

# OM103H42PLTSPL

## 10" Splay Lens Reflector Horizontal Downlights

CAT. NO:

TYPE:

PROJECT:



### PRODUCT INFORMATION

#### Applications

A soft edged, lensed downlight for use with energy efficient compact fluorescent lamps. Provides broad, uniform light distribution while concealing lamp image and maintaining good visual cutoff. Ideal for areas such as lobbies, corridors, canopies, soffits, restaurants and offices.

#### Specifications

1. **Ballast** - Two (2) Type 1 Class P, high power factor universal voltage electronic compact fluorescent ballasts. Offer both 1 or 2 lamp operation for 120 through 277 volt input voltage.

	(3)32W 32W		(3)42W 42W	
	120V	277V	120V	277V
Line current amps	.90	.40	1.18	.50
Input watts including ballast loss	105	103	139	138
Ballast factor	1.00	1.00	.98	.98
Minimum starting temperature	0°F	0°F	0°F	0°F

2. **Mounting pan** - Precision die-stamped 16 gauge galvanized steel mounting pan and yoke assembly. Accommodates ceiling materials up to 1-3/8" thick.

3. **Installation** - Mounting pan has pre-installed C-channel with vertical and horizontal adjustments. Ballast and junction box are accessible from below ceiling. For 27" flat bar hanger pair, specify Q1031 accessory, ordered separately.

4. **Splay trim** - Spun aluminum regressed splay trim with white powder paint finish. Torsion spring mounting for ease of installation. Flat fresnel and prismatic lens for smooth, even distribution of light. Flat clear tempered lens for enclosed application.

5. **Baffle** - Precision machined .051 aluminum with deep grooves to minimize aperture glare, anodized matte black or matte white finish. Standard flat flange is painted white. Optional black flange available, add FF to catalog number.

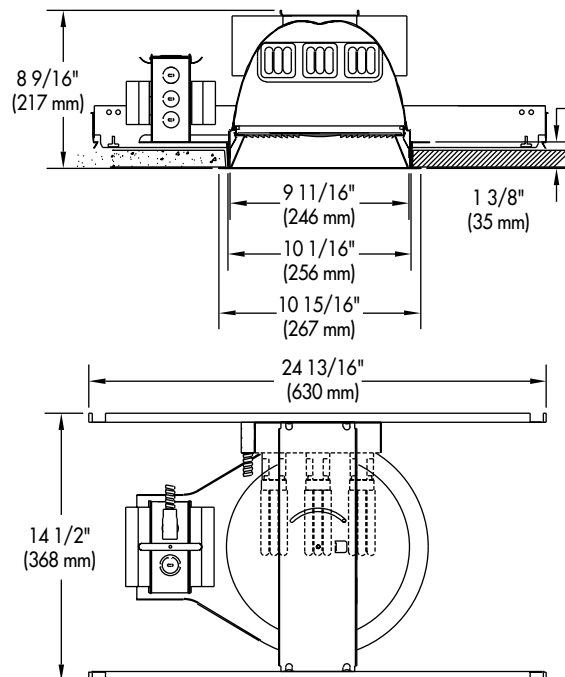
6. **Socket** - CFM42W/GX24q, CFM32W/GX24q, CFQ26W/G24q.

7. **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.

8. **Optional emergency system** - Emergency system includes battery, electronic circuitry, charger and test/monitor plate with test switch and charging indicator light. Test/monitor plate may be installed in the ceiling near fixture or other remote location. Operates one 26, 32 or 42 watt lamp for a minimum of 90 minutes following power failure. Emergency system complies with NFPA life safety code, OSHA and NEC. Suitable for dry locations.

9. **U.L. Listed** - For use in wet locations in covered ceiling applications only. Approved for Through Branch Circuit Wiring. I.B.E.W. union made.

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



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### CATALOG SYSTEM AND OPTIONS

OMEGA Aprtr.	No. of Lamps	Lamps Position	Lamp (by others)	Reflector Option
OM10	3	H	Horizontal	
			42 PLT Triple Tube CFL	SPL Splay Lens (white)
			32 PLT Triple Tube CFL	CSSPL Clear Specular
			26 QPL Triple Tube CFL	BBSPL Black Baffle
				BKSPL Splay Lens (black)

EXAMPLE OF COMPLETE CATALOG NUMBER: **OM103H42PLTSPL-FL-120/277**

Lens Option (required)	Options	Slope Ceiling Adapter Angle	Supply Voltage
FL Fresnel Lens	EM Emergency	5	120/277
PL Prismatic Lens	FZ120 Fusing	10	347 ✦
CL Clear Lens	FZ277 Fusing	15	
Poly Polycarbonate Lens	FZ347 Fusing	20	
	CP Chicago Plenum	25	
	Q1031 Flat Bar Hangers	30	
	SLD10 Sloped Ceiling Adpt.		
	DL1 Dimming, Lutron Compact SE, 120v		
	DL2 Dimming, Lutron Compact SE, 277v		
	DX1 Dimming, Advance Mark X, 120v		
	DX2 Dimming, Advance Mark X, 277v		
	CL Clear Lens		
	PL Prismatic Lens		
	FL Fresnel Lens		

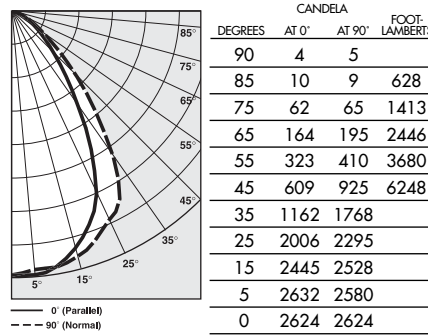
**OM103H42PLTSPL-FL Photometric Data**

**Fresnel Lens with White Regressed Splay**

Report Number: 23588  
 Lamp: (3) CFM42W  
 Total Lumens: 7600  
 Fixture Efficiency: = 41.6%  
 IES File: F23588.IES  
 S/MH Ratio = 0.8,1.0  
 Beam Angle: 73.12

LIGHTING PERFORMANCE DATA		
CEILING HEIGHT* (FT.)	INITIAL FOOTCANDLES	BEAM DIAMETER (FT.-IN.)
8	86.7	8 - 2
10	46.6	11 - 1
12	29.1	14 - 1
14	19.8	17 - 1
16	14.4	20 - 0

**DISTRIBUTION CURVE**



**COEFFICIENTS OF UTILIZATION ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80		70		50	
	50	30	50	30	50	30
0	48	48	47	47	46	46
1	45	44	44	42	41	40
2	40	39	40	38	39	36
3	36	34	35	34	34	33
4	34	30	33	30	32	29
5	30	28	30	28	29	27
6	28	25	28	25	27	25
7	26	23	26	23	25	23
8	23	20	23	20	23	20
9	23	20	23	20	22	20
10	20	17	20	17	20	17

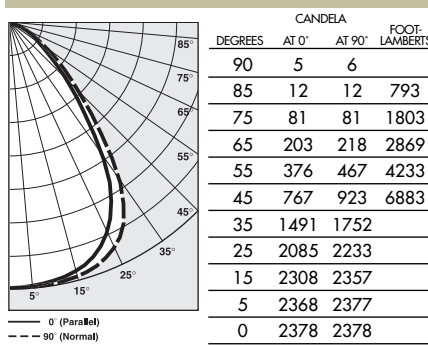
**OM103H42PLTSPL-PL Photometric Data**

**Prismatic Lens with White Regressed Splay**

Report Number: 23587  
 Lamp: (3) CFM42W  
 Total Lumens: 9600  
 Fixture Efficiency: = 44.3%  
 IES File: F23587.IES  
 S/MH Ratio = 1.2, 1.2  
 Beam Angle: 80.02

LIGHTING PERFORMANCE DATA		
CEILING HEIGHT* (FT.)	INITIAL FOOTCANDLES	BEAM DIAMETER (FT.-IN.)
8	78.6	9 - 3
10	42.3	12 - 7
12	26.3	15 - 11
14	18.0	19 - 4
16	13.0	22 - 8

**DISTRIBUTION CURVE**



**COEFFICIENTS OF UTILIZATION ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80		70		50	
	50	30	50	30	50	30
0	53	53	51	51	48	48
1	47	46	46	45	45	44
2	42	40	41	40	40	39
3	39	35	38	35	36	34
4	34	32	34	32	34	30
5	32	28	32	28	30	28
6	29	26	28	26	28	26
7	27	23	27	23	26	23
8	25	22	25	22	23	20
9	23	20	23	20	23	20
10	22	19	20	17	20	17

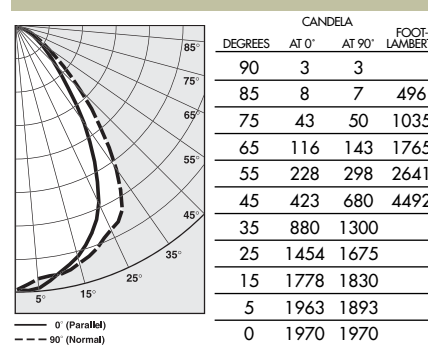
**OM103H32PLTSPL-FL Photometric Data**

**Fresnel Lens with White Regressed Splay**

Report Number: 23589  
 Lamp: (3) CFM32W  
 Total Lumens: 7200  
 Fixture Efficiency: = 40.2%  
 IES File: F23589.IES  
 S/MH Ratio = 1.0,1.2  
 Beam Angle: 72.43

LIGHTING PERFORMANCE DATA		
CEILING HEIGHT* (FT.)	INITIAL FOOTCANDLES	BEAM DIAMETER (FT.-IN.)
8	65.1	8 - 1
10	35.0	10 - 12
12	21.8	13 - 11
14	14.9	16 - 10
16	10.8	19 - 9

**DISTRIBUTION CURVE**



**COEFFICIENTS OF UTILIZATION ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80		70		50	
	50	30	50	30	50	30
0	47	47	46	46	45	45
1	44	41	42	40	40	40
2	39	36	39	36	36	35
3	35	33	34	33	34	32
4	33	29	32	29	30	28
5	29	27	29	27	28	26
6	28	25	27	23	27	23
7	26	23	25	22	25	22
8	23	20	23	20	23	20
9	22	19	22	19	20	19
10	20	17	20	17	20	17

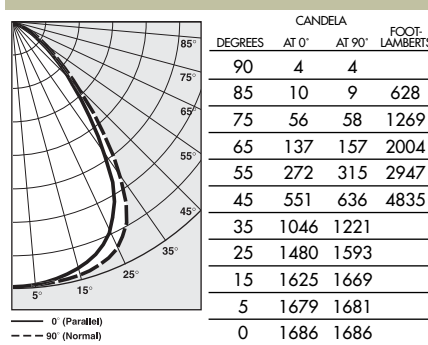
**OM103H32PLTSPL-PL Photometric Data**

**Prismatic Lens with White Regressed Splay**

Report Number: 23591  
 Lamp: (3) CFM32W  
 Total Lumens: 7200  
 Fixture Efficiency: = 40.8%  
 IES File: F23591.IES  
 S/MH Ratio = 1.2, 1.2  
 Beam Angle: 79.37

LIGHTING PERFORMANCE DATA		
CEILING HEIGHT* (FT.)	INITIAL FOOTCANDLES	BEAM DIAMETER (FT.-IN.)
8	55.7	9 - 2
10	30.0	12 - 5
12	18.7	15 - 9
14	12.7	19 - 1
16	9.3	22 - 5

**DISTRIBUTION CURVE**



**COEFFICIENTS OF UTILIZATION ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80		70		50	
	50	30	50	30	50	30
0	48	48	46	46	45	45
1	44	42	42	41	40	40
2	40	38	39	36	38	35
3	35	33	34	33	34	32
4	33	29	32	29	30	28
5	29	27	28	27	28	26
6	27	23	27	23	26	23
7	25	22	25	22	23	22
8	23	20	23	20	23	20
9	22	19	20	19	20	17
10	20	17	20	17	20	17

\*Readings at working plane, 2'6" above floor. Beam Angle and Diameter Cutoff at 50% of max. Candelpower 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](http://omegalighting.com)



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