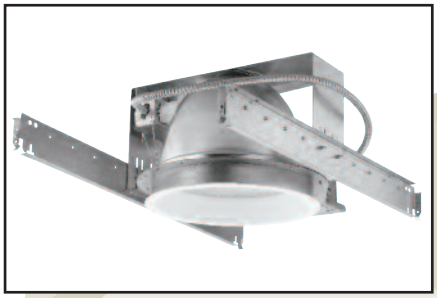
OM102H70QPLSPL

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** - One (1) Type 1 Class P, high power factor universal voltage compact fluorescent ballast. Offer either 1 or 2 lamp operation for 120 through 277 volt input voltage.

	(1) 57W 120V	57W 277V	(2) 57W 120V	57W 277V	(2) 70W 120V	70W 277V
Line current amps	.48	.21	.96	.42	1.20	.56
Input watts including ballast loss	58	57	116	114	1.56	1.52
Ballast factor	1.00	1.00	1.00	1.00	1.00	1.00
Minimum starting temperature	0°F	0°F	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.

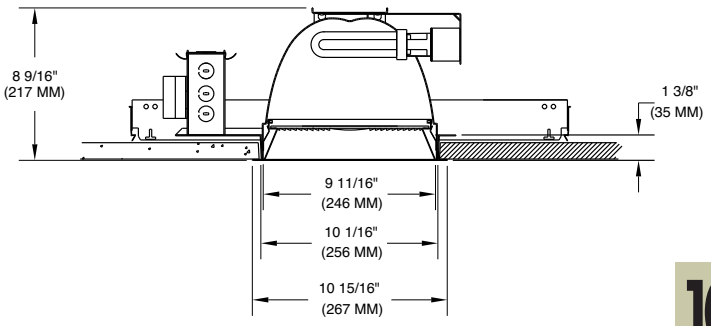
5. **Baffle** - Precision machined .051 aluminum with deep grooves to minimize aperture glare, anodized matte black or matte white finish. Standard flat flange is painted white. Optional black flange available, add FF to catalog number.

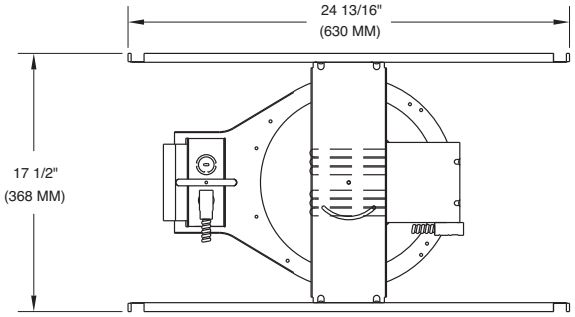
6. **Socket** - CFM57W/GX24q or CFQ70W/GX24q-6.

7. **Junction box** - Extra large 43.75-cubic inch 16 gauge galvanized steel with snap-on covers. Approved for through branch wiring with up to 8 #12 AWG conductors.

8. **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

EXAMPLE OF COMPLETE CATALOG NUMBER: **OM102H57PLTSPL-FL-120/277**

OMEGA Aptr.	No. of Lamps	Lamps Position	Lamp (by others)	Reflector Option	Lens Options (required)	Options	Supply Voltage	Accessories
OM10	1 2	H Horizontal	**70 QPL** Quad Tube CFL **57 PLT** Triple Tube CFL	**SPL** Splay Lens (white) **CSSPL** Clear Specular **BBSPL** Black Baffle **BKSPL** Splay Lens (black)	**FL** Fresnel Lens **PL** Prismatic Lens **CL** Clear Lens	**FZ120** Fusing **FZ277** Fusing **FZ347** Fusing **EMH** Emergency **DX1** Dimming Advance Mark X 120V **DX2** Dimming Advance Mark X 277V	**120/277** **347** ♣	**Q1031** Flat Bar Hangers **SLD10** Slope Ceiling Adapter[1]

made with pride in the United States of America

FIVE YEAR Warranty

1. Specify slope angle in 5° increments.

OM102H57PLTSPL-FL Photometric Data

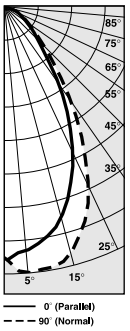
Fresnel Lens with White Regressed Splay

Report Number: 22378
Lamp: (2) CFM57W
Total Lumens: 8600
Fixture Efficiency: = 40.3%
IES File: 22378.IES
S/MH Ratio = 1.1, 0.9
Beam Angle: 68.23

LIGHTING PERFORMANCE DATA

CEILING HEIGHT* (FT.)	INITIAL FOOTCANDLES	BEAM DIAMETER (FT.-IN.)
8	78.5	7-5
10	42.2	10-2
12	26.3	12-10
14	18.0	15-7
16	13.0	18-4

DISTRIBUTION CURVE



DEGREES	CANDELA AT 0°	CANDELA AT 90°	FOOT-LAMBERTS
90	4	6	
85	8	14	727
75	62	70	1469
65	150	140	1976
55	273	241	2581
45	570	495	4338
35	1197	956	
25	1954	1565	
15	2408	2034	
5	2404	2276	
0	2375	2375	

COEFFICIENTS OF UTILIZATION ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80		70		50	
RW	50	30	50	30	50	30
0	47	47	46	46	45	45
1	44	41	42	41	40	40
2	40	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	27
6	28	25	27	25	27	23
7	26	23	25	23	25	22
8	23	20	23	20	23	20
9	22	19	22	19	22	19
10	20	17	20	17	20	17

OM102H57PLTSPL-PL Photometric Data

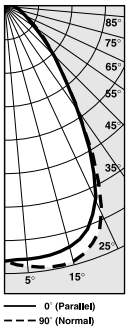
Prismatic Lens with Clear Specular Reflector

Report Number: 22379
Lamp: (2)CFM57W
Total Lumens: 8600
Fixture Efficiency: = 41.9%
IES File: 22379.IES
S/MH Ratio = 1.2, 1.1
Beam Angle: 73.94

LIGHTING PERFORMANCE DATA

CEILING HEIGHT* (FT.)	INITIAL FOOTCANDLES	BEAM DIAMETER (FT.-IN.)
8	72.8	8-3
10	39.1	11-3
12	24.4	14-4
14	16.6	17-4
16	12.1	20-4

DISTRIBUTION CURVE



DEGREES	CANDELA AT 0°	CANDELA AT 90°	FOOT-LAMBERTS
90	4	6	
85	10	17	3057
75	61	75	5185
65	154	164	7425
55	318	292	10494
45	623	604	17123
35	1263	1185	
25	2033	1884	
15	2249	2101	
5	2228	2161	
0	2201	2201	

COEFFICIENTS OF UTILIZATION ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80		70		50	
RW	50	30	50	30	50	30
0	50	50	48	48	46	46
1	45	44	44	42	42	41
2	40	39	40	38	39	36
3	36	34	36	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	22	20	22	19
10	20	17	20	17	20	17

OM101H57PLTSPL-FL Photometric Data

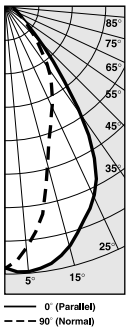
Fresnel Lens with Clear Specular Reflector

Report Number: F22369
Lamp: (1) CFM57W
Total Lumens: 4300
Fixture Efficiency: = 46.3%
IES File: 22369.IES
S/MH Ratio = 0.7, 0.8
Beam Angle: 47.44

LIGHTING PERFORMANCE DATA

CEILING HEIGHT* (FT.)	INITIAL FOOTCANDLES	BEAM DIAMETER (FT.-IN.)
8	66.3	4-10
10	35.6	6-7
12	22.2	8-4
14	15.2	10-1
16	11.0	11-10

DISTRIBUTION CURVE



DEGREES	CANDELA AT 0°	CANDELA AT 90°	FOOT-LAMBERTS
90	4	3	
85	8	9	1925
75	34	36	2669
65	85	73	3689
55	164	112	4748
45	340	172	7145
35	631	331	
25	911	940	
15	1366	1675	
5	1903	1960	
0	2005	2005	

COEFFICIENTS OF UTILIZATION ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80		70		50	
RW	50	30	50	30	50	30
0	55	55	54	54	51	51
1	50	49	49	48	47	46
2	46	44	45	43	44	42
3	43	39	41	39	40	38
4	39	36	38	35	37	35
5	36	33	35	32	34	32
6	33	30	33	30	32	29
7	31	28	31	28	30	27
8	29	26	29	26	28	25
9	27	24	27	24	26	24
10	25	22	25	22	25	22

OM101H57PLTSPL-PL Photometric Data

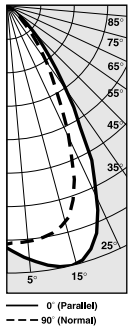
Prismatic Lens with Clear Specular Reflector

Report Number: 22370
Lamp: (1) CFM57W
Total Lumens: 4300
Fixture Efficiency: = 48.3%
IES File: 22370.IES
S/MH Ratio = 1.0, 1.0
Beam Angle: 67.57

LIGHTING PERFORMANCE DATA

CEILING HEIGHT* (FT.)	INITIAL FOOTCANDLES	BEAM DIAMETER (FT.-IN.)
8	48-5	7-4
10	26.1	10-0
12	16.3	12-9
14	11.1	15-5
16	8.0	18-1

DISTRIBUTION CURVE



DEGREES	CANDELA AT 0°	CANDELA AT 90°	FOOT-LAMBERTS
90	4	4	
85	7	10	562
75	33	42	835
65	90	85	1193
55	160	167	1642
45	324	319	2619
35	641	676	
25	1130	1188	
15	1396	1390	
5	1449	1438	
0	1467	1467	

COEFFICIENTS OF UTILIZATION ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80		70		50	
RW	50	30	50	30	50	30
0	56	56	56	56	54	54
1	52	51	51	50	48	47
2	46	45	46	44	45	42
3	42	40	41	40	40	39
4	39	35	39	35	38	34
5	35	33	35	32	34	32
6	33	29	33	29	32	28
7	30	27	30	27	29	27
8	28	25	28	25	28	25
9	27	23	27	23	26	23
10	25	22	25	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
Additional photometric test files are available @ omegalighting.com

omega LIGHTING

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