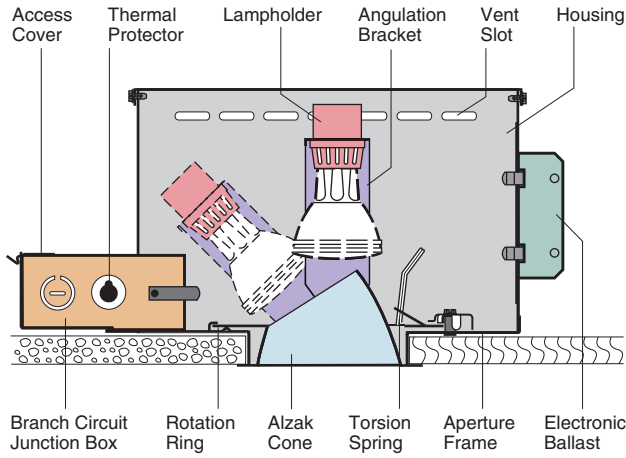


R7408

Directional
39W PAR- 20 Metal Halide
4 1/8" Aperture



Optics and Applications

For PAR-20 medium base lamps in spot or flood distributions. See back of page for specific performance characteristics. The shielding cone has a tilted axis to control brightness, even at maximum lamp angulation.

Design Features

The lamp-reflector assembly rotates 360°, tilts 45° and locks in any selected position. The lamp is always oriented to the center of the cone regardless of tilt or rotation. Maximum ceiling thickness 7/8". Top or bottom service.

Finish

A specular clear Alzak cone is standard. Optional colors and Softglow® finishes are available. Housing and structural parts are painted optical matte black to suppress stray light leaks.

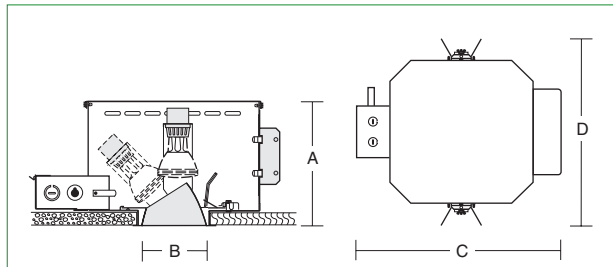
Ballast

Electronic metal halide ballasts provide more constant lumen and wattage output. They feature thermal protection with auto reset, fast restrike, quiet operation and automatic shutdown at end of life.

General

Fixtures are pre-wired and thermally protected, UL and C-UL listed for eight wire 75°C branch circuit wiring. Union made IBEW. Luminaire Efficiency Ratings (LER) do not apply to fixtures using reflector type lamps.

Dimensions and Lamps



Number	A Depth	B Aperture	C Width	D Length	Lamps
R7408*	7 1/2" 191mm	4 1/8" 105mm	16 3/4" 426mm	16 3/4" 426mm	39W PAR-20 MH Spot or Flood

*To specify add voltage for proper ballast, e.g. R7408-39277.

Accessories

- F Ballast fuse.
- B Specular black cone.
- G Specular gold cone.
- H Specular mocha cone.
- P Specular graphite cone.
- T Specular titanium cone.
- W Specular wheat cone.
- Y Specular pewter cone.
- Z Specular bronze cone.
- S Softglow® finishes: add S before color letters. e.g. SW for Softglow® wheat cone, SC for Softglow® clear cone.
- R2 26" support rails.
- R5 52" support rails.
- WT White trim flange.
- WHT White complete trim.
- HL Hexcell louver.†
- LL Linear lens.†
- LP Large prism lens.†
- MP Microprism lens.†
- TLI Emergency 60W lamp.

- FF20-8 Accessory holder for PAR-20. Tilts from 25° to 40°. Holds two accessories. Not available with EC or AO.
- FR Frosted lens. Example LLFR for linear lens frosted.†
- EC Emergency circuit with mini-can socket and leads.*
- V347 347 volt ballast, magnetic only.
- AOE1 Electronic ballast Auto-On restrike system 120V.*
- AOE2 Electronic ballast Auto-On restrike system 277V.*
- STC Straight top cone.

For color filters, pattern control lenses, light block screens, UV filters and other accessories, contact the factory.

*Use open rated 60W max. auxiliary incandescent lamp.

†Requires accessory holder.

Matching Units

- Downlights Pages R1, C1, C2, P50
- Lens wall washers Pages R31, E1, K4, P60
- Other directionals Pages C21, K3
- Low voltage downlight Page K2



Kurt Versen Company Point Source Lighting
 Westwood, New Jersey 07675

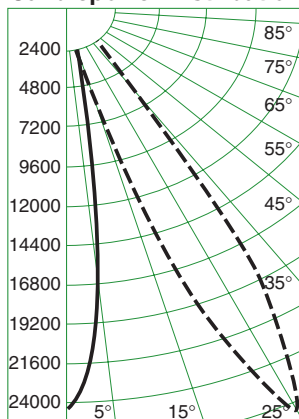
R2 R7408

Footcandle Values at Nadir

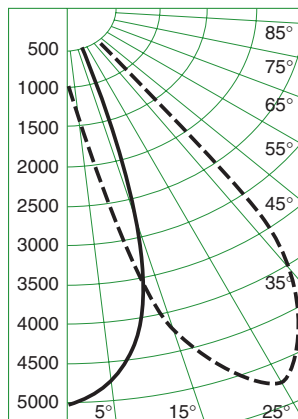
Distance	10'			15'			20'			25'										
	Nadir	5°	10°	Nadir	5°	10°	Nadir	5°	10°	Nadir	5°	10°								
Lamps	FC	FC	Diam	FC	FC	Diam	FC	FC	Diam	FC	FC	Diam								
R7408 39W PAR-20 FL MH	50	47	2'	41	4'	22	21	3'	18	5'	13	12	3'	10	7'	8	7	4'	7	9'
R7408 39W PAR-20 SP MH	242	153	2'	66	4'	107	68	3'	29	5'	60	38	3'	16	7'	39	24	4'	10	9'

See note 4.

Candlepower Distribution



R7408 39W PAR-20 SP MH
Eff. 76% S/M .24



R7408 39W PAR-20 FL MH
Eff. 64% S/M .55

Candelas at Nadir

°	39W SP	39W FL
	2300*	2300*
0	24170	5012
5	15481	4732
10	6859	4299
15	1085	3080
20	248	1074
25	75	432
30	9	184
35	0	39
40	0	8
45	0	0
50	0	0
55	0	0
60	0	0
65	0	0
70	0	0
75	0	0
80	0	0
85	0	0
90	0	0

° Vertical Angles

* Initial Lamp Lumens

Brightness

Number	Lamps	85°	75°	65°	55°	45°
R7408	39W PAR-20 SP MH	3	12	20	34	90
	39W PAR-20 FL MH	4	15	25	39	104

Data in footlamberts. Photometer readings, Maximum Brightness Method. See note 5. Data collected with lamps tilted 25°.

Notes

- 1 Data derived with a clear specular cone.
- 2 Colored cone multipliers vary with lamp source, beam orientation and degree of angulation. Contact the factory for specific data.
- 3 Candlepower distribution curves: solid lines show horizontal distribution at nadir, dotted lines show horizontal distribution at 25° lamp tilt.
- 4 Degree headings measure one side from nadir. Diameter data includes both sides. Therefore the 5° column describes a total 10° pattern diameter. Footcandle values are at the diameter edge. Values are determined with lamp tilt at 0°. Angulation changes all data.
- 5 Brightness data from the Average Luminance Method are inaccurate for downlights. They are theoretical calculations for large surfaces such as troffer lenses. We recommend the stricter standard of Maximum Brightness Method point data from direct photometer readings. They approximate what the human eye perceives when evaluating glare. For more information refer to Z section brochure Z1.