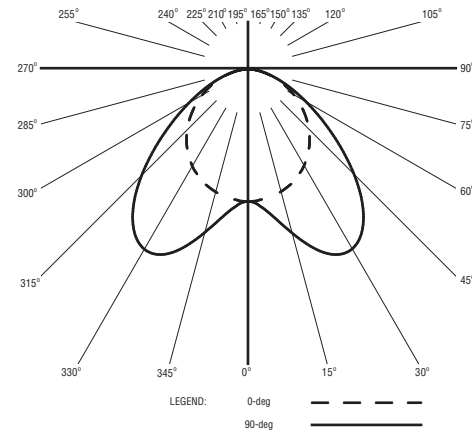
MLS3-D-MO-K40-BWL

Medium Output

Batwing Distribution Lens

Catalog Number: MLS3-D-MO-K40-80-4'-X-BWL-UNV
Report Number: #LLIA001849-002.ies
Description: Extruded Aluminum Housing with White Aluminum Reflector and Translucent Acrylic (BWL) Lens.
LED Module: Multiple White Low-Power Light Emitting Diodes (LED) in a precise layout.

Total Luminaire Efficacy = 121.3 Lm/W
 Input Power / 4': 18.09 W
 0% Up 100% Down
 Color Rendering Index (CRI) = 84



ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0- 30	566	25.8
0- 40	999	45.5
0- 60	1805	82.2
0- 90	2194	100.0
90- 180	0	0.0
0- 180	2194	100.0

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	571	571	571	571	571
5	567	570	580	590	595
15	548	575	640	706	733
25	509	572	719	844	884
35	451	544	739	842	858
45	372	478	651	673	650
55	281	370	475	433	399
65	185	242	283	238	216
75	95	119	129	106	97
85	24	27	27	23	22
90	0	0	0	0	0

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



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