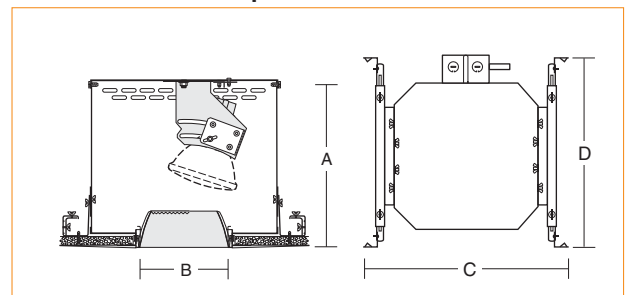


**Dimensions and Lamps**



| Number  | A Depth          | B Aperture      | C Width          | D Length         | Lamps*                          |
|---------|------------------|-----------------|------------------|------------------|---------------------------------|
| H8638FM | 11 1/2"<br>293mm | 6" sq.<br>153mm | 19 1/2"<br>496mm | 15 3/8"<br>391mm | 50-75W PAR-30<br>45-120W PAR-38 |

\*For 250W PAR-38 lamp contact the factory.

**H8638FM**

**Flush Mount Directional Downlight**  
**PAR-30, PAR-38 Lamps**  
**6" 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, enhancing the impact of the interior environment. It is a factory installed option with a proven installation technique.

**Optics and Applications**

For PAR spot or flood lamps. The parabolic trim contour controls brightness, even at maximum lamp angulation.

**Design Features**

The lamp assembly rotates 360°, tilts 35° and locks in the selected position. It accepts two accessories. A vented steel housing protects internal components. 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 and structural parts are painted matte black to suppress stray light leaks. Standard trim is anodized Softglow® clear. Other finishes and colors are available.

**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.
- WR White trim return.
- WHT White complete trim.
- FR Frosted lens, specify lens type.\*
- FLT6 Full lens trim, specify lens type, e.g. H8638FM-FLT6LL.
- FMW Flush mount wood, contact the factory.
- WRL Wattage restriction label, specify wattage.
- FF30-2 Accessory holder for PAR-30. Holds two accessories.
- FF38-1 Accessory holder for PAR-38. Holds one accessory.
- FF38-2 Accessory holder for PAR-38. Holds two accessories.

- 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.\*
- DP Fixed downlight position.

**Matching Square Units**

- Downlights [Section FMH 4](#)
- Wall washers [Section FMH 6](#)

# FMH H8638FM

## 5-5

### Footcandle Values at Nadir

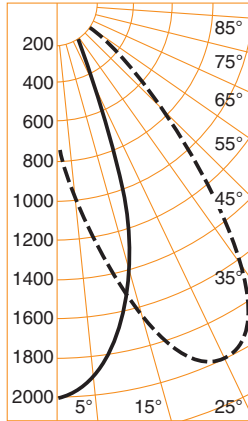
| Distance                | 10'   |     |      | 15'   |     |      | 20'   |     |      | 25'   |     |      |    |    |      |   |     |
|-------------------------|-------|-----|------|-------|-----|------|-------|-----|------|-------|-----|------|----|----|------|---|-----|
|                         | Nadir | 10° | 15°  | Nadir | 10° | 15°  | Nadir | 10° | 15°  | Nadir | 10° | 15°  |    |    |      |   |     |
| Lamps                   | FC    | FC  | Diam | FC    | FC  | Diam | FC    | FC  | Diam | FC    | FC  | Diam | FC | FC | Diam |   |     |
| H8638FM 75W PAR-30 NFL  | 20    | 16  | 4'   | 12    | 9   | 7    | 5'    | 6   | 8'   | 5     | 4   | 7'   | 3  | 3  | 9'   | 2 | 13' |
| H8638FM 90W PAR-38 FL   | 32    | 23  | 4'   | 14    | 10  | 8    | 5'    | 6   | 8'   | 8     | 6   | 7'   | 4  | 4  | 9'   | 2 | 13' |
| H8638FM 100W PAR-38 FL  | 51    | 37  | 4'   | 23    | 17  | 10   | 5'    | 10  | 8'   | 13    | 9   | 7'   | 6  | 6  | 9'   | 4 | 13' |
| H8638FM 250W PAR-38 FL* | 90    | 67  | 4'   | 42    | 30  | 19   | 5'    | 19  | 8'   | 22    | 17  | 7'   | 11 | 11 | 9'   | 7 | 13' |
| H8638FM 100W PAR-38 WFL | 48    | 33  | 4'   | 24    | 15  | 11   | 5'    | 11  | 8'   | 12    | 8   | 7'   | 6  | 5  | 9'   | 4 | 13' |

| 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 | FC | FC | Diam |    |    |    |    |
| H8638FM 75W PAR-30 SP   | 59    | 42  | 2'   | 23    | 18  | 13   | 3'    | 10 | 5'   | 15    | 10 | 3'   | 6  | 7  | 4'   | 4  | 9' |    |    |
| H8638FM 100W PAR-38 SP  | 270   | 153 | 2'   | 39    | 120 | 68   | 3'    | 17 | 5'   | 68    | 38 | 3'   | 10 | 7' | 43   | 24 | 4' | 6  | 9' |
| H8638FM 250W PAR-38 SP* | 317   | 185 | 2'   | 73    | 141 | 82   | 3'    | 33 | 5'   | 79    | 46 | 3'   | 18 | 7' | 51   | 30 | 4' | 12 | 9' |

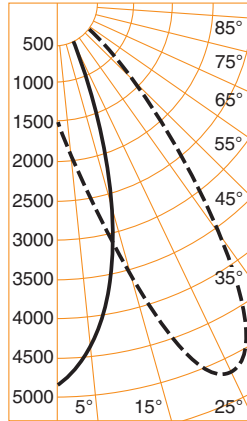
See notes 4 and 5.

\*Special construction.

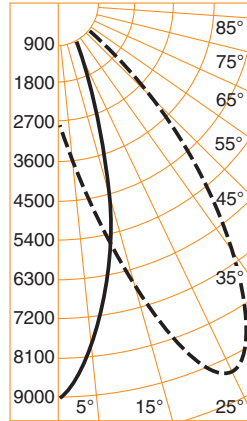
### Candlepower Distribution



H8638FM 75W PAR-30 NFL  
Eff. 87% S/M .63



H8638FM 100W PAR-38 WFL  
Eff. 78% S/M .53



H8638FM 250W PAR-38 FL  
Eff. 73% S/M .51

### Candelas at Nadir

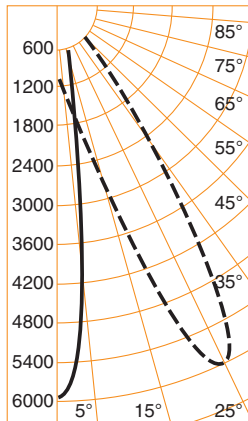
| Vertical Angles | 75W  | 100W  | 250W  |
|-----------------|------|-------|-------|
|                 | 900* | 2070* | 3600* |
| 0               | 1999 | 4848  | 8972  |
| 5               | 1854 | 4289  | 7898  |
| 10              | 1657 | 3490  | 7010  |
| 15              | 1375 | 2670  | 4663  |
| 20              | 938  | 1845  | 2524  |
| 25              | 398  | 818   | 996   |
| 30              | 157  | 280   | 338   |
| 35              | 30   | 100   | 97    |
| 40              | 13   | 47    | 43    |
| 45              | 5    | 18    | 15    |
| 50              | 3    | 9     | 9     |
| 55              | 0    | 5     | 0     |
| 60              | 0    | 0     | 0     |
| 65              | 0    | 0     | 0     |
| 70              | 0    | 0     | 0     |
| 75              | 0    | 0     | 0     |
| 80              | 0    | 0     | 0     |
| 85              | 0    | 0     | 0     |
| 90              | 0    | 0     | 0     |

° Vertical Angles

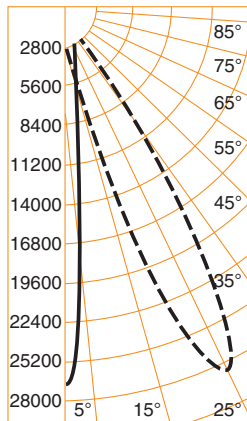
\* Initial Lamp Lumens

### Notes

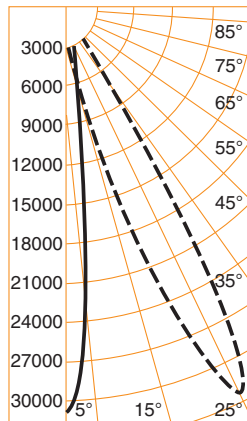
- 1 Data with standard trim, Softglow® clear.
- 2 Colored cone multipliers vary with lamp source, beam orientation and degree of angulation. Contact the factory for specific data.
- 3 Candlepower distribution curves: solid lines show horizontal distribution at nadir, dotted lines show horizontal distribution at 25° lamp tilt.
- 4 Pattern diameters are determined from each side of nadir with 0° lamp tilt. The diameter includes both sides, so a 10° diameter represents a total 20° pattern width at the floor. Footcandles are measured at the diameter edge. Tilting the lamp changes all data.
- 5 250W PAR-38 requires special construction.



H8638FM 75W PAR-30 SP  
Eff. 90% S/M .28



H8638FM 100W PAR-38 SP  
Eff. 87% S/M .20



H8638FM 250W PAR-38 SP  
Eff. 87% S/M .21

| Vertical Angles | 75W  | 100W  | 250W* |
|-----------------|------|-------|-------|
|                 | 900* | 2000* | 3600* |
| 0               | 5928 | 27038 | 31668 |
| 5               | 4206 | 15431 | 18698 |
| 10              | 2376 | 4092  | 7668  |
| 15              | 1232 | 1234  | 3938  |
| 20              | 525  | 596   | 1942  |
| 25              | 174  | 342   | 854   |
| 30              | 77   | 193   | 452   |
| 35              | 29   | 68    | 139   |
| 40              | 0    | 0     | 68    |
| 45              | 0    | 0     | 20    |
| 50              | 0    | 0     | 13    |
| 55              | 0    | 0     | 0     |
| 60              | 0    | 0     | 0     |
| 65              | 0    | 0     | 0     |
| 70              | 0    | 0     | 0     |
| 75              | 0    | 0     | 0     |
| 80              | 0    | 0     | 0     |
| 85              | 0    | 0     | 0     |
| 90              | 0    | 0     | 0     |

° Vertical Angles

\* Initial Lamp Lumens

### Brightness

| Number  | Lamps           | 85° | 75° | 65° | 55°  | 45°  |
|---------|-----------------|-----|-----|-----|------|------|
| H8638FM | 75W PAR-30 NFL  | 46  | 128 | 251 | 538  | 1191 |
|         | 100W PAR-38 WFL | 62  | 157 | 322 | 640  | 1454 |
|         | 250W PAR-38 FL* | 108 | 281 | 563 | 1153 | 2418 |

| Number  | Lamps           | 85° | 75° | 65° | 55° | 45°  |
|---------|-----------------|-----|-----|-----|-----|------|
| H8638FM | 75W PAR-30 SP   | 27  | 66  | 137 | 279 | 634  |
|         | 100W PAR-38 SP  | 29  | 85  | 172 | 381 | 870  |
|         | 250W PAR-38 SP* | 45  | 133 | 276 | 605 | 1382 |

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

\*Requires special construction, contact factory.