



**ModuLyte LED 4" & 6" Cylinders** provide an excellent combination of aesthetic and lighting appeal with field modularity. Designed for use with standard ModuLyte recessed downlights ensures matching visual and performance, and offers the same maximum level of field flexibility to keep pace with challenging and changing construction requirements.

Project: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Cat.No: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Qty: : \_\_\_\_\_  
 Notes: \_\_\_\_\_



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

### Engine

example: M6CRW-M6RDL259CSWZ10U-DRP

Series	Finish	Series	Style	Lumens	CRI/CCT	Beam <sup>2</sup>	Reflector	Flange	Dimming	Voltage	Options
-			<b>DL</b>		<b>9CS</b>			<b>-</b>	<b>Z10</b>	<b>U -</b>	<b>DRP</b>
M4CR 4" Round Cylinder	W White	M4R 4" Round	DL Downlight	Selectable	Selectable	W Wide	CL Specular clear CD Comfort clear diffuse WH White	- White (matte)	Z10 0-10V 1%	U Universal 120/277V	DRP Late stage assembly
M6CR 6" Round Cylinder	B Black	M6R 6" Round		25 1500lm 2000lm 2500lm	9CS 2700K 3000K 3500K 4000K 5000K						
		M6R 6" Round	DL Downlight	30 3000lm <sup>1</sup>	Selectable 9CS 2700K 3000K 3500K 4000K 5000K	M Medium					

### Accessories

	
<b>Lensed wall wash optic</b>	<b>Medium beam diffuser lens</b>
M4RLW 4" round M6RLW 6" round	M4MED 4" round M6MED 6" round

- 4000lm max (40) light engine capable of supporting 3000lm max in cylinder configuration
- Wide (W) beam available only with 25 light engine, medium (M) beam available only with 40 light engine.

### Pendant accessories (field adjustable) ex: CASK36BK

Series	Mounts	Length	Finish
<b>CA</b>			
CA Calculite Accessory	SK Stem Kit	36 36 in. 48 48 in. 60 60 in. 72 72 in.	WH White (matte) BK Black (matte) AL Aluminum
	CK Cable Kit	10 120 in.	WH White (matte) BK Black (matte) AL Aluminum

# M4CR/M6CR ModuLyte LED

## 4", 6", & 8" Round Cylinder

### Cylinder

**Cylinder housing:** Extruded aluminum, available for installation onto a 3" or 4" junction box. Product is shipped standard with support plates for both surface and suspended mounting. Suspended mounting requires installation of supporting pendant canopy accessories for cable (CACK) or stem (CASK).

### Pendant accessories

**Stem mounting kit (CASK):** 0.375" diameter steel stem (1/8" National Pipe Thread, can be field cut to required length. 5-wire conductor cable runs alongside of stem for power and dimming. Magnetic attachment of canopy to junction box provides clean look free of hardware. Self-aligning swivel mounting system ensures cylinder hangs straight down. Stem can be cut in field for length adjustment. A 1/8" hole is required to reconnect the pendant stem to the canopy swivel. Swivel accommodates max 45° pitch.

**Cable mounting kit (CACK):** 10' long steel cable with 5-wire cable for power and dimming. Hardware free canopy for clean aesthetics.

### Installation

ModuLyte cylinders are designed for installation with standard ModuLyte light engines. This ensures a seamless appearance of cylinders and downlights in the same application, and provides the customer with options for selection and speed to cater to construction schedules and requirements.

- **Accessory** - ModuLyte cylinders may be field installed with any accommodating ModuLyte 4" or 6" downlight light engine. Refer to the ModuLyte recessed specification sheet for all available downlight configurations.
- **Luminaire** - ModuLyte cylinders may be ordered complete with factory-installed downlight light engine in the Stock ready program. Make-to-order engines may also be requested via ETO.

### Light Engine

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

- Easy replacement of electronics at end of life with minimal wasted material and labor required.
- Lumen Maintenance: L80 at 72,000 hours.
- CCT range is 2700K, 3000K, 3500K, 4000K, and 5000K orderable either as field selectable OR factory preset. Selectable factory setting is 3500K.
- Field selectable lumen options:
  - o 4" - rated for up to 3000lm
  - o 6" - rated for up to 3000lm
- For emergency installations, the LCELIS10 10W inverter accessory may be used.

### 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
- Accrunder 90 CRI minimum.

### Labels and Listings

- cULus listed, surface mount is listed for use in wet locations with covered ceilings, suspended mount is damp listed
- 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.

### Reflectors



**Specular clear (CL):** Most specular and most efficient finish, delivers maximum photometric performance but can produce a mirror image effect of the interior space.



**Comfort clear diffuse (CD):** Slightly diffuse clear finish, that eliminates iridescence and reduces the mirror image effect inherent with specular finishes.



**White (WH):** (matte) Brightest illuminated aperture and provides the smoothest transition to most ceilings when off (white is only available with a white flange).

### Flanges



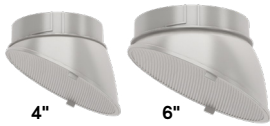
**White (-):** (matte) Provides the smoothest transition to ceilings when off.

\* Black flange and other engine options may be ordered via the ETO process.

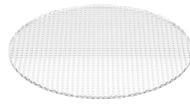
# M4CR/M6CR ModuLyte LED

## 4", 6", & 8" Round Cylinder

### Accessories



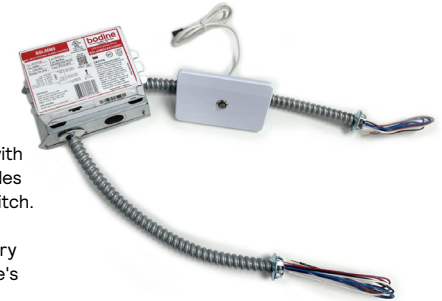
**Lensed wall wash optics:**  
M4RLW, M6RLW, M8RLW may be field installed to standard product quickly converting to asymmetric distribution.



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

### Factory-or Field-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 CRI<sup>1</sup>
- 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    •  $R_r$  up to 92 TM-30
- $R_g$  up to 67 CRI    •  $R_{e,ht}$  up to 91 TM-30
- $G_a$  up to 99 CRI    •  $R_g$  up to 100 TM-30
- $C_g$  up to 94 CRI    •  $R_{cs,ht}$  up to -5% TM-30

### Achieve color balance

Best in class color consistency:

- Promote aesthetic harmony in your space with  $\leq 3$  SDCM @ 2700K & 5000K

### Stock Ready configurations

Catalog Number	UPC Code	Model Number	Description
<b>ModuLyte LED 4" Round Cylinder</b>			
M4CRW	190096194308	912401592836	ML 4IN CYL RND WHT
M4CRB	190096194315	912401592837	ML 4IN CYL RND BLK
<b>ModuLyte LED 6" Round Cylinder</b>			
M6CRW	190096194322	912401592838	ML 6IN CYL RND WHT
M6CRB	190096194339	912401592839	ML 6IN CYL RND BLK

Catalog Number	UPC Code	Model Number	Description
<b>ModuLyte LED 4" Round Downlight</b>			
<b>Wide beam</b> • 1500/2000/2500lm 90CRI with 2700/3000/3500/4000/5000K CCTs			
M4RDL259CSWCLZ10U	190096192793	912401592618	CL/WH Z10 UNV
M4RDL259CSWCDZ10U	190096192809	912401592619	CD/WH Z10 UNV
M4RDL259CSWWHZ10U	190096192816	912401592620	WH/WH Z10 UNV
<b>ModuLyte LED 6" Round Downlight</b>			
<b>Wide beam</b> • 1500/2000/2500lm 90CRI with 2700/3000/3500/4000/5000K CCTs			
M6RDL259CSWCLZ10U	190096192823	912401592621	CL/WH Z10 UNV
M6RDL259CSWCDZ10U	190096192830	912401592622	CD/WH Z10 UNV
M6RDL259CSWWHZ10U	190096192847	912401592623	WH/WH Z10 UNV
<b>Meium beam</b> • 3000/3500/4000lm 90CRI with 2700/3000/3500/4000/5000K CCTs			
M6RDL409CSMCLZ10U	190096192854	912401592624	CL/WH Z10 UNV
M6RDL409CSMCDZ10U	190096192861	912401592625	CD/WH Z10 UNV
M6RDL409CSMWHZ10U	190096192878	912401592626	WH/WH Z10 UNV

# M4CR/M6CR ModuLyte LED

## 4", 6", & 8" Round Cylinder

### Electrical - 4 inch

Light engine	Input Volts	Input Current	Drive Current	Input Power	LED Power	THD Factor	Power Factor
500lm	120V	0.05	0.1	5.8	4.1	<20	>0.9
	277V	0.02	0.1	5.9	4.1	<20	>0.9
	347V	0.02	0.1	6.2	4.1	<20	>0.9
750lm	120V	0.07	0.2	8.2	6.2	<20	>0.9
	277V	0.03	0.2	8.4	6.2	<20	>0.9
	347V	0.03	0.2	8.7	6.2	<20	>0.9
1000lm	120V	0.09	0.2	10.6	8.3	<20	>0.9
	277V	0.04	0.2	10.7	8.3	<20	>0.9
	347V	0.03	0.2	11.6	8.3	<20	>0.9
1500lm	120V	0.13	0.3	15.3	12.5	<20	>0.9
	277V	0.06	0.3	15.4	12.5	<20	>0.9
	347V	0.04	0.3	15.3	12.5	<20	>0.9
2000lm	120V	0.17	0.4	20.3	17.0	<20	>0.9
	277V	0.07	0.4	20.4	17.0	<20	>0.9
	347V	0.06	0.4	20.3	17.0	<20	>0.9
2500lm	120V	0.21	0.5	25.4	21.5	<20	>0.9
	277V	0.09	0.5	25.5	21.5	<20	>0.9
	347V	0.07	0.5	25.2	21.5	<20	>0.9
3000lm	120V	0.24	0.6	28.6	24.2	<20	>0.9
	277V	0.10	0.6	28.7	24.2	<20	>0.9
	347V	0.08	0.6	28.5	24.2	<20	>0.9

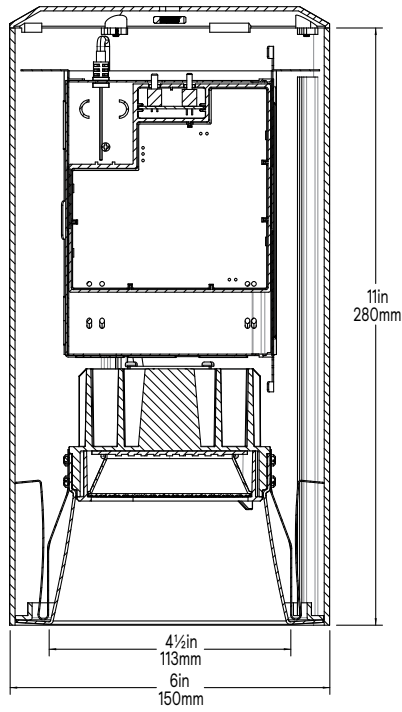
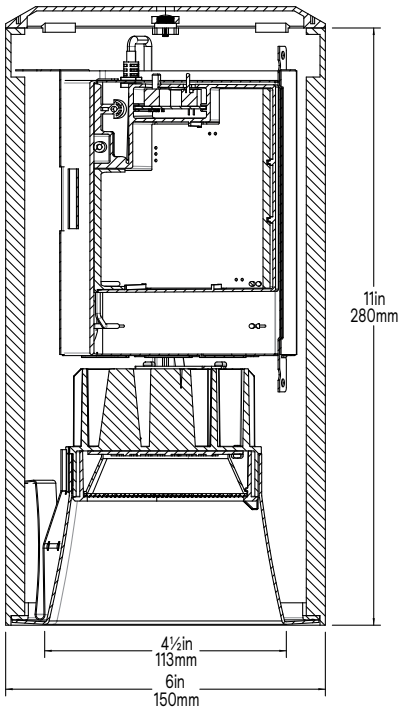
### Electrical - 6 inch

Light engine	Input Volts	Input Current	Drive Current	Input Power	LED Power	THD Factor	Power Factor
500lm	120V	0.05	0.1	5.9	4.2	<20	>0.9
	277V	0.02	0.1	6.1	4.2	<20	>0.9
	347V	0.02	0.1	6.4	4.2	<20	>0.9
750lm	120V	0.07	0.2	8.3	6.3	<20	>0.9
	277V	0.03	0.2	8.4	6.3	<20	>0.9
	347V	0.03	0.2	8.8	6.3	<20	>0.9
1000lm	120V	0.09	0.2	10.8	8.4	<20	>0.9
	277V	0.04	0.2	10.9	8.4	<20	>0.9
	347V	0.03	0.2	11.8	8.4	<20	>0.9
1500lm	120V	0.13	0.3	15.4	12.6	<20	>0.9
	277V	0.06	0.3	15.5	12.6	<20	>0.9
	347V	0.04	0.3	15.5	12.6	<20	>0.9
2000lm	120V	0.17	0.4	20.4	17.1	<20	>0.9
	277V	0.07	0.4	20.5	17.1	<20	>0.9
	347V	0.06	0.4	20.4	17.1	<20	>0.9
2500lm	120V	0.21	0.5	25.5	21.6	<20	>0.9
	277V	0.09	0.5	25.6	21.6	<20	>0.9
	347V	0.07	0.5	25.3	21.6	<20	>0.9
3000lm	120V	0.24	0.6	29.3	24.8	<20	>0.9
	277V	0.11	0.6	29.4	24.8	<20	>0.9
	347V	0.08	0.6	29.2	24.8	<20	>0.9

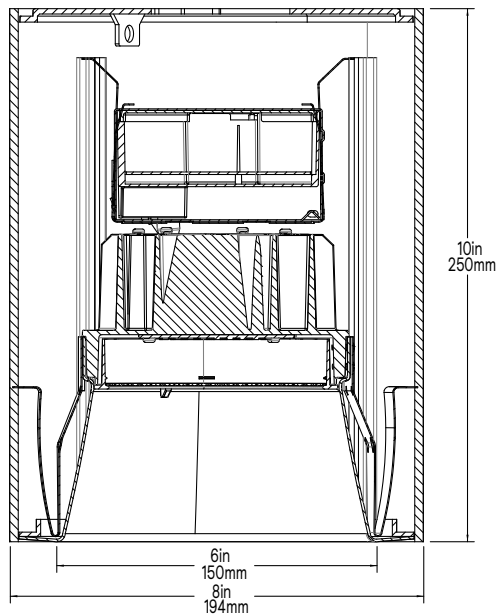
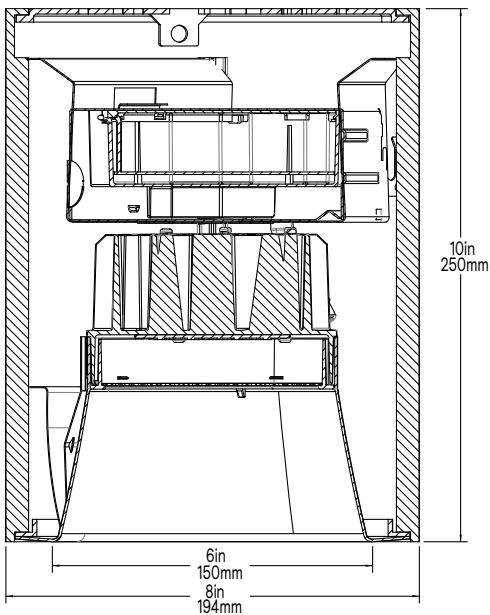
# M4CR/M6CR ModuLyte LED

## 4", 6", & 8" Round Cylinder

### Dimensions for 4 inch



### Dimensions for 6 inch

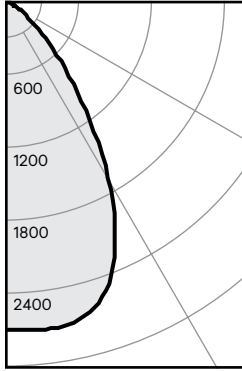


# M4CR/M6CR ModuLyte LED

## 4", 6", & 8" Round Cylinder

### 4-inch, Medium beam, 2500lm Engine, 103lm/W at 25W

#### Candela Curve



#### M4RDL259CSMCLZ10U

Output lumens: 2625 lms  
 Input watts: 25.4 W  
 CRI: 90 min  
 CCT<sup>1</sup>: 5000K  
 Spacing Crit.: 1.04  
 Beam Angle: 65°

#### Zonal summary

Zone	Lumens	%Luminaire
0-30	1562	59.5%
0-40	2162	82.4%
0-60	2601	99.1%
0-90	2625	100.0%

Angle	Mean CP	Lumens
0	2147	
5	2156	
10	2156	206
15	2104	
20	1961	589
25	1693	
30	1336	767
35	958	
40	645	600
45	399	
50	232	315
55	133	
60	69	124
65	18	
70	2	23
75	1	
80	0	1
85	0	
90	0	0

#### Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
8'	86	5.2'
9'	60	6.2'
10'	44	7.3'
12'	34	8.3'
14'	27	9.4'

\* Beam diameter is where foot-candles drop to 50% of maximum.

#### Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
5'	118.0	1.13
6'	77.0	0.74
7'	55.0	0.53
8'	46.0	0.44
9'	37.0	0.35

38' x 38' x 10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

**Efficacy: 103.3lm/W**  
 Report<sup>2</sup>: M4RDL259CSMCL-5000K.ies\*

#### Adjustment factors

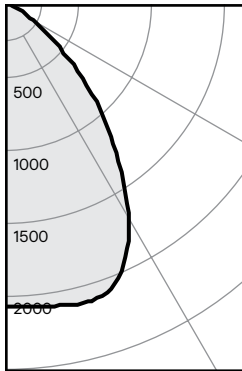
Finish	CCT (90CRI) *	Lumens
CL = 100%	5000K = 100%	4000lm = 160% 2000lm = 80%
CD = 97%	4000K = 99%	3500lm = 142% 1500lm = 60%
WH = 88%	3500K = 98%	3000lm = 120% 1000lm = 40%
BK = 57%	3000K = 97%	2500lm = 100% 750lm = 30%
	2700K = 93%	500lm = 20%

#### Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%	
	70	50	30	10	50	10	50	10	50	10	0	
Wall	70	50	30	10	50	10	50	10	50	10	0	
RCR	Zonal cavity method - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	113	110	107	105	108	103	104	100	100	97	92
	2	107	101	97	93	100	92	96	90	93	88	84
	3	100	93	88	83	92	83	89	81	87	80	77
	4	95	86	80	75	85	75	83	74	81	73	71
	5	89	80	73	69	79	68	77	68	75	67	65
	6	84	74	68	63	73	63	72	62	70	62	60
	7	79	69	62	58	68	58	67	57	66	57	55
	8	75	65	58	53	64	53	63	53	62	53	51
	9	71	60	54	50	60	50	59	49	58	49	48
	10	67	57	50	46	56	46	55	46	55	46	44

### 4-inch, Wide beam, 2500lm Engine, 105lm/W at 25W

#### Candela Curve



#### M4RDL259CSWCLZ10U

Output lumens: 2665 lms  
 Input watts: 25.4 W  
 CRI: 90 min  
 CCT<sup>1</sup>: 5000K  
 Spacing Crit.: 1.18  
 Beam Angle: 74°

#### Zonal summary

Zone	Lumens	%Luminaire
0-30	1323	49.6%
0-40	1984	74.4%
0-60	2631	98.7%
0-90	2665	100.0%

Angle	Mean CP	Lumens
0	1649	
5	1652	
10	1663	158
15	1650	
20	1677	473
25	1649	
30	1519	692
35	1313	
40	1052	661
45	823	
50	577	447
55	371	
60	218	200
65	111	
70	15	32
75	3	
80	1	1
85	0	
90	0	0

#### Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
8'	66	5.9'
9'	46	7.1'
10'	34	8.3'
12'	26	9.4'
14'	20	10.6'

\* Beam diameter is where foot-candles drop to 50% of maximum.

#### Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
5'	118.0	1.13
6'	77.0	0.74
7'	55.0	0.53
8'	46.0	0.44
9'	37.0	0.35

38' x 38' x 10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

**Efficacy: 104.9lm/W**  
 Report<sup>2</sup>: M4RDL259CSWCL-5000K.ies\*

#### Adjustment factors

Finish	CCT (90CRI) *	Lumens
CL = 100%	5000K = 100%	4000lm = 160% 2000lm = 80%
CD = 97%	4000K = 99%	3500lm = 142% 1500lm = 60%
WH = 88%	3500K = 98%	3000lm = 120% 1000lm = 40%
BK = 57%	3000K = 97%	2500lm = 100% 750lm = 30%
	2700K = 93%	500lm = 20%

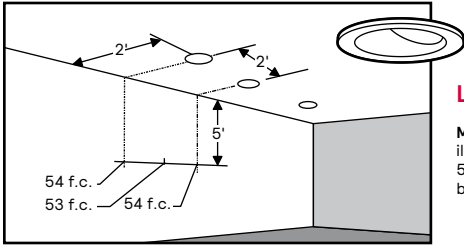
#### Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%	
	70	50	30	10	50	10	50	10	50	10	0	
Wall	70	50	30	10	50	10	50	10	50	10	0	
RCR	Zonal cavity method - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	112	109	106	104	107	102	103	99	99	96	91
	2	106	100	95	91	98	90	95	88	92	86	82
	3	99	91	85	81	90	80	87	79	84	77	74
	4	92	83	77	72	82	71	80	70	78	70	67
	5	87	77	70	64	76	64	74	64	72	63	61
	6	81	70	63	58	70	58	68	58	66	57	55
	7	76	65	58	53	64	53	63	53	62	52	50
	8	71	60	53	48	60	48	58	48	57	48	46
	9	67	56	49	44	55	44	54	44	53	44	42
	10	64	52	45	41	52	41	51	41	50	41	39

1. Correlated Color Temperature within specs as defined in ANSI\_NEMA\_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.  
 2. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

# M4CR/M6CR ModuLyte LED

## 4", 6", & 8" Round Cylinder



### Lighting Data - Example

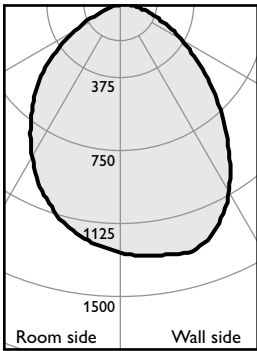
**M4RDL259CSWCLZ10U-M4RLW**  
illumination on the wall  
5' down from the ceiling is 54 f.c.  
beneath and 53 f.c. between fixtures.

### Adjustment factors

Finish	CCT (90CRI) *	Lumens	
CL = 100%	5000K = 100%	4000lm = 160%	2000lm = 80%
CD = 97%	4000K = 99%	3500lm = 142%	1500lm = 60%
WH = 88%	3500K = 98%	3000lm = 120%	1000lm = 40%
BK = 57%	3000K = 97%	2500lm = 100%	750lm = 30%
	2700K = 93%		500lm = 20%

### 4-inch, Lensed Wall Wash, 2500lm Engine, 102lm/W at 27W

#### Candela Curve



#### M4RDL259CSWCLZ10U-M4RLW

Output lumens: 2700 lms  
Input watts: 26.5 W  
CRI: 90 min  
CCT: 5000K

Efficacy: 101.9 lm/w  
Report#: M4RDL259CSWCL-M4RLW-5000K.ies

#### Multiple unit data

Footcandles on wall

Distance from ceiling in feet	2' from wall		
	2' on ctr.		
1	65	64	65
2	105	104	105
3	96	95	96
4	74	73	74
5	54	53	54
6	39	38	39
7	29	29	29
8	22	22	22
9	17	17	17
10	14	14	14
12	12	12	12
14	10	10	10

#### Multiple unit data

Footcandles on wall

Distance from ceiling in feet	3' from wall		
	3' on ctr.		
1	21	20	21
2	41	40	41
3	48	47	48
4	45	46	45
5	38	39	38
6	31	32	31
7	25	26	25
8	20	21	20
9	16	17	16
10	13	14	13
12	11	12	11
14	10	10	10

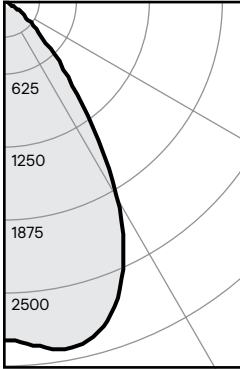
1. Correlated Color Temperature within specs as defined in ANSI\_NEMA\_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.  
2. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

# M4CR/M6CR ModuLyte LED

## 4", 6", & 8" Round Cylinder

### 6-inch, Medium beam, 2500lm Engine, 114lm/W at 26W

#### Candela Curve



#### M6RDL259CSMCLZ10U

Output lumens: 2902 lms  
 Input watts: 25.5 W  
 CRI: 90 min  
 CCT<sup>1</sup>: 5000K  
 Spacing Crit.: 1.08  
 Beam Angle: 65°

#### Zonal summary

Zone	Lumens	%Luminaire
0-30	1761	60.7%
0-40	2427	83.6%
0-60	2880	99.2%
0-90	2902	100.0%

Angle	Mean CP	Lumens
0	2307	
5	2348	
10	2405	226
15	2365	
20	2211	662
25	1929	
30	1528	873
35	1063	
40	681	666
45	409	
50	239	325
55	140	
60	68	128
65	12	
70	2	20
75	1	
80	0	1
85	0	
90	0	0

#### Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
8'	92	5.4'
9'	64	6.5'
10'	47	7.6'
12'	36	8.6'
14'	28	9.7'

\* Beam diameter is where foot-candles drop to 50% of maximum.

#### Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
5'	128.0	1.13
6'	84.0	0.74
7'	60.0	0.53
8'	51.0	0.44
9'	40.0	0.35

38' x 38' x 10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

**Efficacy: 113.8lm/W**  
 Report<sup>2</sup>: M6RDL259CSMCL-5000K.ies\*

#### Adjustment factors

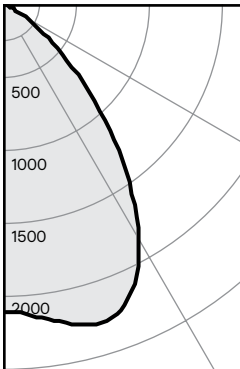
Finish	CCT (90CRI) *	Lumens
CL = 100%	5000K = 100%	5000lm = 200% 2000lm = 80%
CD = 99%	4000K = 99%	4000lm = 180% 1500lm = 60%
WH = 90%	3500K = 98%	3500lm = 160% 1000lm = 40%
BK = 58%	3000K = 97%	3000lm = 120% 750lm = 30%
	2700K = 93%	2500lm = 100% 500lm = 20%

#### Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%	
	70	50	30	10	50	10	50	10	50	10	0	
Wall	70	50	30	10	50	10	50	10	50	10	0	
RCR	Zonal cavity method - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	113	110	107	105	108	103	104	100	100	97	92
	2	107	101	97	93	100	92	96	90	93	88	85
	3	101	94	88	84	92	83	90	82	87	81	78
	4	95	87	81	76	85	75	83	75	81	74	71
	5	89	80	74	69	79	69	77	68	76	68	65
	6	84	75	68	63	74	63	72	63	71	62	60
	7	80	70	63	58	69	58	67	58	66	58	56
	8	75	65	58	54	64	54	63	54	62	53	52
	9	71	61	54	50	60	50	59	50	58	50	48
	10	68	57	51	47	57	47	56	46	55	46	45

### 6-inch, Wide beam, 2500lm Engine, 113lm/W at 26W

#### Candela Curve



#### M6RDL259CSWCLZ10U

Output lumens: 2892 lms  
 Input watts: 25.6 W  
 CRI: 90 min  
 CCT<sup>1</sup>: 5000K  
 Spacing Crit.: 1.28  
 Beam Angle: 73°

#### Zonal summary

Zone	Lumens	%Luminaire
0-30	1446	50.0%
0-40	2188	75.7%
0-60	2864	99.0%
0-90	2892	100.0%

Angle	Mean CP	Lumens
0	1679	
5	1707	
10	1763	165
15	1690	
20	1813	512
25	1804	
30	1687	769
35	1476	
40	1192	742
45	903	
50	616	478
55	382	
60	217	198
65	96	
70	12	27
75	2	
80	1	1
85	0	
90	0	0

#### Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
8'	67	6.3'
9'	47	7.6'
10'	34	8.8'
12'	26	10.1'
14'	21	11.3'

\* Beam diameter is where foot-candles drop to 50% of maximum.

#### Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
5'	128.0	1.13
6'	84.0	0.74
7'	60.0	0.53
8'	51.0	0.44
9'	40.0	0.35

38' x 38' x 10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

**Efficacy: 113.0lm/W**  
 Report<sup>2</sup>: M6RDL259CSWCL-5000K.ies\*

#### Adjustment factors

Finish	CCT (90CRI) *	Lumens
CL = 100%	5000K = 100%	5000lm = 200% 2000lm = 80%
CD = 99%	4000K = 99%	4000lm = 180% 1500lm = 60%
WH = 90%	3500K = 98%	3500lm = 160% 1000lm = 40%
BK = 58%	3000K = 97%	3000lm = 120% 750lm = 30%
	2700K = 93%	2500lm = 100% 500lm = 20%

#### Coefficients of utilization

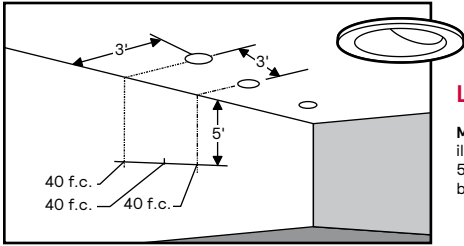
Ceiling	80%				70%		50%		30%		0%	
	70	50	30	10	50	10	50	10	50	10	0	
Wall	70	50	30	10	50	10	50	10	50	10	0	
RCR	Zonal cavity method - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	112	109	106	104	107	102	103	99	99	96	91
	2	106	100	95	91	98	90	95	88	92	86	82
	3	99	91	85	81	90	80	87	79	84	77	74
	4	92	83	77	72	82	71	80	70	78	70	67
	5	87	77	70	64	76	64	74	64	72	63	61
	6	81	70	63	58	70	58	68	58	66	57	55
	7	76	65	58	53	64	53	63	53	62	52	50
	8	71	60	53	48	60	48	58	48	57	48	46
	9	67	56	49	44	55	44	54	44	53	44	42
	10	64	52	45	41	52	41	51	41	50	41	39

1. Correlated Color Temperature within specs as defined in ANSI\_NEMA\_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.  
 2. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.



# M4CR/M6CR ModuLyte LED

## 4", 6", & 8" Round Cylinder



### Lighting Data - Example

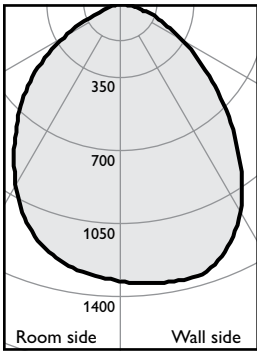
**M6RDL259CSWCLZ10U-M6RLW**  
illumination on the wall  
5' down from the ceiling is 40 f.c.  
beneath and 40 f.c. between fixtures.

### Adjustment factors

Finish	CCT (90CRI) *	Lumens	
CL = 100%	5000K = 100%	5000lm = 200%	2000lm = 80%
CD = 99%	4000K = 99%	4000lm = 180%	1500lm = 60%
WH = 90%	3500K = 98%	3500lm = 160%	1000lm = 40%
BK = 58%	3000K = 97%	3000lm = 120%	750lm = 30%
	2700K = 93%	2500lm = 100%	500lm = 20%

### 6-inch, Lensed Wall Wash, 2500lm Engine, 102lm/W at 27W

#### Candela Curve



#### M6RDL259CSWCLZ10U-M6RLW

Output lumens: 2700 lms  
Input watts: 26.5 W  
CRI: 90 min  
CCT<sup>1</sup>: 5000K

Efficacy: 101.9 lm/w  
Report<sup>2</sup>: M6RDL259CSWCL-M6RLW-5000K.ies

#### Multiple unit data

Footcandles on wall

Distance from ceiling in feet	3' from wall		
	3' on ctr.		
1	20	19	20
2	40	39	40
3	48	48	48
4	47	47	47
5	40	40	40
6	32	33	32
7	26	27	26
8	21	21	21
9	17	17	17
10	14	14	14
12	12	12	12
14	10	10	10

#### Multiple unit data

Footcandles on wall

Distance from ceiling in feet	3' from wall		
	4' on ctr.		
1	17	14	17
2	33	29	33
3	39	37	39
4	38	37	38
5	32	32	32
6	27	27	27
7	22	22	22
8	18	18	18
9	15	15	15
10	12	13	12
12	11	11	11
14	9	9	9

1. Correlated Color Temperature within specs as defined in ANSI\_NEMA\_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.  
2. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.