CM10-ML100

10" Lensed Metal Halide Downlight

Catalog Number:_____

Type:_____

Project:_____

Description

Ten inch vertical lamp HID downlight. Rated for use with 100,150 and 250 watt HID lamps. Wide variety of trim options.

Features

- Adjustable socket cup.
- Pre-Installed quick connectors.
- Easy, snap fit installation.
- cUL listed for damp locations and through branch circuit wiring.
- Variety of trim options.
- Detachable ballast tray for easy maintenance.

CATALOG SYSTEM AND OPTIONS

SAMPLE CATALOG NUMBER: CM10-M150-V105C

Plaster Frame		Electrical System		Fuse Option
CM10	10" Standard frame	**ML100**[3]	M100/C/U/MED	**FS2**
CM10S	10" Slope frame			**FS3**
				FS4
				FS6
				FS8 *see chart below

Trims (choose one)

V105BC	Black Baffle, Clear Lens Insert[2]
V105BP	Black Baffle, C73 Prismatic Lens[2]
V105BF	Black Baffle, Fresnel Lens[2]
V105B	Low Irid.Refl.,Black Baffle
V105WBC	White Baffle Clear Lens Insert[2]
V105WBF	White Baffle Fresnel Lens Insert[2]
V105WBP	White Baffle,C73 Prismatic Lens[2]
V105C	Clear Cone, Clear Lens Insert[2]
V105F	Clear Cone, Fresnel Lens Insert[2]
V105P	Clear Cone, C73 Prismatic Lens[2]
V106C	White Splay, Clear Lens Insert[2]
V106F	White Splay, Fresnel Lens Insert[2]
V106P	White Splay, C73 Prismatic Lens[2]
V105SR10	Accommodates 5°- 15° Slope[4]
V105SR20	Accommodates 16°- 25° Slope[4]
V105SR30	Accommodates 26°- 35° Slope[4]
V105SR40	Accommodates 36°- 45° Slope[4]

Footnotes:
1. HID fuse kits vary depending on wattage.
2. UL Listed wet location.
3. For use with Lensed trim only.
4. For use with CM10S only.

General Notes:
See Fuse Kit Chart below to determine the correct fuse kit for your application.

FRAME

1. **Metal Plaster Frame** - 22 gauge die stamped metal frame with flanged edges to provide a smooth handling surface. The frame can be easily converted in the field to 6" and 8" aperture sizes with optional interchangeable aperture rings. Frames can be installed before lamp source or wattage has been determined.

Note: Suitable for installation in environmental air-handling ceilings.

2. **Mounting** - Adjustable spring steel butterfly brackets accommodate CH24 or CH48 channel bar hangers, BH3 flat bar hangers, or 1/2" EMT conduit. Frame can be supported with aircraft cable where required. Ballast trays attach via two butterfly nuts. Frame can be supported with aircraft cable where required.

ELECTRICAL SYSTEM

1. **Ballast** - Systems come equipped with standard 120/277V, 60 Hertz, -20° F minimum starting temperature (120/347V ballast
available as an option), dual tap, high power factor magnetic ballasts. Ballasts attach to an adjustable ballast tray that straddles the bar hangers for greater stability. Two L-brackets hold the ballast tray in place along the edge of the plaster tray.
2. **Socket** - Medium base screw porcelain socket rated for 650W, 250V maximum.
3. **Socket Cup** - The socket cup attaches to the trim without tools and incorporates a socket scale to provide for uniform socket positioning.
4. **Junction Box** - Plaster frame integrated 47 cu.in. junction box with four 1/2" and two 1" knockouts. Electrical connections are made through a single junction box door, which allows all electrical systems to snap into place on the frame. All electrical systems come standard with pre-installed quick connectors for fast and easy electrical connections.
5. **cUL Listed** - cUL approved for damp location and through branch circuit wiring with up to 8 #12 AWG conductors. Lens trims are cUL Listed for wet location.

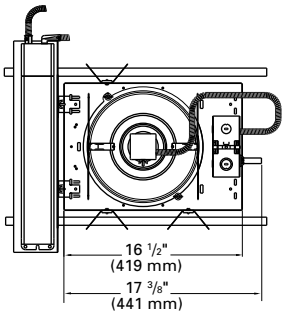
TRIMS

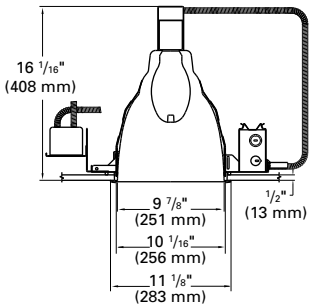
1. **Reflector** - Precision spun .050 aluminum. Removable polycarbonate trim ring is standard.
2. **Baffle** - Precision spun .040 aluminum with deep grooves to reduce aperture glare. Non-reflective matte black or white painted finishes.
3. **Lenses** - Tempered clear, C73 Prismatic, or Fresnel glass lenses. Lenses are easily removable from below the ceiling for relamping.
4. **Installation** - Capri One trims attach directly to the frame via expandable torsion springs.
5. **Lensed Trims** are cUL Listed wet location rated.

ACCESSORIES (Order separately)

27" Flat Bar Hangers.....BH3
26" C-Channel Bar Hangers.....CH24
50" C-Channel Bar Hangers.....CH48

DIMENSIONS





Electrical Operating Characteristics

Lamp Wattage	Input Watts	Input Amps Starting 120v	Input Amps Starting 277v	Input Amps Operating 120v	Input Amps Operating 277v	Fuse 120v	Fuse 277v
ML100	125	1	2.2	1.1	0.5	FS6	FS4

REV. 09/09

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White Baffle, Glass Lens Insert

V105WBC Clear Lens*
V105WBF Fresnel Lens*
V105WBP C73 Prismatic Lens*

Black Baffle, Glass Lens Insert

V105BC Clear Lens*
V105BF Fresnel Lens*
V105BP C73 Prismatic Lens*

White Splay, Glass Lens Insert

V106C Clear Lens*
V106F Fresnel Lens*
V106P C73 Prismatic Lens*

Clear Cone, Glass Lens Insert

V105C Clear Lens*
V105F Fresnel Lens*
V105P C73 Prismatic Lens*

Clear Reflector, White Dome
Ceiling cutout: 12" diameter

V105SR10 Accommodates 5°-15° Slope
V105SR20 Accommodates 16°-25° Slope
V105SR30 Accommodates 26°-35° Slope

Not for use with emergency options.

For use with CM10S housing only.

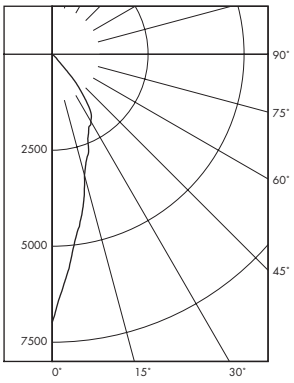
PHOTOMETRICS

CM10-ML100-V105C

10" H.I.D. 100W Metal Halide Lensed Downlight, Clear Reflector

Lamp: (1) M100/C/U/MED
IES Spacing Criteria: 0.5
Efficiency: 47.5%

Candlepower Curve



Candlepower Summary

Zone Degree	0° Candelas
90	0
85	0
75	7
65	15
55	31
45	195
35	1671
25	2249
15	3256
5	5439
0	6989

Coefficients of Utilization

	Ceiling Cavity Reflectance								
	80			50			10		
	Wall Reflectance								
Room Cavity Ratio	50	30	10	50	30	10	50	30	10
	CU for Floor Cavity Reflectance = 20%								
0	56	56	56	53	53	53	47	47	47
1	52	51	50	50	48	47	46	46	45
2	48	46	45	46	45	44	44	42	41
3	45	42	40	44	41	40	40	40	39
4	41	40	38	40	39	36	39	38	35
5	40	36	34	38	35	34	36	34	34
6	36	34	32	35	34	32	34	33	32
7	34	32	29	34	32	29	33	30	29
8	33	29	28	32	29	28	30	28	28
9	30	28	26	29	28	26	29	28	26
10	28	27	25	28	26	25	28	26	25

These coefficients were computed by the zonal-cavity method, I.E.S. recommended practice, and prepared from the candlepower distribution data in photometric test no. ITL50557

Conversion Factors

For average footcandle calculations. Multiply footcandles by conversion factor.

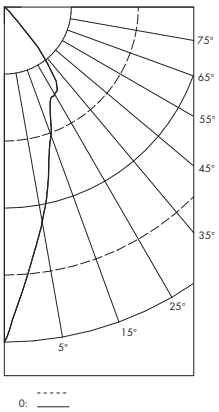
Trim Catalog #	Conversion Factor
V103	.93
V104	.87
V106	.69
V107	.89

CM10-ML175-V105C

10" H.I.D. 175W Metal Halide Lensed Downlight ED17
Clear Reflector

Lamp: (1) M175/C/U/MED
IES Spacing Criteria: .5
Efficiency: 49.8%

Candlepower Curve



Candlepower Summary

Zone Degree	0° Candelas
90	0
85	0
75	18
65	34
55	74
45	409
35	3522
25	4220
15	6667
5	10464
0	13062

Coefficients of Utilization

	Ceiling Cavity Reflectance								
	80			50			10		
	Wall Reflectance								
Room Cavity Ratio	50	30	10	50	30	10	50	30	10
	CU for Floor Cavity Reflectance = 20%								
0	58	58	58	55	55	55	51	51	51
1	55	54	53	52	51	50	47	47	46
2	51	48	46	48	46	46	46	45	44
3	47	45	42	46	44	41	42	41	40
4	44	41	39	42	40	39	40	39	38
5	40	39	35	40	38	35	38	36	34
6	39	35	34	38	34	33	35	34	33
7	35	33	30	34	33	30	34	32	30
8	34	30	28	33	30	28	32	29	28
9	32	28	27	32	28	27	30	28	27
10	30	28	26	29	27	26	28	27	25

These coefficients were computed by the zonal-cavity method, I.E.S. recommended practice, and prepared from the candlepower distribution data in photometric report
ITL50559

Conversion Factors

For average footcandle calculations. Multiply footcandles by conversion factor.

Trim Catalog #	Conversion Factor
V103	.93
V104	.87
V106	.69
V107	.89

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