

# Metalux AP Series

**DESCRIPTION**

FM series is a versatile LED ceiling or wall mount series which can be used in a broad range of residential and commercial applications. This series provides customers with a high quality luminaire utilizing the latest LED, solid state lighting and electronic driver technology for optimal performance and maximized energy efficiency. With a traditional opal white lens, the FM series produces even, uniform light distribution and is an ideal choice for offices, corridors, stairways, bedroom, closet and foyers applications and T8 replacing incandescent, circline or compact fluorescent lamps.

|                    |  |             |
|--------------------|--|-------------|
| <b>Catalog #</b>   |  | <b>Type</b> |
| <b>Project</b>     |  |             |
| <b>Comments</b>    |  | <b>Date</b> |
| <b>Prepared by</b> |  |             |

**SPECIFICATION FEATURES**

**Construction**

Housing consists of die formed steel which is post painted to offer the ideal aesthetics. Diffuser are white opal injection molded acrylic blends offering the ideal light distribution. These lens are offered in three different sizes: 11, 15, 19 inch models. Lens are attached with easy mount tabs.

**Controls**

Equipped standard with non-dimmable electronic drivers which provides extensive energy savings over existing fluorescent lamp options. All drivers are suitable for 120V applications. Dimmable to 10% compatible with most Triac dimmers.

**Electrical**

Long-Life LED system coupled with electrical driver to deliver optimal performance. LEDs are 4000K with a typical CRI 80. Projected life is 50,000 hours at 70% lumen output.

**Shielding**

Specially developed LED lens blend allows this product series to offer optimal light out and providing smooth even illumination with no pixilation. Lenses are designed from smooth opal white acrylic and provide 360° uniform light distribution. Lens is easily removed for installation and maintenance.

**Installation**

Fixture may be surface (wall or ceiling) mounted.

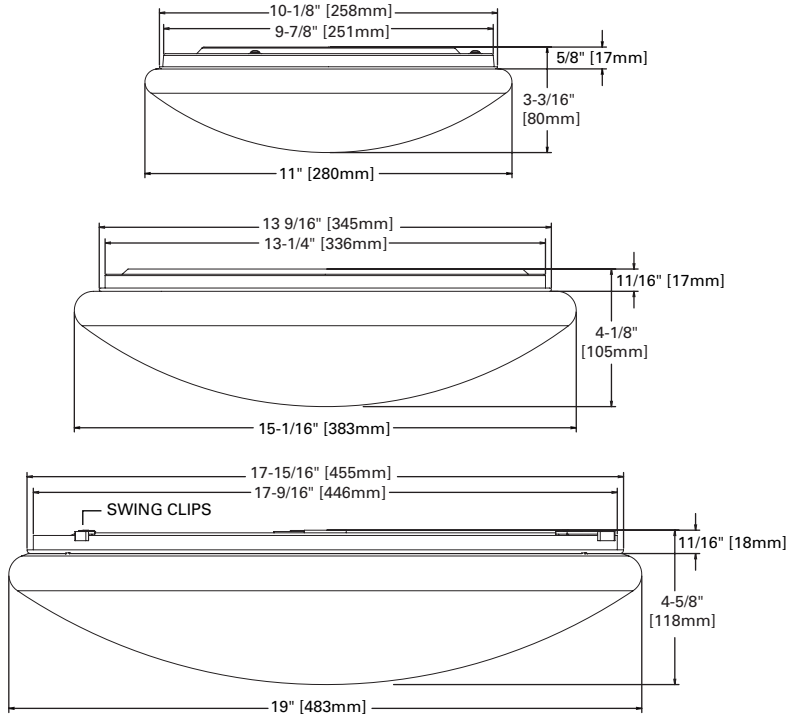
**Compliance**

UL/CUL Listed. Energy Star Qualified. Lighting Facts Approved. Suitable for Damp locations. Models less than 4 inches are ADA Compliant.



**FM LED Flushmount**

Wall or Ceiling Mount



**ORDERING INFORMATION**

| Catalog No. | UPC          | I2of5          |
|-------------|--------------|----------------|
| FM11WR40R   | 080083770083 | 10080083770080 |
| FM15WR40R   | 080083760466 | 10080083760463 |
| FM19WR40R   | 080083760473 | 10080083760470 |

**WATTAGE**

| Size | 4000K | Watts |
|------|-------|-------|
| 11"  | 1100  | 13.5  |
| 15"  | 1700  | 21.3  |
| 19"  | 2450  | 30.5  |

**SHIPPING DATA**

| Catalog No. | Individual Wt. | Master Pack |
|-------------|----------------|-------------|
| FM11        | 1.8 lbs.       | 4           |
| FM15        | 3.5 lbs.       | 4           |
| FM19        | 5.55 lbs.      | 2           |



4000K LIGHTING FACTS

### PRODUCT SPECIFICATIONS

**Lumens (Light Output)** 1100

**Watts** 13.3

**Lumens Per Watt (Efficacy)** 83

**Color Accuracy (CRI)** 80

**Light Color (CCT)** 4000K  
Correlated Color Temperature (CCT)

**FM11WR40**

### PRODUCT SPECIFICATIONS

**Lumens (Light Output)** 1700

**Watts** 20.2

**Lumens Per Watt (Efficacy)** 83

**Color Accuracy (CRI)** 80

**Light Color (CCT)** 4000K  
Correlated Color Temperature (CCT)

**FM15WR40**

### PRODUCT SPECIFICATIONS

**Lumens (Light Output)** 2450

**Watts** 30.5

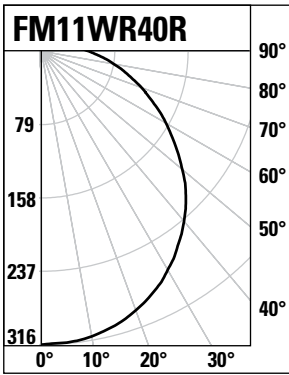
**Lumens Per Watt (Efficacy)** 80

**Color Accuracy (CRI)** 80

**Light Color (CCT)** 4000K  
Correlated Color Temperature (CCT)

**FM19WR40**

PHOTOMETRICS - 4000K



**Description**  
11" Circular LED flush mount luminaire

**CCT = 4000K**  
**Lumens = 1162.7**  
**Input Watts = 13.3**  
**Efficacy = 87.4**  
**Test Report = P27996**

**Zonal Lumen Summary**

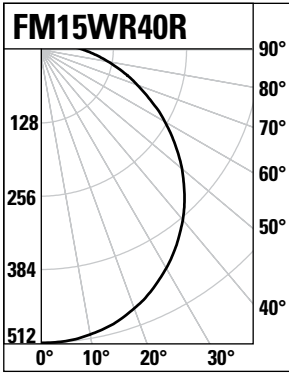
| Zone    | Lumens | % Fixture |
|---------|--------|-----------|
| 0°-30°  | 248.2  | 21.3      |
| 0°-40°  | 408.7  | 35.2      |
| 0°-60°  | 736    | 63.3      |
| 0°-90°  | 1041.5 | 89.6      |
| 0°-180° | 1162.7 | 100       |

**Coefficients of Utilization**  
Effective floor cavity reflectance 20%

| rc<br>rw | 80% |     |     |     | 70% |     |     |     | 50% |     |     |    | 30% |    |    |    | 10% |    |    |    | 0  |    |  |  |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|----|----|----|-----|----|----|----|----|----|--|--|
|          | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50 | 60  | 10 | 50 | 30 | 10  | 50 | 30 | 10 | 0  | 0  |  |  |
| 0        | 117 | 117 | 117 | 117 | 113 | 113 | 113 | 113 | 105 | 105 | 105 | 99 | 99  | 99 | 92 | 92 | 92  | 90 | 90 | 90 | 90 | 90 |  |  |
| 1        | 104 | 99  | 94  | 89  | 100 | 95  | 91  | 87  | 89  | 85  | 82  | 83 | 80  | 77 | 78 | 76 | 73  | 70 | 70 | 70 | 70 | 70 |  |  |
| 2        | 94  | 85  | 77  | 71  | 90  | 82  | 75  | 69  | 77  | 71  | 66  | 72 | 67  | 63 | 67 | 63 | 60  | 57 | 57 | 57 | 57 | 57 |  |  |
| 3        | 85  | 74  | 65  | 58  | 82  | 72  | 64  | 57  | 67  | 60  | 55  | 63 | 57  | 52 | 59 | 54 | 50  | 47 | 47 | 47 | 47 | 47 |  |  |
| 4        | 78  | 65  | 56  | 49  | 75  | 63  | 54  | 48  | 59  | 52  | 46  | 56 | 49  | 44 | 52 | 47 | 43  | 40 | 40 | 40 | 40 | 40 |  |  |
| 5        | 71  | 58  | 49  | 42  | 69  | 56  | 48  | 41  | 53  | 45  | 40  | 50 | 43  | 38 | 47 | 41 | 37  | 34 | 34 | 34 | 34 | 34 |  |  |
| 6        | 66  | 52  | 43  | 36  | 63  | 51  | 42  | 36  | 48  | 40  | 35  | 45 | 38  | 33 | 43 | 37 | 32  | 30 | 30 | 30 | 30 | 30 |  |  |
| 7        | 61  | 47  | 38  | 32  | 59  | 46  | 37  | 31  | 43  | 36  | 30  | 41 | 34  | 30 | 39 | 33 | 29  | 26 | 26 | 26 | 26 | 26 |  |  |
| 8        | 57  | 43  | 34  | 28  | 55  | 42  | 34  | 28  | 40  | 32  | 27  | 38 | 31  | 26 | 36 | 30 | 26  | 23 | 23 | 23 | 23 | 23 |  |  |
| 9        | 53  | 39  | 31  | 25  | 51  | 38  | 30  | 25  | 36  | 29  | 24  | 35 | 28  | 24 | 33 | 27 | 23  | 21 | 21 | 21 | 21 | 21 |  |  |
| 10       | 50  | 36  | 28  | 23  | 48  | 35  | 28  | 23  | 34  | 27  | 22  | 32 | 26  | 21 | 30 | 25 | 21  | 19 | 19 | 19 | 19 | 19 |  |  |

**Candlepower**

| 0°  | Flux    |
|-----|---------|
| 0°  | 316     |
| 5°  | 315 30  |
| 15° | 306 86  |
| 25° | 286 132 |
| 35° | 256 160 |
| 45° | 220 170 |
| 55° | 176 158 |
| 65° | 134 133 |
| 75° | 96 102  |
| 85° | 64 56   |
| 90° | 51 28   |



**Description**  
15" Circular LED flush mount luminaire

**CCT = 4000K**  
**Lumens = 1880.8**  
**Input Watts = 20.3**  
**Efficacy = 92.7**  
**Test Report = P27998**

**Zonal Lumen Summary**

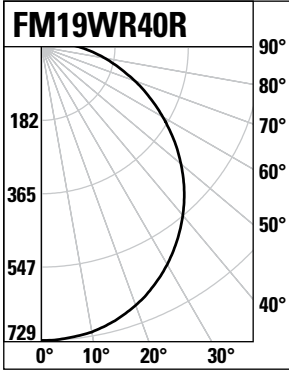
| Zone    | Lumens | % Fixture |
|---------|--------|-----------|
| 0°-30°  | 401.9  | 21.4      |
| 0°-40°  | 662.2  | 35.2      |
| 0°-60°  | 1195.4 | 63.6      |
| 0°-90°  | 1673.9 | 89        |
| 0°-180° | 1880.8 | 100       |

**Coefficients of Utilization**  
Effective floor cavity reflectance 20%

| rc<br>rw | 80% |     |     |     | 70% |     |     |     | 50% |     |     |    | 30% |    |    |    | 10% |    |    |    | 0  |    |  |  |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|----|----|----|-----|----|----|----|----|----|--|--|
|          | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50 | 60  | 10 | 50 | 30 | 10  | 50 | 30 | 10 | 0  | 0  |  |  |
| 0        | 116 | 116 | 116 | 116 | 112 | 112 | 112 | 112 | 105 | 105 | 105 | 98 | 98  | 98 | 92 | 92 | 92  | 89 | 89 | 89 | 89 | 89 |  |  |
| 1        | 104 | 99  | 94  | 89  | 100 | 95  | 91  | 87  | 89  | 85  | 82  | 83 | 80  | 78 | 78 | 76 | 73  | 70 | 70 | 70 | 70 | 70 |  |  |
| 2        | 94  | 85  | 78  | 71  | 90  | 82  | 75  | 70  | 77  | 71  | 66  | 72 | 67  | 63 | 67 | 64 | 60  | 57 | 57 | 57 | 57 | 57 |  |  |
| 3        | 85  | 74  | 66  | 59  | 82  | 72  | 64  | 57  | 67  | 60  | 55  | 63 | 57  | 53 | 59 | 54 | 50  | 48 | 48 | 48 | 48 | 48 |  |  |
| 4        | 78  | 65  | 56  | 49  | 75  | 63  | 55  | 48  | 59  | 52  | 46  | 56 | 50  | 45 | 52 | 47 | 43  | 40 | 40 | 40 | 40 | 40 |  |  |
| 5        | 72  | 58  | 49  | 42  | 69  | 56  | 48  | 41  | 53  | 46  | 40  | 50 | 43  | 38 | 47 | 41 | 37  | 35 | 35 | 35 | 35 | 35 |  |  |
| 6        | 66  | 52  | 43  | 37  | 63  | 51  | 42  | 36  | 48  | 40  | 35  | 45 | 39  | 34 | 43 | 37 | 32  | 30 | 30 | 30 | 30 | 30 |  |  |
| 7        | 61  | 47  | 38  | 32  | 59  | 46  | 38  | 32  | 43  | 36  | 31  | 41 | 34  | 30 | 39 | 33 | 29  | 26 | 26 | 26 | 26 | 26 |  |  |
| 8        | 57  | 43  | 34  | 28  | 55  | 42  | 34  | 28  | 40  | 32  | 27  | 38 | 31  | 26 | 36 | 30 | 26  | 24 | 24 | 24 | 24 | 24 |  |  |
| 9        | 53  | 39  | 31  | 25  | 51  | 38  | 31  | 25  | 36  | 29  | 24  | 35 | 28  | 24 | 33 | 27 | 23  | 21 | 21 | 21 | 21 | 21 |  |  |
| 10       | 50  | 36  | 28  | 23  | 48  | 35  | 28  | 23  | 34  | 27  | 22  | 32 | 26  | 21 | 30 | 25 | 21  | 19 | 19 | 19 | 19 | 19 |  |  |

**Candlepower**

| 0°  | Flux    |
|-----|---------|
| 0°  | 512     |
| 5°  | 511 49  |
| 15° | 496 140 |
| 25° | 463 213 |
| 35° | 416 260 |
| 45° | 357 275 |
| 55° | 288 258 |
| 65° | 215 214 |
| 75° | 150 159 |
| 85° | 96 84   |
| 90° | 75 41   |



**Description**  
19" Circular LED flush mount luminaire

**CCT = 4000K**  
**Lumens = 2552.5**  
**Input Watts = 30.6**  
**Efficacy = 83.4**  
**Test Report = P28000**

**Zonal Lumen Summary**

| Zone    | Lumens | % Fixture |
|---------|--------|-----------|
| 0°-30°  | 570.3  | 22.3      |
| 0°-40°  | 937.7  | 36.7      |
| 0°-60°  | 1682.5 | 65.9      |
| 0°-90°  | 2325.3 | 91.1      |
| 0°-180° | 2552.5 | 100       |

**Coefficients of Utilization**  
Effective floor cavity reflectance 20%

| rc<br>rw | 80% |     |     |     | 70% |     |     |     | 50% |     |     |     | 30% |     |    |    | 10% |    |    |    | 0  |    |  |  |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|----|----|----|----|----|--|--|
|          | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 60  | 10  | 50 | 30 | 10  | 50 | 30 | 10 | 0  | 0  |  |  |
| 0        | 117 | 117 | 117 | 117 | 113 | 113 | 113 | 113 | 106 | 106 | 106 | 100 | 100 | 100 | 94 | 94 | 94  | 91 | 91 | 91 | 91 | 91 |  |  |
| 1        | 105 | 99  | 95  | 90  | 101 | 96  | 92  | 88  | 90  | 87  | 83  | 85  | 82  | 79  | 80 | 77 | 75  | 73 | 73 | 73 | 73 | 73 |  |  |
| 2        | 95  | 86  | 78  | 72  | 91  | 83  | 76  | 71  | 78  | 72  | 68  | 73  | 69  | 65  | 69 | 65 | 62  | 59 | 59 | 59 | 59 | 59 |  |  |
| 3        | 86  | 75  | 66  | 59  | 83  | 73  | 65  | 58  | 68  | 62  | 56  | 64  | 59  | 54  | 61 | 56 | 52  | 49 | 49 | 49 | 49 | 49 |  |  |
| 4        | 79  | 66  | 57  | 50  | 76  | 64  | 56  | 49  | 61  | 53  | 47  | 57  | 51  | 46  | 54 | 49 | 44  | 42 | 42 | 42 | 42 | 42 |  |  |
| 5        | 72  | 59  | 50  | 43  | 69  | 57  | 49  | 42  | 54  | 47  | 41  | 51  | 45  | 40  | 48 | 43 | 38  | 36 | 36 | 36 | 36 | 36 |  |  |
| 6        | 67  | 53  | 44  | 37  | 64  | 51  | 43  | 37  | 49  | 41  | 36  | 46  | 40  | 35  | 44 | 38 | 34  | 31 | 31 | 31 | 31 | 31 |  |  |
| 7        | 62  | 48  | 39  | 33  | 59  | 47  | 38  | 32  | 44  | 37  | 31  | 42  | 35  | 31  | 40 | 34 | 30  | 28 | 28 | 28 | 28 | 28 |  |  |
| 8        | 57  | 44  | 35  | 29  | 55  | 43  | 34  | 29  | 40  | 33  | 28  | 39  | 32  | 27  | 37 | 31 | 27  | 24 | 24 | 24 | 24 | 24 |  |  |
| 9        | 54  | 40  | 32  | 26  | 52  | 39  | 31  | 26  | 37  | 30  | 25  | 35  | 29  | 24  | 34 | 28 | 24  | 22 | 22 | 22 | 22 | 22 |  |  |
| 10       | 50  | 37  | 29  | 23  | 48  | 36  | 28  | 23  | 34  | 27  | 23  | 33  | 27  | 22  | 31 | 26 | 22  | 20 | 20 | 20 | 20 | 20 |  |  |

**Candlepower**

| 0°  | Flux    |
|-----|---------|
| 0°  | 729     |
| 5°  | 726 69  |
| 15° | 704 199 |
| 25° | 656 303 |
| 35° | 587 367 |
| 45° | 501 386 |
| 55° | 401 358 |
| 65° | 296 294 |
| 75° | 200 212 |
| 85° | 124 109 |
| 90° | 94 52   |

# Metalux AP Series

**DESCRIPTION**

FM series is a versatile LED ceiling or wall mount series which can be used in a broad range of residential and commercial applications. This series provides customers with a high quality luminaire utilizing the latest LED, solid state lighting and electronic driver technology for optimal performance and maximized energy efficiency. With a traditional opal white lens, the FM series produces even, uniform light distribution and is an ideal choice for offices, corridors, stairways, bedroom, closet and foyers applications and T8 replacing incandescent, circline or compact fluorescent lamps.

|                    |  |             |
|--------------------|--|-------------|
| <b>Catalog #</b>   |  | <b>Type</b> |
| <b>Project</b>     |  |             |
| <b>Comments</b>    |  | <b>Date</b> |
| <b>Prepared by</b> |  |             |

**SPECIFICATION FEATURES**

**Construction**

Housing consists of die formed steel which is post painted to offer the ideal aesthetics. Diffuser are white opal injection molded acrylic blends offering the ideal light distribution. These lens are offered in three different sizes: 11, 15, 19 inch models. Lens are attached with easy mount tabs.

**Controls**

Equipped standard with non-dimmable electronic drivers which provides extensive energy savings over existing fluorescent lamp options. All drivers are suitable for 120V applications. Dimmable to 10% compatible with most Triac dimmers.

**Electrical**

Long-Life LED system coupled with electrical driver to deliver optimal performance. LEDs are 4000K with a typical CRI 80. Projected life is 50,000 hours at 70% lumen output.

**Shielding**

Specially developed LED lens blend allows this product series to offer optimal light out and providing smooth even illumination with no pixilation. Lenses are designed from smooth opal white acrylic and provide 360° uniform light distribution. Lens is easily removed for installation and maintenance.

**Installation**

Fixture may be surface (wall or ceiling) mounted.

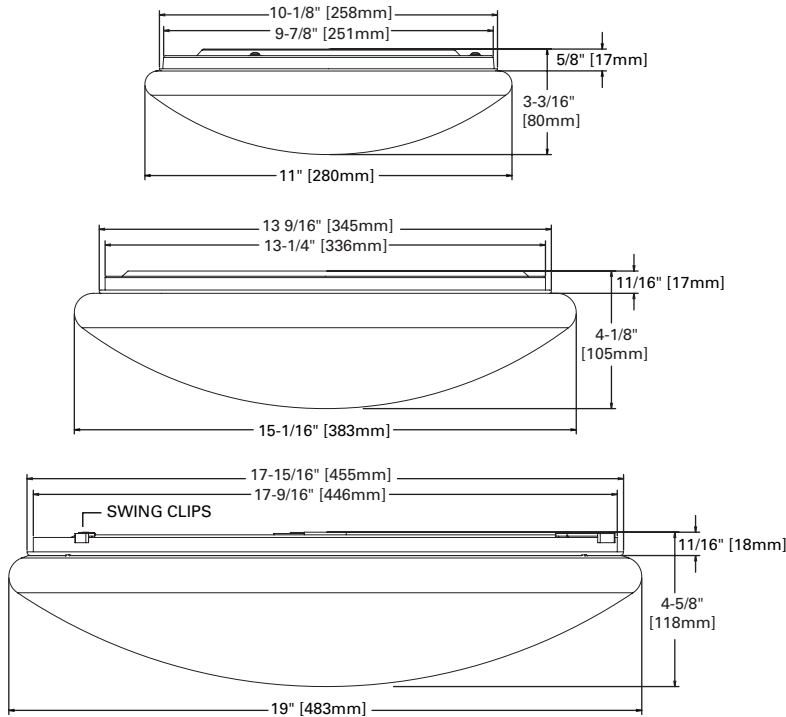
**Compliance**

UL/CUL Listed. Energy Star Qualified. Lighting Facts Approved. Suitable for Damp locations. Models less than 4 inches are ADA Compliant.



**FM LED Flushmount**

Wall or Ceiling Mount



**ORDERING INFORMATION**

| Catalog No. | UPC          | I2of5          |
|-------------|--------------|----------------|
| FM11WR40R   | 080083770083 | 10080083770080 |
| FM15WR40R   | 080083760466 | 10080083760463 |
| FM19WR40R   | 080083760473 | 10080083760470 |

**WATTAGE**

| Size | 4000K | Watts |
|------|-------|-------|
| 11"  | 1100  | 13.5  |
| 15"  | 1700  | 21.3  |
| 19"  | 2450  | 30.5  |

**SHIPPING DATA**

| Catalog No. | Individual Wt. | Master Pack |
|-------------|----------------|-------------|
| FM11        | 1.8 lbs.       | 4           |
| FM15        | 3.5 lbs.       | 4           |
| FM19        | 5.55 lbs.      | 2           |



4000K LIGHTING FACTS

### PRODUCT SPECIFICATIONS

**Lumens (Light Output)** 1100

**Watts** 13.3

**Lumens Per Watt (Efficacy)** 83

**Color Accuracy (CRI)** 80

**Light Color (CCT)** 4000K  
Correlated Color Temperature (CCT)

**FM11WR40**

### PRODUCT SPECIFICATIONS

**Lumens (Light Output)** 1700

**Watts** 20.2

**Lumens Per Watt (Efficacy)** 83

**Color Accuracy (CRI)** 80

**Light Color (CCT)** 4000K  
Correlated Color Temperature (CCT)

**FM15WR40**

### PRODUCT SPECIFICATIONS

**Lumens (Light Output)** 2450

**Watts** 30.5

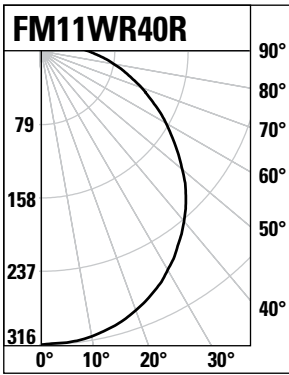
**Lumens Per Watt (Efficacy)** 80

**Color Accuracy (CRI)** 80

**Light Color (CCT)** 4000K  
Correlated Color Temperature (CCT)

**FM19WR40**

PHOTOMETRICS - 4000K



**Description**  
11" Circular LED flush mount luminaire

**CCT = 4000K**  
**Lumens = 1162.7**  
**Input Watts = 13.3**  
**Efficacy = 87.4**  
**Test Report = P27996**

**Zonal Lumen Summary**

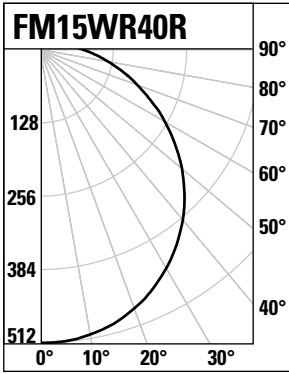
| Zone    | Lumens | % Fixture |
|---------|--------|-----------|
| 0°-30°  | 248.2  | 21.3      |
| 0°-40°  | 408.7  | 35.2      |
| 0°-60°  | 736    | 63.3      |
| 0°-90°  | 1041.5 | 89.6      |
| 0°-180° | 1162.7 | 100       |

**Coefficients of Utilization**  
Effective floor cavity reflectance 20%

| rc<br>rw | 80% |     |     |     | 70% |     |     |     | 50% |     |     |    | 30% |    |    |    | 10% |    |    |    | 0 |  |  |  |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|----|----|----|-----|----|----|----|---|--|--|--|
|          | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50 | 60  | 10 | 50 | 30 | 10  | 50 | 30 | 10 | 0 |  |  |  |
| RCR      |     |     |     |     |     |     |     |     |     |     |     |    |     |    |    |    |     |    |    |    |   |  |  |  |
| 0        | 117 | 117 | 117 | 117 | 113 | 113 | 113 | 113 | 105 | 105 | 105 | 99 | 99  | 99 | 92 | 92 | 92  | 90 |    |    |   |  |  |  |
| 1        | 104 | 99  | 94  | 89  | 100 | 95  | 91  | 87  | 89  | 85  | 82  | 83 | 80  | 77 | 78 | 76 | 73  | 70 |    |    |   |  |  |  |
| 2        | 94  | 85  | 77  | 71  | 90  | 82  | 75  | 69  | 77  | 71  | 66  | 72 | 67  | 63 | 67 | 63 | 60  | 57 |    |    |   |  |  |  |
| 3        | 85  | 74  | 65  | 58  | 82  | 72  | 64  | 57  | 67  | 60  | 55  | 63 | 57  | 52 | 59 | 54 | 50  | 47 |    |    |   |  |  |  |
| 4        | 78  | 65  | 56  | 49  | 75  | 63  | 54  | 48  | 59  | 52  | 46  | 56 | 49  | 44 | 52 | 47 | 43  | 40 |    |    |   |  |  |  |
| 5        | 71  | 58  | 49  | 42  | 69  | 56  | 48  | 41  | 53  | 45  | 40  | 50 | 43  | 38 | 47 | 41 | 37  | 34 |    |    |   |  |  |  |
| 6        | 66  | 52  | 43  | 36  | 63  | 51  | 42  | 36  | 48  | 40  | 35  | 45 | 38  | 33 | 43 | 37 | 32  | 30 |    |    |   |  |  |  |
| 7        | 61  | 47  | 38  | 32  | 59  | 46  | 37  | 31  | 43  | 36  | 30  | 41 | 34  | 30 | 39 | 33 | 29  | 26 |    |    |   |  |  |  |
| 8        | 57  | 43  | 34  | 28  | 55  | 42  | 34  | 28  | 40  | 32  | 27  | 38 | 31  | 26 | 36 | 30 | 26  | 23 |    |    |   |  |  |  |
| 9        | 53  | 39  | 31  | 25  | 51  | 38  | 30  | 25  | 36  | 29  | 24  | 35 | 28  | 24 | 33 | 27 | 23  | 21 |    |    |   |  |  |  |
| 10       | 50  | 36  | 28  | 23  | 48  | 35  | 28  | 23  | 34  | 27  | 22  | 32 | 26  | 21 | 30 | 25 | 21  | 19 |    |    |   |  |  |  |

**Candlepower**

| 0°  | Flux    |
|-----|---------|
| 0°  | 316     |
| 5°  | 315 30  |
| 15° | 306 86  |
| 25° | 286 132 |
| 35° | 256 160 |
| 45° | 220 170 |
| 55° | 176 158 |
| 65° | 134 133 |
| 75° | 96 102  |
| 85° | 64 56   |
| 90° | 51 28   |



**Description**  
15" Circular LED flush mount luminaire

**CCT = 4000K**  
**Lumens = 1880.8**  
**Input Watts = 20.3**  
**Efficacy = 92.7**  
**Test Report = P27998**

**Zonal Lumen Summary**

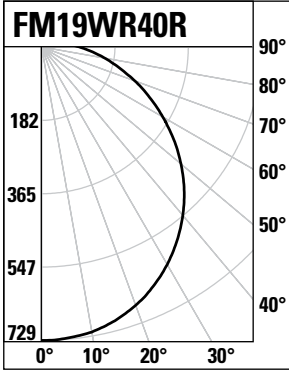
| Zone    | Lumens | % Fixture |
|---------|--------|-----------|
| 0°-30°  | 401.9  | 21.4      |
| 0°-40°  | 662.2  | 35.2      |
| 0°-60°  | 1195.4 | 63.6      |
| 0°-90°  | 1673.9 | 89        |
| 0°-180° | 1880.8 | 100       |

**Coefficients of Utilization**  
Effective floor cavity reflectance 20%

| rc<br>rw | 80% |     |     |     | 70% |     |     |     | 50% |     |     |    | 30% |    |    |    | 10% |    |    |    | 0 |  |  |  |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|----|----|----|-----|----|----|----|---|--|--|--|
|          | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50 | 60  | 10 | 50 | 30 | 10  | 50 | 30 | 10 | 0 |  |  |  |
| RCR      |     |     |     |     |     |     |     |     |     |     |     |    |     |    |    |    |     |    |    |    |   |  |  |  |
| 0        | 116 | 116 | 116 | 116 | 112 | 112 | 112 | 112 | 105 | 105 | 105 | 98 | 98  | 98 | 92 | 92 | 92  | 89 |    |    |   |  |  |  |
| 1        | 104 | 99  | 94  | 89  | 100 | 95  | 91  | 87  | 89  | 85  | 82  | 83 | 80  | 78 | 78 | 76 | 73  | 70 |    |    |   |  |  |  |
| 2        | 94  | 85  | 78  | 71  | 90  | 82  | 75  | 70  | 77  | 71  | 66  | 72 | 67  | 63 | 67 | 64 | 60  | 57 |    |    |   |  |  |  |
| 3        | 85  | 74  | 66  | 59  | 82  | 72  | 64  | 57  | 67  | 60  | 55  | 63 | 57  | 53 | 59 | 54 | 50  | 48 |    |    |   |  |  |  |
| 4        | 78  | 65  | 56  | 49  | 75  | 63  | 55  | 48  | 59  | 52  | 46  | 56 | 50  | 45 | 52 | 47 | 43  | 40 |    |    |   |  |  |  |
| 5        | 72  | 58  | 49  | 42  | 69  | 56  | 48  | 41  | 53  | 46  | 40  | 50 | 43  | 38 | 47 | 41 | 37  | 35 |    |    |   |  |  |  |
| 6        | 66  | 52  | 43  | 37  | 63  | 51  | 42  | 36  | 48  | 40  | 35  | 45 | 39  | 34 | 43 | 37 | 32  | 30 |    |    |   |  |  |  |
| 7        | 61  | 47  | 38  | 32  | 59  | 46  | 38  | 32  | 43  | 36  | 31  | 41 | 34  | 30 | 39 | 33 | 29  | 26 |    |    |   |  |  |  |
| 8        | 57  | 43  | 34  | 28  | 55  | 42  | 34  | 28  | 40  | 32  | 27  | 38 | 31  | 26 | 36 | 30 | 26  | 24 |    |    |   |  |  |  |
| 9        | 53  | 39  | 31  | 25  | 51  | 38  | 31  | 25  | 36  | 29  | 24  | 35 | 28  | 24 | 33 | 27 | 23  | 21 |    |    |   |  |  |  |
| 10       | 50  | 36  | 28  | 23  | 48  | 35  | 28  | 23  | 34  | 27  | 22  | 32 | 26  | 21 | 30 | 25 | 21  | 19 |    |    |   |  |  |  |

**Candlepower**

| 0°  | Flux    |
|-----|---------|
| 0°  | 512     |
| 5°  | 511 49  |
| 15° | 496 140 |
| 25° | 463 213 |
| 35° | 416 260 |
| 45° | 357 275 |
| 55° | 288 258 |
| 65° | 215 214 |
| 75° | 150 159 |
| 85° | 96 84   |
| 90° | 75 41   |



**Description**  
19" Circular LED flush mount luminaire

**CCT = 4000K**  
**Lumens = 2552.5**  
**Input Watts = 30.6**  
**Efficacy = 83.4**  
**Test Report = P28000**

**Zonal Lumen Summary**

| Zone    | Lumens | % Fixture |
|---------|--------|-----------|
| 0°-30°  | 570.3  | 22.3      |
| 0°-40°  | 937.7  | 36.7      |
| 0°-60°  | 1682.5 | 65.9      |
| 0°-90°  | 2325.3 | 91.1      |
| 0°-180° | 2552.5 | 100       |

**Coefficients of Utilization**  
Effective floor cavity reflectance 20%

| rc<br>rw | 80% |     |     |     | 70% |     |     |     | 50% |     |     |     | 30% |     |    |    | 10% |    |    |    | 0 |  |  |  |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|----|----|----|---|--|--|--|
|          | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 60  | 10  | 50 | 30 | 10  | 50 | 30 | 10 | 0 |  |  |  |
| RCR      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |     |    |    |    |   |  |  |  |
| 0        | 117 | 117 | 117 | 117 | 113 | 113 | 113 | 113 | 106 | 106 | 106 | 100 | 100 | 100 | 94 | 94 | 94  | 91 |    |    |   |  |  |  |
| 1        | 105 | 99  | 95  | 90  | 101 | 96  | 92  | 88  | 90  | 87  | 83  | 85  | 82  | 79  | 80 | 77 | 75  | 73 |    |    |   |  |  |  |
| 2        | 95  | 86  | 78  | 72  | 91  | 83  | 76  | 71  | 78  | 72  | 68  | 73  | 69  | 65  | 69 | 65 | 62  | 59 |    |    |   |  |  |  |
| 3        | 86  | 75  | 66  | 59  | 83  | 73  | 65  | 58  | 68  | 62  | 56  | 64  | 59  | 54  | 61 | 56 | 52  | 49 |    |    |   |  |  |  |
| 4        | 79  | 66  | 57  | 50  | 76  | 64  | 56  | 49  | 61  | 53  | 47  | 57  | 51  | 46  | 54 | 49 | 44  | 42 |    |    |   |  |  |  |
| 5        | 72  | 59  | 50  | 43  | 69  | 57  | 49  | 42  | 54  | 47  | 41  | 51  | 45  | 40  | 48 | 43 | 38  | 36 |    |    |   |  |  |  |
| 6        | 67  | 53  | 44  | 37  | 64  | 51  | 43  | 37  | 49  | 41  | 36  | 46  | 40  | 35  | 44 | 38 | 34  | 31 |    |    |   |  |  |  |
| 7        | 62  | 48  | 39  | 33  | 59  | 47  | 38  | 32  | 44  | 37  | 31  | 42  | 35  | 31  | 40 | 34 | 30  | 28 |    |    |   |  |  |  |
| 8        | 57  | 44  | 35  | 29  | 55  | 43  | 34  | 29  | 40  | 33  | 28  | 39  | 32  | 27  | 37 | 31 | 27  | 24 |    |    |   |  |  |  |
| 9        | 54  | 40  | 32  | 26  | 52  | 39  | 31  | 26  | 37  | 30  | 25  | 35  | 29  | 24  | 34 | 28 | 24  | 22 |    |    |   |  |  |  |
| 10       | 50  | 37  | 29  | 23  | 48  | 36  | 28  | 23  | 34  | 27  | 23  | 33  | 27  | 22  | 31 | 26 | 22  | 20 |    |    |   |  |  |  |

**Candlepower**

| 0°  | Flux    |
|-----|---------|
| 0°  | 729     |
| 5°  | 726 69  |
| 15° | 704 199 |
| 25° | 656 303 |
| 35° | 587 367 |
| 45° | 501 386 |
| 55° | 401 358 |
| 65° | 296 294 |
| 75° | 200 212 |
| 85° | 124 109 |
| 90° | 94 52   |