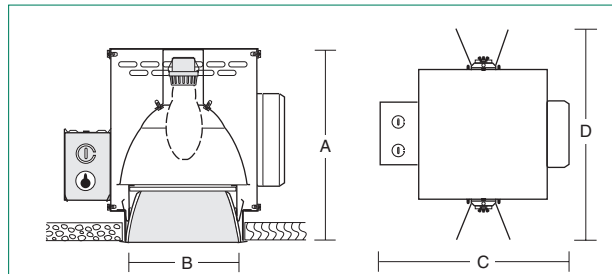


Dimensions and Lamps



Number	A Depth	B Aperture	C Width	D Length	Lamps
H8617*	11" 280mm	6" 153mm	13 3/4" 337mm	13 3/4" 350mm	50-70-100W ED-17 Metal Halide
H8617-150	11" 280mm	6" 153mm	17 1/4" 438mm	16 1/2" 419mm	150W ED-17 Metal Halide

*To specify add watts and volts for proper ballast, e.g. H8617-70277.

Matching Square Units

- Compact fluorescent
- Directionals
- Halogen, A lamps
- Low voltage
- Tungsten Halogen
- Metal halide
- Wall washer

- [Pages H22, H23](#)
- [Page H27](#)
- [Page H10](#)
- [Pages H5, H6](#)
- [Page H11](#)
- [Pages H26, H27](#)
- [Page H42](#)

* Click for link to pages in blue.

H8617

Downlight
50-100W ED-17 Metal Halide Lamps
6" Square Parabolic Trim

Optics and Applications

An ellipsoidal primary reflector redistributes lamp output through a parabolic shielding trim. The pattern is uniform with medium wide distribution. Use anywhere for general, transient or task lighting.

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. Maximum ceiling thickness 1 1/2". Top or bottom service.

Finish

Housing and structural parts are painted matte black to suppress stray light leaks. The trim is anodized Softglow® clear. Special finishes, textures and colors are available.

Ballasts

Electronic metal halide ballasts provide more constant lumen and wattage output. They feature thermal protection with auto reset, quiet operation and automatic shutdown at end of life. They draw less energy than magnetic ballasts, permitting more fixtures on a circuit. Specify EBH5 for 150W size.

General

Fixtures are pre-wired and thermally protected, UL and C-UL listed for eight wire 75°C branch circuit wiring. Union made IBEW. Luminaire Efficiency Rating (LER) data is in the photometric directory located in Section Z.

Accessories

- | | | | |
|------|--|----|---------------------|
| F | Ballast fuse. | R2 | 26" support rails. |
| SB | Softglow black. | R5 | 52" support rails. |
| SG | Softglow gold. | BR | Bright trim finish. |
| SH | Softglow mocha. | BP | Ball Peen texture. |
| SP | Softglow graphite. | CG | Corrugated texture. |
| ST | Softglow titanium. | DS | Distressed texture. |
| SW | Softglow wheat. | WV | Woven texture. |
| SY | Softglow pewter. | WT | White trim flange. |
| SZ | Softglow bronze. | LL | Linear lens. |
| FC | Four cell cross baffle. | LP | Large prism lens. |
| V347 | 347 volt ballast, contact the factory. | MP | Microprism lens. |
| | | FR | Frosting on lens. |

- OP Open construction, no lamp shield.
 - EC Emergency circuit with mini-can socket and leads.*
 - AOE1 Electronic ballast Auto-On restrike system 120V.*
 - AOE2 Electronic ballast Auto-On restrike system 277V.*
- *Use open rated 60W max. auxiliary incandescent lamp. See Squares brochure for more accessories data.

Brightness

Number	Lamps	85°	75°	65°	55°	45°
H8617	50W ED-17 Coated	43	121	205	3461	9371
	70W ED-17 Coated	64	170	287	4875	12977
	100W ED-17 Coated	96	249	423	7194	19227
	150W ED-17 Coated	139	361	609	10432	27957

Data in footlamberts. Photometer readings, Maximum Brightness Method.

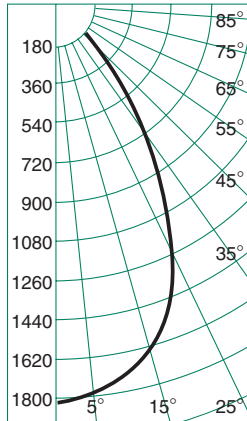
H28 H8617

Performance Datachart

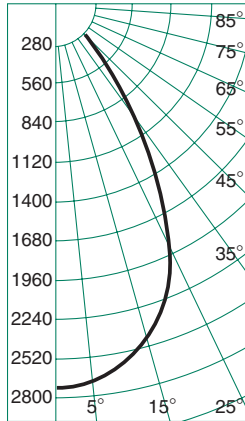
Single Unit, Initial Footcandles, 30" Work Plane						Ceiling to Floor		Multiple Units, Initial Footcandles, 30" Work Plane								
H8617 50W ED-17 MH/C Read Top Data								Ceiling 80% Walls 50% Floor 20%								
H8617 70W ED-17 MH/C Read Bottom Data								Spacing is Maximum Over Work Plane								
Nadir		15°		25°		35°		Spacing		RCR 1		RCR 3		RCR 8		
FC	Diam	FC	Diam	FC	Diam	FC	Diam									
60	49	3'	31	5'	11	8'	8'		5'	75	64	46				
91	73	3'	47	5'	17	8'			5'	111	96	68				
32	26	4'	17	7'	6	11'	10'		7'	40	35	25				
49	39	4'	25	7'	9	11'			7'	60	52	37				
20	16	5'	10	9'	4	13'	12'		9'	25	22	16				
30	25	5'	16	9'	6	13'			9'	37	32	23				
14	11	6'	7	11'	3	16'	14'		11'	17	15	11				
21	17	6'	11	11'	4	16'			11'	25	22	16				
10	8	7'	5	13'	2	19'	16'		13'	12	11	8				
15	12	7'	8	13'	3	19'			13'	18	16	11				

Single Unit, Initial Footcandles, 30" Work Plane						Ceiling to Floor		Multiple Units, Initial Footcandles, 30" Work Plane								
H8617 100W ED-17 MH/C Read Top Data								Ceiling 80% Walls 50% Floor 20%								
H8617 150W ED-17 MH/C Read Bottom Data								Spacing is Maximum Over Work Plane								
Nadir		15°		25°		35°		Spacing		RCR 1		RCR 3		RCR 8		
FC	Diam	FC	Diam	FC	Diam	FC	Diam									
47	40	5'	24	9'	8	13'	12'		9'	54	48	35				
63	56	5'	33	9'	10	13'			9'	75	65	47				
32	27	6'	16	11'	5	16'	14'		11'	37	33	24				
43	38	6'	23	11'	7	16'			11'	51	44	32				
23	20	7'	12	13'	4	19'	16'		13'	27	24	17				
31	28	7'	17	13'	5	19'			13'	37	32	23				
18	15	8'	9	14'	3	22'	18'		15'	20	18	13				
24	21	8'	13	14'	4	22'			15'	28	24	18				
14	12	9'	7	16'	2	25'	20'		16'	16	14	10				
19	16	9'	10	16'	3	25'			17'	22	19	14				

Candlepower Distribution



H8617 50W ED-17 MH/C
Eff. 45% S/M .94



H8617 70W ED-17 MH/C
Eff. 47% S/M .94

Candelas

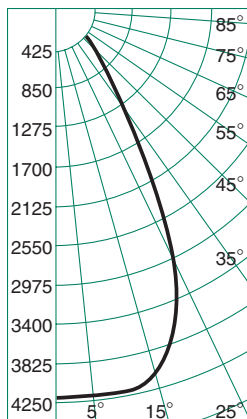
°	50W	70W
	4000*	5700*
0	1825	2738
5	1801	2702
10	1726	2589
15	1637	2456
20	1502	2253
25	1265	1898
30	966	1447
35	625	937
40	363	542
45	188	282
50	92	138
55	39	59
60	16	24
65	9	15
70	0	0
75	0	0
80	0	0
85	0	0
90	0	0

° Vertical Angles
* Initial Lamp Lumens

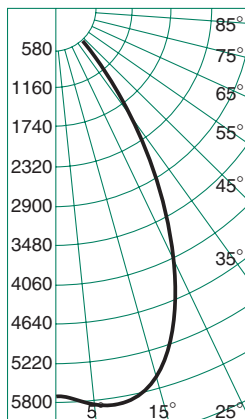
Coefficients of Utilization

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

H8617 50W ED-17 MH/C x .95
H8617 70W ED-17 MH/C
H8617 100W ED-17 MH/C x .98
H8617 150W ED-17 MH/C x .97



H8617 100W ED-17 MH/C
Eff. 46% S/M .94



H8617 150W ED-17 MH/C
Eff. 46% S/M .95

°	100W	150W
	8500*	12000*
0	4221	5723
5	4215	5855
10	4222	5865
15	4031	5599
20	3604	5005
25	2914	4047
30	2134	2964
35	1234	1714
40	606	843
45	264	367
50	122	170
55	53	74
60	24	34
65	16	23
70	5	0
75	0	0
80	0	0
85	0	0
90	0	0

° Vertical Angles
* Initial Lamp Lumens

Notes

- All data calculated using clear Softglow® trims.
- 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.
- Datachart spacing is rounded off to the nearest foot.
- Datachart degree headings measure one side from nadir. Diameter data includes both sides. Therefore the 10° column value describes a 20° pattern diameter at the work plane 30" above the floor. Footcandle values are at the diameter edge.
- Average Luminance Method brightness data are inaccurate for downlights. They are theoretical calculations for large surfaces such as troffer lenses. Our brightness data derives from direct photometer readings which approximate what the eye perceives when evaluating glare. For a complete discussion refer to Z section brochure Z1.