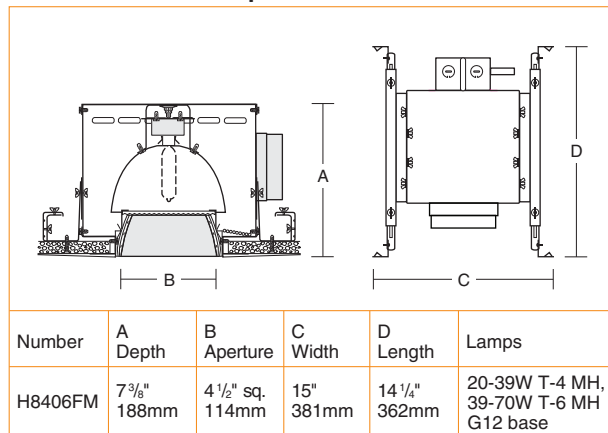


Dimensions and Lamps



*To specify add watts and volts for proper ballast, e.g. H8406FM-39277.

Matching Square Units

Directionals
Wall washers

Section FMH 5
Section FMH 6

H8406FM

Flush Mount Downlight
20-39W T-4 Metal Halide Lamp
39-70W T-6 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, enhancing the impact of the interior environment. It is a factory installed option with a proven installation technique.

Optics and Applications

A vertical lamp in a hydroformed reflector produces a medium distribution pattern. A lens is standard per code with a micropriasm texture for brightness control. Point source MH lamps are available in wattages suitable for a wide range of ceiling heights.

Design Features

A sturdy steel housing protects the optical system and assures proper focal position. The trim is stabilized to prevent racking and is held to the ceiling by constant pressure springs. 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. Special finishes and colors 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 is >.90.

General

Fixtures are 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

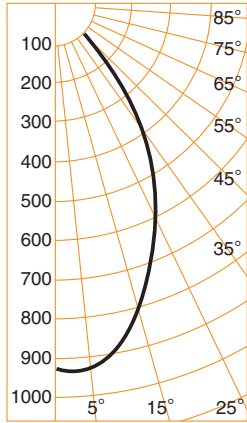
- | | |
|--|--------------------------|
| SB Softglow black. | BR Bright trim finish. |
| SG Softglow gold. | LL Linear lens. |
| SH Softglow mocha. | LP Large prism lens. |
| SP Softglow graphite. | WR White trim return. |
| ST Softglow titanium. | WHT White complete trim. |
| SW Softglow wheat. | FR Frosted lens, |
| SY Softglow pewter. | specify lens type. |
| SZ Softglow bronze. | V347 347 volt ballast, |
| F Fuse. | contact the factory. |
| EC Emergency circuit with mini-can socket and leads.* | |
| TLI 60W emergency incandescent lamp. | |
| FMW Flush mount wood, contact the factory. | |
| AOE1 Electronic ballast Auto-On restrike system 120V.* | |
| AOE2 Electronic ballast Auto-On restrike system 277V.* | |
- *Use open rated 60W max. auxiliary incandescent lamp.

FMH H8406FM 4-5

Performance Datachart

Single Unit, Initial Footcandles, 30" Work Plane						Ceiling to Floor		Multiple Units, Initial Footcandles, 30" Work Plane								
H8406FM 20W T-4 MH Clear Read Top Data H8406FM 39W T-6 MH Clear Read Middle Data H8406FM 70W T-6 MH Clear Read Bottom Data								Ceiling 80% Walls 50% Floor 20%								
Nadir								Spacing is Maximum Over Work Plane								
15°		25°		35°				Spacing		RCR 1		RCR 3		RCR 8		
FC	FC	Diam	FC	Diam	FC	Diam										
31	24	3'	15	5'	7	8'	8'		5'	46	39	27				
46	37	3'	26	5'	11	8'			6'	59	50	34				
92	75	3'	53	5'	22	8'			6'	118	99	67				
17	13	4'	8	7'	4	11'	10'		7'	25	21	15				
25	20	4'	14	7'	6	11'			8'	32	27	18				
50	41	4'	29	7'	12	11'			8'	64	53	36				
10	8	5'	5	9'	2	13'	12'		9'	15	13	9				
15	12	5'	9	9'	4	13'			10'	20	17	11				
31	25	5'	18	9'	7	13'			10'	40	33	22				
7	5	6'	3	11'	2	16'	14'		10'	10	9	6				
11	8	6'	6	11'	2	16'			12'	13	12	8				
21	17	6'	12	11'	5	16'			12'	27	23	15				
5	4	7'	2	13'	1	19'	16'		12'	8	6	4				
8	6	7'	4	13'	2	19'			14'	10	8	6				
15	13	7'	9	13'	4	19'			14'	20	16	11				

Candlepower Distribution



H8406FM 20W T-4 MH
Eff. 60% S/M .90

Candelas

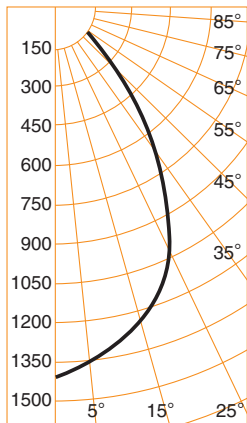
	20W
o	1700*
0	936
5	944
10	921
15	801
20	700
25	606
30	501
35	380
40	270
45	166
50	95
55	52
60	24
65	9
70	0
75	0
80	0
85	0
90	0

o Vertical Angles
* Initial Lamp Lumens

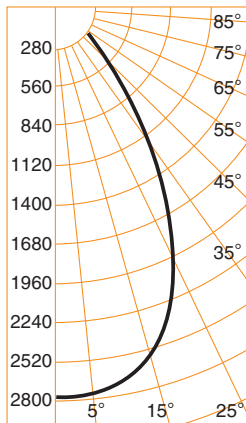
Coefficients of Utilization

Ceiling	80%				70%		50%		30%		0
	70	50	30	10	50	10	50	10	50	10	0
Wall %	Zonal Cavity Method - Floor Reflectance 20%										
RCR	Zonal Cavity Method - Floor Reflectance 20%										
1	.68	.66	.64	.63	.65	.62	.62	.60	.60	.58	.55
2	.64	.61	.58	.56	.60	.55	.58	.54	.56	.53	.51
3	.60	.56	.53	.50	.55	.50	.54	.49	.52	.48	.46
4	.57	.52	.48	.45	.51	.45	.50	.45	.49	.44	.43
5	.54	.48	.44	.41	.47	.41	.46	.41	.45	.40	.39
6	.51	.45	.41	.38	.44	.38	.43	.37	.42	.37	.36
7	.48	.42	.38	.35	.41	.35	.40	.35	.40	.34	.33
8	.45	.39	.35	.32	.38	.32	.38	.32	.37	.32	.31
9	.43	.36	.33	.30	.36	.30	.36	.30	.35	.30	.29
10	.41	.34	.30	.28	.34	.28	.33	.28	.33	.28	.27

H8406FM 20W T-4 MH



H8406FM 39W T-6 MH
Eff. 50% S/M 1.0



H8406FM 70W T-6 MH
Eff. 54% S/M 1.0

	39W	70W
o	3300*	6200*
0	1387	2796
5	1378	2773
10	1319	2669
15	1237	2537
20	1176	2430
25	1050	2171
30	825	1700
35	588	1214
40	401	827
45	264	553
50	165	344
55	91	187
60	41	83
65	16	33
70	10	22
75	4	10
80	0	0
85	0	0
90	0	0

o Vertical Angles
* Initial Lamp Lumens

Ceiling	80%				70%		50%		30%		0
	70	50	30	10	50	10	50	10	50	10	0
Wall %	Zonal Cavity Method - Floor Reflectance 20%										
RCR	Zonal Cavity Method - Floor Reflectance 20%										
1	.56	.54	.53	.52	.53	.51	.51	.49	.49	.48	.45
2	.53	.50	.48	.46	.49	.45	.47	.44	.46	.43	.41
3	.49	.46	.43	.41	.45	.41	.44	.40	.43	.39	.38
4	.46	.42	.39	.37	.42	.37	.41	.36	.40	.36	.35
5	.44	.39	.36	.33	.39	.33	.38	.33	.37	.33	.32
6	.41	.36	.33	.31	.36	.30	.35	.30	.34	.30	.29
7	.39	.34	.30	.28	.33	.28	.33	.28	.32	.28	.27
8	.37	.31	.28	.26	.31	.26	.31	.26	.30	.26	.25
9	.35	.29	.26	.24	.29	.24	.29	.24	.28	.24	.23
10	.33	.28	.24	.22	.27	.22	.27	.22	.26	.22	.21

H8406FM 39W T-6 MH x 1.00
H8406FM 70W T-6 MH x 1.08

Brightness

Number	Lamps	85°	75°	65°	55°	45°
H8406FM	20W T-4 MH	23	142	441	7313	21918
	39W T-6 MH	46	281	892	14776	44230
	70W T-6 MH	88	541	1766	26872	85750

Data in footlamberts. Photometer readings. Maximum Brightness Method.

Notes

- All data with standard trim, Softglow® clear.
- Datachart degree headings measure one side from nadir. Diameter data includes both sides. Therefore the 15° column value describes a 30° pattern diameter at the work plane 30" above the floor. Footcandle values are at the diameter edge.
- Datachart spacing is rounded off to the nearest foot.
- Colored trim multipliers: Gold x .90, Wheat x .85, Mocha x .80, Pewter x .80, Graphite x .75, Titanium x .75, Bronze x .70, Black x .70.

