

H8416FM MR-16 Lamps
H8436FM PAR-36, AR111 Low Voltage

Flush Mount Directional Downlights
4 1/2" Square Parabolic Trims

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

Low voltage lamps offer a variety of beam spreads for selective highlighting or general illumination.

Design Features

A proprietary lampholder for MR-16 lamps (H8416FM) features a ceramic socket, aluminum heat sink and reflective heat shield. Both fixtures provide 360° rotation, H8416FM tilts 45°, H8436FM tilts 40°. Both lock in position and accept two accessories. Flush mount design resists cracking 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 3/8" to 7/8" thick ceilings and extend to 26". Top or bottom service.

Finish

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

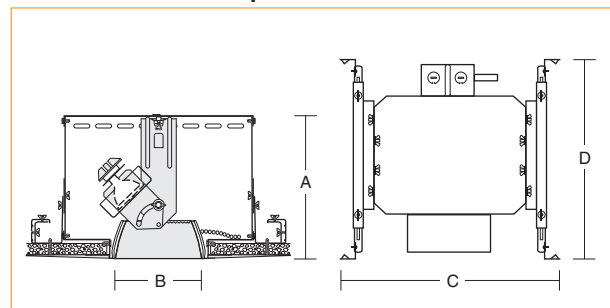
Transformer

A magnetic transformer for low voltage lamps to 75W is standard. Primary lead is 120V with a 12V or 5.5V secondary (H8436FM) as required. Transformer is rated 180°C, Class H, with a built-in 150° resetting thermal link fuse. Maximum fixture draw is 85W.

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.

Dimensions and Lamps



Number	A Depth	B Aperture	C Width	D Length	Lamps
H8416FM	7 5/8" 194mm	4 1/2" sq. 114mm	19 7/8" 505mm	15 1/2" 394mm	20-75W MR-16 Low voltage
H8436FM	8 3/4" 223mm	4 1/2" sq. 114mm	19 1/2" 496mm	18 1/2" 470mm	25-75W PAR-36 25-75W AR111

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.
- FMW Flush mount wood, contact the factory.
- V277 277 volt primary magnetic transformer.
- FLT4 Full lens trim, specify lens type, e.g. H8416FM-FLT4LL.
- WRL Wattage restriction label, specify wattage.
- ET1 Electronic transformer 120V to 12V.
- ET2 Electronic transformer 277V to 12V.
- BR Bright trim finish.
- HL Hexcell louver.
- HD Hood, MR-16.
- 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
Wall washers

Section FMH 4
Section FMH 6

FMH H8416FM H8436FM

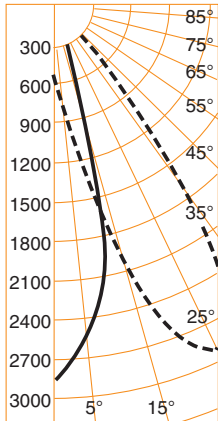
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Footcandle Values at Nadir

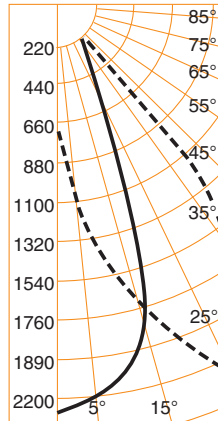
Distance	5'			10'			15'			20'										
	Nadir	10°	15°	Nadir	10°	15°	Nadir	10°	15°	Nadir	10°	15°								
Lamps	FC	FC	Diam	FC	FC	Diam	FC	FC	Diam	FC	FC	Diam								
H8416FM 50W MR-16/NFL/25°	115	78	2'	39	3'	29	20	4'	10	5'	13	9	5'	4	8'	7	5	7'	2	11'
H8416FM 75W MR-16/FL/40°	93	81	2'	62	3'	23	20	4'	16	5'	10	9	5'	7	8'	6	5	7'	4	11'
H8416FM 50W MR-16/NSP/15°	370	94	2'	31	3'	93	24	4'	8	5'	41	11	5'	4	8'	23	6	7'	2	11'
H8416FM 75W MR-16/NSP/15°	447	32	2'	16	3'	112	8	4'	4	5'	50	4	5'	2	8'	28	2	7'	1	11'

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								
H8436FM 50W PAR-36/WFL/40°	11	9	4'	6	5'	5	4	5'	3	8'	3	2	7'	2	11'	2	1	9'	1	13'
H8436FM 75W AR111/FL/25°	43	28	4'	8	5'	19	12	5'	4	8'	11	7	7'	2	11'	7	4	9'	1	13'
H8436FM 50W PAR-36/NSP/10°	83	31	4'	5	5'	37	14	5'	2	8'	21	8	7'	1	11'	13	5	9'	1	13'
H8436FM 75W AR111/SP/8°	243	8	4'	1	5'	108	3	5'	0	8'	61	2	7'	0	11'	39	1	9'	0	13'

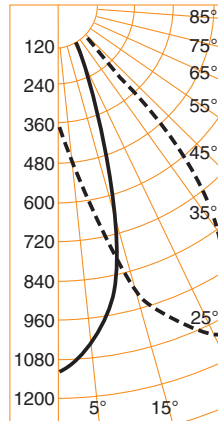
Candlepower Distribution



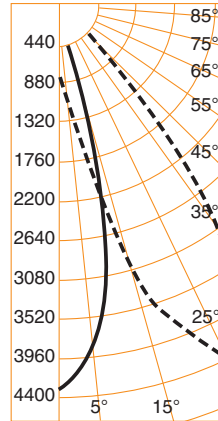
H8416FM 50W MR-16/NFL EXZ 25°



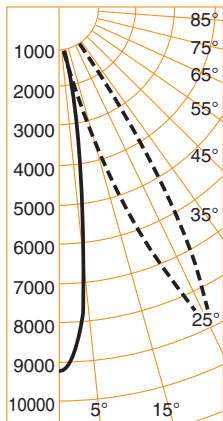
H8416FM 75W MR-16/NFL EYC 40°



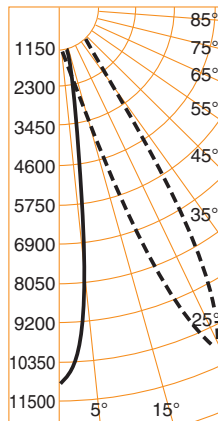
H8436FM 50W PAR-36 WFL 40°



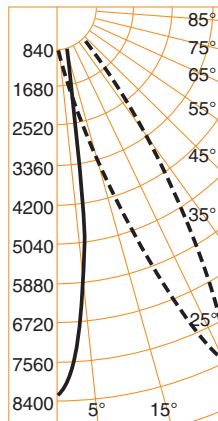
H8436FM 75W AR111 FL 25°



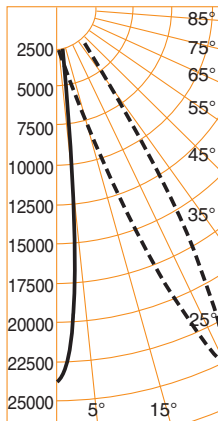
H8416FM 50W MR-16/NSP EXT 15°



H8416FM 75W MR-16/NSP EYF 15°



H8436FM 50W PAR-36 NSP 10°



H8436FM 75W AR111 SP 8°

Candelas at Nadir

°	50W	75W	50W	75W
	3400*	2100*	900*	5300*
0	2875	2330	1119	4279
5	2610	2218	1009	3860
10	2050	2115	911	2928
15	1090	1722	667	918
20	400	898	365	343
25	118	260	180	46
30	10	105	65	18
35	0	56	11	0
40	0	14	0	0
45	0	3	0	0
50	0	0	0	0
55	0	0	0	0
60	0	0	0	0
65	0	0	0	0
70	0	0	0	0
75	0	0	0	0
80	0	0	0	0
85	0	0	0	0
90	0	0	0	0

° Vertical Angles
* CBCP

°	50W	75W	50W	75W
	10200*	12000*	11000*	30000*
0	9250	11179	8298	24317
5	6425	6250	5611	11512
10	2471	825	3248	792
15	865	450	600	107
20	150	89	66	23
25	26	14	49	0
30	0	0	9	0
35	0	0	0	0
40	0	0	0	0
45	0	0	0	0
50	0	0	0	0
55	0	0	0	0
60	0	0	0	0
65	0	0	0	0
70	0	0	0	0
75	0	0	0	0
80	0	0	0	0
85	0	0	0	0
90	0	0	0	0

° Vertical Angles
* CBCP

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 10° diameter represents a total 20° pattern width at the floor. Footcandles are measured at the diameter edge. Tilting the lamp changes all data.

Brightness

Number	Lamps	85°	75°	65°	55°	45°
H8416FM	50W MR-16 EXZ	7	29	45	77	145
	75W MR-16 EYC	12	38	64	109	216
H8436FM	75W MR-16 EYF	4	21	35	54	105
	75W AR111 FL	4	15	26	58	139
	75W AR111 SP	3	12	19	40	88