DESCRIPTION

Recessed 1.75" aperture directional lens pinhole luminaire 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.

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.

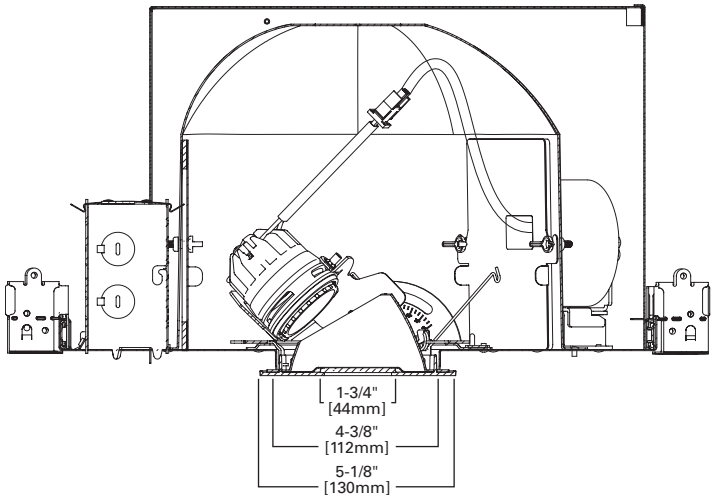
Splay
Die cast aluminum splay with 1.75" pinhole aperture and integral clear glass lens. Spun 0.04" thick black Alzak interior parabolic contour prevents view into housing.

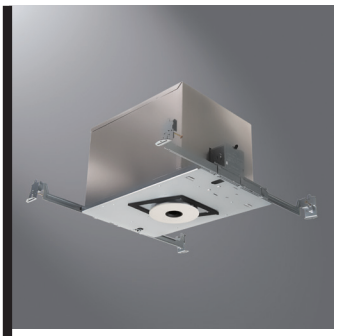
Trim Retention
Retained with two torsion springs holding the flange tightly to the finished ceiling surface and accommodates ceiling thickness from 1/2" - 1" thick. Optional PLE3 plaster lip extender accommodates up to 2" thick ceilings.

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.

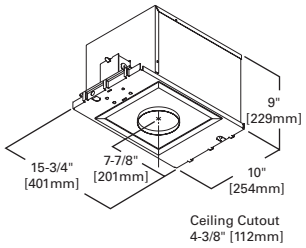




P3MR E3AASRPIN

Directional Lens Pinhole
1.75" Aperture

42W 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

WORKS WITH SORAA®

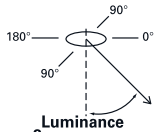
To learn more visit:
www.soraa.com/wws/fixtures
for recommended lamp ratings.

ORDERING INFORMATION

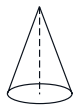
P3MR E3AASRPIN

Housing	Optical Element	Flange Style and Finish Options	Accessories
P3MR=3.5" aperture IC, AT low voltage 50W MR16 housing platform w/integral 120V transformer **P3MRDR20**=3.5" aperture IC, AT low voltage 20W MR16 housing platform w/integral 120V transformer **P3MRDR35**=3.5" aperture IC, AT low voltage 35W MR16 housing platform w/integral 120V transformer **P3MRDR37**=3.5" aperture IC, AT low voltage 37W MR16 housing platform w/integral 120V transformer **P3MRREMOTE**=3.5" aperture IC, AT low voltage MR16 housing platform for remote transformer	**E3AASRPIN**=1.75" aperture lens pinhole splay	**(Blank)**=Matte white die cast flange **POL**=Polished aluminum die cast flange **RAW**=Raw aluminum die cast flange **SAL**=Satin aluminum die cast flange	**PLE3**=Plaster lip extender for up to 2" thick ceilings **LSA16**=Matte black lamp snoot accessory, for use with die cast lamp capsule **LHEX**=2-inch diameter matte black hex cell louver provides 45° cutoff **LLNR**=Skytek linear spread lens **LSF**=Solite lens **LSPD**=Crystal #73 prismatic spread lens **LUV**=Ultraviolet reducing lens **L27K**=2,700°K dichroic filter **LLPINK**=Light Pink **LLSTRAW**=Light Straw **LDAY**=Daylight Filter **LPLAV**=Pale Lavender **LSPINK**=Surprise Pink

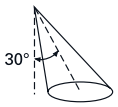
PHOTOMETRICS



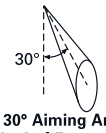
Luminance cd/m² @ Maximum Tilt



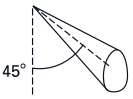
0° Aiming Angle Horizontal Footcandles



30° Aiming Angle Horizontal Footcandles



30° Aiming Angle Vertical Footcandles



45° Aiming Angle Vertical Footcandles

Lamp	Degree	@ 180 °	@ 90°	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
GE Q20 MR16/C/VNSP7	85°	0	0	6'	87	0.7	0.7	6'	38	0.8	0.9	3.5	2'	79	0.7	0.6	3.5	2'	172	0.4	0.4	2
	75°	0	0	8'	49	0.9	0.9	8'	22	1.1	1.2	4.6	3'	35	1.1	0.8	5.2	3'	76	0.6	0.6	3
Beam Spread: 7°	65°	0	0	10'	31	1.1	1.1	10'	14	1.4	1.5	5.8	4'	20	1.5	1.1	6.9	4'	43	0.8	0.7	4
CBCP: 7,400	55°	0	0	12'6"	20	1.4	1.4	12'6"	9	1.7	1.8	7.2	5'	13	1.8	1.4	8.7	5'	28	1	0.9	5
	45°	1152	1382	Test # H21233				Test # H21236					Test # H21236					Test # H21239				
	Test # H21230																					
OS Q37 MR16/IR/SP10	85°	0	0	5'0"	236	1.0	1.5	6'	87	1.8	1.6	3.5	2'	147	1.6	0.9	3.5	2'	329	1	0.7	2
	75°	0	0	7'6"	105	1.5	2.5	8'	49	2.4	2.2	4.6	3'	65	2.4	1.3	5.2	3'	146	1.4	1	3
Beam Spread: 10°	65°	0	0	10'0"	59	2.0	3.0	10'	31	3	2.7	5.8	4'	37	3.1	1.8	6.9	4'	82	1.9	1.3	4
CBCP: 13,100	55°	284	284	12'6"	38	2.5	4.0	12'6"	20	3.8	3.4	7.2	5'	24	3.9	2.2	8.7	5'	53	2.4	1.7	5
	45°	3225	2304	Test # H211258				Test # H21257					Test # H21257					Test # H21256				
	Test # H21250																					
GE Q42 MR16/C/VNSP	85°	1849	1849	6'	123	0.8	1.2	6'	64	1.3	1.3	3.5	2'	121	1.1	0.8	3.5	2'	246	0.6	0.6	2
	75°	623	623	8'	69	1	1.6	8'	36	1.7	1.7	4.6	3'	54	1.6	1.1	5.2	3'	109	0.9	0.9	3
Beam Spread: 9°	65°	381	381	10'	44	4.3	2	10'	23	2.1	2.1	5.8	4'	30	2.2	1.5	6.9	4'	61	1.2	1.2	4
CBCP: 12,500	55°	281	0	12'6"	28	1.6	2.5	12'6"	15	2.6	2.7	7.2	5'	19	2.7	1.9	8.7	5'	39	1.5	1.5	5
	45°	3190	2279	Test # H211207				Test # H21208					Test # H21208					Test # H21209				
	Test # H21210																					
PH Q45 MR16/IRC/SP8	Degree	@ 180°	@ 90°	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
	85°	0	15719	6'	171	1	1	6'	79	1.5	1.5	3.5	2'	159	1.3	0.8	3.5	2'	324	0.7	0.6	2
Beam Spread: 8°	75°	0	5293	8'	96	1.4	1.4	8'	45	2.1	2	4.6	3'	70	2	1.2	5.2	3'	144	1.1	1	3
CBCP: 16,00	65°	0	3242	10'	62	1.7	1.7	10'	29	2.6	2.5	5.8	4'	40	2.6	1.6	6.9	4'	81	1.4	1.3	4
	55°	0	2389	12'6"	39	2.2	2.2	12'6"	18	3.2	3.1	7.2	5'	25	3.3	2	8.7	5'	52	1.8	1.6	5
	45°	0	0	Test # H21224				Test # H21225					Test # H21225					Test # H21226				
	Test # H21226																					
GE Q50 MR16/C/NSP15	Degree	@ 180°	@ 90°	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
	85°	1869	1869	6'	154	1.3	1.3	6'	82	1.7	1.7	3.5	2'	171	1.4	0.9	3.5	2'	345	0.8	0.7	2
Beam Spread: 15°	75°	629	629	8'	87	1.8	1.8	8'	46	2.3	2.3	4.6	3'	76	2.1	1.4	5.2	3'	153	1.2	1	3
CBCP: 9,500	65°	385	385	10'	56	2.2	2.2	10'	30	2.8	2.8	5.8	4'	43	2.8	1.8	6.9	4'	86	1.6	1.3	4
	55°	284	284	12'6"	36	2.8	2.8	12'6"	19	3.5	3.5	7.2	5'	27	3.5	2.3	8.7	5'	55	2	1.7	5
	45°	3916	1152	Test # H21242				Test # H21247					Test # H21247					Test # H21248				
	Test # H21244																					
GE Q50 MR16/C/NFL25	Degree	@ 180 °	@ 90°	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
	85°	0	1847	6'	73	1.8	1.8	6'	38	2.6	2.3	3.5	2'	78	2.1	1.3	3.5	2'	148	1.1	1	2
Beam Spread: 25°	75°	0	622	8'	41	2.4	2.4	8'	22	3.4	3.1	4.6	3'	35	3.2	1.9	5.2	3'	66	1.7	1.5	3
CBCP: 3,000	65°	0	381	10'	26	3	3	10'	14	4.3	3.9	5.8	4'	20	4.3	2.5	6.9	4'	37	2.3	1.9	4
	55°	281	281	12'6"	17	3.8	3.8	12'6"	9	5.4	4.9	7.2	5'	13	5.3	3.2	8.7	5'	24	2.8	2.4	5
	45°	7059	1366	Test # H21188				Test # H21197					Test # H21197					Test # H21196				
	Test # H21195																					
GE Q50 MR16/C/FL40	Degree	@ 180°	@ 90°	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
	85°	0	1847	6'	38	3.2	2.5	6'	22	3.1	3	3.5	2'	75	2	1.4	3.5	2'	101	1.6	1.3	2
Beam Spread: 40°	75°	622	622	8'	21	4.2	3.4	8'	13	4.1	4	4.6	3'	33	3	2.1	5.2	3'	45	2.4	1.9	3
CBCP: 1,700	65°	381	381	10'	14	5.3	4.2	10'	8	5.2	5.1	5.8	4'	19	4.1	2.8	6.9	4'	25	3.2	2.6	4
	55°	842	281	12'6"	9	6.6	5.3	12'6"	5	6.5	6.3	7.2	5'	12	5.1	3.5	8.7	5'	16	4	3.2	5
	45°	14345	1822	Test # H21206				Test # H21205					Test # H21205					Test # H21204				
	Test # H21198																					