

OM6100ED17PMH

6" Metal Halide Open Reflector Downlights

CAT. NO:

TYPE:

PROJECT:

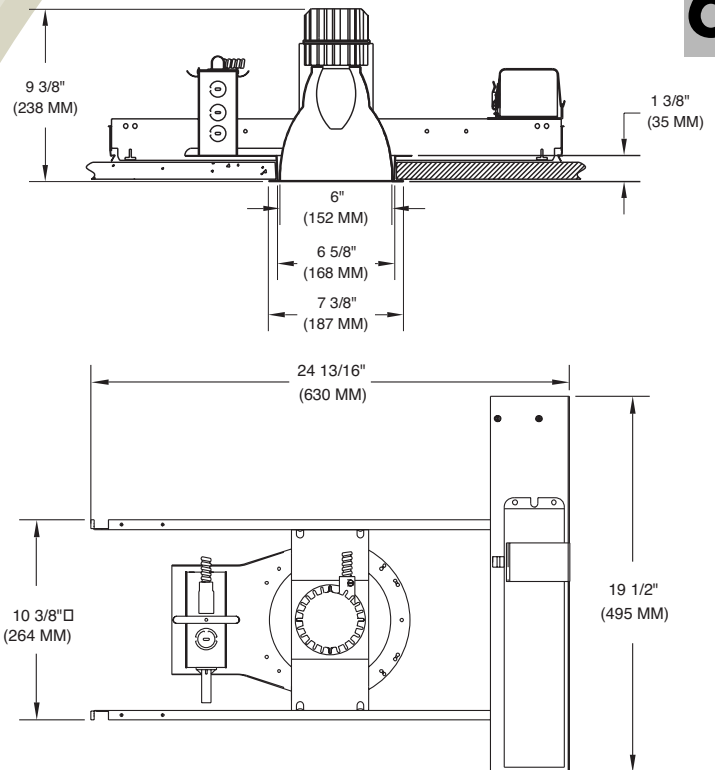
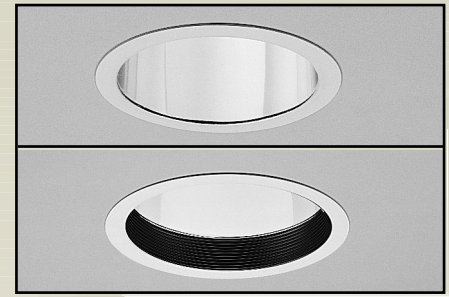
PRODUCT INFORMATION

Applications

A small aperture 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. For 27" flat bar hanger pair, specify FB accessory, ordered separately.
- 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. System wattage for 100W lamp including ballast: 125W.
- 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 with 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.



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

CATALOG SYSTEM AND OPTIONS

EXAMPLE OF COMPLETE CATALOG NUMBER: **OM6100ED17PMH-CS-120/277**

OMEGA Apr.	Lamp (by others)**	Lamp Type	Reflector Option	Reflector Finish*	Frame Options	Slope Ceiling Adapter Angle	Supply Voltage
OM6	100 ED17P 70 ED17P 50 ED17P	MH Metal Halide	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)	SA6 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: **OM6100ED17PMH-CS-FZ277**

OM6100ED17PMH-CS Photometric Data**Clear Specular Reflector**

Report Number: 20598

Lamp: (1) 100WMH

Total Lumens: 8000

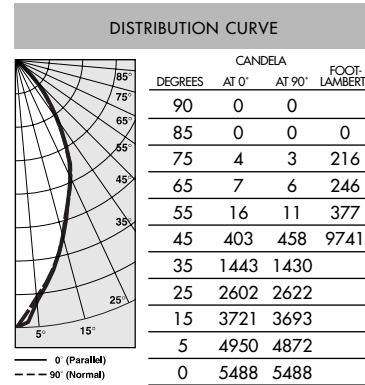
Fixture Efficiency: = 49.6%

IES File: F20598.IES

S/MH Ratio = 0.7, 0.7

Beam Angle: 47.59

LIGHTING PERFORMANCE DATA			
CEILING HEIGHT* (FT.)	INITIAL FOOTCANDLES	BEAM DIAMETER (FT.-IN.)	
8	181.4	4-10	
10	97.6	6-7	
12	60.8	8-5	
14	41.5	10-2	
16	30.1	11-11	

**COEFFICIENTS OF UTILIZATION ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20									
RC 80			70			50			
RW	50	30	50	30		50	30		
0	58	58	57	57		55	55		
1	55	54	54	53		52	51		
2	51	48	50	47		48	46		
3	47	45	46	45		46	44		
4	44	41	44	40		42	40		
5	40	39	40	38		40	38		
6	39	35	38	35		38	34		
7	36	34	35	33		35	33		
8	34	30	34	30		34	30		
9	32	28	32	28		32	28		
10	30	28	29	28		29	27		

OM6100ED17PMHBB-CS Photometric Data**Clear Specular Reflector with Black Baffle**

Report Number: 20597

Lamp: (1) 100WMH

Total Lumens: 8000

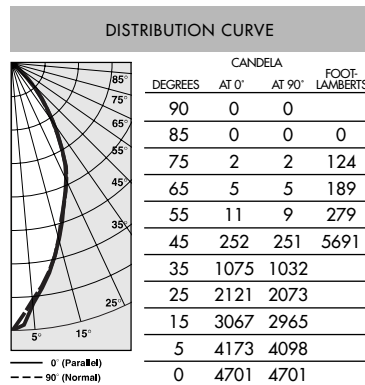
Fixture Efficiency: = 38.3%

IES File: F20597.IES

S/MH Ratio = 0.7, 0.6

Beam Angle: 43.85

LIGHTING PERFORMANCE DATA			
CEILING HEIGHT* (FT.)	INITIAL FOOTCANDLES	BEAM DIAMETER (FT.-IN.)	
8	155.4	4-5	
10	83.6	6-0	
12	52.1	7-8	
14	35.5	9-3	
16	25.8	10-10	

**COEFFICIENTS OF UTILIZATION ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20									
RC 80			70			50			
RW	50	30	50	30		50	30		
0	46	46	45	45		42	42		
1	41	41	41	40		40	39		
2	40	38	39	38		38	36		
3	36	34	35	34		34	34		
4	34	32	34	32		33	32		
5	32	29	32	29		30	29		
6	29	28	29	28		29	28		
7	28	26	28	26		28	26		
8	27	25	27	25		26	23		
9	26	23	25	23		25	23		
10	23	22	23	22		23	22		

OM670ED17PMH-CS Photometric Data**Clear Specular Reflector**

Report Number: 20593

Lamp: (1) 70WMH

Total Lumens: 4800

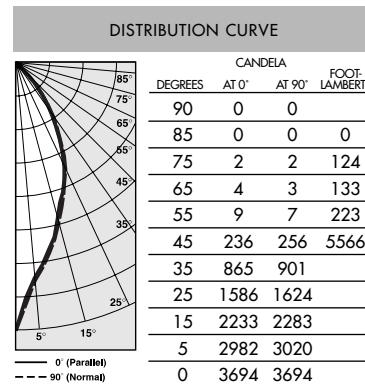
Fixture Efficiency: = 50.2%

IES File: F20593.IES

S/MH Ratio = 0.6, 0.6

Beam Angle: 42.08

LIGHTING PERFORMANCE DATA			
CEILING HEIGHT* (FT.)	INITIAL FOOTCANDLES	BEAM DIAMETER (FT.-IN.)	
8	122.1	4-3	
10	65.7	5-9	
12	40.9	7-4	
14	27.9	8-10	
16	20.3	10-5	

**COEFFICIENTS OF UTILIZATION ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20									
RC 80			70			50			
RW	50	30	50	30		50	30		
0	59	59	57	57		56	56		
1	56	54	54	53		52	52		
2	52	50	51	48		48	47		
3	47	46	46	45		46	44		
4	45	41	44	41		42	40		
5	41	39	41	39		40	38		
6	39	35	39	35		38	35		
7	36	34	36	34		35	34		
8	34	32	34	32		34	30		
9	33	29	33	29		32	29		
10	30	28	30	28		29	28		

OM670ED17PMHBB-CS Photometric Data**Clear Specular Reflector with Black Baffle**

Report Number: 20592

Lamp: (1) 70WMH

Total Lumens: 4800

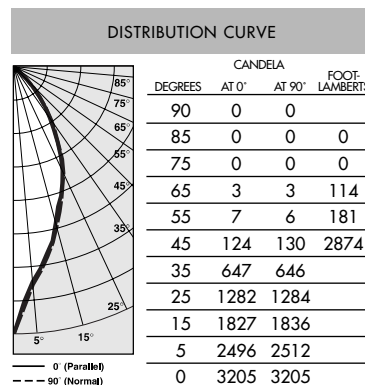
Fixture Efficiency: = 38.8%

IES File: F20592.IES

S/MH Ratio = 0.5, 0.6

Beam Angle: 37.03

LIGHTING PERFORMANCE DATA			
CEILING HEIGHT* (FT.)	INITIAL FOOTCANDLES	BEAM DIAMETER (FT.-IN.)	
8	106.0	3-8	
10	57.0	5-0	
12	35.5	6-4	
14	24.2	7-8	
16	17.6	9-1	

**COEFFICIENTS OF UTILIZATION ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20									
RC 80			70			50			
RW	50	30	50	30		50	30		
0	46	46	45	45		42	42		
1	42	41	41	40		40	40		
2	40	39	40	38		38	36		
3	38	35	36	34		35	34		
4	34	33	34	33		34	32		
5	33	30	33	30		32	29		
6	30	28	30	28		29	28		
7	28	27	28	27		28	26		
8	28	25	27	25		27	25		
9	26	23	26	23		25	23		
10	25	22	23	22		23	22		

*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

OMEGA
LIGHTING

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