

DESCRIPTION

Recessed downlight 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 direct contact with insulation and 2x8 residential construction. 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 +/- 7.5° 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 and allows lamp orientation at 0°, 90°, 180° and 270° positions.

Housing

Double wall aluminum housing painted matte black for a visually dark interior. 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.

Splay

Diecast aluminum splay has truncated pyramid with regressed square aperture providing minimal ceiling presence. Can be painted 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 rimless using optional plastering 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 (4) #12 thru branch circuits. Wago® type push wire connectors for field connections

Thermal Protector

Self-resetting thermal protector protects against improper lamping.

Transformer

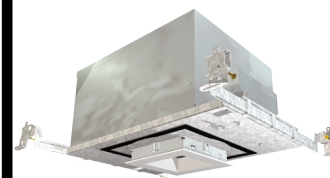
Integral dual output toroidal magnetic transformer, 120V 50/60Hz input, 12V nominal 75VA maximum output. Separate output for circuits controlled by dimmers compensates for losses in dimmers, improves color temperature and lumen output.

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

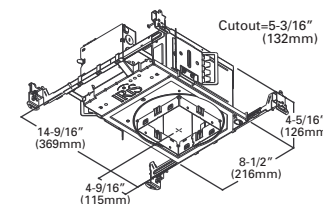
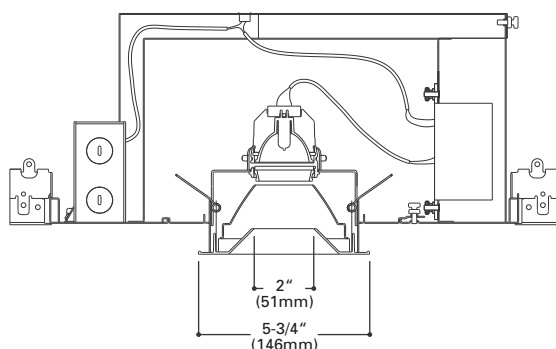
Thermally protected, IP labeled, cULus listed for damp locations and ASTM-E283 AIRTITE(tm). Suitable for direct contact with insulation.



**P408ICAT
MV4MR
E4RPIN
50W MR16**

Tungsten-Halogen

2 Inch Square Dowlight



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

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

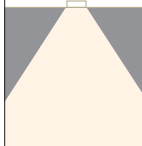
Platform	Lamp Module	Optical Element	Flange	Accessories
P408ICAT	MV4MR			
P408ICAT = 4" Square Aperture IC Housing	MV4MR = MR16 Vertical Lamp Module, 120V Input	E4RPIN = 2" Square Aperture Regressed Pinhole	Blank] = Self Flanged, Matte White Flange RL = Rimless, Matte White Flange	PLR4x4 = Plaster Lathing Ring (For Use With E4PINRL Only) RLA4x4 = Rimless Adapter (For Use With E4PINRL Only) LSA16 = Matte black lamp snoot accessory L Series - Filter Media For MR16 lamps (See Accessories specification sheet)

Photometrics

Photometric Results

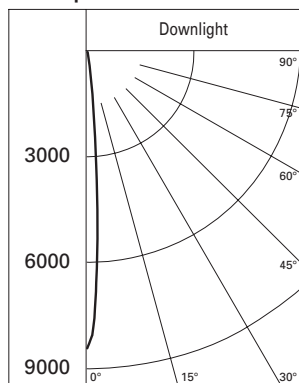
Spacing Criterion = .1
Efficiency = 41.3%

Test No. P10511
Platform = P406TAT
Element = E4RPIN
Lumens = 575
Lamp = 42MR16 VNSP9



42W
MR16

Candlepower Distribution



Candelas

Vertical Angle	CD
90	0
85	0
75	0
65	0
55	0
45	0
35	4
25	17
15	112
5	2694
0	8405

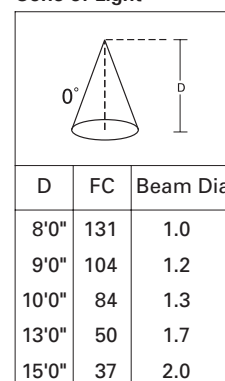
Zonal Lumens Summary

Zone	Lumens	% Lamp	% Luminaire
0- 30	234	40.8	98.8
0- 40	237	41.3	100
0- 60	237	41.3	100
0- 90	237	41.3	100
90-180	0	0	0
0-180	237	41.3	100

Coefficients of Utilization

Ceiling Wall % RCR	70 50 30 10		70 50 30 10		50 30 10		50 30 10		50 30 10		0	
	Zonal cavity method -- floor reflectance = 20%											
0	49	49	49	49	48	48	48	48	46	46	46	41
1	48	47	47	46	47	46	46	45	45	44	44	41
2	47	46	45	44	46	45	44	44	44	43	43	40
3	46	45	44	43	45	44	43	42	43	42	42	40
4	45	44	43	42	45	43	42	41	42	42	41	40
5	45	43	42	41	44	43	41	41	42	41	40	39
6	44	42	41	40	43	42	41	40	41	41	40	39
7	43	42	40	40	43	41	40	40	41	40	39	39
8	43	41	40	39	43	41	40	39	41	40	39	39
9	42	41	40	39	42	40	39	39	40	39	39	38
10	42	40	39	39	42	40	39	38	40	39	38	38

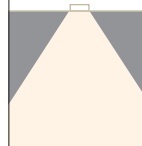
Cone of Light



Photometric Results

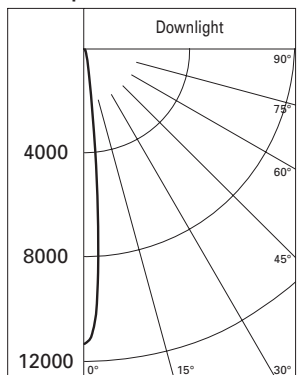
Spacing Criterion = .2
Efficiency = 39.8%

Test No. P10535
Platform = P406TAT
Element = E4RPIN
Lumens = 1320
Lamp = 50MR16 IR SP10



50W
MR16

Candlepower Distribution



Candelas

Vertical Angle	CD
90	0
85	0
75	0
65	0
55	0
45	0
35	12
25	73
15	360
5	5711
0	11325

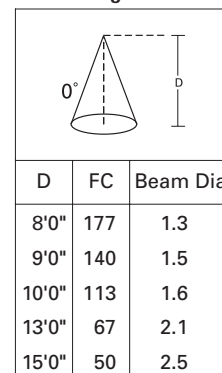
Zonal Lumens Summary

Zone	Lumens	% Lamp	% Luminaire
0- 30	517	39.2	98.4
0- 40	525	39.8	99.9
0- 60	526	39.8	100
0- 90	526	39.8	100
90-180	0	0	0
0-180	526	39.8	100

Coefficients of Utilization

Ceiling Wall % RCR	70 50 30 10		70 50 30 10		50 30 10		50 30 10		50 30 10		0	
	Zonal cavity method -- floor reflectance = 20%											
0	47	47	47	47	46	46	46	46	44	44	44	40
1	46	46	45	44	45	45	44	44	43	43	42	39
2	45	44	43	42	44	43	42	42	42	41	41	39
3	44	43	42	41	43	42	41	40	41	40	40	38
4	43	42	40	40	43	41	40	39	40	40	39	38
5	42	41	39	39	42	40	39	38	40	39	38	37
6	42	40	39	38	41	40	39	38	39	38	37	37
7	41	39	38	37	41	39	38	37	39	38	37	36
8	40	39	37	37	40	38	37	37	38	37	36	36
9	40	38	37	36	40	38	37	36	38	37	36	36
10	39	38	36	36	39	37	36	36	37	36	35	35

Cone of Light



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