prescolite

# MD8LED

8" HIGH LUMEN
DOWNLIGHT AND WALL WASH
120 –277V, 0-10V DIMMING



DATE: TYPE:

FIRM NAME:

PROJECT:

Architektūr

Variable Intensity Technology

Ceiling Cutout: 8¼"
Maximum Ceiling Thickness 1¼"
Consult factory for ceiling thickness to 2"
For conversion to millimeters, multiply inches by 25.4
Not to Scale

**APPLICATIONS:**
Architektur MD8LED Series is a 8" specification grade high output LED downlight capable of delivering over 16,500 lumens and designed for ceiling heights from 20 to 60 feet. Combining energy savings, long life, low maintenance cost & controllability, it is an excellent alternative to metal halide (up to 250 watts) and quartz (up to 500 watts) fixtures. ENERGY STAR® qualified. Rated for a minimum of 50,000 hours life with 70% Lumen maintenance up to 40°C (104°F) when free airflow is available around the fixture. Rated for a minimum of 60,000 hours life with 85% lumen maintenance up to 30°C (86°F) when free airflow is available around the fixture and no lens is present.

**HOUSING:**
18 gauge corrosion protected steel platform designed for accessibility. Pre-wired J-box with snap-on covers. Separate power supply module serviceable and removable from above or below the ceiling. Power supply module is connected to the LED light engine using a locking plug-in connector. Approved for 8 (4 in/4 out) No. 12 AWG conductors rated for 90°C through wiring. Variable light engine mounts allow reflectors to be interchanged in the field.

**REFLECTOR:**
High purity spun aluminum self-flanged reflector with iridescence suppressed Alzak anodized finish. Available in several finishes in a variety of anodized colors as well as painted trim options. Offered in 35°, 45°, and 55° optical distributions as well as lens options for wet location applications. A wall wash (WW) option is also available. Easy to install yoke mounting system with safety tether included.

**LED LIGHT ENGINE:**
The MD8LED uses up to 480 individual Nichia LEDs specifically mixed to provide a minimum of 80 CRI with 3 SDCM color consistency. The LED light engine is available in multiple lumen packages and color temperatures to accommodate any design requirement. The use of individual LEDs to achieve these lumen packages enables optimal thermal management while creating a visually pleasing diffuse appearance in the ceiling. The LED light engine is coupled to a passive heat sink utilizing innovative heat pipe technology, and is protected with a self resetting thermal protector.

**LED DRIVER:**
Each string of 120 LEDs is powered by a single 40 watt, constant current LED driver (up for 4 drivers per fixture). The driver is UL8750 and Class 2 compliant. Lutron Series A drivers also available

**DIMMING:**
Standard 0-10v dimming provides flicker-free dimming to 10%. For sizing of the circuit control, the dimming circuit may require up to 1.2mA of sink current. See list of compatible dimmers below in the Dimming Compatibility Table.

Lutron EcoSystem, or 0-10V dimming available to 1%, and DMX with RDM (remote device management) dimming to less than 0.1%.

**INSTALLATION:**
Universal adjustable mounting brackets accommodate 1.5" or ¾" lathing channel or ½" EMT (by others) or Prescolite B24 or B6 bar hangers.

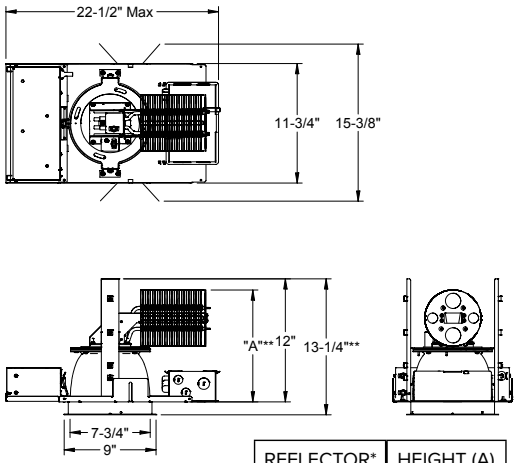
**CERTIFICATIONS:**
CSA certified to US and Canadian safety standards. Suitable for damp locations, or wet locations with a lens. Non-IC rated and approved for 90ºC, 4IN/4OUT, through branch wiring. Product is marked spacing and must be installed with the following minimum spacings:

Center to Center of adjacent luminaires : 36"

Minimum Overhead Clearance: 19"
(To bottom of metal pan)

Center of Luminaire to Side of Building Member : 18"

**WARRANTY:**
5 Year Warranty.




| REFLECTOR* | HEIGHT (A) |
|---|---|
| 35° | 15" |
| 45° | 11" |
| WW | 10" |

* WITH LENS ASSEMBLY
**Dimension "A" may or may not be limiting vertical dimension depending upon chosen reflector

CATALOG NUMBER: EXAMPLE: MD8LED12L35K8-8MD12LWFL45

Order housing, reflector, and accessories separately

| HOUSING | OUTPUT | LED COLOR TEMP | CRI | VOLTAGE | OPTIONS | | TRIM APERTURE | OUTPUT | BEAM ANGLE | REFLECTOR FINISH | REFLECTOR COLORS | REFLECTOR OPTIONS | | ACCESSORIES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ❑ **MD8LED** 8" High output LED housing | ❑ **4L**[2] 4000 Delivered Lumens<br>❑ **8L**[2] 8000 Delivered Lumens<br>❑ **12L**[2,5] 12000 Delivered Lumens<br>❑ **16L**[2,5] 16000 Delivered Lumens | ❑ **27K** 2700 Kelvin<br>❑ **30K** 3000 Kelvin<br>❑ **35K** 3500 Kelvin<br>❑ **40K** 4000 Kelvin<br>❑ **50K**[3] 5000 Kelvin | ❑ **8** 80+ CRI<br>❑ **9**[3] 90+ CRI | ❑ **Blank** 120V-277V | ❑ **Blank** Standard 0-10V dimming<br>❑ **EDM** Hi-Lume 1% EcoSystem LED Driver<br>❑ **DM1** 0-10V 1% Dimming<br>❑ **DMX** DMX with RDM dimming to <0.1%<br>❑ **LF**[4] _____ Variable Intensity Lighting Lumen Factor | – | ❑ **8MD** 8" Alzak Reflector | ❑ **4L**[2] Suitable for 4000 Lumen Housings<br>❑ **8L**[2] Suitable for 8000 Lumen Housings<br>❑ **12L**[2,5] Suitable for 12000 Lumen Housings<br>❑ **16L**[2,5] Suitable for 16000 Lumen Housings | ❑ **FL35** Nominal 35 Degree Cutoff<br>❑ **WFL45** Nominal 45 Degree Cutoff<br>❑ **XFL55** Nominal 55 Degree Cutoff<br>❑ **WW**[6,7] Wall Wash | ❑ **Blank** Specular<br>❑ **SS** Semi-Specular<br>❑ **VS** Kurt Versen Softglow®<br>❑ **VSS** Kurt Versen SoftSheen™ | ❑ **Blank** Clear Alzak<br>❑ **CG** Champagne Gold Alzak<br>❑ **BL** Black Alzak<br>❑ **LW** Light Wheat Alzak<br>❑ **PW** Pewter Alzak<br>❑ **BC**[1] Painted Black Cone<br>❑ **WC**[1] Painted White Cone | ❑ **Blank**[7] No Lens<br>❑ **CL**[7] Clear Lens over LEDs (wet location)<br>❑ **SL**[7] Solite Softening Lens over LEDs (wet location)<br>❑ **WT** Painted White Flange<br>❑ **BT** Painted Black Flange | – | ❑ **B24** Set of two(2) 24" bar hangers for T-bar ceilings<br>❑ **B6** Set of two (2) bar hangers for ceiling joist up to 24" centers |

[1]Must specify either WT or BT for painted cone
[2]Housing and reflector output must be consistent
[3]50K not available in 90 CRI
[4] Lumen factor available in 5% increments, from 75% (075) to 110% (110) on the 4L, 8L, 12L or 16L housings. See page 2 for more information
[5]Not available in wall wash (WW)
[6] Available with 4L and 8L only
[7] Satin lens is standard for wall wash (WW)


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# MD8LED

8" HIGH LUMEN
DOWNLIGHT AND WALL WASH
120 –277V, 0-10V DIMMING

| DRIVER DATA | MD8LED4L | MD8LED8L | MD8LED12L | MD8LED16L |
|---|---|---|---|---|
| Input Voltage | 120-277V | 120-277V | 120-277V | 120-277V |
| Input Frequency | 50/60 Hz | 50/60 Hz | 50/60 Hz | 50/60 Hz |
| Input Current | 0.33 (120v) | 0.68 (120v) | 0.98 (120v) | 1.3(120v) |
| | 0.14 (277v) | 0.28 (277v) | 0.42 (277v) | 0.56 (277v) |
| Input Power | 39W | 78W | 117W | 156W |
| Constant Current Output | 950mA | 950mA | 950mA | 950mA |
| Power Factor | ≥0.90 | ≥0.90 | ≥0.90 | ≥0.90 |
| THD | <25% | <20% | <20% | <20% |
| EMI Filtering | FCC 47CFR | FCC 47CFR | FCC 47CFR | FCC 47CFR |
| | Part 15, Class A | Part 15, Class A | Part 15, Class A | Part 15, Class A |
| Operating Temperature | -20ºC to 40ºC* | -20ºC to 40ºC* | -20ºC to 40ºC* | -20ºC to 40ºC* |
| Dimming | 0-10V | 0-10V | 0-10V | 0-10V |

Over-voltage, over-current, short-circuit protected

*See application notes on page 1 for details

**Lumen Multiplier Table**

Photometrics for the MD8LED are published below at a nominal 3500 Kelvin temperature. This table may be used to approximate the lumen values at different Kelvin temperatures. Power consumption would stay the same.

| | |
|---|---|
| 5000 Kelvin | 1.14 |
| 4000 Kelvin | 1.03 |
| 3500 Kelvin | 1.00 |
| 3000 Kelvin | 1.00 |
| 2700 Kelvin | 0.91 |
| Solite Lens | 0.87 |
| 90 CRI | 0.80 |

Variable Intensity Technology

**VARIABLE INTENSITY LIGHTING**
**LUMEN FACTOR (LF)**

The Megalum offers the ability to deliver precisely the amount of light you need for any downlighting application - from less than 2000 lumens to nearly 17500 lumens! The standard Megalum 4L, 8L, 12L and 16L fixtures can all be tuned from 75% to 110% of their published lumen outputs. Simply select your light engine, and in the housing options select a lumen factor (LF___).

In most lighting calculation software, the "LF" can be used in the ballast factor input to adjust the calculated light levels.

| Lumen Factor | 075 | 080 | 085 | 090 | 095 | 100 | 105 | 110 |
|---|---|---|---|---|---|---|---|---|
| Watt Factor | 0.72 | 0.78 | 0.83 | 0.89 | 0.94 | 1 | 1.06 | 1.13 |

It is also important to note that the input power also changes in the same direction, but not in proportion to the lumens. The 'watt factor' corresponding to the appropriate 'lumen factor' can be used to calculate the input power.

Example:

Desired: 13000 Lumens using a WFL45 open reflector

MC8LED 12L WFL45 Open fixture provides 12095 delivered lumens and requires 117.5 input watts (chart, page 3)

Choose: LF110. 12095 lumens x 1.1 = **13304 Delivered Lumens**

Calculated Watts: The corresponding Watt Factor to LF110 = 1.13

117.5 watts x 1.13 = **132.8 input watts**



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## Delivered Lumens

The table below shows the delivered lumens for the various lumen outputs and beam distributions. Use this chart in connection with the lumen factor (LF) capability to deliver any output required.

| Output | Beam | Lens | Delivered Lumens | Input Watts | Lumens Per Watt | Test Number | Full Catalog String |
|---|---|---|---|---|---|---|---|
| 16L | XFL55 | Open | 16132 | 156.5 | 103.1 | IES | MD8LED16L35K-8MD16LXFL55 |
| 16L | WFL45 | Open | 15920 | 156.1 | 102.0 | IES | MD8LED16L35K-8MD16LWFL45 |
| 16L | FL35 | Open | 14833 | 156.4 | 94.8 | IES | MD8LED16L35K-8MD16LFL35 |
| 16L | XFL55 | SL | 14150 | 156.3 | 90.5 | IES | MD8LED16L35K-8MD16LXFL55 SL |
| 16L | WFL45 | SL | 13925 | 156.3 | 89.1 | IES | MD8LED16L35K-8MD16LWFL45 SL |
| 16L | FL35 | SL | 13077 | 156.2 | 83.7 | IES | MD8LED16L35K-8MD16LFL35 SL |
| 12L | XFL55 | Open | 12221 | 117.5 | 104 | IES | MD8LED12L35K-8MD12LXFL55 |
| 12L | WFL45 | Open | 12095 | 117.5 | 102.9 | IES | MD8LED12L35K-8MD12LWFL45 |
| 12L | FL35 | Open | 11253 | 117.5 | 95.8 | IES | MD8LED12L35K-8MD12LFL35 |
| 12L | XFL55 | SL | 10767 | 117.5 | 91.6 | IES | MD8LED12L35K-8MD12LXFL55 SL |
| 12L | WFL45 | SL | 10580 | 117.5 | 90.0 | IES | MD8LED12L35K-8MD12LWFL45 SL |
| 12L | FL35 | SL | 9939 | 117.5 | 84.7 | IES | MD8LED12L35K-8MD12LFL35 SL |
| 8L | XFL55 | Open | 8533 | 78.1 | 109.3 | IES | MD8LED8L35K-8MD8LXFL55 |
| 8L | WFL45 | Open | 8094 | 78.1 | 103.6 | IES | MD8LED8L35K-8MD8LWFL45 |
| 8L | FL35 | Open | 7614 | 78.3 | 97.2 | IES | MD8LED8L35K-8MD8LFL35 |
| 8L | XFL55 | SL | 7129 | 78.2 | 91.3 | IES | MD8LED8L35K-8MD8LXFL55 SL |
| 8L | WFL45 | SL | 7269 | 78.2 | 93.1 | IES | MD8LED8L35K-8MD8LWFL45 SL |
| 8L | FL35 | SL | 6648 | 78.1 | 85 | IES | MD8LED8L35K-8MD8LFL35 SL |
| 4L | XFL55 | Open | 4337 | 38.8 | 111.8 | IES | MD8LED4L35K-8MD4LXFL55 |
| 4L | WFL45 | Open | 4097 | 38.8 | 105.6 | IES | MD8LED4L35K-8MD4LWFL45 |
| 4L | FL35 | Open | 3881 | 38.9 | 99.8 | IES | MD8LED4L35K-8MD4LFL35 |
| 4L | XFL55 | SL | 3794 | 38.8 | 96.6 | IES | MD8LED4L35K-8MD4LXFL55 SL |
| 4L | WFL45 | SL | 3701 | 38.8 | 95.4 | IES | MD8LED4L35K-8MD4LWFL45 SL |
| 4L | FL35 | SL | 3411 | 38.8 | 87.9 | IES | MD8LED4L35K-8MD4LFL35 SL |

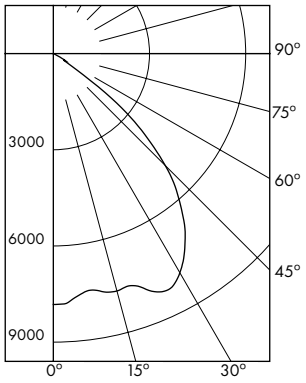


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120 –277V, 0-10V DIMMING

**MD8LED16L35K8-8MD16LXFL55**
LED Light Engine: 3500K, 80+ CRI
System Wattage: 156.5W
Fixture Delivered Lumens: 16132
Fixture Efficacy: 103.1
Spacing Criteria: 1.36




**CANDELA DISTRIBUTION**

| DEG | CANDELA |
|---|---|
| 0 | 7826 |
| 5 | 7645 |
| 15 | 7667 |
| 25 | 8181 |
| 35 | 7162 |
| 45 | 4939 |
| 55 | 910 |
| 65 | 53 |
| 75 | 18 |
| 85 | 4 |
| 90 | 0 |

**ZONAL LUMEN SUMMARY**

| ZONE | LUMENS | %FIXT |
|---|---|---|
| 0-40 | 11062 | 68.6 |
| 0-60 | 15985 | 99.1 |
| 0-90 | 16132 | 100.0 |
| 0-180 | 16132 | 100.0 |

**LUMINANCE DATA IN CANDELA/SQ. METER**

| Angle in Vertical | Average - 0º |
|---|---|
| 45° | 215386 |
| 55° | 48923 |
| 65° | 3867 |
| 75° | 2145 |
| 85° | 1415 |

**COEFFICIENTS OF UTILIZATION** Zonal Cavity Method

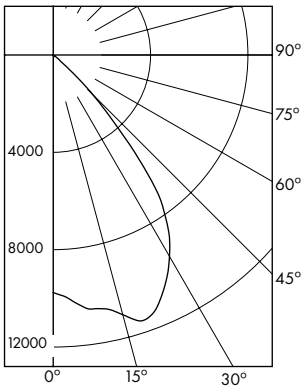
| Room Cavity Ratio | % Effective Ceiling Cavity Reflectance: 80% | | | | 70% | | | | 50% | | | 30% | | | 10% | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 20% Effective Floor Cavity Reflectance | | | | | | | | | | | | | | | | |
| | % Wall Reflectance | | | | | | | | | | | | | | | | |
| | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| 1 | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 102 | 103 | 100 | 98 | 99 | 97 | 95 | 95 | 94 | 93 |
| 2 | 105 | 99 | 94 | 90 | 103 | 97 | 93 | 89 | 94 | 90 | 87 | 91 | 88 | 85 | 88 | 85 | 83 |
| 3 | 98 | 90 | 84 | 79 | 96 | 88 | 83 | 78 | 86 | 81 | 77 | 83 | 79 | 75 | 81 | 77 | 74 |
| 4 | 91 | 82 | 75 | 69 | 89 | 80 | 74 | 69 | 78 | 72 | 68 | 76 | 71 | 67 | 74 | 70 | 66 |
| 5 | 85 | 74 | 67 | 62 | 83 | 73 | 66 | 61 | 71 | 65 | 61 | 70 | 64 | 60 | 68 | 63 | 60 |
| 6 | 79 | 68 | 60 | 55 | 77 | 67 | 60 | 55 | 65 | 59 | 54 | 64 | 58 | 54 | 62 | 57 | 54 |
| 7 | 74 | 62 | 55 | 49 | 72 | 61 | 54 | 49 | 60 | 54 | 49 | 59 | 53 | 49 | 57 | 52 | 48 |
| 8 | 69 | 57 | 50 | 45 | 67 | 57 | 49 | 45 | 55 | 49 | 44 | 54 | 48 | 44 | 53 | 48 | 44 |
| 9 | 65 | 53 | 45 | 41 | 63 | 52 | 45 | 40 | 51 | 45 | 40 | 50 | 44 | 40 | 49 | 44 | 40 |
| 10 | 61 | 49 | 42 | 37 | 59 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 46 | 40 | 37 |

**MD8LED16L35K8 8MD16LXFL55** Test No. 17.00143

Test No. 17.00143
Tested at 25ºC Ambient in accordance to IESNA LM-79-2008

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**MD8LED16L35K8-8MD16LWFL45**
LED Light Engine: 3500K, 80+ CRI
System Wattage: 156.1W
Fixture Delivered Lumens: 15920
Fixture Efficacy: 102.0
Spacing Criteria: 1.18




**CANDELA DISTRIBUTION**

| DEG | CANDELA |
|---|---|
| 0 | 9759 |
| 5 | 10205 |
| 15 | 11049 |
| 25 | 10699 |
| 35 | 7988 |
| 45 | 2298 |
| 55 | 132 |
| 65 | 41 |
| 75 | 16 |
| 85 | 3 |
| 90 | 0 |

**ZONAL LUMEN SUMMARY**

| ZONE | LUMENS | %FIXT |
|---|---|---|
| 0-40 | 13876 | 87.2 |
| 0-60 | 15857 | 99.6 |
| 0-90 | 15920 | 100.0 |
| 0-180 | 15920 | 100.0 |

**LUMINANCE DATA IN CANDELA/SQ. METER**

| Angle in Vertical | Average - 0º |
|---|---|
| 45° | 86454 |
| 55° | 5782 |
| 65° | 2230 |
| 75° | 1196 |
| 85° | 377 |

**COEFFICIENTS OF UTILIZATION** Zonal Cavity Method

| Room Cavity Ratio | % Effective Ceiling Cavity Reflectance: 80% | | | | 70% | | | | 50% | | | 30% | | | 10% | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 20% Effective Floor Cavity Reflectance | | | | | | | | | | | | | | | | |
| | % Wall Reflectance | | | | | | | | | | | | | | | | |
| | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| 1 | 113 | 110 | 107 | 105 | 111 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 99 | 97 | 97 | 95 | 94 |
| 2 | 107 | 101 | 97 | 93 | 104 | 100 | 96 | 92 | 96 | 93 | 90 | 93 | 91 | 88 | 91 | 88 | 86 |
| 3 | 101 | 94 | 88 | 84 | 99 | 92 | 87 | 83 | 90 | 85 | 82 | 87 | 83 | 80 | 85 | 82 | 79 |
| 4 | 95 | 86 | 80 | 76 | 93 | 85 | 80 | 75 | 83 | 78 | 74 | 81 | 77 | 74 | 79 | 76 | 73 |
| 5 | 89 | 80 | 74 | 69 | 88 | 79 | 73 | 69 | 77 | 72 | 68 | 75 | 71 | 67 | 74 | 70 | 67 |
| 6 | 84 | 74 | 68 | 63 | 82 | 73 | 67 | 63 | 72 | 66 | 62 | 70 | 65 | 62 | 69 | 65 | 61 |
| 7 | 79 | 69 | 62 | 58 | 78 | 68 | 62 | 57 | 67 | 61 | 57 | 66 | 61 | 57 | 64 | 60 | 56 |
| 8 | 75 | 64 | 58 | 53 | 73 | 64 | 57 | 53 | 62 | 57 | 53 | 61 | 56 | 52 | 60 | 56 | 52 |
| 9 | 70 | 6 | 53 | 49 | 69 | 59 | 53 | 49 | 58 | 53 | 49 | 57 | 52 | 48 | 56 | 52 | 48 |
| 10 | 67 | 56 | 50 | 45 | 66 | 56 | 49 | 45 | 55 | 49 | 45 | 54 | 49 | 45 | 53 | 48 | 45 |

**MD8LED16L35K8 8MD16LWFL45** Test No. 17.00159

Test No. 17.00159
Tested at 25ºC Ambient in accordance to IESNA LM-79-2008

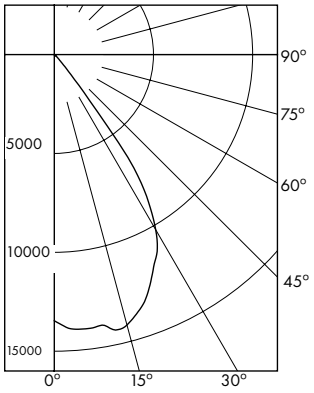


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8" HIGH LUMEN
DOWNLIGHT AND WALL WASH
120 –277V, 0-10V DIMMING

**MD8LED16L35K8-8MD16LFL35**
LED Light Engine: 3500K, 80+ CRI
System Wattage: 156.4W
Fixture Delivered Lumens: 14833
Fixture Efficacy: 94.8
Spacing Criteria: 1.01




**CANDELA DISTRIBUTION**

| DEG | CANDELA |
|---|---|
| 0 | 13456 |
| 5 | 13940 |
| 15 | 14159 |
| 25 | 11850 |
| 35 | 7003 |
| 45 | 283 |
| 55 | 65 |
| 65 | 21 |
| 75 | 8 |
| 85 | 2 |
| 90 | 0 |

Test No. 17.00164
Tested at 25ºC Ambient in accordance to IESNA LM-79-2008

**ZONAL LUMEN SUMMARY**

| ZONE | LUMENS | |
|---|---|---|
| 0-40 | 14436 | 97.3 |
| 0-60 | 14800 | 99.8 |
| 0-90 | 14833 | 100.0 |
| 0-180 | 14833 | 100.0 |

**LUMINANCE DATA IN CANDELA/SQ. METER**

| Angle in Vertical | Average - 0º |
|---|---|
| 45° | 12341 |
| 55° | 3494 |
| 65° | 1532 |
| 75° | 953 |
| 85° | 708 |

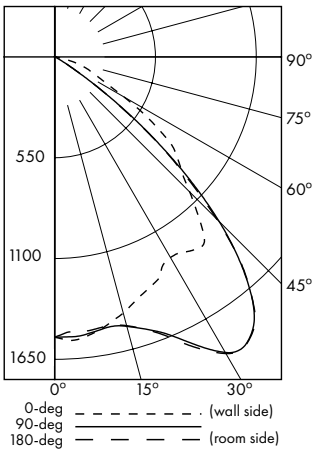
**COEFFICIENTS OF UTILIZATION** Zonal Cavity Method

| Room Cavity Ratio | % Effective Ceiling Cavity Reflectance: 80% | | | | 70% | | | | 50% | | | 30% | | | 10% | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 20% Effective Floor Cavity Reflectance | | | | | | | | | | | | | | | | |
| | % Wall Reflectance | | | | | | | | | | | | | | | | |
| | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| 1 | 114 | 111 | 108 | 106 | 111 | 109 | 106 | 104 | 105 | 103 | 101 | 101 | 100 | 98 | 98 | 96 | 95 |
| 2 | 108 | 103 | 99 | 96 | 106 | 102 | 98 | 95 | 98 | 95 | 93 | 95 | 93 | 91 | 93 | 91 | 89 |
| 3 | 103 | 96 | 91 | 88 | 101 | 95 | 90 | 87 | 92 | 89 | 85 | 90 | 87 | 84 | 88 | 85 | 83 |
| 4 | 98 | 90 | 85 | 80 | 96 | 89 | 84 | 80 | 87 | 82 | 79 | 85 | 81 | 78 | 83 | 80 | 77 |
| 5 | 93 | 84 | 79 | 74 | 91 | 83 | 78 | 74 | 82 | 77 | 73 | 80 | 76 | 73 | 78 | 75 | 72 |
| 6 | 88 | 79 | 73 | 69 | 86 | 78 | 73 | 69 | 77 | 72 | 68 | 75 | 71 | 68 | 74 | 70 | 67 |
| 7 | 83 | 74 | 68 | 64 | 82 | 74 | 68 | 64 | 72 | 67 | 64 | 71 | 67 | 63 | 70 | 66 | 63 |
| 8 | 79 | 70 | 67 | 60 | 78 | 69 | 64 | 60 | 68 | 63 | 59 | 67 | 63 | 59 | 66 | 62 | 59 |
| 9 | 75 | 66 | 60 | 56 | 74 | 65 | 60 | 56 | 64 | 59 | 56 | 64 | 59 | 55 | 63 | 58 | 55 |
| 10 | 72 | 62 | 56 | 52 | 71 | 62 | 56 | 52 | 61 | 56 | 52 | 60 | 55 | 52 | 59 | 55 | 52 |

**MD8LED16L35K8 8MD16LFL35** Test No. 17.00164

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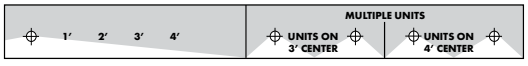
**MD8LED6L35K8 8MD6LWW**
LED Light Engine: 3500K, 80 CRI
System Wattage: 65.1W
Fixture Delivered Lumens: 3792
Fixture Efficacy: 58.2




**CANDELA DISTRIBUTION**

| DEG | 0 | 90 | 180 |
|---|---|---|---|
| 0 | 1529 | 1529 | 1529 |
| 5 | 1545 | 1529 | 1510 |
| 15 | 1447 | 1522 | 1518 |
| 25 | 1338 | 1714 | 1736 |
| 35 | 1292 | 1861 | 1864 |
| 45 | 1043 | 1269 | 1249 |
| 55 | 702 | 284 | 283 |
| 65 | 267 | 17 | 18 |
| 75 | 107 | 7 | 6 |
| 85 | 6 | 2 | 2 |
| 90 | 6 | 4 | 7 |

Test No. 16.02805
Tested at 25ºC Ambient in accordance to IESNA LM-79-2008




**3' DISTANCE FIXTURE MOUNTED OUT FROM WALLS**
**FOOTCANDLE DISTRIBUTION ON WALL SURFACE (Direct Only)**

| DISTANCE FROM CEILING IN FEET | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 15 | 12 | 5 | 1 | 0 | 18 | 16 | 18 | 16 | 9 | 16 |
| 2 | 41 | 32 | 13 | 4 | 1 | 49 | 46 | 49 | 43 | 26 | 43 |
| 3 | 41 | 35 | 24 | 11 | 3 | 64 | 64 | 64 | 48 | 50 | 48 |
| 4 | 31 | 29 | 24 | 16 | 8 | 64 | 65 | 64 | 48 | 50 | 48 |
| 5 | 19 | 19 | 18 | 15 | 10 | 55 | 54 | 55 | 40 | 42 | 40 |
| 6 | 13 | 13 | 13 | 12 | 10 | 45 | 44 | 45 | 34 | 33 | 34 |
| 7 | 9 | 9 | 9 | 8 | 8 | 36 | 37 | 36 | 28 | 27 | 28 |
| 8 | 7 | 7 | 6 | 6 | 6 | 30 | 30 | 30 | 22 | 23 | 22 |
| 9 | 5 | 5 | 5 | 5 | 4 | 24 | 24 | 24 | 18 | 19 | 18 |

**MD8LED6L35K8 8MD6LWW** Test No. 16.02805

**LUMINANCE DATA IN CANDELA/SQ. METER**

| Angle in Vertical | 0 DEG | 90 DEG | 180 DEG |
|---|---|---|---|
| 45° | 45468 | 55320 | 54448 |
| 55° | 37727 | 15263 | 15209 |
| 65° | 19475 | 1240 | 1313 |
| 75° | 12744 | 834 | 715 |
| 85° | 2122 | 707 | 707 |

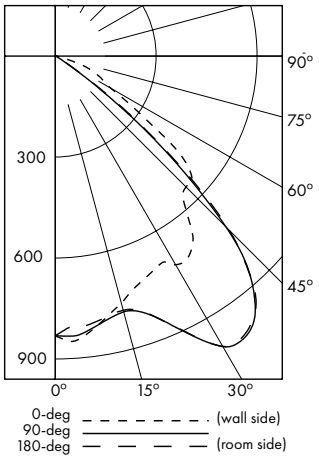


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# MD8LED

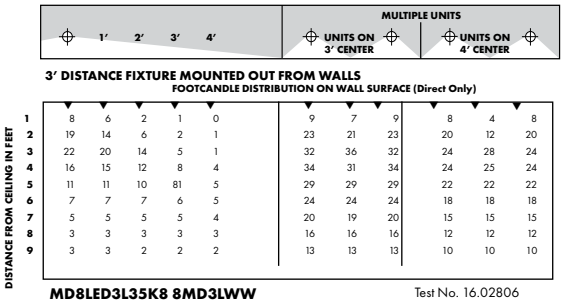
8" HIGH LUMEN
DOWNLIGHT AND WALL WASH
120 –277V, 0-10V DIMMING

**MD8LED3L35K8 8MD3LWW**
LED Light Engine: 3500K, 80 CRI
System Wattage: 32.6W
Fixture Delivered Lumens: 2009
Fixture Efficacy: 61.6




**CANDELA DISTRIBUTION**

| DEG | 0 | 90 | 180 |
|---|---|---|---|
| 0 | 831 | 831 | 831 |
| 5 | 843 | 831 | 810 |
| 15 | 760 | 787 | 782 |
| 25 | 699 | 902 | 900 |
| 35 | 705 | 1003 | 996 |
| 45 | 550 | 718 | 732 |
| 55 | 334 | 110 | 119 |
| 65 | 147 | 8 | 9 |
| 75 | 36 | 3 | 3 |
| 85 | 3 | 1 | 1 |
| 90 | 4 | 1 | 3 |




**MD8LED3L35K8 8MD3LWW** Test No. 16.02806

**LUMINANCE DATA IN CANDELA/SQ. METER**

| Angle in Vertical | 0 DEG | 90 DEG | 180 DEG |
|---|---|---|---|
| 45° | 23976 | 31300 | 31910 |
| 55° | 17950 | 5912 | 6395 |
| 65° | 10722 | 584 | 656 |
| 75° | 4288 | 357 | 357 |
| 85° | 1061 | 354 | 354 |

Test No. 16.02806
Tested at 25ºC Ambient in accordance to IESNA LM-79-2008

**Dimming Compatibility**

For more details and recommended dimmer list, see Dimming Compatibility Information at www.currentlighting.com/prescolite.

**DMX**

See instruction sheet on the Prescolite website for connection & installation information.

Variable Intensity Technology

**Variable Intensity Technology**

Offering the ability to deliver precisely the amount of light you need for any downlighting application- from less than 2000 lumens to more than 16,500 lumens. The standard Megalum 4L, 8L, 12L, and 16L fixtures can all be tuned from 75% to 110% of their published lumen outputs.



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