



ModuLyte downlights provide the optimal balance of field flexibility, performance, and commercial appeal. Light engines are designed to be installed without need of frames making ModuLyte flexible to accommodate new construction, remodel, and retrofit applications. Field selectable correlated color temperature and lumens in addition to field installable optics including wall wash allow ModuLyte to adapt to a variety of applications such as office, institution, healthcare, retail, and public.

Project: _____
 Location: _____
 Cat.No: _____
 Type: _____
 Qty: : _____
 Notes: _____

Complete luminaire = Frame (optional) + Engine/Trim + Accessories (optional)

Engine

example: M6RDL259CSWCDZ10U

Series	Styles	Lumens	CRI / CCT	Beam	Reflector	Flange	Dimming	Voltage	Options
			9CS				Z10		
M4R 4" Round ¹ M6R 6" Round ² M8R 8" Round ²	DL Downlight LW Lensed Wall Wash ³	10 500lm, 750lm, 1000lm 25 1500lm, 2000lm, 2500lm 40 3000lm, 3500lm, 4000lm ⁴ 50 4500lm, 5000lm ^{4,5}	9CS 90 CRI with 2700K, 3000K, 3500K, 4000K, 5000K CCTs	M Medium ⁶ W Wide	CL Specular clear CD Comfort clear diffuse WH White BK Black (matte)	- White (matte) B Black (matte) P Polished (matches aperture) - White (matte) B Black (matte)	Z10 0-10V 1%	U Universal 120/277V 3 347V ⁵	- None LC Chicago plenum ⁷ AT Air-tite (factory-installed gasket on trim flange) ⁸ EM6R Emergency battery pack w/ remote test switch ⁹ EM6I Emergency battery pack w/ integral test switch to trim ¹⁰

Accessories

Lensed wall wash optic	New construction frame with 24" telescoping bar hangers	Medium beam diffuser lens	Goof ring White (matte)	Interact Ready System Bridge Accessory
M4RLW 4" round M6RLW 6" round M8RLW 8" round	4RNSR 4" round 6RNSR 6" round 8RNR 8" round	M4MED 4" round M6MED 6" round M8MED 8" round	M4GRW 4" round M6GRW 6" round M8GRW 8" round	SBA System Bridge Accessory (refer to Philips System Bridge Accessory specification sheet for options and details)

- IC rated up to 1500lm.
- IC rated up to 2000lm.
- Integral lensed wall wash optic factory installed.
May also be field installed with M_RLW accessory with DL style light engine/trim.
- The 4000, 4500, and 5000lm flux are marked spacings. Refer to page 7 for details.
- Available only with M6 and M8.
- Medium beam (M) option available only on select Stock Ready configurations.
Consult factory for availability on make-to-order configurations.
- The 347V (3) and LC (Chicago plenum) options not available with EM6R and EM6I emergency options.
- Stock Ready light engines include factory-installed gasket and are AirSeal in compliance with ASTM E283.
All other configurations require air-tite (AT) option to be selected for factory-installed gasket.
- Factory installed Bodine BSL06 6W battery pack for remote mount test switch.
Ceiling mounting plate included. May also be field installed with LCEM6 accessory.
- Factory installed Bodine BSL06 6W battery pack for mounting test switch integrally to trim.

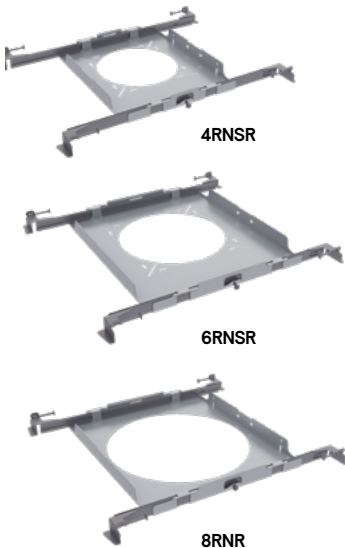
M4R/M6R/M8R ModuLyte 4", 6", & 8"

Round Downlight

Frame (optional)

New Construction Frames (optional):
4RNSR, 6RNSR, 8RNR frames may be used to suit new construction installation as required to best accommodate placement of ceiling holes. All wiring is done on the integral junction box to the light engine.

- All metal construction with galvanized finish for corrosion protection.
- Integrated 24"- 7¼" telescoping bar hangers.
 - Integral nail and joist alignment tab for wood construction. Holes oriented for using screws (by others).
 - Notch for t-bar attachment with integral locking mechanism.



Construction

- Trim includes integral self-flange with tapered profile for leveling to ceiling plane.
- Die cast aluminum heat sink manages thermal load over spectrum for product longevity.
- Stamped and heat treated leaf springs designed for easy installation and maximized retention to the ceiling.
- Air-tite compliant to ASTM E283. Stock Ready configurations are supplied with factory-installed closed cell gaskets on the trim flange. All other configurations require air-tite (AT) option to be selected for factory-installed gasket.

Optics

- Provides a physical 59° cutoff.
- Available in wide (4"/6"-80°, 8"-72°) beam for optimal spacing. Medium (4"/6"-68°, 8"-60°) field installable diffuser lens available.
- Precision spun all high grade aluminum reflectors available in anodized and painted finishes.
- Lens media may be removed in the field tool-free for easy installation of accessory diffusion media.
- Injection molded lensed wall wash optics. Replaces existing lens media holder with the standard product. Factory installed option or field installed accessory.

Quality of light

- Beam shaping diffuser lens to mitigate pixilation, enhance beam quality, and minimize color over angle.
- Color consistency:
3 SDCM typ. @ 2700K & 5000K CCT
- Accurender 90 CRI minimum.

Light Engine

Quick disconnect between the driver and light engine provides the following advantages:

- Junction box may be field wired in advance to better accommodate construction schedules.
- Light engine/trim may be installed at a later stage to protect the trim.
- Rated for direct contact with insulation (IC) - M4RDL to 1500lm, M6RDL & M8RDL to 2000lm
- Easy replacement of electronics at end of life with minimal wasted material and labor required.
- Lumen Maintenance: L80 at 72,000 hours.

Junction box

- Galvanized metal with captured cover that can be opened tool-free
- Three (3) 3/4" knock outs on the end for mains/dimming connections
- Two (2) 3/4" knock outs on the side, one allows for connection to emergency driver (field accessory or factory option)
- Mounting clips allow for direct mount to joist, or can be field modified to suspended t-bar (fasteners by others)
- Plenum rated CMP cable for secondary low voltage wiring between driver and engine. Integral quick disconnect allows for the engine and driver to be separated in the field for ease of installation and maintenance.
- Easy access switches allow for field selection of CCT (2700K-3000K-3500K-4000K-5000K) and lumens (refer to product selection matrix).

Max ceiling thickness is 1.25" (31 mm).
Ceiling cutout - see page 7

Driver

0-10v 1% (Z10) dimming:

- 120-277V, 50/60Hz 0-10v dimming to 1%
- 347V option, 60Hz 0-10v dimming to 1%
- Tested in compliance with NEMA77-2017 for temporal lighting artifacts (flicker)
- FCC CFR Title47 Part 15 Class A

Recommended 0-10v dimmers:

- Eaton slide SF10
- Eaton Decorator DF10
- Lutron® Diva DDTV
- Lutron® Nova T NTFTV
- Leviton® ILLumaTech IP710

Emergency

- Factory installed emergency options include Bodine BSL06 6W battery pack w/ self-test/self-diagnostic mounted on separate junction box for mains/secondary wire splicing. Conduit connector provided for attachment to secondary side of AC driver box for splicing to cool LED circuit.
 - **EM6R** - remote mount test switch, provided with 4 3/8" x 2 3/4" (109x69mm) ceiling cover plate.
 - **EM6I** - reflector w/ hole to field assemble test switch integrally.

Labels and Listings

- cULus listed for wet locations with covered ceilings
- Air-tight compliant to ASTM E-283
- CCEA (frames with *LC suffix)
- RoHS certified

Warranty



5 year limited warranty

Visit [Signify.com/warranties](https://www.signify.com/warranties) for more information on Signify's standard 5-year limited warranty on complete luminaire systems.

M4R/M6R/M8R ModuLyte 4", 6", & 8"

Round Downlight

Accessories



Lensed wall wash optics:
M4RLW, M6RLW, M8RLW may be field installed to standard product quickly converting to asymmetric distribution.



Medium beam diffuser media:
M4MED, M6MED, and M8MED may be field installed to the media holder supplied with the standard engine.



Oversized goaf rings:
M4GRW, M6GRW, M8GRW may be field installed over the integral trim flange to support ceiling coverage for new or retrofit construction. See ceiling cutout chart for retrofitting guidance.



Factory installed battery pack:
Bodine BSL6 6W battery pack with self-test/self-diagnostic. Includes remote ceiling plate for test switch. Includes flexible conduit and connector to wire into secondary compartment of the light engine's junction box. To estimate lumen output in emergency mode, multiply emergency pack wattage by luminaire configuration efficacy, then by 1.1.



AccuRender Technology (CRI 90+)

The right light brings colors to life. Our new AccuRender technology helps ensure colors are rendered more accurately and consistently, while doing so as efficiently as CRI 80 products.



Standard CRI 80
Good color rendering and high efficacy



Standard CRI 90
Better color rendering and low efficacy



AccuRender
Best color rendering, color preference and high efficacy

Enjoy design flexibility

Full range of products and options:

- Available soon in across Lightolier portfolio for application flexibility
- Multiple color temperatures (CCTs) and lumen packages offered

Promote savings

High efficacy, with no penalty:

- Energy efficacy compares well to conventional 80 CRI
- Up to 25% more energy savings vs competitor 90 CRI¹
- Helps meet Title 24 requirements

Show your true colors

High color rendering:

- True to life colors that help energize your environment and render better flesh tones critical for healthcare hospitality and retail applications.
- R_a up to 94 CRI
- R_9 up to 67 CRI
- G_s up to 99 CRI
- C_9 up to 94 CRI
- R_f up to 92 TM-30
- $R_{f,h1}$ up to 91 TM-30
- R_g up to 100 TM-30
- $R_{cs,h1}$ up to -5% TM-30

Achieve color balance

Best in class color consistency:

- Promote aesthetic harmony in your space with ≤ 3 SDCM @ 2700K & 5000K