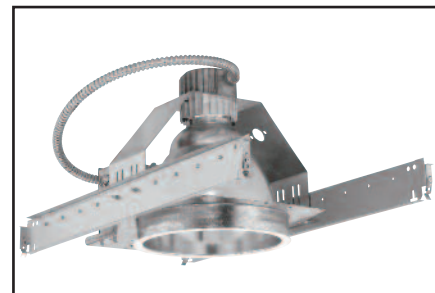


OM8100ED17PMH

8" Metal Halide Open Reflector Downlights

CAT. NO:

TYPE: PROJECT:



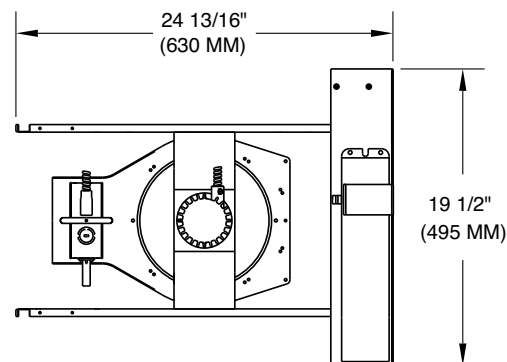
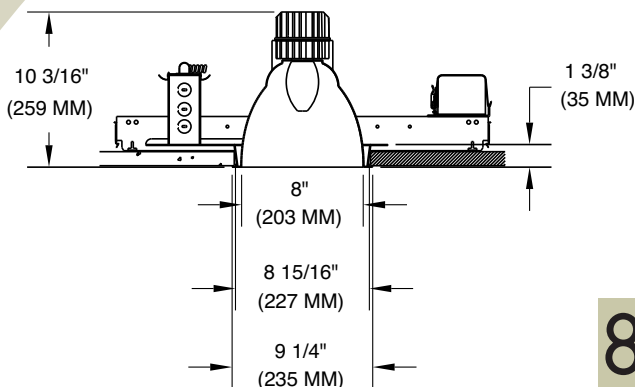
PRODUCT INFORMATION

Applications

An open reflector downlight for use with efficient metal halide lamps. Provides a uniform light distribution for general illumination of areas with lower ceilings in lobbies, reception areas, schools, transportation terminals, banks, malls and offices.

Specifications

- Mounting pan** - Precision die-stamped 16 gauge galvanized steel mounting pan and yoke assembly. Accommodates ceiling materials up to 1-3/8" thick.
- Installation** - Mounting pan has pre-installed C-channel with vertical and horizontal adjustments. Ballast, junction box and mounting brackets are accessible from below ceiling.
- Reflectors** - Precision spun .051 aluminum, self flanged with clear specular Alzak® finish. Reflector is screw mounted for positive attachment to socket assembly. Standard flat flange is painted white. Optional polished flange matching reflector finish available, add FF to catalog number.
- Ballast** - Totally enclosed and encapsulated, high power factor reactance ballast with internal ignitor; thermally protected. Ballast requires a minimum starting temperature of -20°F. Standard ballast is 120/277 dual tap, 60 hertz. For remote operation, voltages other than 120 or 277 or 50 HZ operation, consult factory.
- Socket enclosure** - Die cast aluminum heat sink, medium base 4 K.V. pulse rated porcelain socket with extended nickel-plated copper screw shell and 200°C wire positions lamp at optical focal plane of reflector for maximum performance. Lamp (ordered separately) must be rated for use in open fixtures.
- Junction box** - Extra large 43.75-cubic inch 16 gauge galvanized steel with snap-on covers. Approved for through wiring with up to 8 #12 AWG conductors.
- Thermal protection** - A thermal protection device which meets all U.L. and NEC requirements is standard.
- U.L. Listed** - For use in damp locations and approved for Through Branch Circuit Wiring. I.B.E.W. union made.



8

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

CATALOG SYSTEM AND OPTIONS

EXAMPLE OF COMPLETE CATALOG NUMBER: OM8100ED17PMH-CS-120/277

OMEGA Apr.	Lamp (by others)**	Lamp Type	Reflector Option	Reflector Finish*	Frame Options	Slope Ceiling Adapter Angle	Supply Voltage
OM8	150 ED17P 100 ED17P 70 ED17P 50 ED17P	MH Metal Halide HS High Pressure Sodium	BB Black Baffle	CS Clear Specular CSS Clear Semi-Specular HZ Haze GS Champagne Gold Specular WT Wheat PW Pewter FF Finish Flange (As suffix to color)	SA8 Sloped Ceiling Adapter FZ120 Fusing FZ277 Fusing FZ347 Fusing QEM Emergency QR Quartz Restrike FB Flat Bar Hangers	5 10 15 20 25 30	120/277 347*



FIVE YEAR
Warranty

*Consult factory for other reflector finishes.
**Protected lamp required for all wattages.

EXAMPLE OF CATALOG NUMBER WITH FUSE OPTION: OM8100ED17PMH-CS-FZ277

OM8100ED17PMH-CS

Photometric Data

Clear Specular Reflector

Report Number: 20608
 Lamp: (1) 100W MH
 Total Lumens: 8000
 Fixture Efficiency: = 66.3%
 IES File: F20608.IES
 S/MH Ratio = 0.6, 0.6
 Beam Angle: 38.15

LIGHTING PERFORMANCE DATA		
CEILING HEIGHT* (FT.)	INITIAL FOOTCANDLES	BEAM DIAMETER (FT.-IN.)
8	294.6	3-10
10	158.5	5-2
12	98.8	6-7
14	67.4	7-11
16	48.9	9-4

DISTRIBUTION CURVE



DEGREES	CANDELA		FOOT-LAMBERTS
	AT 0°	AT 90°	
90	0	0	
85	0	0	0
75	0	2	35
65	3	4	75
55	7	9	126
45	519	522	6625
35	1795	1817	
25	3476	3425	
15	5565	5536	
5	7791	7800	
0	8913	8913	

COEFFICIENTS OF UTILIZATION ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80		70		50	
	50	30	50	30	50	30
0	79	79	77	77	73	73
1	73	71	71	70	68	68
2	68	66	67	65	65	63
3	64	60	63	59	60	58
4	59	56	58	56	57	55
5	56	52	56	52	54	51
6	53	48	52	48	51	47
7	50	46	48	46	48	45
8	46	42	46	42	46	42
9	44	40	44	40	44	40
10	41	38	41	38	40	38

OM8100ED17PMHBB-CS

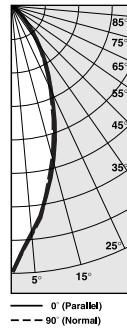
Photometric Data

Clear Specular Reflector

Report Number: 20602
 Lamp: (1) 100W MH
 Total Lumens: 4800
 Fixture Efficiency: = 59.5%
 IES File: F20602.IES
 S/MH Ratio = 0.6, 0.6
 Beam Angle: 36.67

LIGHTING PERFORMANCE DATA		
CEILING HEIGHT* (FT.)	INITIAL FOOTCANDLES	BEAM DIAMETER (FT.-IN.)
8	295.6	3-8
10	159.0	4-12
12	99.1	6-4
14	67.6	7-7
16	49.1	8-11

DISTRIBUTION CURVE



DEGREES	CANDELA		FOOT-LAMBERTS
	AT 0°	AT 90°	
90	0	0	
85	0	0	0
75	0	0	0
65	5	6	117
55	8	9	133
45	331	342	4283
35	1434	1417	
25	3009	2993	
15	5322	5208	
5	7611	7656	
0	8942	8942	

COEFFICIENTS OF UTILIZATION ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80		70		50	
	50	30	50	30	50	30
0	70	70	68	68	66	66
1	66	65	65	64	61	60
2	61	59	60	58	58	56
3	57	55	56	55	56	54
4	55	51	54	51	53	50
5	51	47	51	47	50	46
6	47	45	47	45	46	44
7	46	41	45	41	45	41
8	42	40	42	40	41	40
9	40	38	40	38	40	36
10	39	35	39	35	38	35

OM870ED17PMH-CS

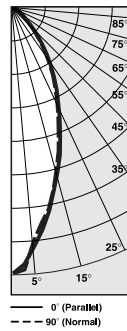
Photometric Data

Clear Specular Reflector

Report Number: 20607
 Lamp: (1) 70W MH
 Total Lumens: 4800
 Fixture Efficiency: = 69.7%
 IES File: F20607.IES
 S/MH Ratio = 0.6, 0.6
 Beam Angle: 40.72

LIGHTING PERFORMANCE DATA		
CEILING HEIGHT* (FT.)	INITIAL FOOTCANDLES	BEAM DIAMETER (FT.-IN.)
8	174.3	4-1
10	93.7	5-7
12	58.4	7-1
14	39.9	8-6
16	28.9	10-0

DISTRIBUTION CURVE



DEGREES	CANDELA		FOOT-LAMBERTS
	AT 0°	AT 90°	
90	0	0	
85	0	0	0
75	0	0	0
65	2	2	43
55	5	7	94
45	304	338	4086
35	1156	1105	
25	2108	2055	
15	3388	3320	
5	4763	4659	
0	5273	5273	

COEFFICIENTS OF UTILIZATION ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80		70		50	
	50	30	50	30	50	30
0	82	82	81	81	77	77
1	77	76	76	73	72	71
2	71	68	70	60	68	67
3	67	64	66	63	64	61
4	63	58	61	58	60	57
5	58	55	57	55	56	54
6	55	51	55	51	54	50
7	52	47	52	47	51	46
8	48	45	48	45	47	45
9	46	42	46	41	46	41
10	44	40	44	40	42	40

OM870ED17PMHBB-CS

Photometric Data

Clear Specular Reflector

Report Number: 20606
 Lamp: (1) 70W MH
 Total Lumens: 4800
 Fixture Efficiency: = 59.2%
 IES File: F20606.IES
 S/MH Ratio = 0.6, 0.6
 Beam Angle: 39.56

LIGHTING PERFORMANCE DATA		
CEILING HEIGHT* (FT.)	INITIAL FOOTCANDLES	BEAM DIAMETER (FT.-IN.)
8	163.7	3-11
10	88.1	5-5
12	54.9	6-10
14	37.5	8-3
16	27.2	9-9

DISTRIBUTION CURVE



DEGREES	CANDELA		FOOT-LAMBERTS
	AT 0°	AT 90°	
90	0	0	
85	0	0	0
75	0	0	0
65	2	3	53
55	4	6	78
45	180	200	2418
35	877	909	
25	1807	1825	
15	3206	3151	
5	4516	4448	
0	4953	4953	

COEFFICIENTS OF UTILIZATION ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80		70		50	
	50	30	50	30	50	30
0	69	69	68	68	66	66
1	66	64	65	63	61	60
2	60	58	59	57	58	56
3	57	55	56	54	55	53
4	54	51	53	51	52	50
5	51	47	50	46	48	46
6	47	45	46	44	46	44
7	45	41	45	41	44	40
8	42	40	42	39	41	39
9	40	36	40	36	40	36
10	39	34	38	34	38	34

*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

To convert values for optional reflector colors, multiply by:
 Gold .90 Bronze .82 Pewter .87

Additional photometric test files are available @ omegalighting.com



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