

DESCRIPTION

Recessed lens directional luminaire with 2 inch square regressed pinhole aperture utilizing a low voltage MR16 tungsten-halogen lamp. Modular platform can be reconfigured from below the ceiling to accept a broad range of lamp modules and optical elements. Platform is suitable for 2x6 residential or shallow plenum commercial construction. Insulation must be kept 3" from top and sides of housing. Platform + module + element combination supports various lamp beam spreads for desired optical distribution with excellent light control and low aperture brightness.

Catalog #		Type
Project		
Comments		Date
Prepared By		

SPECIFICATION FEATURES

Frame

Galvanized steel plaster frame with integral bar hanger receivers. Setscrews provide positive horizontal locking.

Collar

Matte black steel collar adjusts vertically for 1/2" - 1" thick ceilings and can be rotated +/- 75° thru the aperture. Integral gun sights facilitate the use of guide strings or laser lines. Shipped with a paint overspray protector installed in the collar.

Lamp Module

Installed or removed thru the aperture or from the top at 0°, 90°, 180° and 270° positions. Hot aiming rotates 365°, tilts 45° and locks in position using #2 Philips screwdriver. Translating center beam optics aligns axis of lamp with aperture as lamp translates from nadar to 45°.

Housing

Steel housing painted matte black for a visually dark interior. Removable hinged top allows for top access. All fasteners are captive.

Gaskets

Closed cell gaskets achieve restrictive airflow requirements without additional caulking.

Bar Hangers

Captive preinstalled bar hangers adjusts from 8-1/2" to 24" wide; pass thru feature allows shortening without removal. Captive nail penetrates standard and engineered lumber. Mounting flange levels platform with ceiling. Integral clip attaches directly to t-bar.

Butterfly Bracket

Provides 3" of vertical adjustment and accepts 1/2" EMT, C channel or bar hangers.

Splay

Diecast aluminum splay has truncated pyramid with regressed square aperture and integral glass lens. Lens can be removed to facilitate painting to match ceiling finish. Mousetrap type springs pull flange tight to ceiling. Light trap eliminates spill light at edge of flange. May also be installed flush to ceiling using optional plaster lathing ring. Provided with both straight and angle cut parabolic shielding cone, shipped with angle cut version installed.

Junction Box

(7) 1/2" trade size pry outs, (3) integral clamps for non-metallic cable. Rated for (8) #12 thru branch circuits. Wago® type push wire connectors for field connections.

Thermal Protector

Self-resetting thermal protector protects against improper lamping and direct contact with insulation.

Transformer

Integral dual output toroidal magnetic transformer, 120V 50/60Hz input, 12V nominal 75VA maximum output. Separate output for circuits controlled by dimmers compensates for losses in dimmers, improves color temperature and lumen output.

Lamp Capsule

Ceramic GX5.3 lamp holder mounts to an aluminum heat sink to dissipate heat. Connects to the transformer with electrical quick connects. Accepts 2 lenses, filters or optional lamp snoot.

Code Compliance

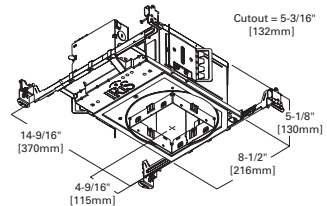
Thermally protected, IP labeled, cULus listed for protected wet locations and ASTM-E283 AIRTITE™.



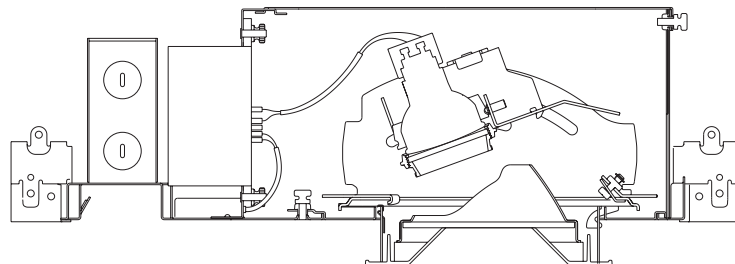
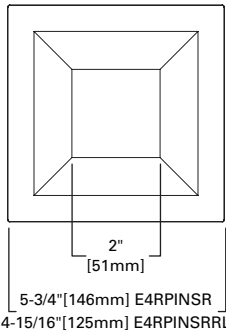
**P406TAT
MA4MR
E4RPINSR**

**75W MR16
Tungsten-Halogen**

**2 Inch Square Regressed Lens
Directional**



ENERGY DATA		
Lamp Wattage (Nominal)	Input Power (Watts)	Input Current (Amps)
20	21	0.17
35	37	.031
37	39	0.32
42	44	0.37
50	53	0.44
65	69	0.57
71	76	0.63
75	81	0.67



ORDERING INFORMATION: Complete unit consists of platform, lamp module and optical element.

Example: P406TAT + MA4MR + E4RPINSR

Platform	Lamp Module	Optical Element	Flange	Accessories
P406TAT = 4" Square Aperture Non-IC Housing P406TCP = 4" Square Aperture Non-IC Chicago Plenum Housing	MA4MR = MR16 Directional Lamp Module, 120V Input	E4RPINSR = 2" Square Aperture Regressed Pinhole, Lens	[Blank] = Self Flanged, Matte White Flange RL = Rimless, Matte White Flange	LSA16 = Matte black lamp snoot accessory L Series - Filter Media For MR16 lamps (See Accessories specification sheet) RA4X4 = Rimless adapter for 4" optical elements PLR4X4 = Plaster Lathing Ring (For Use With E4PINRL Only) RLA4X4 = Rimless Adapter (For Use With E4PINRL Only)

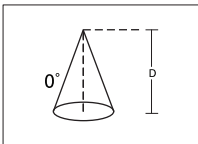
PHOTOMETRICS

P406TAT MA4MR E4RPINSR

Trim: **E4RPINSR**
Lamp: **42MR16VNSP9**

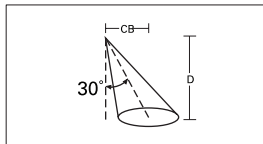


0° Horizontal Aiming



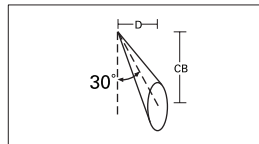
D	FC	Beam Diameter
8'	119	1.1'
9'	94	1.2'
10'	76	1.3'
13'	45	1.7'
15'	34	2.0'

30° Horizontal Footcandles



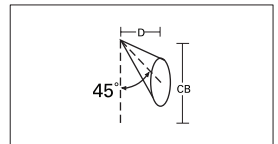
D	FC	L	W	CB
8'	72	1.7'	1.2'	4.6
9'	57	1.9'	1.3'	5.2
10'	46	2.1'	1.4'	5.8
13'	27	2.8'	1.9'	7.5
15'	21	3.2'	2.2'	8.7

30° Vertical Footcandles



D	FC	L	W	CB
2'	245	1.1'	0.6'	3.5
3'	109	1.6'	0.8'	5.2
4'	61	2.2'	1.1'	6.9
5'	39	2.7'	1.4'	8.7
6'	27	3.3'	1.7'	10.4

45° Vertical Footcandles

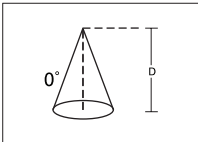


D	FC	L	W	CB
2'	514	0.6'	0.4'	2
3'	228	0.9'	0.5'	3
4'	128	1.3'	0.7'	4
5'	82	1.6'	0.9'	5
6'	57	1.9'	1.1'	6

Trim: **E4RPINSR**
Lamp: **50W MR16 IR SP10**

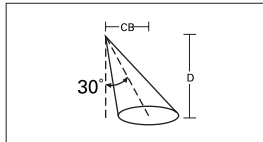


0° Horizontal Aiming



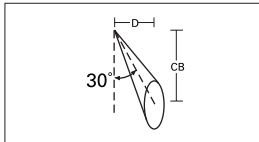
D	FC	Beam Diameter
8'	163	1.3'
9'	129	1.5'
10'	105	1.6'
13'	62	2.1'
15'	46	2.4'

30° Horizontal Footcandles



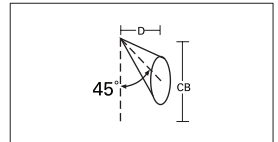
D	FC	L	W	CB
8'	94	1.9'	1.6'	4.6
9'	74	2.1'	1.8'	5.2
10'	60	2.4'	2.0'	5.8
13'	36	3.1'	2.6'	7.5
15'	27	3.5'	3.0'	8.7

30° Vertical Footcandles



D	FC	L	W	CB
2'	328	1.2'	0.7'	3.5
3'	146	1.9'	1.0'	5.2
4'	82	2.5'	1.3'	6.9
5'	53	3.1'	1.7'	8.7
6'	36	3.7'	2.0'	10.4

45° Vertical Footcandles

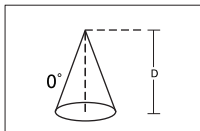


D	FC	L	W	CB
2'	655	0.7'	0.5'	2
3'	291	1.0'	0.8'	3
4'	164	1.4'	1.1'	4
5'	105	1.7'	1.4'	5
6'	73	2.1'	1.6'	6

Trim: **E4RPINSR**
Lamp: **65W MR16 25NFL**

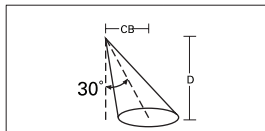


0° Horizontal Aiming



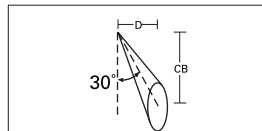
D	FC	Beam Diameter
8'	60	3.4'
9'	47	3.9'
10'	38	4.3'
13'	23	5.6'
15'	17	6.4'

30° Horizontal Footcandles



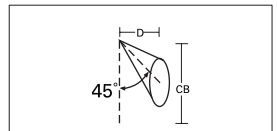
D	FC	L	W	CB
8'	36	4.2'	3.8'	4.6
9'	28	4.7'	4.3'	5.2
10'	23	5.2'	4.8'	5.8
13'	14	6.8'	6.2'	7.5
15'	10	7.8'	7.1'	8.7

30° Vertical Footcandles



D	FC	L	W	CB
2'	185	1.8'	1.3'	3.5
3'	82	2.7'	1.9'	5.2
4'	46	3.5'	2.6'	6.9
5'	30	4.4'	3.2'	8.7
6'	21	5.3'	3.9'	10.4

45° Vertical Footcandles

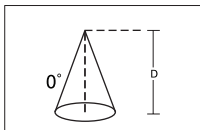


D	FC	L	W	CB
2'	309	1.2'	1.0'	2
3'	137	1.8'	1.6'	3
4'	77	2.4'	2.1'	4
5'	49	3.0'	2.6'	5
6'	34	3.6'	3.1'	6

Trim: **E4RPINSR**
Lamp: **71MR16 NFL**

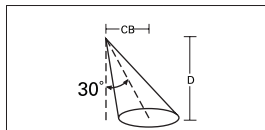


0° Horizontal Plane



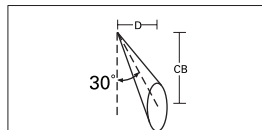
D	FC	Beam Diameter
8'	52	3.4'
9'	41	3.8'
10'	33	4.2'
13'	20	5.4'
15'	15	6.3'

30° Horizontal Plane



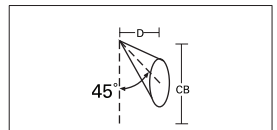
D	FC	L	W	CB
8'	34	3.9'	3.6'	4.6
9'	27	4.4'	4.1'	5.2
10'	22	4.9'	4.5'	5.8
13'	13	6.4'	5.9'	7.5
15'	10	7.4'	6.8'	8.7

30° Vertical Plane



D	FC	L	W	CB
2'	160	1.9'	1.3'	3.5
3'	71	2.9'	1.9'	5.2
4'	40	3.9'	2.5'	6.9
5'	26	4.8'	3.1'	8.7
6'	18	5.8'	3.8'	10.4

45° Vertical Plane



D	FC	L	W	CB
2'	269	1.2'	1.0'	2
3'	119	1.9'	1.6'	3
4'	67	2.5'	2.1'	4
5'	43	3.1'	2.6'	5
6'	30	3.7'	3.1'	6