

# H8616

**Directional Downlight**  
**MR-16 Low Voltage Lamps**  
**6" Square Parabolic Trim**

### Optics and Applications

The parabolic trim provides excellent shielding and brightness control. The selection of MR-16 lamps offers beam spreads from 7° to 40°. Ideal for highlighting merchandise, art objects and points of interest. Suitable for damp locations.

### Design Features

The lamp assembly rotates 360°, tilts 45° and locks in any selected position. It will accept two optional accessories. A sturdy steel housing protects all internal components and is vented for air flow cooling. The trim is stabilized to prevent racking. It is held to the ceiling by constant pressure stainless steel springs. Maximum ceiling thickness 1 1/2". 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, textures and colors are available, see below under Accessories.

### Transformer

Each fixture is supplied with a transformer capable of accommodating low voltage lamps up to 75W. The primary lead is 120V with a 12V secondary. The transformer is rated 180°C, Class H with a built-in 150° resetting thermal link fuse. It can be lowered through the aperture for service. Maximum fixture draw is 85W.

### Trim Textures

Textured trims create a subtle new aperture appearance. Select among different embossed patterns to match the ambiance of the space being illuminated. Refer to Squares brochure for descriptive photos.

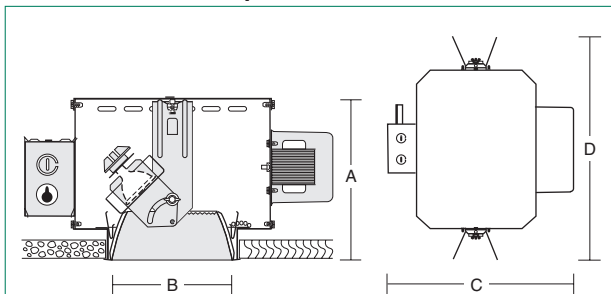
### General

Fixtures are pre-wired, thermally protected, UL and C-UL listed for eight wire 75°C branch circuit wiring. All products are union made IBEW. Luminaire Efficiency Ratings (LER) do not apply to directional fixtures.

### Accessories

- R2 26" support rails. WT White trim flange.
  - R5 52" support rails. WHT White complete trim.
  - SB Softglow black. BP Ball Peen texture.
  - SG Softglow gold. CG Corrugated texture.
  - SH Softglow mocha. DS Distressed texture.
  - SP Softglow graphite. WV Woven texture.
  - ST Softglow titanium. HL Hexcell louver.
  - SW Softglow wheat. HD Hood.
  - SY Softglow pewter. LL Linear spread lens.
  - SZ Softglow bronze. LP Large prism lens.
  - BR Bright trim finish. MP Microprism lens.
  - DP Fixed downlight position.
  - FR Frosted lens, specify lens type.
  - TAL Turn and Lock MR-16 socket.
  - AR70 Aluminum reflector lamp.
  - V277 277 volt primary transformer.
  - FLT6 Full lens trim, specify lens type, e.g. H8616-FLT6LL.
  - WRL Wattage restriction label, specify wattage.
- For UV filters and other accessories, contact the factory.

### Dimensions and Lamps



Number	A Depth	B Aperture	C Width	D Length	Lamps
H8616	8 1/4" 210mm	6" sq. 153mm	15 1/2" 394mm	19" 483mm	20-75W MR-16 Low voltage

### Matching Square Units

- Compact fluorescent [Pages H22, H23](#)
- Halogen, A lamps [Page H10](#)
- Tungsten halogen [Page H11](#)
- Directional [Page H6](#)
- Metal halide [Pages H26, H27, H28](#)
- Wall washer [Page H38](#)

\* Click for link to pages in blue.



Kurt Versen Company Point Source Lighting  
 Westwood, New Jersey 07675

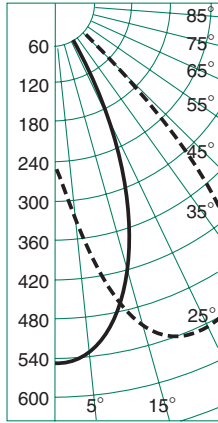
# H5 H8616

## Footcandle Values at Nadir

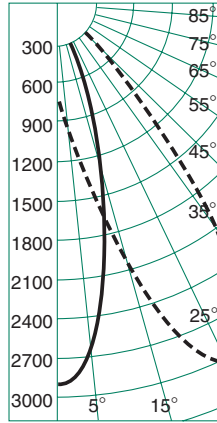
Distance	5'			10'			15'			20'		
	Nadir	10°	15°	Nadir	10°	15°	Nadir	10°	15°	Nadir	10°	15°
Lamps	FC	FC Diam	FC Diam	FC	FC Diam	FC Diam	FC	FC Diam	FC Diam	FC	FC Diam	FC Diam
H8616 20W MR-16/FL/36°	22	19 2'	15 3'	5	5 4'	4 5'	2	2 5'	2 8'	1	1 7'	1 11'
H8616 50W MR-16/NFL/24°	116	79 2'	40 3'	29	20 4'	10 5'	13	9 5'	4 8'	7	5 7'	2 11'
H8616 50W MR-16/FL/36°	80	65 2'	47 3'	20	16 4'	12 5'	9	7 5'	5 8'	5	4 7'	3 11'
H8616 75W MR-16/FL/36°	90	77 2'	61 3'	23	19 4'	15 5'	10	9 5'	7 8'	6	5 7'	4 11'

Distance	5'			10'			15'			20'		
	Nadir	5°	10°	Nadir	5°	10°	Nadir	5°	10°	Nadir	5°	10°
Lamps	FC	FC Diam	FC Diam	FC	FC Diam	FC Diam	FC	FC Diam	FC Diam	FC	FC Diam	FC Diam
H8616 20W MR-16/SP/10°	135	93 1'	38 2'	34	23 2'	10 4'	15	10 3'	4 5'	8	6 3'	2 7'
H8616 35W MR-16/SP/20°	157	98 1'	39 2'	39	24 2'	10 4'	17	11 3'	4 5'	10	6 3'	2 7'
H8616 50W MR-16/SP/10°	376	254 1'	95 2'	94	64 2'	24 4'	42	28 3'	11 5'	24	16 3'	6 7'
H8616 75W MR-16/SP/10°	464	261 1'	33 2'	116	65 2'	8 4'	52	29 3'	4 5'	29	16 3'	2 7'

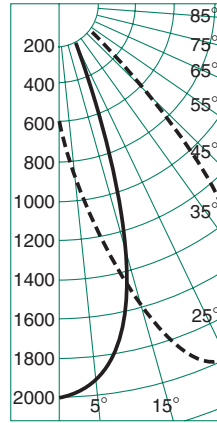
## Candlepower Distribution



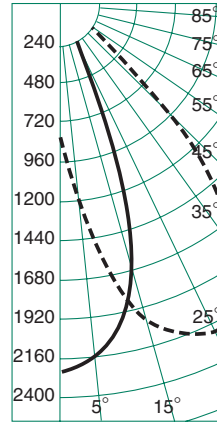
H8616 20W MR-16/FL  
BAB 36°



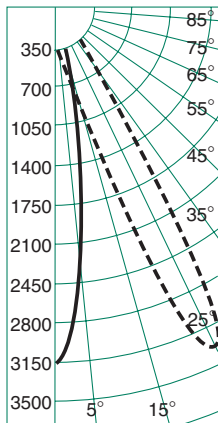
H8616 50W MR-16/NFL  
EXZ 24°



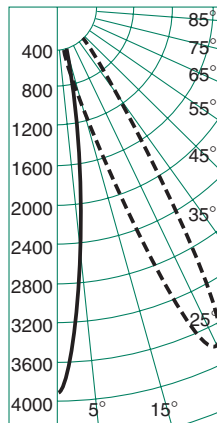
H8616 50W MR-16/FL  
EXN 36°



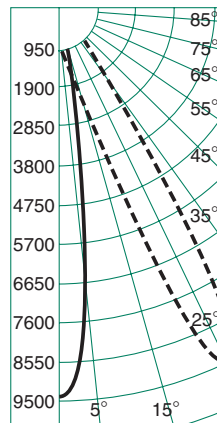
H8616 75W MR-16/FL  
EYC 36°



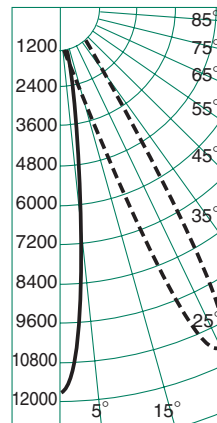
H8616 20W MR-16/SP  
ESX 10°



H8616 35W MR-16/SP  
FRA 20°



H8616 50W MR-16/SP  
EXT 10°



H8616 75W MR-16/SP  
EYF 10°

## Candelas at Nadir

°	20W	50W	50W	75W
	780*	4400*	2200*	2500*
0	548	2910	2001	2250
5	533	2650	1945	2118
10	497	2071	1689	2015
15	418	1100	1295	1700
20	305	600	698	980
25	122	120	197	270
30	47	18	58	163
35	15	4	24	55
40	6	0	8	29
45	0	0	0	3
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

°	20W	35W	50W	75W
	5000*	3900*	13000*	14000*
0	3375	3919	9411	11601
5	2350	2475	6430	6611
10	995	1027	2480	870
15	376	580	875	495
20	59	258	152	100
25	9	62	25	19
30	0	10	7	5
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.