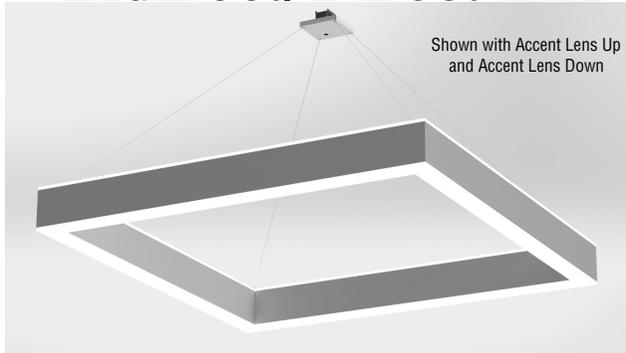


# Microquad™ Suspended Series 2 - Indirect/Direct LED



Catalog Number	Type
Project Name	

## MQS2-I/D-LED

Indirect/Direct Suspended  
Square Fixture Pattern  
(LED)



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

#### Housing

.070" thick extruded aluminum extrusion, mitered and welded to form a seamless square pattern. Standard configurations are nominal 2' X 2', 3' X 3' and 4' X 4'.

#### Finish

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

#### Indirect Optical Controls

- (AL) .070" thick high transmittance acrylic snap-in extended accent lens. Lens extends 3/8" below fixture housing.
- (Open) Open
- (FDC) Frosted extruded 100% DR acrylic dust cover.

#### Direct Optical Controls

- (AL) .070" thick high transmittance acrylic snap-in extended accent lens. Lens extends 3/8" below fixture housing.
- (FL) .090" thick high transmittance acrylic snap-in flush lens.

#### Driver

Osram-Sylvania "Optotronic" power supply is UL/CUL recognized, 0-10V dimming available, 120-277 universal voltage. 347V also available.

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

#### Light Engine

Continuous LED light source available for 3000K, 3500K and 4000K CCT, in high and medium light outputs and 80 or 90 CRI:

#### 2' X 2' Configuration:

**HO/HO** - High Output Up/High Output Down  
AL/AL Lens: 9664 Total Deliv. Lms. at 98 System Watts  
OP/FL Lens: 11390 Total Deliv. Lms. at 98 System Watts  
\*Medium output and custom outputs also available. Consult factory.

#### 3' X 3' Configuration:

**HO/HO** - High Output Up/High Output Down  
AL/AL Lens: 18286 Total Deliv. Lms. at 165 System Watts  
OP/FL Lens: 20504 Total Deliv. Lms. at 165 System Watts  
\*Medium output and custom outputs also available. Consult factory.

#### 4' X 4' Configuration:

**HO/HO** - High Output Up/High Output Down  
AL/AL Lens: 23922 Total Deliv. Lms. at 237 System Watts  
OP/FL Lens: 27027 Total Deliv. Lms. at 238 System Watts  
\*Medium output and custom outputs also available. Consult factory.

#### Reflector/Heat Sink

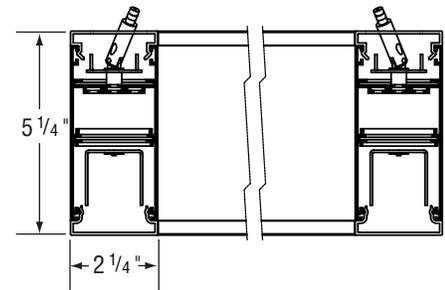
.060" thick die-formed aluminum finished with a high-reflectance matte white enamel.

#### Circuitry

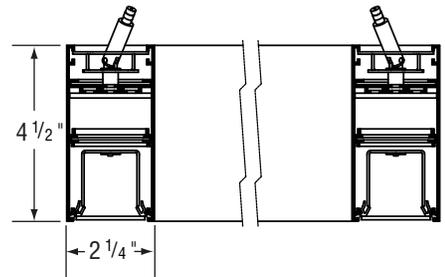
All fixtures are factory pre-wired for a single circuit. Provision for multiple switching/circuiting is optional.

#### Certification

All fixtures are ETL listed conforming to UL/CUL standards and are suitable for use in "Dry Applications". "Damp Location" is optional.



**MQS2 - I/D - AL/AL**  
Accent Lens Up/Accent Lens Down



**MQS2 - I/D - FDC/FL**  
Frosted Dust Cover Up/Flush Lens Down

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

Series	CCT	CRI	Standard Pattern Configurations	Mounting	Voltage
MQS2 - I/D	<b>K30</b> 3000 Kelvin <b>K35</b> 3500 Kelvin <b>K40</b> 4000 Kelvin	<b>80</b> <b>90</b>	<b>2' X 2'</b> <b>3' X 3'</b> <b>4' X 4'</b>	<b>CSP</b> = Cable Single Point Assy. - Fully Adj. (72" Std.)	120 277 347 UNV

## MQS2-I/D-HO/HO-K40-80-2X2-CSP-AL/AL-FO1M-V-[ ]

#### Lumen Output

**2' X 2': HO/HO** - High Output + High Output +  
AL/AL Lens: \* 9664 Total Lumens - 99 Lm/W  
OP/FL Lens: \* 11390 Total Lumens - 116 Lm/W  
\*Lumen ratings per 8' total (3500K)

**3' X 3': HO/HO** - High Output + High Output +  
AL/AL Lens: \* 18286 Total Lumens - 111 Lm/W  
OP/FL Lens: \* 20504 Total Lumens - 124 Lm/W  
\*Lumen ratings per 12' total (3500K)

**4' X 4': HO/HO** - High Output + High Output +  
AL/AL Lens: \* 23922 Total Lumens - 101 Lm/W  
OP/FL Lens: \* 27027 Total Lumens - 114 Lm/W  
\*Lumen ratings per 16' total (3500K)  
Medium output and custom outputs also available. Consult factory.

#### Indirect Optical Controls

**AL**  
Accent Lens  
**OP**  
Open  
**FDC**  
Frosted Dust Cover

#### Direct Optical Controls

**AL**  
Accent Lens  
**FL**  
Flush Lens

#### Standard Finishes

**F01M** Matte White  
**Premium Finishes**  
**F01G** Gloss White  
**F02** Ivory  
**F03** Stonewash  
**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

#### Options

**NLCKT**  
Night Light Circuit  
(Common Neutral)  
**EMCKT**  
Emergency Circuit  
(Separate Hot & Neutral)  
**EBPLST**  
Self-Test EM Battery Pack  
(6 Watt) N/A for 2' X 2'  
N/A for 347V  
**EBPHST**  
Self-Test EM Battery Pack  
(10 Watt) N/A for 2' X 2'  
N/A for 347V  
**Dim1**  
Dimming - to 1%  
**Dim0**  
Dimming - to 0% (Dark)  
**FS**  
Fused Drivers  
**GTD**  
Generator Transfer  
Device



# Suspended - Indirect/Direct

## MQS2-1/D-HO/HO-K35-2X2-OP/FL

### High Output - 2' X 2' Square Pattern

#### LED Optimized High Transmittance Flush Lens

**Catalog Number:** MQS2-1/D-HO/HO-K35-80-2X2-X-OP/FL-UNV

**Report Number:** #LLIA000833-004.ies

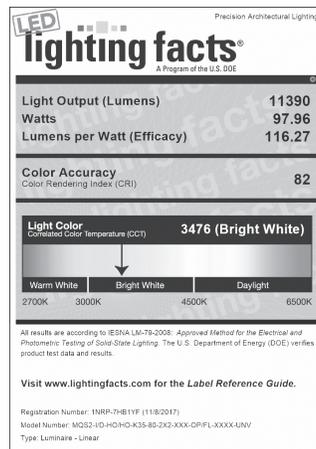
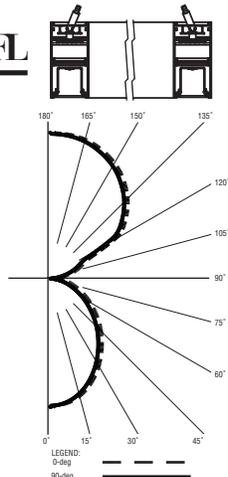
Extruded Aluminum Housing with  
White Aluminum Reflectors and LED  
Optimized Acrylic Flush Lens Down

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

Total Luminaire Efficacy = 116.3 Lm/W

Color Rendering Index (CRI) = 82

58% Up 42% Down



## MQS2-1/D-HO/HO-K35-2X2-AL/AL

### High Output - 2' X 2' Square Pattern

#### LED Optimized High Transmittance Accent Lens

**Catalog Number:** MQS2-1/D-HO/HO-K35-80-2X2-X-AL/AL-UNV

**Report Number:** #LLIA000833-003.ies

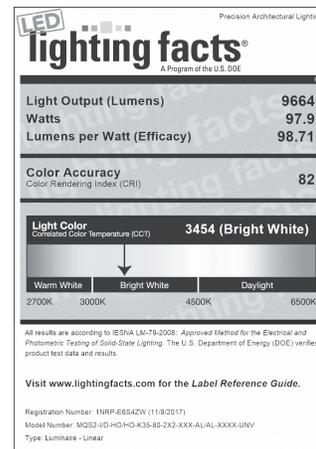
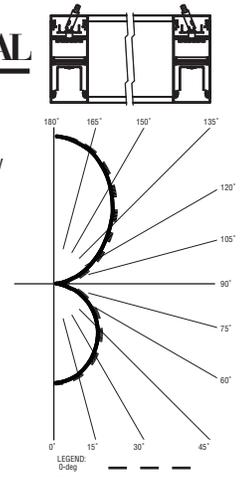
Extruded Aluminum Housing with  
White Aluminum Reflectors and LED  
Optimized Acrylic Accent Lens Up & Down

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

Total Luminaire Efficacy = 98.7 Lm/W

Color Rendering Index (CRI) = 82

56% Up 44% Down



## MQS2-1/D-HO/HO-K35-3X3-OP/FL

### High Output - 3' X 3' Square Pattern

#### LED Optimized High Transmittance Flush Lens

**Catalog Number:** MQS2-1/D-HO/HO-K35-80-3X3-X-OP/FL-UNV

**Report Number:** #LLIA000833-008.ies

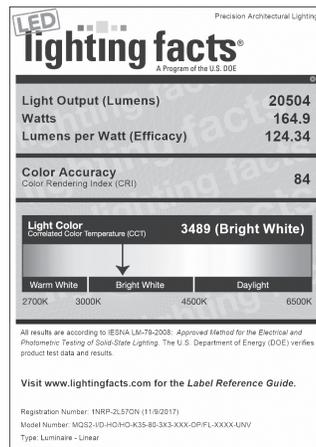
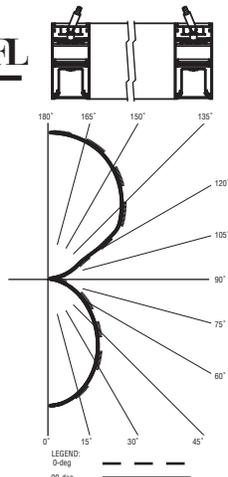
**Luminaire Description:** Extruded Aluminum Housing with  
White Aluminum Reflectors and LED  
Optimized Acrylic Flush Lens Down

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

Total Luminaire Efficacy = 124.3 Lm/W

Color Rendering Index (CRI) = 84

58% Up 42% Down



## MQS2-1/D-HO/HO-K35-3X3-AL/AL

### High Output - 3' X 3' Square Pattern

#### LED Optimized High Transmittance Accent Lens

**Catalog Number:** MQS2-1/D-HO/HO-K35-80-3X3-X-AL/AL-UNV

**Report Number:** #LLIA000833-007.ies

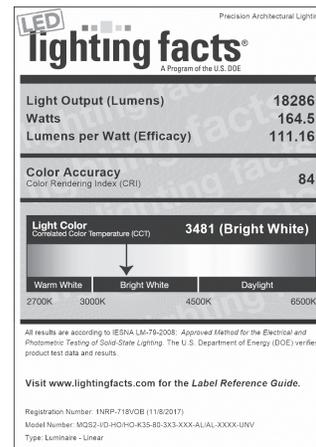
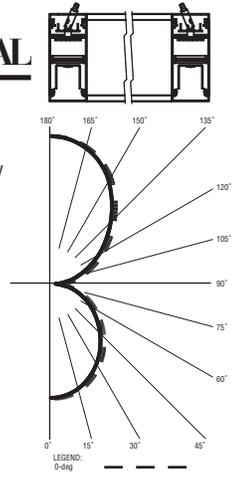
**Luminaire Description:** Extruded Aluminum Housing with  
White Aluminum Reflectors and LED  
Optimized Acrylic Accent Lens Up & Down

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

Total Luminaire Efficacy = 111.2 Lm/W

Color Rendering Index (CRI) = 84

55% Up 45% Down



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



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# Suspended-Indirect/Direct

## MQS2-I/D-HO/HO-K35-4X4-OP/FL

### High Output - 4' X 4' Square Pattern

#### LED Optimized High Transmittance Flush Lens

**Catalog Number:** MQS2-I/D-HO/HO-K35-80-4X4-X-OP/FL-UNV

**Report Number:** #LLIA000833-012.ies

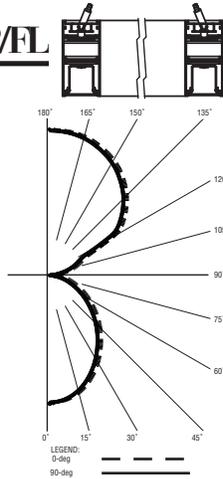
**Luminaire Description:** Extruded Aluminum Housing with White Aluminum Reflectors and LED Optimized Acrylic Flush Lens Down

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

Total Luminaire Efficacy = 113.3 Lm/W

Color Rendering Index (CRI) = 82

57% Up 43% Down



## MQS2-I/D-HO/HO-K35-4X4-AL/AL

### High Output - 4' X 4' Square Pattern

#### LED Optimized High Transmittance Accent Lens

**Catalog Number:** MQS2-I/D-HO/HO-K35-80-4X4-X-AL/AL-UNV

**Report Number:** #LLIA000833-011.ies

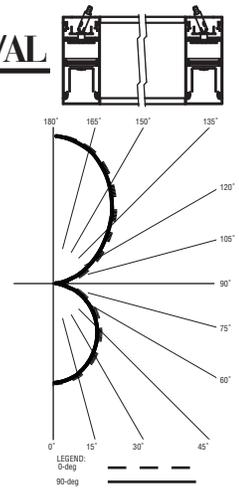
**Luminaire Description:** Extruded Aluminum Housing with White Aluminum Reflectors and LED Optimized Acrylic Accent Lenses Up & Down

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

Total Luminaire Efficacy = 100.7 Lm/W

Color Rendering Index (CRI) = 82

54% Up 46% Down



LED lighting facts®	
Precision Architectural Lighting	
A Program of the U.S. DOE	
Light Output (Lumens)	27027
Watts	238.6
Lumens per Watt (Efficacy)	113.27
Color Accuracy	82
Color Rendering Index (CRI)	
Light Color	3445 (Bright White)
Correlated Color Temperature (CCT)	
Warm White	Bright White
2700K	3000K
4500K	6500K
<small>All results 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.</small>	
<small>Visit <a href="http://www.lightingfacts.com">www.lightingfacts.com</a> for the Label Reference Guide.</small>	
<small>Registration Number: INRP-YR8JPH (11/10/2017)</small>	
<small>Model Number: MQS2-I/D-HO/HO-K35-80-4X4-XXX-OPFL-XXXX-UNV</small>	
<small>Type: Luminaire - Linear</small>	

LED lighting facts®	
Precision Architectural Lighting	
A Program of the U.S. DOE	
Light Output (Lumens)	23922
Watts	237.6
Lumens per Watt (Efficacy)	100.68
Color Accuracy	82
Color Rendering Index (CRI)	
Light Color	3431 (Bright White)
Correlated Color Temperature (CCT)	
Warm White	Bright White
2700K	3000K
4500K	6500K
<small>All results 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.</small>	
<small>Visit <a href="http://www.lightingfacts.com">www.lightingfacts.com</a> for the Label Reference Guide.</small>	
<small>Registration Number: INRP-FHR2X3 (11/9/2017)</small>	
<small>Model Number: MQS2-I/D-HO/HO-K35-80-4X4-XXX-ALAL-XXXX-UNV</small>	
<small>Type: Luminaire - Linear</small>	



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