

OM420CMHMR16CSET120

4" CMH MR16 Downlight/Pinhole

CAT. NO:

TYPE:

PROJECT:

PRODUCT INFORMATION

Applications

Small aperture, low brightness, metal halide downlight suitable for general or accent lighting in restaurants, museums, galleries, displays, lobbies, hotels, offices, or retail applications.

Specifications

1. Housing - Heavy 20 gauge formed steel housing features a matte black finish to suppress stray light.

2. Installation - Mounting pan has pre-installed universal mounting brackets with vertical adjustment. Junction box and mounting brackets are accessible from below ceiling. Housing is accessible from above ceiling through removable top cover. For 24" C-channel hangers (pair), specify Q1032 accessory, ordered separately. For 27" flat bar hangers (pair), specify Q1031 accessory, ordered separately. For adjustable bar hangers (pair), specify Q1033 accessory, ordered separately.

3. Ballast - Totally enclosed, High Power factor, with <10% THD electronic ballast with integral ignitor, thermally protected. Ballast requires a minimum starting temperature of -30° C. Ballast is either 120 volt, 60 Hz or 277 volt 60 Hz with a sound rating of "A" for indoor applications.

4. Socket - Twist lock GX10.

5. Junction Box - Extra large 32-cubic inch 16 gauge galvanized steel designed to meet U.L./NEC requirements. Approved for through branch wiring with up to 6 #12 AWG connectors.

6. Reflector - Keyed trim assembly with torsion springs ensures proper installation and allows trim to hang hands-free during relamping. Optional polished flange matching reflector finish available, add FF to catalog number.

7. Pinhole - Die-cast aluminum with white paint finish on ceiling plane and matte black finish on back for light suppression. The aperture is beveled to eliminate reflection.

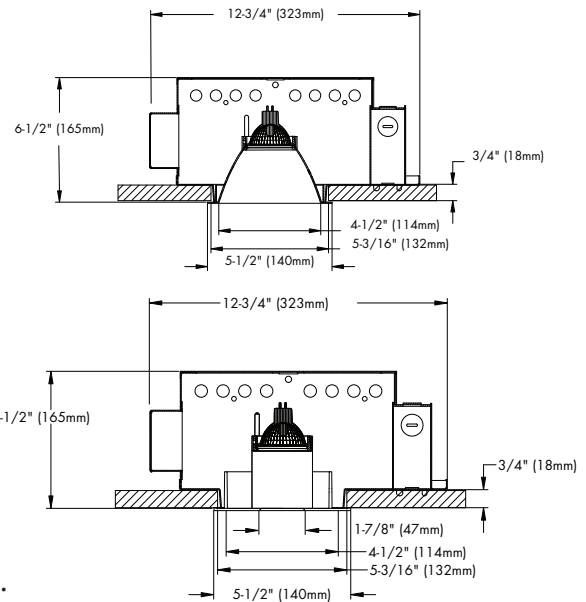
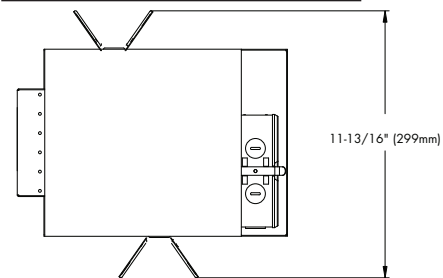
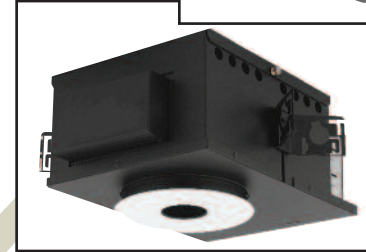
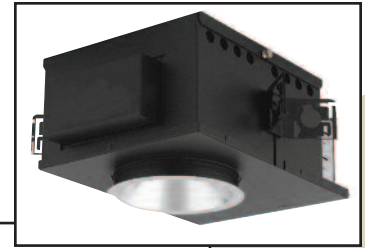
8. Lamp Retention System - Patented lamp retention spring holds the lamp and media captive and simplifies relamping.

9. Relamping - Fixture is suitable for top and bottom relamping. Additional relamp label provided for commissioning.

10. Heat Sink - Die-cast aluminum lamp and media cartridge dissipates heat to lower operating temperatures and lengthen lamp life.

11. U.L. Listed - For use in IC or Non-IC damp locations and approved for Through Branch Circuit Wiring. I.B.E.W. union made.

♦ Canadian Specifications may vary from these shown, consult Canadian Division.



C-Channel not included.

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CATALOG SYSTEM AND OPTIONS

EXAMPLE OF COMPLETE CATALOG NUMBER: **OM420CMHMR16CSET120**

OMEGA Revelation 4" Lamp	Max Wattage/ Lamp	Trim Finish	Flange Option	Supply Voltage	Bar Hanger Accessories
OM4	20CMHMR16	CS Clear Specular CSS Clear Semi-Specular HZ Haze GS Gold Specular WT Wheat PW Pewter BZ Bronze BK Black Alzak WH White BB Black Baffle WB White Baffle PIN Pin Hole	Blank White FF Finish Flange (matches trim)	ET120 Electronic 120vac ET277 Electronic 277vac	Q1031 Flat Bar Hanger Q1032 Channel Bar Hanger Q1033 Adjustable Bar Hanger



FIVE YEAR
Warranty

OM420CMHMR16CSET120**Clear Specular Reflector**

Report Number: 27022

Lamp: (1) 20MHMR16

Total Lumens: 1000

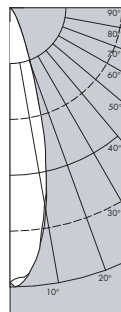
Fixture Efficiency: = 95.2%

IES File: F27022.IES

S/MH Ratio = 0.5, 0.5

Beam Angle: 28.59

LIGHTING PERFORMANCE DATA		
CEILING HEIGHT* (FT.)	INITIAL FOOTCANDLES	BEAM DIAMETER (FT.-IN.)
8	110.5	2 - 10
10	59.4	3 - 10
12	37.1	4 - 10
14	25.3	5 - 10
16	18.3	6 - 11

DISTRIBUTION CURVE

DEGREES	CANDELA		FOOT-LAMBERTS
	AT 0°	AT 90°	
90	0	0	
85	0	0	0
75	0	0	0
65	0	0	0
55	1	1	63
45	29	28	1451
35	102	119	
25	356	367	
15	1515	1604	
5	3135	3165	
0	3344	3344	

COEFFICIENTS OF UTILIZATION ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80		70		50	
	50	30	50	30	50	30
0	112	112	112	112	111	111
1	109	107	105	103	107	105
2	105	102	98	95	103	100
3	102	96	93	90	100	95
4	97	93	88	84	96	92
5	94	89	83	81	93	88
6	92	84	81	78	90	83
7	89	81	78	75	88	81
8	85	79	75	71	84	79
9	82	76	71	68	81	76
10	81	73	69	67	80	72

OM420CMHMR16CSET120**Clear Specular Reflector**

Report Number: 27153

Lamp: (1) 20MHMR16

Total Lumens: 1000

Fixture Efficiency: = 90.4%

IES File: F27153.IES

S/MH Ratio = 0.2, 0.2

Beam Angle: 11.37

LIGHTING PERFORMANCE DATA		
CEILING HEIGHT* (FT.)	INITIAL FOOTCANDLES	BEAM DIAMETER (FT.-IN.)
8	347.2	1 - 1
10	186.7	1 - 6
12	116.4	1 - 11
14	79.4	2 - 3
16	57.6	2 - 8

DISTRIBUTION CURVE

DEGREES	CANDELA		FOOT-LAMBERTS
	AT 0°	AT 90°	
90	0	0	
85	0	0	0
75	0	0	0
65	0	0	0
55	0	1	31
45	81	65	3717
35	58	68	
25	203	213	
15	851	897	
5	6033	5786	
0	10503	10503	

COEFFICIENTS OF UTILIZATION ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80		70		50	
	50	30	50	30	50	30
0	108	108	108	108	105	105
1	104	102	101	98	102	100
2	101	97	94	93	98	95
3	97	93	91	88	95	93
4	94	90	86	83	93	89
5	92	86	83	81	91	85
6	90	83	81	78	89	83
7	88	81	78	76	86	81
8	84	80	76	73	84	79
9	82	78	73	71	82	77
10	81	76	72	69	81	76

*Readings at working plane, 2'6" above floor. Beam Angle and Diameter Cutoff at 50% of max.
Candlepower Coefficients used at effective reflectances of: 70% Ceiling, 50% Walls, 20% Floor

Additional photometric test files are available @ omega-lighting.com

OMEGA
LIGHTING

OMEGA LIGHTING:
776 South Green St., Tupelo, MS 38804
Phone 662.842.7212 FAX 662.841.5501

CANADIAN DIVISION:
189 Bullock Drive, Markham, Ontario, Canada L3P 1W4
Phone 905.294.9570 FAX 800.268.0003