

## NRM2-411 / NRM2-412 / NRM2-413 / NRM2-418

### 4" Marquise II Reflectors

Source: 15W or 18W LED  
900lm or 1500lm

#### PRODUCT DESCRIPTION

Marquise II COB Series enhances an established series of downlighting with the latest COB technology by Cree®. The COB allows for better optic control offering 3 beam spreads. Beam spreads focus the light down to the work plane from high ceiling applications.

#### FEATURES

- Cree® COB LED Technology
- Spot, narrow flood or flood beam spreads
- 900lm or 1500lm LED packages
- 2700K, 3000K, 3500K and 4000K @ 90+CRI
- 5-year Limited Warranty
- cULus listed for wet locations
- ENERGY STAR certified

#### CONSTRUCTION

**Trim:** Aluminum spun reflector with deep set diffused lens for excellent visual comfort while providing high lumen output.

**Mounting:** Trim includes friction blades to mount trim securely to housing.

#### ELECTRICAL

##### Lumens / Wattage:

L09 = 900lm / 15W

L15 = 1500lm / 18W

**Color Temperature:** 2700K, 3000K, 3500K, 4000K

**Color Rendering Index:** 90+CRI

##### Beam Spread:

S = 37° Spot

M = 63° Narrow Flood

F = 94° Flood

**Operating Temperature:** Determined by housing

**Lifetime:** 60,000 hours @ L70

#### COMPATIBLE HOUSINGS

Reflectors are compatible with respective Marquise II series housings manufactured by Nora Lighting.

##### CATALOG NO. DESCRIPTION

**NHM2-415** 4" Non-IC New Construction (1500lm)

**NHRM2-415** 4" Non-IC Remodel (1500lm)

**NHMC2-409** 4" IC New Construction (900lm)

**NHRMC2-409** 4" IC Remodel (900lm)

**NHMC2-415** 4" IC Double Wall (1500lm)

#### DECO GLASS OPTIONS

NRM2-418 is compatible with up to two decorative glass options, sold separately. Each glass includes mounting hardware (NRA-203).

**NTG-4B/80** 4" Tempered Blue Glass with 3-1/8" Open Center

**NTG-4CF** 4" Tempered Clear Glass with Frosted Center

**NTG-4FC** 4" Tempered Frosted Glass with Clear Center

**NTG-4HC** 4" Tempered Clear Glass with Frosted Center and 3-1/8" Open Center

#### LABELS AND LISTINGS

- cULus Listed for Wet Location when used with compatible housing
- ENERGY STAR® certified
- Certified to the high efficacy requirements of California Title 24 JA8-2019
- [5-Year Limited Warranty](#)
- WSEC ASTM E283 for Air-Tight



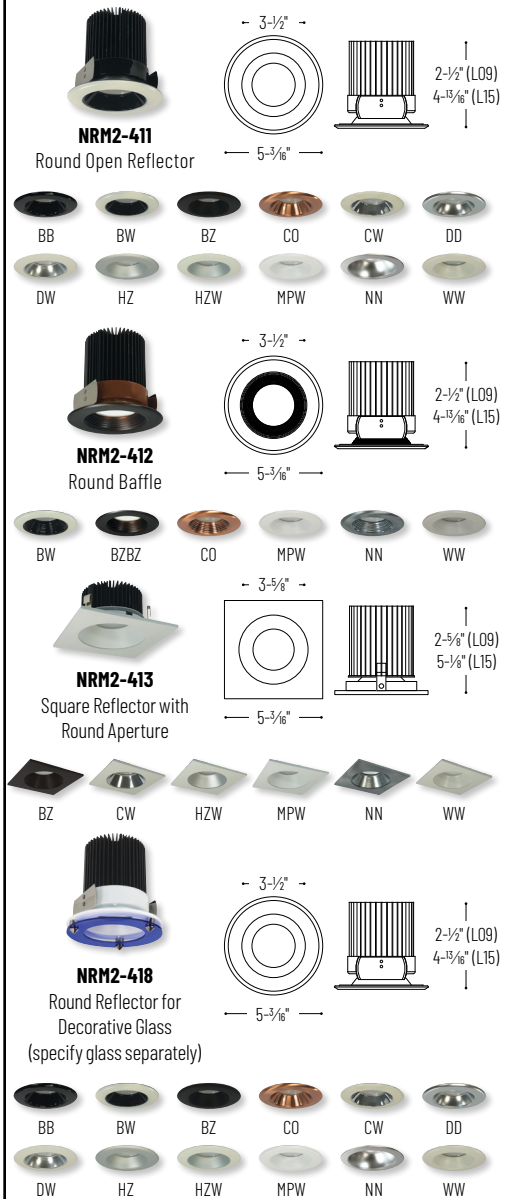
Type

Project

Catalog No.

Notes

#### PRODUCT IMAGES AND DIMENSIONS



### 4" Marquise II Reflectors - Dedicated Housing Required

| Reflector Type                          | Lumens / Wattage          | Color Temp.       | Beam Spread             | Finish (see chart below)                         |
|-----------------------------------------|---------------------------|-------------------|-------------------------|--------------------------------------------------|
| <b>NRM2-411</b> = Round Open Reflector  | <b>L09</b> = 900lm / 15W  | <b>27</b> = 2700K | <b>S</b> = Spot         | <b>BB</b> = Black / Black Flange                 |
| <b>NRM2-412</b> = Round Baffle          | <b>L15</b> = 1500lm / 18W | <b>30</b> = 3000K | <b>M</b> = Narrow Flood | <b>BW</b> = Black / White Flange                 |
| <b>NRM2-413</b> = Square Open Reflector |                           | <b>35</b> = 3500K | <b>F</b> = Flood        | <b>BZ</b> = Bronze / Bronze Flange               |
| <b>NRM2-418</b> = Round Deco Glass*     |                           | <b>40</b> = 4000K |                         | <b>CO</b> = Copper / Copper Flange               |
|                                         |                           |                   |                         | <b>CW</b> = Specular Clear / White Flange        |
|                                         |                           |                   |                         | <b>DD</b> = Diffused Clear / Diffused Flange     |
|                                         |                           |                   |                         | <b>DW</b> = Diffused Clear / White Flange        |
|                                         |                           |                   |                         | <b>HZ</b> = Haze / Haze Flange                   |
|                                         |                           |                   |                         | <b>HZW</b> = Haze / White Flange                 |
|                                         |                           |                   |                         | <b>MPW</b> = Matte Powder White                  |
|                                         |                           |                   |                         | <b>NN</b> = Natural Metal / Natural Metal Flange |
|                                         |                           |                   |                         | <b>WW</b> = White / White Flange                 |

\* Glass ordered separately

Available Finishes

|            | BB | BW | BZ | CO | CW | DD | DW | HZ | HZW | MPW | NN | WW |
|------------|----|----|----|----|----|----|----|----|-----|-----|----|----|
| <b>411</b> | *  | *  | *  | *  | *  | *  | *  | *  | *   | *   | *  | *  |
| <b>412</b> |    | *  | *  | *  |    |    |    |    |     | *   | *  | *  |
| <b>413</b> |    |    | *  | *  | *  | *  | *  | *  | *   | *   | *  | *  |
| <b>418</b> | *  | *  | *  | *  | *  | *  | *  | *  | *   | *   | *  | *  |

### 4" Decorative Glass - Requires NRM2-418

| Glass Type                                                                  |
|-----------------------------------------------------------------------------|
| <b>NTG-4B/80</b> = Tempered Blue Glass with 3-1/8" Open Center              |
| <b>NTG-4CF</b> = Tempered Clear Glass with Frosted Center                   |
| <b>NTG-4FC</b> = Tempered Frosted Glass with Clear Center                   |
| <b>NTG-4HC</b> = Tempered Clear Glass w/Frosted Center & 3-1/8" Open Center |

Example: **NRM2-411L1530SWW** = 4" Marquise II Round Open Reflector, 1500lm / 18W LED, 3000K, Spot Beam Spread, White Reflector / White Flange

## NHMCID2-415

### 4" Marquise II IC Air-Tight Double Wall New Construction Housing

Source: 18W LED  
1500lm

Type

Project

Catalog No.

Notes

#### PRODUCT DESCRIPTION

Dedicated new construction housing for use in insulated ceilings can be in direct contact with thermal insulation. Air-tight construction provides energy savings by reducing the flow of air through the ceiling.

#### CONSTRUCTION

**Plaster Frame:** 0.040 steel frame with integral bar hanger brackets. Brackets can accommodate longer 27" accessory flat bar hangers. Brackets run along all sides of frame to allow bar hangers to be run parallel or perpendicular to junction box.

**Housing:** 0.040 aluminum outer housing with white powder coated steel inner housing. Inner housing adjusts for ceiling thickness from 1/2" to 1-1/4". Inner housing supports the reflector assembly's plated spring steel blades.

**Air Flow Restriction:** Housing has factory installed gaskets to restrict airflow from room into ceiling plenum to <2CFM (cubic feet per minute) in accordance with ASTM-283 Air-Tight requirements.

**Clearance:** "IC" Insulated ceiling housings are direct contact rated; no minimum clearance is required.

**Bar Hangers:** Two 13-3/4" to 24-1/2" adjustable bar hangers with captive nails are included on frame. Bar hangers are parallel to junction box, but can be repositioned 90° perpendicular to junction box if desired. "L" Shaped bar hanger foot to align to bottom of construction joist. A T-Bar notch allow for easy installation in a suspended ceiling.

**Junction Box:** Prewired 25 cubic inch 0.064" thick galvanized steel, with five 1/2", two 3/4" knockouts, four Romex® pryouts, and snap on covers. All leads are #18AWG wire, the ground wire is connected to the bottom, and quick connectors are supplied on all leads. Through branch circuit wiring, (4-in, 4-out).

#### ELECTRICAL

**Input Voltage:** 120V or 120-277V

**Lumens / Wattage:** 1500lm / 18W

**Operating Temperature:** 0°C to 30°C

**Dimming:** Triac, ELV or 0-10V dimming

[Click Here](#) or check complete dimmer list at [www.NoraLighting.com](http://www.NoraLighting.com) in the "Compatibility" page under "Resources" tab

#### COMPATIBLE REFLECTORS

##### CATALOG NO. DESCRIPTION

|                 |                         |
|-----------------|-------------------------|
| <b>NRM2-411</b> | 4" Round Open Reflector |
| <b>NRM2-412</b> | 4" Round Baffle         |
| <b>NRM2-413</b> | 4" Square Reflector     |
| <b>NRM2-418</b> | 4" Round Deco Glass     |

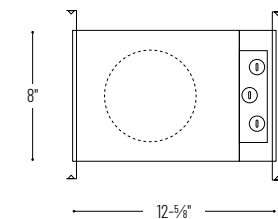
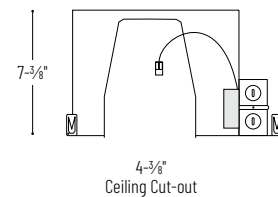
**Emergency:** Housing can be specified with connections for emergency battery installation. Requires top access. Must specify battery with remote test switch separately, NEPK-07LEDUNV.

#### LABELS AND LISTINGS

- cULus Listed for Damp Location w/ Feed Through (Wet Location when used with compatible reflector)
- [5-Year Limited Warranty](#)
- Meets or exceeds ASTM-283 Air-Tight Requirements



#### PRODUCT IMAGES AND DIMENSIONS



### 4" Marquise II IC Air-Tight Double Wall New Construction Housing - Compatible with Marquise II Reflectors

| Installation Type / Lumens / Wattage   | Driver                                                                                         |
|----------------------------------------|------------------------------------------------------------------------------------------------|
| <b>NHMCID2-415</b> = IC / 1500lm / 18W | <b>LE3</b> = 120V Input; Triac/ELV/0-10V dimming<br><b>LE6</b> = 120-277V Input; 0-10V dimming |

### Optional Accessories

| Description                                                   |
|---------------------------------------------------------------|
| <b>NEPK-07LEDUNV</b> = Remote Emergency Battery w/Test Switch |

Example: **NHMCID2-415LE6** = 4" Marquise II IC Air-Tight Double Wall New Construction Housing, 1500lm / 18W LED, 120-277V Input

## NHM2-415 / NHMIC2-409

### 4" Marquise II Air-Tight New Construction Housing

Source: 15W or 18W LED

900lm or 1500lm

Type

Project

Catalog No.

Notes

#### PRODUCT DESCRIPTION

Dedicated new construction housing for installation in Non-IC or insulated ceilings, must specify. Air-tight construction provides energy savings by reducing the flow of air through the ceiling.

#### CONSTRUCTION

**Plaster Frame:** 0.040 steel frame with integral bar hanger brackets. Brackets can accommodate longer 27" accessory flat bar hangers. Brackets run along all sides of frame to allow bar hangers to be run parallel or perpendicular to junction box.

**Housing:** 0.040 aluminum one-piece can. Housing adjusts for ceiling thickness from 1/2" to 1-1/4".

**Air Flow Restriction:** Housing has factory installed gaskets to restrict airflow from room into ceiling plenum to <2CFM (cubic feet per minute) in accordance with ASTM-283 Air-Tight requirements.

**Bar Hangers:** Two 13-3/4" to 24-1/2" adjustable bar hangers with captive nails are included on frame. Bar hangers are parallel to junction box, but can be repositioned 90° perpendicular to junction box if desired. "L" Shaped bar hanger foot to align to bottom of construction joist. A T-Bar notch allow for easy installation in a suspended ceiling.

**Junction Box:** Prewired 25 cubic inch 0.064" thick galvanized steel, with seven 1/2" knockouts, four Romex® pryouts, and snap on covers. All leads are #18AWG wire, the ground wire is connected to the bottom, and quick connectors are supplied on all leads. Through branch circuit wiring, (4-in, 4-out).

#### CLEARANCE

**Non-IC:** Non-Insulated housings require a minimum clearance of 3" from thermal insulation and 1/2" from adjacent building components.

**IC:** Insulated ceiling housings are direct contact rated; no minimum clearance is required.

#### ELECTRICAL

**Input Voltage:** 120V or 120-277V

**Lumens / Wattage:**

NHMIC2-409 = 900lm / 15W

NHM2-415 = 1500lm / 18W

**Operating Temperature:**

NHMIC2-409 = 0°C to 35°C

NHM2-415 = 0°C to 45°C

**Dimming:** Triac, ELV or 0-10V

[Click Here](#) or check complete dimmer list at [www.NoraLighting.com](http://www.NoraLighting.com) in the "Compatibility" page under "Resources" tab

#### COMPATIBLE REFLECTORS

##### CATALOG NO. DESCRIPTION

**NRM2-411** 4" Round Open Reflector

**NRM2-412** 4" Round Baffle

**NRM2-413** 4" Square Reflector

**NRM2-418** 4" Round Deco Glass

#### Emergency LED Driver (NEPK-07LEDUNV)

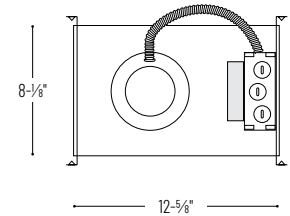
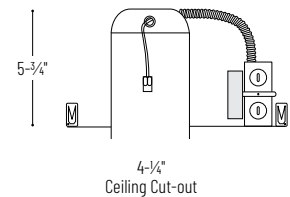
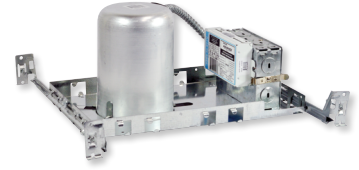
- Up to 7.5W emergency illumination with LEDs.
- Illumination Time: 90min
- Voltage: 120/277 VAC, 60Hz
- Output Voltage: 15.0-50.0 VDC
- Available with remote test switch, must specify

#### LABELS AND LISTINGS

- cULus Listed for Damp Location w/ Feed Through (Wet Location when used with compatible reflector)
- [5-Year Limited Warranty](#)
- Meets or exceeds ASTM-283 Air-Tight Requirements
- Emergency LED Driver meets Title 20 CEC efficiency standards



#### PRODUCT IMAGES AND DIMENSIONS



### 4" Marquise II Air-Tight New Construction Housing - Compatible with Marquise II Reflectors

| Installation Type / Lumens / Wattage    | Driver / Dimming                                 | Optional Emergency                               |
|-----------------------------------------|--------------------------------------------------|--------------------------------------------------|
| <b>NHMIC2-409</b> = IC / 900lm / 15W    | <b>LE3</b> = 120V Input; Triac/ELV/0-10V dimming | <b>EM</b> - Emergency Pack w/ Remote Test Switch |
| <b>NHM2-415</b> = Non-IC / 1500lm / 18W | <b>LE6</b> = 120-277V Input; 0-10V dimming       |                                                  |

Example: **NHMIC2-409LE6** = 4" Marquise II IC Air-Tight New Construction Housing, 900lm / 15W LED, 120-277V Input

## NHRM2-415 / NHRMIC2-409

### 4" Marquise I Air-Tight Remodel Housing

Source: 15W or 18W LED

900lm or 1500lm

Type

Project

Catalog No.

Notes

#### PRODUCT DESCRIPTION

Dedicated remodel housing for use in Non-IC or insulated ceilings, must specify. Air-tight construction provides energy savings by reducing the flow of air through the ceiling.

#### CONSTRUCTION

**Housing:** 0.040 aluminum housing adjusts to a maximum ceiling thickness of  $\frac{5}{8}$ " (16mm). Housing terminates at a  $\frac{1}{4}$ " ceiling flange for even positioning of housing angle within the ceiling. Structural arm consists of 0.050 steel and connects to housing with j-box and ballast. Integral springs brackets provided.

**Air Flow Restriction:** Housing has factory installed gaskets to restrict airflow from room into ceiling plenum to <2CFM (cubic feet per minute) in accordance with ASTM-283 Air-Tight requirements.

**Mounting:** Four high tension tempered steel springs secure remodel housing to  $\frac{5}{8}$ " thick (max) ceiling (Hole cutout template provided for convenience).

**Junction Box:** Prewired 25 cubic inch 0.064" thick galvanized steel, with five  $\frac{1}{2}$ ", two  $\frac{3}{4}$ " knockouts, four Romex® pryouts, and snap on covers. All leads are #18AWG wire, the ground wire is connected to the bottom, and quick connectors are supplied on all leads. Through branch circuit wiring, (4-in, 4-out).

#### CLEARANCE

**Non-IC:** Non-Insulated housings require a minimum clearance of 3" from thermal insulation and  $\frac{1}{2}$ " from adjacent building components.

**IC:** Insulated ceiling housings are direct contact rated; no minimum clearance is required.

#### ELECTRICAL

**Input Voltage:** 120V or 120-277V

**Lumens / Wattage:**

NHRMIC2-409 = 900lm / 15W

NHRM2-415 = 1500lm / 18W

**Operating Temperature:**

NHRMIC2-409 = 0°C to 30°C

NHRM2-415 = 0°C to 45°C

**Dimming:** Triac, ELV or 0-10V

[Click Here](#) or check complete dimmer list at [www.NoraLighting.com](http://www.NoraLighting.com) in the "Compatibility" page under "Resources" tab

#### COMPATIBLE REFLECTORS

| CATALOG NO. | DESCRIPTION |
|-------------|-------------|
|-------------|-------------|

|          |                         |
|----------|-------------------------|
| NRM2-411 | 4" Round Open Reflector |
|----------|-------------------------|

|          |                 |
|----------|-----------------|
| NRM2-412 | 4" Round Baffle |
|----------|-----------------|

|          |                     |
|----------|---------------------|
| NRM2-413 | 4" Square Reflector |
|----------|---------------------|

|          |                     |
|----------|---------------------|
| NRM2-418 | 4" Round Deco Glass |
|----------|---------------------|

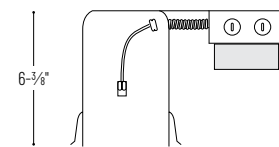
**Emergency:** Housing can be specified with connections for emergency battery installation. Requires top access. Must specify battery with remote test switch separately, NEPK-07LEDUNV.

#### LABELS AND LISTINGS

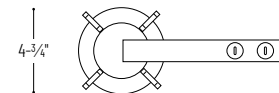
- cULus Listed for Damp Location w/ Feed Through (Wet Location when used with compatible reflector)
- [5-Year Limited Warranty](#)
- Meets or exceeds ASTM-283 Air-Tight Requirements
- Emergency LED Driver meets Title 20 CEC efficiency standards



#### PRODUCT IMAGES AND DIMENSIONS



4-1/4"  
Ceiling Cut-out



12-1/2" (IC)  
14-3/8" (Non-IC)

#### 4" Marquise II Air-Tight Remodel Housing - Compatible with Marquise II Reflectors

| Installation Type / Lumens / Wattage | Driver                                                                           |
|--------------------------------------|----------------------------------------------------------------------------------|
| NHRMIC2-409 = IC / 900lm / 15W       | LE3 = 120V Input; Triac/ELV/0-10V dimming                                        |
| NHRM2-415 = Non-IC / 1500lm / 18W    | LE3 = 120V Input; Triac/ELV/0-10V dimming<br>LE6 = 120-277V Input; 0-10V dimming |

#### Optional Accessories

| Description                                            |
|--------------------------------------------------------|
| NEPK-07LEDUNV = Remote Emergency Battery w/Test Switch |

Example: NHRMIC2-409LE3 = 4" Marquise II IC Air-Tight Remodel Housing, 900lm / 15W LED, 120V Input

# PHOTOMETRICS

## 4" Marquise II Series

900 lumens

Type

Project

Catalog No.

Notes

### Test Information

Test Number: NTR11305

Part Number: NRM2-411L0940SWW

Beam Spread: 35° Spot

Lumens: 1233lm

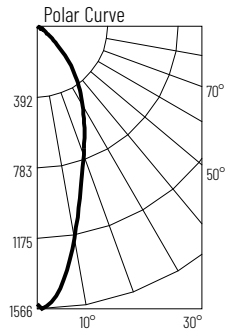
Wattage: 14.79W

Efficacy: 83lpw

CCT / CRI: 4000K / 90 CRI

Spacing Criteria (0°-180): 0.54

Spacing Criteria (90°-270): 0.54



### Illuminance at a Distance

| Distance from Luminaire | FC at Nadir | Beam Diameter |
|-------------------------|-------------|---------------|
| 4'                      | 97.6fc      | 2'-6"         |
| 6'                      | 43.4fc      | 3'-8"         |
| 8'                      | 24.4fc      | 5'            |
| 10'                     | 15.6fc      | 6'-2"         |
| 12'                     | 10.8fc      | 7'-6"         |

### Zonal Lumen Summary

| Zone   | Lumens | % Luminaire |
|--------|--------|-------------|
| 0-30   | 635    | 51.5        |
| 0-40   | 890    | 72.2        |
| 0-60   | 1164   | 94.4        |
| 0-90   | 1225   | 99.4        |
| 90-180 | 8      | 0.6         |
| 0-180  | 1233   | 100         |

### Candela Table

| Vertical Angles | Candela |
|-----------------|---------|
| 0               | 1561    |
| 5               | 1413    |
| 15              | 867     |
| 25              | 578     |
| 35              | 408     |
| 45              | 243     |

### Test Information

Test Number: NTR11304

Part Number: NRM2-411L0940MWW

Beam Spread: 64° Narrow Flood

Lumens: 1242lm

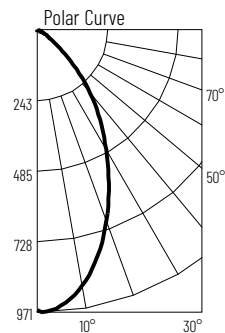
Wattage: 15.06W

Efficacy: 82lpw

CCT / CRI: 4000K / 90 CRI

Spacing Criteria (0°-180): 0.9

Spacing Criteria (90°-270): 0.92



### Illuminance at a Distance

| Distance from Luminaire | FC at Nadir | Beam Diameter |
|-------------------------|-------------|---------------|
| 4'                      | 60.3fc      | 5'            |
| 6'                      | 26.8fc      | 7'-6"         |
| 8'                      | 15.1fc      | 10'           |
| 10'                     | 9.7fc       | 12'-6"        |
| 12'                     | 6.7fc       | 15'           |

### Zonal Lumen Summary

| Zone   | Lumens | % Luminaire |
|--------|--------|-------------|
| 0-30   | 606    | 48.8        |
| 0-40   | 876    | 70.5        |
| 0-60   | 1168   | 94          |
| 0-90   | 1234   | 99.3        |
| 90-180 | 9      | 0.7         |
| 0-180  | 1242   | 100         |

### Candela Table

| Vertical Angles | Candela |
|-----------------|---------|
| 0               | 965     |
| 5               | 948     |
| 15              | 825     |
| 25              | 620     |
| 35              | 431     |
| 45              | 255     |

### Test Information

Test Number: NTR11303

Part Number: NRM2-411L0940FWW

Beam Spread: 94° Flood

Lumens: 1035lm

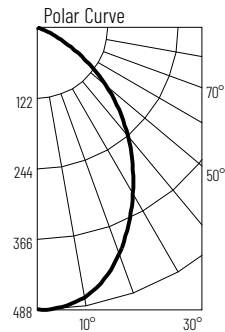
Wattage: 14.63W

Efficacy: 71lpw

CCT / CRI: 4000K / 90 CRI

Spacing Criteria (0°-180): 1.2

Spacing Criteria (90°-270): 1.2



### Illuminance at a Distance

| Distance from Luminaire | FC at Nadir | Beam Diameter |
|-------------------------|-------------|---------------|
| 4'                      | 30.4fc      | 8'-7"         |
| 6'                      | 13.5fc      | 13'           |
| 8'                      | 7.6fc       | 17'-4"        |
| 10'                     | 4.9fc       | 21'-7"        |
| 12'                     | 3.4fc       | 25'-11"       |

### Zonal Lumen Summary

| Zone   | Lumens | % Luminaire |
|--------|--------|-------------|
| 0-30   | 367    | 35.5        |
| 0-40   | 585    | 56.6        |
| 0-60   | 934    | 90.2        |
| 0-90   | 1028   | 99.3        |
| 90-180 | 7      | 0.7         |
| 0-180  | 1035   | 100         |

### Candela Table

| Vertical Angles | Candela |
|-----------------|---------|
| 0               | 486     |
| 5               | 485     |
| 15              | 462     |
| 25              | 415     |
| 35              | 350     |
| 45              | 267     |

### Lumen Output Multipliers

Color Temperature: 2700K (0.84), 3000K (0.93), 3500K (0.95), 4000K (1.00)

# PHOTOMETRICS

## 4" Marquise II Series

1500 lumens

Type

Project

Catalog No.

Notes

### Test Information

Test Number: NTR11308

Part Number: NRM2-411L1540SWW

Beam Spread: 39° Spot

Lumens: 1658lm

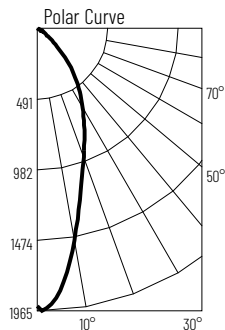
Wattage: 16.4W

Efficacy: 101lpw

CCT / CRI: 4000K / 90 CRI

Spacing Criteria (0°-180): 0.6

Spacing Criteria (90°-270): 0.6



### Illuminance at a Distance

| Distance from Luminaire | FC at Nadir | Beam Diameter |
|-------------------------|-------------|---------------|
| 4'                      | 123fc       | 2'-10"        |
| 6'                      | 54.5fc      | 4'-4"         |
| 8'                      | 30.7fc      | 5'-8"         |
| 10'                     | 19.6fc      | 7'-1"         |
| 12'                     | 13.6fc      | 8'-6"         |

### Zonal Lumen Summary

| Zone   | Lumens | % Luminaire |
|--------|--------|-------------|
| 0-30   | 865    | 52.2        |
| 0-40   | 1206   | 72.7        |
| 0-60   | 1567   | 94.5        |
| 0-90   | 1646   | 99.3        |
| 90-180 | 12     | 0.7         |
| 0-180  | 1658   | 100         |

### Candela Table

| Vertical Angles | Candela |
|-----------------|---------|
| 0               | 1962    |
| 5               | 1838    |
| 15              | 1204    |
| 25              | 791     |
| 35              | 545     |
| 45              | 318     |

### Test Information

Test Number: NTR11307

Part Number: NRM2-411L1540MWW

Beam Spread: 62° Narrow Flood

Lumens: 1671lm

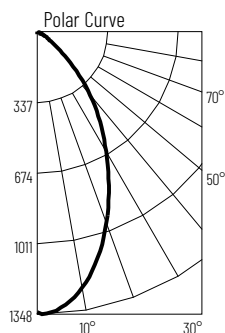
Wattage: 16.7W

Efficacy: 100lpw

CCT / CRI: 4000K / 90 CRI

Spacing Criteria (0°-180): 0.9

Spacing Criteria (90°-270): 0.9



### Illuminance at a Distance

| Distance from Luminaire | FC at Nadir | Beam Diameter |
|-------------------------|-------------|---------------|
| 4'                      | 84.1fc      | 4'-10"        |
| 6'                      | 37.4fc      | 7'-2"         |
| 8'                      | 21fc        | 9'-8"         |
| 10'                     | 13.5fc      | 12'-1"        |
| 12'                     | 9.3fc       | 14'-6"        |

### Zonal Lumen Summary

| Zone   | Lumens | % Luminaire |
|--------|--------|-------------|
| 0-30   | 831    | 49.7        |
| 0-40   | 1192   | 71.3        |
| 0-60   | 1575   | 94.2        |
| 0-90   | 1659   | 99.3        |
| 90-180 | 12     | 0.7         |
| 0-180  | 1671   | 100         |

### Candela Table

| Vertical Angles | Candela |
|-----------------|---------|
| 0               | 1345    |
| 5               | 1326    |
| 15              | 1147    |
| 25              | 843     |
| 35              | 576     |
| 45              | 335     |

### Test Information

Test Number: NTR11306

Part Number: NRM2-411L1540FWW

Beam Spread: 94° Flood

Lumens: 1410lm

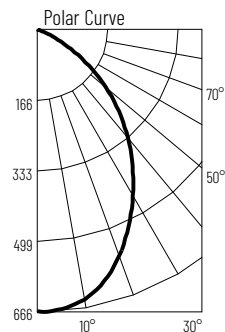
Wattage: 16.6W

Efficacy: 85lpw

CCT / CRI: 4000K / 90 CRI

Spacing Criteria (0°-180): 1.2

Spacing Criteria (90°-270): 1.2



### Illuminance at a Distance

| Distance from Luminaire | FC at Nadir | Beam Diameter |
|-------------------------|-------------|---------------|
| 4'                      | 41.5fc      | 8'-7"         |
| 6'                      | 18.5fc      | 12'-11"       |
| 8'                      | 10.4fc      | 17'-2"        |
| 10'                     | 6.7fc       | 21'-7"        |
| 12'                     | 4.6fc       | 25'-11"       |

### Zonal Lumen Summary

| Zone   | Lumens | % Luminaire |
|--------|--------|-------------|
| 0-30   | 240    | 17.1        |
| 0-40   | 799    | 56.7        |
| 0-60   | 1273   | 90.3        |
| 0-90   | 1399   | 99.2        |
| 90-180 | 11     | 0.8         |
| 0-180  | 1410   | 100         |

### Candela Table

| Vertical Angles | Candela |
|-----------------|---------|
| 0               | 665     |
| 5               | 662     |
| 15              | 631     |
| 25              | 568     |
| 35              | 478     |
| 45              | 363     |

### Lumen Output Multipliers

Color Temperature: 2700K (0.84), 3000K (0.93), 3500K (0.95), 4000K (1.00)