

OM8250PAR38

8" PAR Downlights

CAT. NO:

TYPE:

PROJECT:

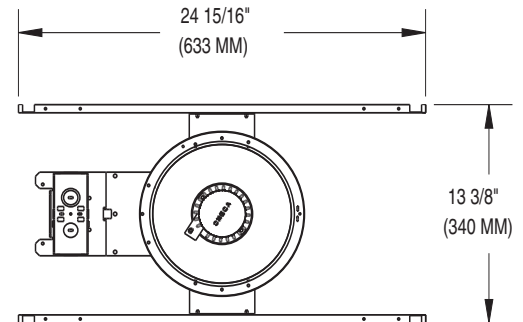
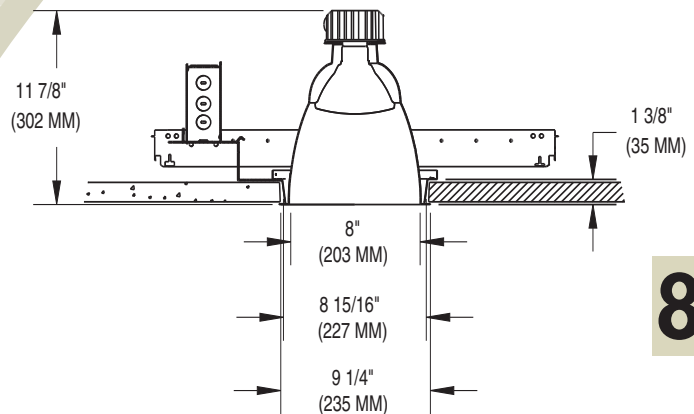
PRODUCT INFORMATION

Applications

A low brightness open reflector downlight for use with PAR38 incandescent lamps. Provides broad, uniform light distribution with high efficiency for general illumination of areas such as lobbies, reception areas, schools, restaurants, hotels 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. Yoke adjusts for proper positioning of lamp within reflector. Junction box and mounting brackets are accessible from below ceiling.
- Reflectors** - Precision spun .051 aluminum reflector, 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.
- Baffle** - Precision machined .051 aluminum with deep grooves to eliminate aperture glare, anodized matte black or matte white finish. Standard flat flange is painted white. Optional black flange available, add FF to catalog number.
- Socket enclosure** - Die cast aluminum heat sink, medium base 250V porcelain socket with nickel-plated copper screw shell and 200°C wire positions lamp at optical focal plane of reflector for maximum performance.
- 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: OM8250PAR38-CS

OMEGA Apr.	Lamp (by others)	Reflector Option	Reflector Finish*	Frame Options**	Slope Adapter Angle
OM8	250 PAR38	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)	FB Flat Bar Hangers SA8 Sloped Ceiling Adapter	5 10 15 20 25 30



FIVE YEAR
Warranty

*Consult factory for other reflector finishes.

OM8250PAR38-CS

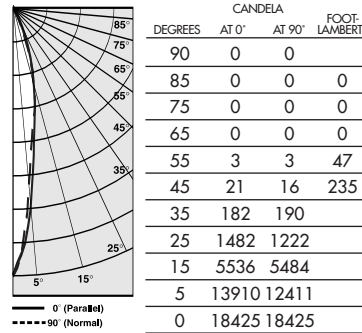
Photometric Data

Clear Specular Reflector - Spot

Report Number: 21655
 Lamp: (1) 250W PAR38/SP
 Total Lumens: 3370
 Fixture Efficiency: = 88%
 IES File: F21655.IES
 S/MH Ratio = 0.3, 0.3
 Beam Angle: 16.75

LIGHTING PERFORMANCE DATA		
CEILING HEIGHT* (FT.)	INITIAL FOOTCANDLES	BEAM DIAMETER (FT.-IN.)
8	609.1	1-7
10	327.6	2-2
12	204.2	2-10
14	139.3	3-5
16	101.1	3-12

DISTRIBUTION CURVE

COEFFICIENTS OF UTILIZATION
ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20								
RC	80		70		50		50	
RW	50	30	50	30	50	30	50	30
0	105	105	102	102	97	97		
1	98	97	96	95	93	93		
2	94	92	93	91	90	89		
3	91	86	89	86	86	84		
4	86	83	85	82	83	81		
5	83	80	82	80	81	79		
6	81	77	80	77	79	76		
7	78	75	78	73	77	73		
8	76	71	75	71	75	70		
9	72	69	72	69	71	68		
10	70	68	70	68	69	67		

OM8250PAR38-CS

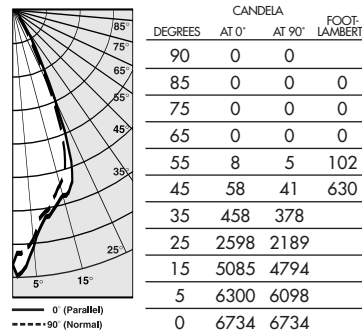
Photometric Data

Clear Specular Reflector - Flood

Report Number: 21654
 Lamp: (1) 250W PAR38/FL
 Total Lumens: 3370
 Fixture Efficiency: = 95.3%
 IES File: F21654.IES
 S/MH Ratio = 0.8, 0.7
 Beam Angle: 45.51

LIGHTING PERFORMANCE DATA		
CEILING HEIGHT* (FT.)	INITIAL FOOTCANDLES	BEAM DIAMETER (FT.-IN.)
8	222.6	4-7
10	119.7	6-3
12	74.6	7-12
14	50.9	9-8
16	36.9	11-4

DISTRIBUTION CURVE

COEFFICIENTS OF UTILIZATION
ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20								
RC	80		70		50		50	
RW	50	30	50	30	50	30	50	30
0	112	112	111	111	106	106		
1	107	105	105	103	105	103		
2	100	96	98	95	95	93		
3	94	91	89	84	86	82		
4	90	84	89	84	86	82		
5	84	81	84	80	82	79		
6	81	76	81	76	79	75		
7	77	72	77	71	76	71		
8	73	68	72	68	71	68		
9	70	66	69	66	68	65		
10	68	63	67	63	67	61		

OM8250PAR38BB-CS

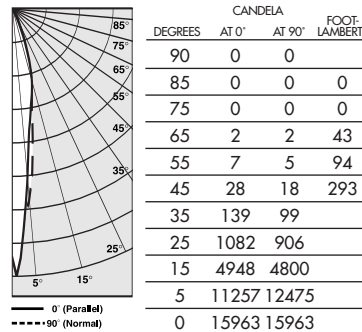
Photometric Data

Clear Specular Reflector with Black Baffle - Spot

Report Number: 21656
 Lamp: (1) 250W PAR38/SP
 Total Lumens: 3370
 Fixture Efficiency: = 84.2%
 IES File: F21656.IES
 S/MH Ratio = 0.3, 0.3
 Beam Angle: 18.15

LIGHTING PERFORMANCE DATA		
CEILING HEIGHT* (FT.)	INITIAL FOOTCANDLES	BEAM DIAMETER (FT.-IN.)
8	527.7	1-9
10	283.	2-5
12	176.9	3-0
14	120.7	3-8
16	87.6	4-4

DISTRIBUTION CURVE

COEFFICIENTS OF UTILIZATION
ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20								
RC	80		70		50		50	
RW	50	30	50	30	50	30	50	30
0	100	100	97	97	93	93		
1	94	93	93	92	90	89		
2	91	88	89	86	86	84		
3	86	83	85	82	82	81		
4	82	80	81	79	81	78		
5	80	77	79	76	78	75		
6	77	73	77	72	76	72		
7	75	70	73	70	72	69		
8	71	68	71	68	70	68		
9	69	67	69	66	68	66		
10	68	65	68	64	67	64		

OM8250PAR38BB-CS

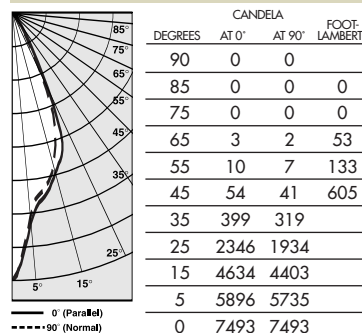
Photometric Data

Clear Specular Reflector with Black Baffle - Flood

Report Number: 21657
 Lamp: (1) 250W PAR38/FL
 Total Lumens: 3370
 Fixture Efficiency: = 87.1%
 IES File: F21657.IES
 S/MH Ratio = 0.6, 0.6
 Beam Angle: 40.58

LIGHTING PERFORMANCE DATA		
CEILING HEIGHT* (FT.)	INITIAL FOOTCANDLES	BEAM DIAMETER (FT.-IN.)
8	247.7	4-1
10	133.2	5-7
12	83.0	7-0
14	56.7	8-6
16	41.1	9-12

DISTRIBUTION CURVE

COEFFICIENTS OF UTILIZATION
ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20								
RC	80		70		50		50	
RW	50	30	50	30	50	30	50	30
0	104	104	101	101	96	96		
1	96	95	95	93	92	91		
2	92	89	90	88	88	84		
3	86	82	85	81	83	81		
4	81	78	81	78	80	76		
5	78	73	82	78	76	72		
6	75	69	73	69	72	68		
7	70	67	70	66	69	66		
8	68	64	68	63	67	63		
9	65	60	65	60	64	59		
10	61	57	61	57	60	57		

*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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