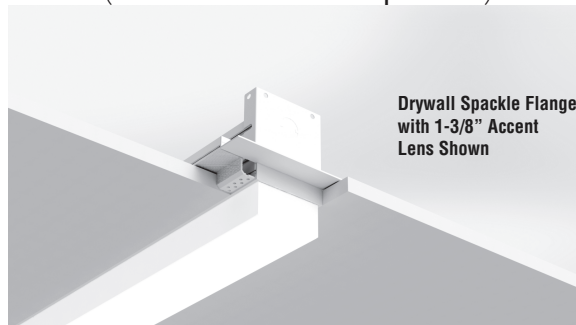


# Microlinea™ Recessed Series 3 - with Accent/Drop Lens

(2 7/8" Luminous Aperture)

|                |      |
|----------------|------|
| Catalog Number | Type |
| Project Name   |      |



## 1/2" or 5/8" Thick Drywall Ceilings

### 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 Controls

- (ADL1) .090" thick, high transmittance extruded acrylic snap-in Accent Lens. Lens extends 3/8" below ceiling line.
- (ADL2) .090" thick, high transmittance extruded acrylic snap-in Accent Lens. Lens extends 1-3/8" below ceiling line.

#### 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. 347V is available.

\*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 (w/ADL1 Accent/Drop Lens)

\*3960 Total Delivered Lms. at 35 System Watts

**HO** - High Output (w/ADL2 Accent/Drop Lens)

\*4126 Total Delivered Lms. at 35 System Watts

**MO** - Medium Output (w/ADL1 Accent/Drop Lens)

\*2583 Total Delivered Lms. at 22 System Watts

**MO** - Medium Output (w/ADL2 Accent/Drop Lens)

\*2680 Total Delivered Lms. at 22 System Watts

**CO** - Custom Outputs - (Contact Factory)

(All Values are per 4' using 3500K LED modules)

#### Driver (Tunable White)

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

#### Light Engine (Tunable White)

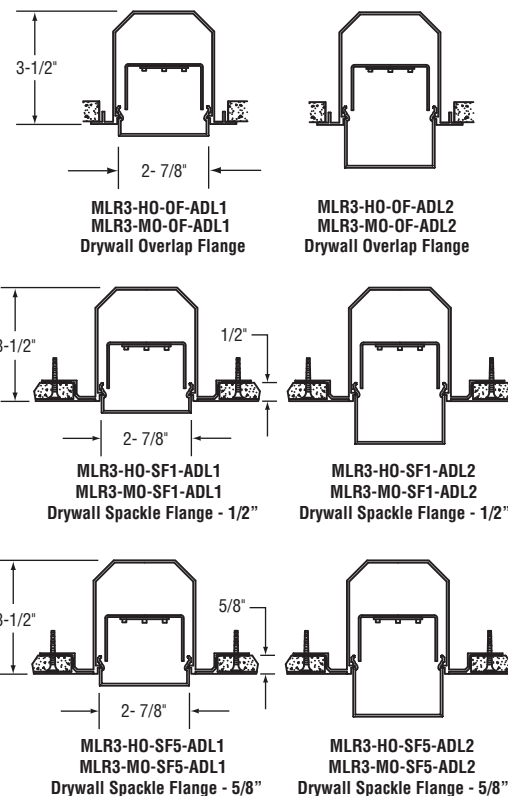
Tunable White LED light source available for 2700K thru 6500K CCT, and 80 or 90 CRI. Contact factory for available outputs.

#### 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.



### Sample Catalog Number:

**MLR3 - HO - K40 - 80 - 4 - OF - YK - ADL1 - 120 - DIM1 - OPTIONS**

PAL Microlinea Recessed Series 3 (MLR3)

Lumen Output/4': **HO** - High Output (ADL1) = 3960 Total Lms. - 114 Lm/W

(Using 3500K) **HO** - High Output (ADL2 Lens) = 4126 Total Lms. - 118 Lm/W

**MO** - Medium Output (ADL1 Lens) = 2583 Total Lms. - 119 Lm/W

**MO** - Medium Output (ADL2 Lens) = 2680 Total Lms. - 123 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)

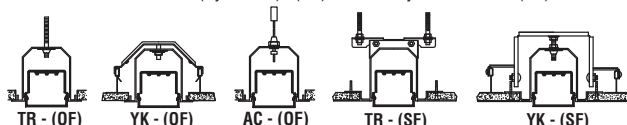
Fixture Lengths: **2'**, **3'**, **4'**, **6'**, and **8'**

For continuous rows of 8' or longer, specify nominal row length in 1' increments.

Ceiling Type: **OF** = Drywall Overlap Flange **SF1** = Spackle Flange w/1/2" Drywall **SF5** = Spackle Flange w/5/8" Drywall

Mounting: **TR** = 1/4-20 Threaded Rod (By Others) - (OF) **YK** = Snap-in Yoke - (OF) **AC** = Adjustable Aircraft Cable - (OF)

**TR** = 1/4-20 Threaded Rod (By Others) - (SF) **YK** = Adjustable Yoke - (SF)



Optical Control: **ADL1** = 3/8" Extended Accent/Drop Lens

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

Dimming: **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) **EBPHST** = Self-Testing 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 **CP** = Chicago Plenum



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

# Recessed - Accent/Drop Lenses

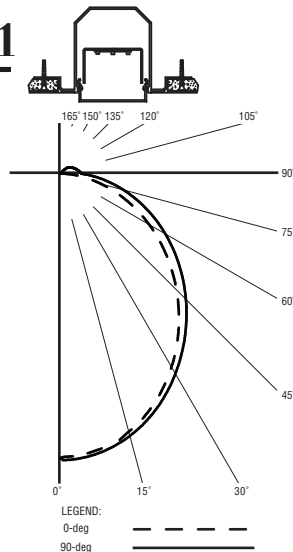
## MLR3-HO-K35-ADL1

### High Output

#### 3/8" Accent/Drop Lens

**Catalog Number:** MLR3-HO-K35-80-4'-X-ADL1-120  
**Report Number:** #LLIA001159-006.ies  
**Luminaire Description :** Extruded Aluminum Housing with White Aluminum Reflector and LED Optimized Acrylic Accent Lens  
**LED Module:** Multiple White Low-Power Light Emitting Diodes (LEDs) in a precise lay-out.

Total Luminaire Efficacy = 113.8 Lm/W  
 Color Rendering Index (CRI) = 82  
 5% Up 95% Down



#### ZONAL LUMEN SUMMARY

| Zone    | Lumens | %Fixture |
|---------|--------|----------|
| 0- 30   | 1040   | 26.3     |
| 0- 40   | 1674   | 42.3     |
| 0- 60   | 2891   | 73.0     |
| 0- 90   | 3775   | 95.3     |
| 90- 180 | 184    | 4.7      |
| 0- 180  | 3960   | 100.0    |

#### CANDELA DISTRIBUTION

|    | 0.0  | 22.5 | 45.0 | 67.5 | 90.0 |
|----|------|------|------|------|------|
| 0  | 1381 | 1381 | 1381 | 1381 | 1381 |
| 5  | 1366 | 1367 | 1371 | 1377 | 1382 |
| 15 | 1294 | 1297 | 1301 | 1309 | 1315 |
| 25 | 1162 | 1166 | 1177 | 1188 | 1193 |
| 35 | 989  | 998  | 1015 | 1029 | 1035 |
| 45 | 795  | 811  | 834  | 853  | 860  |
| 55 | 597  | 618  | 647  | 671  | 679  |
| 65 | 400  | 427  | 462  | 489  | 498  |
| 75 | 216  | 247  | 285  | 314  | 323  |
| 85 | 63   | 95   | 131  | 157  | 166  |
| 90 | 5    | 35   | 68   | 93   | 101  |

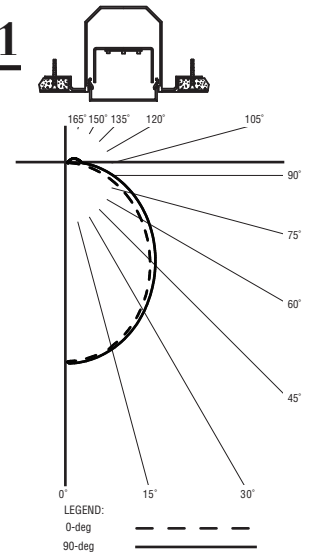
## MLR3-MO-K35-ADL1

### Medium Output

#### 3/8" Accent/Drop Lens

**Catalog Number:** MLR3-MO-K35-80-4'-X-ADL1-120  
**Report Number:** #LLIA001159-008.ies  
**Luminaire Description :** Extruded Aluminum Housing with White Aluminum Reflector and LED Optimized Acrylic Accent Lens  
**LED Module:** Multiple White Low-Power Light Emitting Diodes (LEDs) in a precise lay-out.

Total Luminaire Efficacy = 118.6 Lm/W  
 Color Rendering Index (CRI) = 83  
 5% Up 95% Down



#### ZONAL LUMEN SUMMARY

| Zone    | Lumens | %Fixture |
|---------|--------|----------|
| 0- 30   | 679    | 26.3     |
| 0- 40   | 1092   | 42.3     |
| 0- 60   | 1886   | 73.0     |
| 0- 90   | 2463   | 95.4     |
| 90- 180 | 120    | 4.6      |
| 0- 180  | 2583   | 100.0    |

#### CANDELA DISTRIBUTION

|    | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 |
|----|-----|------|------|------|------|
| 0  | 902 | 902  | 902  | 902  | 902  |
| 5  | 892 | 892  | 895  | 899  | 902  |
| 15 | 845 | 846  | 849  | 855  | 858  |
| 25 | 759 | 761  | 768  | 775  | 779  |
| 35 | 645 | 651  | 662  | 672  | 675  |
| 45 | 519 | 529  | 544  | 556  | 561  |
| 55 | 389 | 403  | 422  | 438  | 443  |
| 65 | 261 | 278  | 301  | 319  | 324  |
| 75 | 141 | 161  | 186  | 205  | 211  |
| 85 | 41  | 62   | 85   | 103  | 108  |
| 90 | 3   | 23   | 44   | 61   | 66   |

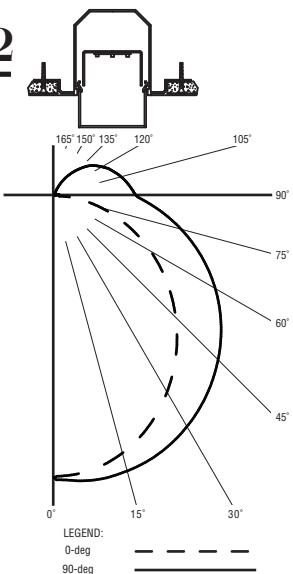
## MLR3-HO-K35-ADL2

### High Output

#### 1-3/8" Accent/Drop Lens

**Catalog Number:** MLR3-HO-K35-80-4'-X-ADL2-120  
**Report Number:** #LLIA001159-009.ies  
**Luminaire Description :** Extruded Aluminum Housing with White Aluminum Reflector and LED Optimized Acrylic Accent Lens  
**LED Module:** Multiple White Low-Power Light Emitting Diodes (LEDs) in a precise lay-out.

Total Luminaire Efficacy = 118.0 Lm/W  
 Color Rendering Index (CRI) = 82  
 16% Up 84% Down



#### ZONAL LUMEN SUMMARY

| Zone    | Lumens | %Fixture |
|---------|--------|----------|
| 0- 30   | 775    | 18.7     |
| 0- 40   | 1285   | 31.1     |
| 0- 60   | 2370   | 57.4     |
| 0- 90   | 3453   | 83.7     |
| 90- 180 | 672    | 16.3     |
| 0- 180  | 4126   | 100.0    |

#### CANDELA DISTRIBUTION

|    | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 |
|----|-----|------|------|------|------|
| 0  | 971 | 971  | 971  | 971  | 971  |
| 5  | 962 | 964  | 971  | 980  | 985  |
| 15 | 916 | 933  | 955  | 972  | 980  |
| 25 | 833 | 863  | 901  | 934  | 946  |
| 35 | 720 | 764  | 822  | 867  | 883  |
| 45 | 592 | 651  | 723  | 780  | 800  |
| 55 | 455 | 527  | 611  | 677  | 700  |
| 65 | 315 | 395  | 488  | 560  | 585  |
| 75 | 178 | 265  | 362  | 435  | 460  |
| 85 | 62  | 150  | 245  | 315  | 338  |
| 90 | 17  | 103  | 197  | 265  | 287  |

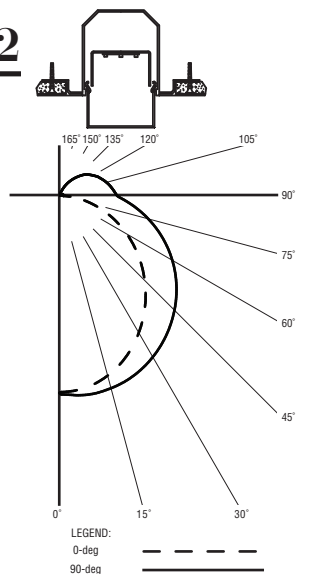
## MLR3-MO-K35-ADL2

### Medium Output

#### 1-3/8" Accent/Drop Lens

**Catalog Number:** MLR3-MO-K35-80-4'-X-ADL2-120  
**Report Number:** #LLIA001159-010.ies  
**Luminaire Description :** Extruded Aluminum Housing with White Aluminum Reflector and LED Optimized Acrylic Accent Lens  
**LED Module:** Multiple White Low-Power Light Emitting Diodes (LEDs) in a precise lay-out.

Total Luminaire Efficacy = 122.8 Lm/W  
 Color Rendering Index (CRI) = 83  
 16% Up 84% Down



#### ZONAL LUMEN SUMMARY

| Zone    | Lumens | %Fixture |
|---------|--------|----------|
| 0- 30   | 504    | 18.7     |
| 0- 40   | 835    | 31.1     |
| 0- 60   | 1540   | 57.4     |
| 0- 90   | 2244   | 83.7     |
| 90- 180 | 437    | 16.3     |
| 0- 180  | 1877   | 100.0    |

#### CANDELA DISTRIBUTION

|    | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 |
|----|-----|------|------|------|------|
| 0  | 631 | 631  | 631  | 631  | 631  |
| 5  | 625 | 627  | 631  | 637  | 641  |
| 15 | 596 | 607  | 621  | 632  | 637  |
| 25 | 541 | 561  | 586  | 607  | 615  |
| 35 | 468 | 497  | 534  | 563  | 574  |
| 45 | 384 | 423  | 470  | 507  | 520  |
| 55 | 296 | 342  | 397  | 440  | 455  |
| 65 | 204 | 257  | 317  | 363  | 380  |
| 75 | 116 | 172  | 235  | 283  | 299  |
| 85 | 40  | 97   | 159  | 204  | 219  |
| 90 | 11  | 67   | 128  | 172  | 186  |



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

For more information, visit our website at [www.pal-lighting.com](http://www.pal-lighting.com)