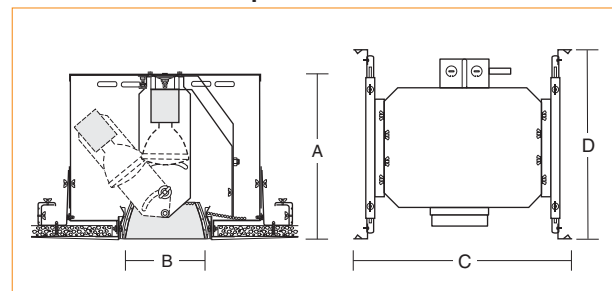


**Dimensions and Lamps**



Number	A Depth	B Aperture	C Width	D Length	Lamp
H8402FM	9" 229mm	4 1/2" sq. 114mm	19 7/8" 505mm	14 1/4" 362mm	20 or 39W PAR-20 Metal halide

To specify, add watts and volts for proper ballast, e.g. H8402FM-39277.

**H8402FM**

**Flush Mount Directional Downlight**  
**20 or 39W PAR-20 Metal Halide Lamp**  
**4 1/2" Square Parabolic Trim**

**Flush Mount**

Kurt Versen's flush mount fixtures eliminate overlapping flanges and lock into the ceiling for a unique, finished appearance. A clean, uncluttered ceiling emphasizes the attention to detail. It is a factory installed option with a proven installation technique.

**Optics and Applications**

Spot and Flood PAR-20 MH lamps are available. The trim incorporates parabolic contours for brightness control.

**Design Features**

The lamp assembly rotates 360°, tilts 40° and locks in the selected position. Flush mount design resists cracking and chipping by mechanically fastening fixture to drywall. To simplify installation, three adjustment mechanisms adapt the fixture to ceiling conditions. Adjustable mounting rails fit different support systems and accommodate ceiling thicknesses from 3/8" to 7/8". Maximum extension is 26". Top or bottom service.

**Finish**

Housing is optical matte black. Standard trim is Softglow® clear. Other colors and finishes are available.

**Ballast**

Integral, enclosed, electronic ballast is standard. Features quiet operation, thermal protection and lamp shutdown at end of life. Input voltage is 120V or 277V, power factor >.90.

**General**

Fixture is pre-wired and thermally protected, UL and C-UL listed for damp location and eight wire 75°C branch circuit wiring. Union made IBEW.

**Accessories**

- SB Softglow black.
- SG Softglow gold.
- SH Softglow mocha.
- SP Softglow graphite.
- ST Softglow titanium.
- SW Softglow wheat.
- SY Softglow pewter.
- SZ Softglow bronze.
- FR Frosted lens.\*
- WR White trim return.
- FMW Flush mount wood, contact the factory.
- FF20-2 Accessory holder. Holds two accessories.
- FLT4 Full lens trim, specify lens type, e.g. H8402FM-FLT4LL.
- V347 347 volt ballast, contact factory.
- EC Emergency circuit with mini-can socket and leads.\*\*
- TLI Emergency 60W incandescent lamp.
- AOE1 Electronic ballast Auto-On restrike system 120V.\*\*
- AOE2 Electronic ballast Auto-On restrike system 277V.\*\*
- \*Requires FF20-2 accessory holder.
- \*\*Use open rated 60W max. auxiliary incandescent lamp.
- WHT White complete trim.
- BR Bright trim finish.
- HL Hexcell louver.\*
- HD Hood.\*
- UV Ultraviolet filter.\*
- LS Lamp shield.\*
- LL Linear spread lens.\*
- LP Large prism lens.\*
- MP Microprism lens.\*
- F Ballast fuse.

**Matching Square Units**

Downlights  
 Wall washers

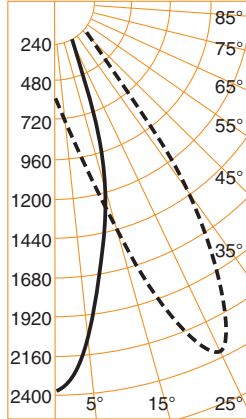
Section FMH 4  
 Section FMH 6

# FMH H8402FM 5-3

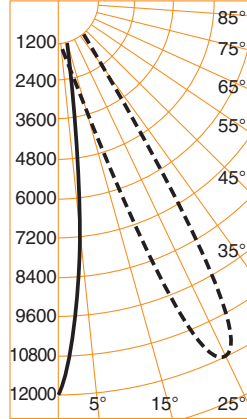
## Footcandle Values at Nadir

Distance	5'						10'			15'			20'				
	Nadir		10°	15°	Nadir		10°	15°	Nadir		10°	15°	Nadir		10°	15°	
Lamps	FC	FC Diam	FC	Diam	FC	Diam	FC	Diam	FC	FC Diam	FC Diam	FC	FC Diam	FC Diam	FC	FC Diam	FC Diam
H8402FM 20W PAR-20 FL MH	95	61 2'	43	3'	24	15 4'	11	5'	11	7 5'	5 8'	6	4 7'	3	11'		
H8402FM 20W PAR-20 SP MH	480	145 2'	19	3'	120	36 4'	5	5'	53	16 5'	2 8'	30	9 7'	1	11'		
H8402FM 39W PAR-20 FL MH	238	151 2'	107	3'	60	38 4'	27	5'	26	17 5'	12 8'	15	9 7'	7	11'		
H8402FM 39W PAR-20 SP MH	1117	321 2'	40	3'	279	80 4'	10	5'	124	36 5'	4 8'	70	20 7'	3	11'		

## Candlepower Distribution



H8402FM 20W PAR-20 FL MH  
Eff. 62% S/M .48



H8402FM 20W PAR-20 SP MH  
Eff. 84% S/M .21

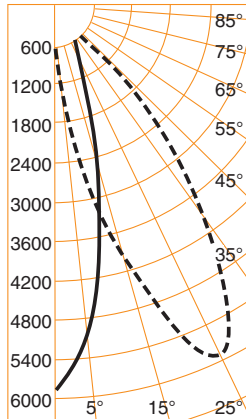
## Candelas

	FL 25°	SP 8°
o	1000*	1000*
0	2380	12012
5	2018	6873
10	1584	3617
15	1192	475
20	486	93
25	284	31
30	82	3
35	22	0
40	6	0
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

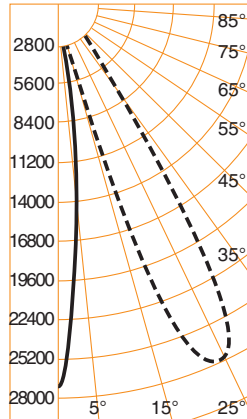
o Vertical Angles  
\* Initial Lamp Lumens

## Notes

- All data with standard trim, Softglow® clear.
- Candlepower distribution curves: solid lines show horizontal distribution at nadir, dotted lines show horizontal distribution at 25° lamp tilt.
- Pattern diameters are determined from each side of nadir with 0° lamp tilt. The diameter includes both sides, so a diameter represents a total 20° pattern width at the floor. Footcandles are measured at the diameter edge. Tilting the lamp changes all data.



H8402FM 39W PAR-20 FL MH  
Eff. 67% S/M .48



H8402FM 39W PAR-20 SP MH  
Eff. 85% S/M .21

	FL 30°	SP 10°
o	2300*	2300*
0	5950	27935
5	5044	15985
10	3966	8419
15	2975	1105
20	1215	224
25	701	70
30	203	9
35	55	0
40	9	0
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

o Vertical Angles  
\* Initial Lamp Lumens

## Brightness

Number	Lamps	85°	75°	65°	55°	45°
H8402FM	20W MH PAR-20 FL	1	5	9	21	68
	20W MH PAR-20 SP	1	4	8	14	47
	39W MH PAR-20 FL	3	12	21	47	156
	39W MH PAR-20 SP	3	10	18	34	101

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