

Microlinea™ Series 3 Wall Wash - LED

(Nominal 2" Luminous Aperture)



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

Housing

One piece .080" thick extruded aluminum. Die-cast alum. end caps are secured with no visible fasteners. Standard nominal lengths are 2', 3', 4', 6' and 8'.

Optical Controls

■ Clear Acrylic Enclosure (Snap-in) with concentrating film insert - standard.

Reflector

Three piece extruded aluminum assembly. Upper and lamp side extrusions are specular. Wall side extrusion is baked "matte white" powder coat to minimize glare to room side.

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. Finish of wall bracket arms and wall plate to match fixture housing.

Extended Arm Wall Brackets

Extruded aluminum arms with die-cast aluminum wall plate. Standard arm lengths are 12", 18", 24" and 30".

Driver

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

Light Engine

Osram-Sylvania LED modules available for 3000K, 3500K and 4000K CCT:

HO - High Output

*2399 Total Delivered Lms. at 41 System Watts (Values per 4' using 4000K LED modules)

MO - Medium Output

*1596 Total Delivered Lms. at 25 System Watts (Values per 4' using 4000K LED modules)

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

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.

Certification

All fixtures are ETL listed for use in 'Dry Applications'. 'Damp Location' is optional.

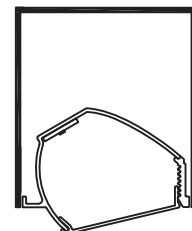
Catalog Number	Type
Project Name	

ML3WW-LED

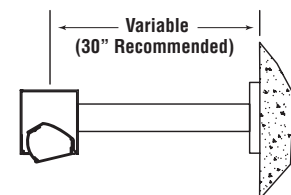
Suspended, Ceiling or Wall Mount
3 1/8" x 3 1/2" Direct



See Photometry section for photometrics.
See reverse page for Standard Lengths & Mounting Centers.



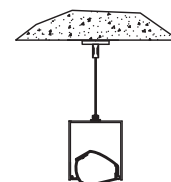
ML3WW-HO
ML3WW-MO



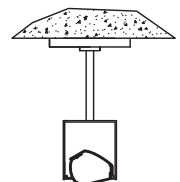
Wall Mount



Ceiling Mount



Cable Mount



Stem Mount

Series

ML3WW
Wall Wash

Standard Lengths:

2', 3', 4', 6', and 8'

ML3WW-HO-K40-4-EA24-F01M-120-[]

Lumen Output

HO - High Output
*2399 Total Lumens - 59 Lm/W
MO - Medium Output
*1596 Total Lumens - 64 Lm/W

*Lumen ratings per 4' section (4000K)

CCT

K30
3000 Kelvin
K35
3500 Kelvin
K40
4000 Kelvin

Mountings

EA12 = 12" Extended Arm Wall Bracket
EA18 = 18" Extended Arm Wall Bracket
EA24 = 24" Extended Arm Wall Bracket
EA30 = 30" Extended Arm Wall Bracket (Recommended)
CT = Cable (15/16" Tbar) Fully Adjustable (36" Std)
CN = Cable (Non-Tbar) Fully Adjustable (36" Std)
P = Rigid Stem (Up to 48" Standard)
K = Swivel Stem (Up to 48" Standard)
J = Ceiling

Standard Finishes

F01M Matte White
Premium Finishes
F01G Gloss White
F02 Ivory
F03 Stone Wash
F04 Camel
F05 Gray Day
F06 Pebble Beach
F07 Steel
F08 Gray Seal
F09 Mocha
F10 Bronzed
F11G Gloss Black
F11M Matte Black
F12 Ultrasonic Clear
F13 Merlot
F14 Red Skies
F15 Lemon
F16 Forest Hunter
F20 Blue Print
F21 Reflex Blue
F22 Navy
FCC Custom Color

Voltage

120
277

Options

NLCKT
Night Light Circuit (Common Neutral)
EMCKT
Emergency Circuit (Separate Hot & Neutral)
EBPL
Emergency Battery Pack (6 Watt)
EBPH
Emergency Battery Pack (10 Watt)

Dim

Dimming
FS
Fused Drivers
GTD
Generator Transfer Device
DL
Damp Location



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

Suspended, Ceiling or Wall Mount

ML3WW-HO-K40



High Output

Asymmetric Wall Wash Optical Control

Catalog Number: ML3WW-HO-K40-4'-X-120

Report Number: UL#904971.ies

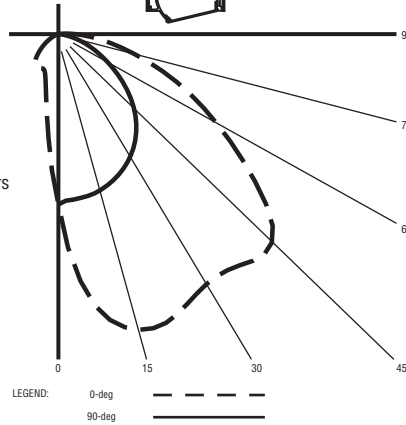
Luminaire Description: Extruded Aluminum Housing with Specular Upper and Lamp Side Reflectors and Matte White Wall Side Extrusion

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

Total Luminaire Efficacy = 58.9 Lm/W

0% Up 100% Down

Color Rendering Index (CRI) = 82



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0- 30	627	26.1
0- 40	1050	43.8
0- 60	1930	80.4
0- 90	2391	99.7
90- 180	8	0.3
0- 180	2399	100.0

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	764	764	764	764	764
5	1112	1082	1009	891	746
15	1373	1347	1276	1088	722
25	1335	1324	1291	1146	668
35	1292	1255	1190	1090	584
45	1322	1258	1104	934	464
55	985	972	899	691	316
65	638	615	539	384	181
75	344	323	261	173	78
85	143	130	92	45	11
90	75	65	39	13	0

PRECISION ARCHITECTURAL LIGHTING

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

Light Output (Lumens) **2399**
Watts **40.71**
Lumens per Watt (Efficacy) **58.93**

Color Accuracy **82**
Color Rendering Index (CRI)

Light Color **4000 (Bright White)**
Correlated Color Temperature (CCT)

↓

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

Warranty** **Yes**

All results, except LED Lumen Maintenance, 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.

** See www.lightingfacts.com/products for details.

Registration Number: 1NRP-NSXIMDE (7/30/2015)
 Model Number: ML3WW-HO-K40-4-XX-XX-UNV
 Type: Luminaire - Wallwash

ML3WW-MO-K40



Medium Output

Asymmetric Wall Wash Optical Control

Catalog Number: ML3WW-MO-K40-4'-X-120

Report Number: UL#904972.ies

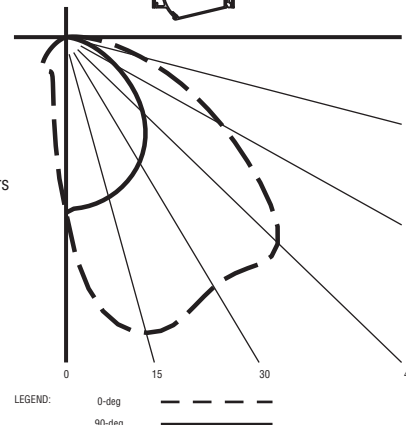
Luminaire Description: Extruded Aluminum Housing with Specular Upper and Lamp Side Reflectors and Matte White Wall Side Extrusion

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

Total Luminaire Efficacy = 64.3 Lm/W

0% Up 100% Down

Color Rendering Index (CRI) = 82



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0- 30	420	26.4
0- 40	703	44.1
0- 60	1288	80.7
0- 90	1590	99.7
90- 180	6	0.3
0- 180	1596	100.0

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	524	524	524	524	524
5	754	732	684	609	511
15	914	896	852	734	492
25	886	879	859	767	454
35	861	834	791	727	396
45	873	834	735	623	314
55	646	640	597	458	212
65	414	401	354	253	120
75	223	209	171	114	51
85	92	83	60	29	7
90	47	41	25	8	0

PRECISION ARCHITECTURAL LIGHTING

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

Light Output (Lumens) **1596**
Watts **24.82**
Lumens per Watt (Efficacy) **64.3**

Color Accuracy **82**
Color Rendering Index (CRI)

Light Color **4000 (Bright White)**
Correlated Color Temperature (CCT)

↓

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

Warranty** **Yes**

All results, except LED Lumen Maintenance, 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.

** See www.lightingfacts.com/products for details.

Registration Number: 1NRP-F40BR2 (7/30/2015)
 Model Number: ML3WW-MO-K40-4-XX-XX-UNV
 Type: Luminaire - Wallwash



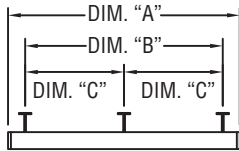
ML3WW - Wall Wash

Suspended, Ceiling or Wall Mount

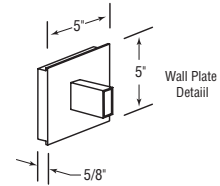
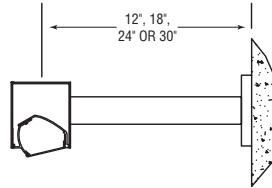
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Standard Fixture Lengths and Mounting Centers

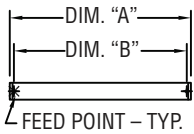
Wall Mount



FIXTURE LENGTH	MOUNTING CENTERS		
	DIM. "A"	DIM. "B"	DIM. "C"
48 7/8"	34 7/8"	—	—
95 11/16"	81 11/16"	—	—
142 1/2"	128 1/2"	64 1/4"	—



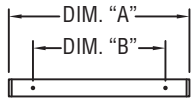
Cable Mount



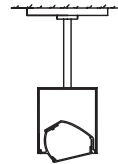
FIXTURE LENGTH	MTG. CENTERS
	DIM. "B"
48 7/8"	45 7/8"
95 11/16"	92 11/16"
142 1/2"	139 1/2"



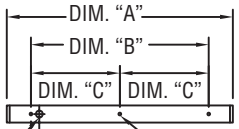
Stem Mount



FIXTURE LENGTH	MTG. CENTERS
	DIM. "B"
48 7/8"	34 7/8"
95 11/16"	81 11/16"
142 1/2"	128 1/2"



Direct Ceiling Mount



FIXTURE LENGTH	MOUNTING CENTERS		
	DIM. "A"	DIM. "B"	DIM. "C"
48 7/8"	34 7/8"	—	—
95 11/16"	81 11/16"	—	—
142 1/2"	128 1/2"	64 1/4"	—



3" (TYP) FEED POINT — TYP.
 2" DIA. HOLE
 5/16" DIA. MTG. HOLE — TYP.

PAL RESERVES THE RIGHT TO CHANGE PRODUCT DESIGN AND SPECIFICATIONS. CONTACT FACTORY FOR MOST RECENT PRODUCT INFORMATION.

