

DESCRIPTION

Recessed 3.5" aperture lens wall wash utilizing a low voltage MR16 tungsten-halogen lamp. Suitable for 2x10 residential or commercial constructions, airtight and can be used in direct contact with insulation. Housing platform + optical element support various lamp beams providing desired optical distribution with excellent light control and low aperture brightness. Interchangeable optical elements provide design flexibility; luminaire can be changed from downlight, to accent to wall wash.

Catalog #		Type
Project		
Comments		Date
Prepared By		

SPECIFICATION FEATURES

Frame

Galvanized steel plaster frame with integral bar hanger receivers. Setscrews provide positive horizontal locking. Integral gun sights facilitate the use of guide strings or laser lines for accurate positioning. Shipped with an overspray protector installed.

Housing

Double wall housing provides for effective thermal management. Internal housing is painted matte black for a visually dark interior.

Bar Hangers

Bar hangers adjust 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 attached directly to tee-bar.

Gaskets

Closed cell gaskets achieve restrictive airflow requirements without additional caulking.

Adjustment Mechanism

Hot aiming rotates 365°, tilts 45° and locks in position. Angle markings assist in repeatable settings. Translating center beam optics aligns axis of primary reflector with aperture from nadir to 45°. Shipped set at nadir. Removable thru aperture for service. Optimum aiming angle is 20°.

Lamp Capsule

Retained in the adjustment mechanism with spring loaded ball catches, aim and focus is not disturbed during lamp replacement. Ceramic GX5.3 lamp holder mounts a die cast aluminum heat sink to dissipate heat and provide maximum lamp life. Connects to the transformer with electrical quick connect. Accepts 2 lenses, filters, or an optional lamp snoot.

Lower Reflector

Spun 0.04" thick aluminum angle cut parabolic contour provides cutoff to lens. Color neutral linear spread lens and MIRO kick reflector provides smooth vertical illumination with a minimal downlight component. Available with self-flange or metal trim ring. Light trap eliminates spill light at edge of trim ring and reflector. Metal trim ring can be removed for painting and can be installed flush mount with optional flush mount collar accessory. Keyed to adjustment mechanism preventing directional trims being installed incorrectly.

Trim Retention

Retained with two torsion springs holding the flange tightly to the finished ceiling surface and accommodates ceiling thickness from 1/2" - 1" thick. Optional PLE3 plaster lip extender accommodates up to 2" thick ceilings.

Junction Box

(6) 1/2" trade size pry outs positioned to allow straight conduit runs. 18 in3 internal volume supports up to (10) #12 or (14) #14 AWG 90° C conductors for pass thru or switch legs.

Transformer

Integral magnetic step down transformer, 120V 50/60Hz input, 12V, 50VA nominal output is greater than 90% efficient. Toroidal wound core is epoxy encapsulated providing extremely low noise and reliable operation.

Compliance

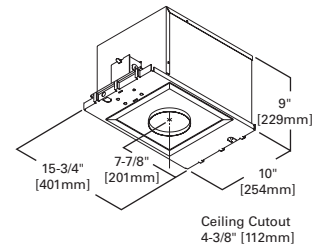
Type IC thermally protected, suitable for direct contact with insulation and cULus listed for wet locations. Restrictive airflow per ASTM-E283. Contains no mercury or lead and RoHS compliant.



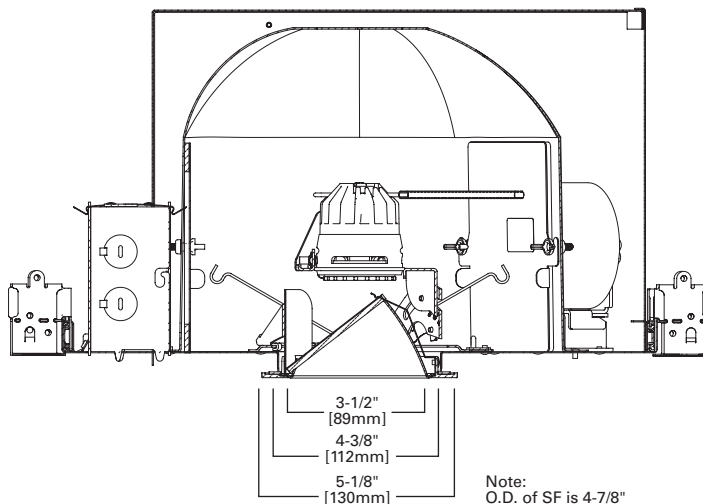
**P3MR
E3LWW**

**Lens Wall Wash
3.5" Aperture**

**50W MR16
Tungsten-Halogen**



Energy Data		
Lamp Wattage	Input Watts	Input Current
20	23	0.19
35	41	0.34
37	42	0.35
42	47	0.39
50	57	0.48



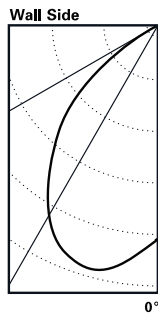
To learn more visit:
www.soraa.com/wws/fixtures
for recommended lamp ratings.

Housing	Optical Element	Finishes	Options	Accessories
<p>P3MR=3.5" aperture IC, AT low voltage 50W MR16 housing platform w/integral 120V transformer</p> <p>P3MRDR20=3.5" aperture IC, AT low voltage 20W MR16 housing platform w/integral 120V transformer</p> <p>P3MRDR35=3.5" aperture IC, AT low voltage 35W MR16 housing platform w/integral 120V transformer</p> <p>P3MRDR37=3.5" aperture IC, AT low voltage 37W MR16 housing platform w/integral 120V transformer</p> <p>P3MRREMOTE=3.5" aperture IC, AT low voltage MR16 housing platform for remote transformer</p>	<p>E3LWW=3.5" aperture lens wall wash reflector</p>	<p>Alzak Finishes C=Specular Clear H=Semi-Specular Clear G=Gold WMH=Warm Haze WH=Wheat WHH=Wheat Haze GP=Graphite GPH=Graphite Haze K=Cognac KH=Cognac Haze CC=Chocolate CCH=Chocolate Haze B=Black</p> <p>Painted Finishes MW=Matte white W=Gloss white</p>	<p>(Blank)=Metal trim ring, matte white SF=Self-flanged SFWF=Self-flanged, matte white flange</p>	<p>FMC3=Flush mount collar accessory PLE3=Plaster lip extender for up to 2" thick ceilings</p>

PHOTOMETRICS

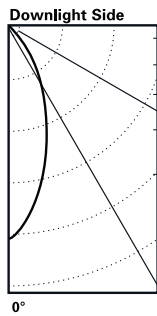
P3MR-E3LWWC

Test No. H21036
 Lamp: 50MR16/FL
 Lumens: 880
 Cutoff: 50°
 Spacing: 1.3
 Efficiency: 29.8%
 Unit LPW: 5.3



Candelas

CD Wall	Vertical Angle	CD Downlight
0	90	0
1	85	0
8	75	0
20	65	0
54	55	0
120	45	12
188	35	46
242	25	78
266	15	140
245	5	206
227	0	227



Luminance

Degree	cd/m² @ 180°
85°	493
75°	1189
65°	10787
55°	21005
45°	37991

Single Fixture 2' Distance from Wall

DD	1'	2'	3'	4'
1	6	3	1	0
2	15	8	2	1
3	12	8	4	1
4	7	6	3	2
5	5	4	3	1
6	3	3	2	1
7	2	2	2	1
8	2	2	1	1
9	1	1	1	1
10	1	1	1	1

1'6" Distance from Wall

DD	18" O.C.			24" O.C.		
	1	2	3	1	2	3
1	20	16	20	18	10	18
2	35	34	35	29	24	29
3	25	25	25	20	19	20
4	16	16	16	13	13	13
5	10	10	10	8	8	8
6	7	7	7	6	6	6
7	5	5	5	4	4	4
8	3	3	3	3	3	3
9	2	2	2	2	2	2
10	2	2	2	2	2	2

2'0" Distance from Wall

DD	24" O.C.			32" O.C.		
	1	2	3	1	2	3
1	7	6	7	6	4	6
2	19	18	19	16	12	16
3	19	19	19	15	13	15
4	14	14	14	11	11	11
5	10	10	10	8	8	8
6	7	7	7	6	6	6
7	5	5	5	4	4	4
8	4	4	4	3	3	3
9	3	3	3	2	2	2
10	2	2	2	2	2	2

2'6" Distance from Wall

DD	24" O.C.			32" O.C.		
	1	2	3	1	2	3
1	4	4	4	3	2	3
2	11	11	11	9	8	9
3	16	16	16	12	12	12
4	14	14	14	11	11	11
5	11	11	11	9	9	9
6	8	8	8	6	7	6
7	6	6	6	5	5	5
8	4	5	4	4	4	4
9	3	4	3	3	3	3
10	3	3	3	2	2	2

Notes and Formulas

- Illuminance values for multiple fixtures are based upon the center two units of a four unit array. Footcandle values are centerline of fixtures and centered between fixtures.
- Illuminance values are cosine corrected initial values with no contribution from inter reflections from other room surfaces. Total illumination may increase from contributions from other surfaces.
- DD=Distance Down from Ceiling.
- Changing fixture spacing will affect illuminance level.

$$\text{New Fc} = \frac{\text{Existing Spacing}}{\text{New Spacing}} \times \text{Average Table Fc Level}$$

For optimal wall washing, space fixtures equal to the distance from the wall.

