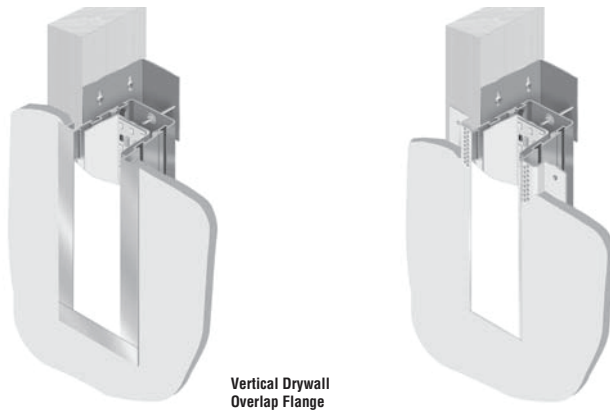# Microlinea™ Recessed Series 2 – LED with Flush Lens
(1 7/8" Luminous Aperture)

Vertical Drywall Overlap Flange

Vertical Drywall Spackle Flange

TW TunableWhite Available

Vertical Wall Mount 1/2" or 5/8" Thick Drywall

5 Year Limited Warranty LED Boards & Drivers

3 1/16"   1 7/8"

MLR2-HO-VOF or MLR2-MO-VOF
Vertical Drywall - Overlap Flange

3 1/16"   1/2"   1 7/8"

MLR2-HO-VSF1 or MLR2-MO-VSF1
Vertical Drywall - Spackle Flange - 1/2"

3 1/16"   5/8"   1 7/8"

MLR2-HO-VSF5 or MLR2-MO-VSF5
Vertical Drywall - Spackle Flange - 5/8"
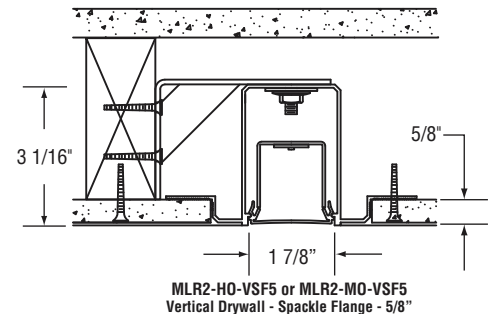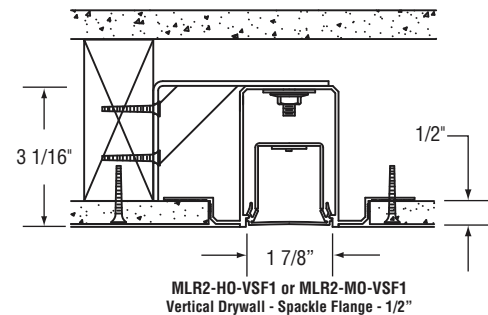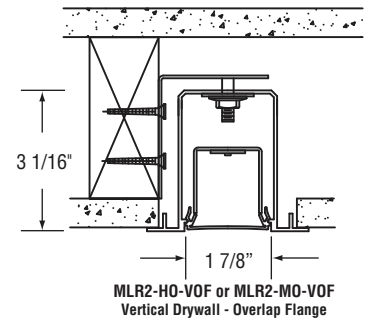
S P E C I F I C A T I O N S

Housing
Three piece extruded aluminum available in single sections up to 8' long. Standard flange finish is satin white.

Optical Control
(LOH) .090" thick, high transmittance extruded acrylic snap-in lens, formulated for maximum diffusion of the LED light source.

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

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

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

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

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

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
*2706 Total Delivered Lms. at 28 System Watts (Values per 4' using 4000K LED modules)

MO -Medium Output
*1851 Total Delivered Lms. at 19 System Watts (Values per 4' using 4000K 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.
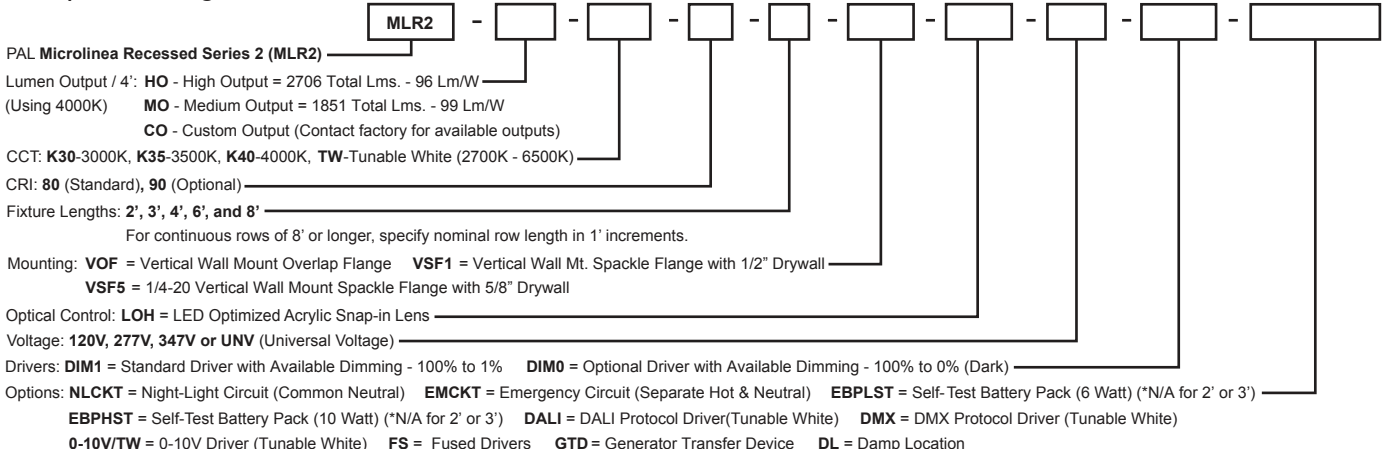Contact factory for available outputs.

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

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.

Note: LED drivers are factory programmable. Custom lumen outputs are available at no additional charge. Consult factory.

Sample Catalog Number: **MLR2 - HO - K40 - 80 - 4 - VOF - LOH - 120 - DIM1 - OPTIONS**

MLR2 - ☐ - K40 - ☐ - 4 - ☐ - LOH - ☐ - DIM1 - ☐

PAL **Microlinea Recessed Series 2 (MLR2)**

Lumen Output / 4': **HO** - High Output = 2706 Total Lms. - 96 Lm/W
(Using 4000K)   **MO** - Medium Output = 1851 Total Lms. - 99 Lm/W
                    CO - Custom Output (Contact factory for available outputs)

CCT: **K30**-3000K, **K35**-3500K, **K40**-4000K, **TW**-Tunable White (2700K - 6500K)

CRI: **80** (Standard), **90** (Optional)

Fixture Lengths: **2', 3', 4', 6', and 8'**
         For continuous rows of 8' or longer, specify nominal row length in 1' increments.

Mounting: **VOF** = Vertical Wall Mount Overlap Flange   **VSF1** = Vertical Wall Mt. Spackle Flange with 1/2" Drywall
         VSF5 = 1/4-20 Vertical Wall Mount Spackle Flange with 5/8" Drywall

Optical Control: **LOH** = LED Optimized Acrylic Snap-in Lens

Voltage: **120V, 277V, 347V or UNV** (Universal Voltage)

Drivers: **DIM1** = Standard Driver with Available Dimming - 100% to 1%   **DIM0** = Optional Driver with Available Dimming - 100% to 0% (Dark)

Options: **NLCKT** = Night-Light Circuit (Common Neutral)   **EMCKT** = Emergency Circuit (Separate Hot & Neutral)   **EBPLST** = Self-Test Battery Pack (6 Watt) (*N/A for 2' or 3')
         EBPHST = Self-Test Battery Pack (10 Watt) (*N/A for 2' or 3')   **DALI** = DALI Protocol Driver(Tunable White)   **DMX** = DMX Protocol Driver (Tunable White)
         0-10V/TW = 0-10V Driver (Tunable White)   **FS** = Fused Drivers   **GTD** = Generator Transfer Device   **DL** = Damp Location

Recessed
MLR2-HO -K40-LOH

High Output

LED Optimized High Transmittance Lens

Catalog Number:	MLR2-HO-K40-80-4'-X-LOH-120
Report Number:	#LLIA000530-007.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 lay-out.

Total Luminaire Efficacy = 96.3 Lm/W

0% Up   100% Down

Color Rendering Index (CRI) = 83

LEGEND: 0-deg ----   90-deg ——
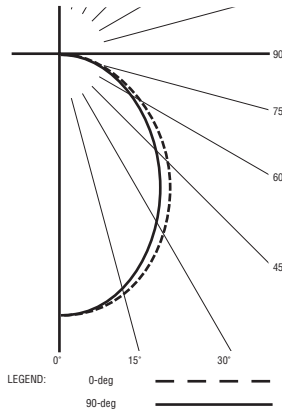
ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0- 30	841	31.1
0- 40	1331	49.2
0- 60	2208	81.6
0- 90	2706	100.0
90- 180	0	0.0
0- 180	2706	100.0

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	1147	1147	1147	1147	1147
5	1140	1133	1141	1140	1134
15	1080	1071	1070	1062	1054
25	969	955	944	926	916
35	820	804	785	761	750
45	651	637	617	591	581
55	479	471	451	427	419
65	315	311	293	277	272
75	164	163	153	144	141
85	45	44	38	33	31
90	0	0	0	0	0

MLR2-MO -K40-LOH

Medium Output

LED Optimized High Transmittance Lens

Catalog Number:	MLR2-MO-K40-80-4'-X-LOH-120
Report Number:	#LLIA000530-05.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 lay-out.

Total Luminaire Efficacy = 99.5 Lm/W

0% Up   100% Down

Color Rendering Index (CRI) = 83

LEGEND: 0-deg ----   90-deg ——
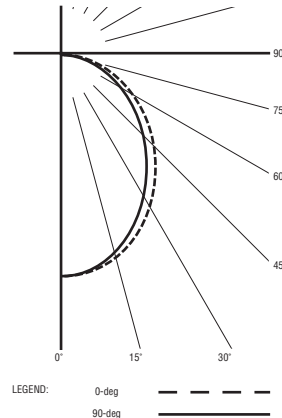
ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0- 30	578	31.2
0- 40	914	49.4
0- 60	1513	81.7
0- 90	1851	100.0
90- 180	0	0.0
0- 180	1851	100.0

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	790	790	790	790	790
5	785	780	786	785	781
15	744	737	736	730	725
25	666	656	648	636	628
35	564	552	538	521	513
45	446	437	422	403	395
55	328	322	307	290	285
65	215	212	200	188	184
75	112	111	104	98	95
85	31	30	26	23	21
90	0	0	0	0	0

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

PAL 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