

H8477 G8.5 Base, T4.5 Metal Halide

H8466 G12 Base, T4.5, T6 Metal Halide

H25b

Shallow Downlights
20W to 70W
4 1/2" Square Parabolic Trim

Optics and Applications

This generation of high efficient, low brightness metal halide fixtures features precise new optics. Each lamp and base combination has a unique reflector system designed to optimize performance. The square downlight combines the aesthetic appeal of a small aperture in a shallow fixture profile with a smooth medium distribution. Use for general or task lighting in low to intermediate ceiling height applications.

Design Features

A sturdy steel housing protects the optical system and assures proper focal position. A microprism glass lens is standard. The trim is stabilized to prevent racking and is held to the ceiling by constant pressure springs. Maximum ceiling thickness 7/8". Top or bottom service.

Finish

Housings and structural parts are painted matte black to suppress light leaks. The shielding trim is Softglow® clear. A variety of special finishes, textures and colors are available. Refer to Squares brochure for descriptive photos.

Ballasts

Electronic metal halide ballasts provide constant output. Thermal protection with auto reset, quiet operation and automatic shutdown at end of life. For emergency back-up system contact factory.

Bases

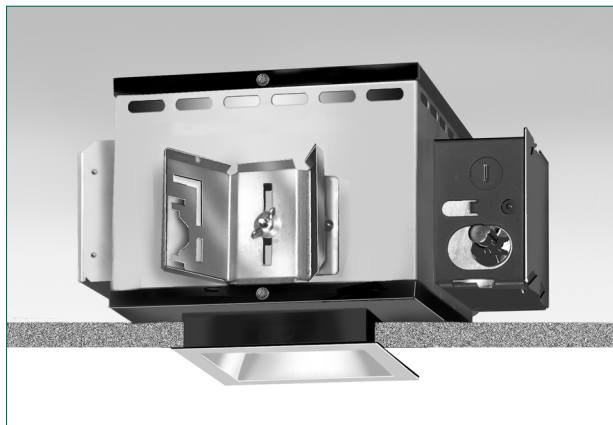
Product performance is dependant on quality sockets to provide reliable contact to the lamp. Kurt Versen uses sockets with redundant spring systems to retain the lamps.

General

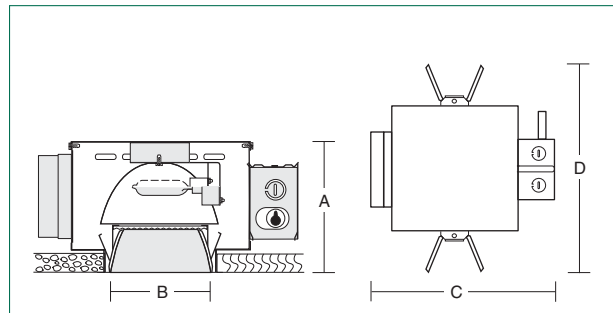
Fixtures are pre-wired, thermally protected, UL and C-UL listed for eight wire 75°C branch circuit wiring. All products are union made IBEW. Suitable for damp locations.

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.
- FM For flush mount construction.
- R2 26" support rails.
- R5 52" support rails.
- FC Four cell cross baffle.
- F Fuse.
- GU For GU6.5 base, T4 MH lamp.
- PG For PGJ5 Base, T3.5 MH lamp, contact factory.
- EC Emergency circuit with mini-can socket and leads.
- AOE1 Ballast 120V, auto-on restrike system, 75W max.
- AOE2 Ballast 277V, auto-on restrike system, 75W max.
- GG Upper gold reflector.
- BR Bright trim finish.
- WT White trim flange.
- WHT White complete trim.
- BP Ball Peen texture.
- CG Corrugated texture.
- DS Distressed texture.
- WV Woven texture.
- UV UV lens.
- LL Linear lens.
- LP Large prism lens.
- FR Frosting on lens, specify lens type.



Dimensions and Lamps



Number	A Depth	B Aperture	C Width	D Length	Lamps*
H8477	6" 152mm	4 1/2" sq. 114mm	12 1/2" 318mm	13 3/4" 349mm	20 to 70W MH T4.5 Lamp, G8.5 Base
H8466	6" 152mm	4 1/2" sq. 114mm	12 1/2" 318mm	13 3/4" 349mm	20 to 70W MH T4.5, T6 Lamp, G12 Base

*To specify add watts and volts for proper ballast, e.g. H8477-39277.

H25b H8466 H8477

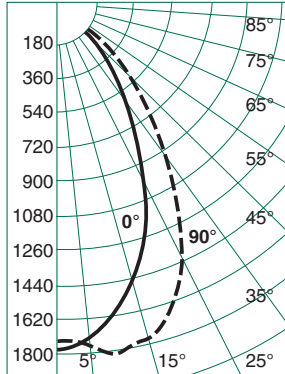
Performance Datachart

Single Unit Initial Footcandles, 30" Work Plane						Ceiling to Floor	Multiple Units Initial Footcandles, 30" Work Plane			
H8466 39W T6 G12 MH Syl Read Top Data H8466 70W T6 G12 MH Philips Read Bottom Data							Ceiling 80% Walls 50% Floor 20%			
Nadir		10°		20°		Spacing is Maximum Over Work Plane				
FC	FC Diam	FC	FC Diam	FC	FC Diam	Spacing	RCR 1	RCR 3	RCR 8	
31	29 3'	21 5'	12 9'	10'		8'	37	31	21	
51	48 3'	34 5'	20 9'			8'	63	53	36	
19	18 3'	13 7'	8 11'	12'		10'	23	19	13	
32	30 3'	21 7'	12 11'			10'	39	33	23	
13	13 4'	9 8'	5 13'	14'		12'	16	13	9	
22	20 4'	15 8'	8 13'			12'	27	23	15	
10	9 5'	6 10'	4 16'	16'		15'	11	10	7	
16	15 5'	11 10'	6 16'			14'	19	16	11	
7	7 5'	5 11'	3 18'	18'		17'	9	7	5	
12	11 5'	8 11'	5 18'			16'	15	12	8	

Single Unit Initial Footcandles, 30" Work Plane						Ceiling to Floor	Multiple Units Initial Footcandles, 30" Work Plane			
H8477 39W T4.5 G8.5 MH Syl Read Top Data H8477 70W T4.5 G8.5 MH GE Read Bottom Data							Ceiling 80% Walls 50% Floor 20%			
Nadir		10°		20°		Spacing is Maximum Over Work Plane				
FC	FC Diam	FC	FC Diam	FC	FC Diam	Spacing	RCR 1	RCR 3	RCR 8	
27	26 3'	20 5'	12 9'	10'		9'	31	26	18	
64	59 3'	46 5'	21 9'			7'	80	68	47	
17	16 3'	12 7'	7 11'	12'		11'	19	16	11	
40	37 3'	29 7'	13 11'			9'	50	42	29	
12	11 4'	8 8'	5 13'	14'		13'	13	11	8	
27	25 4'	20 8'	9 13'			11'	34	29	20	
8	8 5'	6 10'	4 16'	16'		16'	10	8	5	
20	18 5'	14 10'	7 16'			13'	25	21	15	
6	6 5'	5 11'	3 18'	18'		18'	7	6	4	
15	14 5'	11 11'	5 18'			15'	19	16	11	

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.

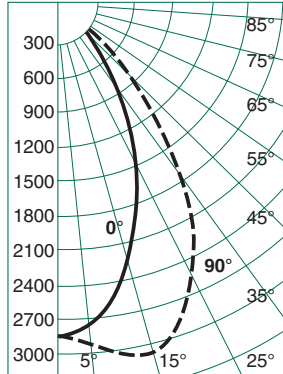
Candlepower Distribution Candelas



H8466 39W T6 G12 CL Syl Eff. 65%
S/M 0° .81 S/M 90° 1.07

	0°	90°
o	3400*	3400*
0	1743	1743
5	1731	1768
10	1645	1822
15	1454	1782
20	1188	1600
25	976	1419
30	786	1220
35	569	911
40	368	634
45	245	439
50	148	266
55	78	144
60	33	52
65	15	16
70	10	10
75	7	7
80	0	0

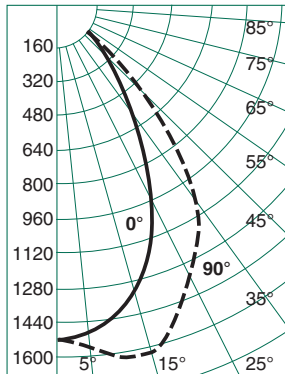
o Vertical Angles
* Initial Lamp Lumens



H8466 70W T6 G12 CL Phil Eff. 58%
S/M 0° .76 S/M 90° 1.14

	0°	90°
o	6200*	6200*
0	2879	2879
5	2790	2920
10	2560	3058
15	2206	3063
20	1814	2815
25	1492	2510
30	1200	2198
35	872	1683
40	558	1176
45	355	841
50	220	502
55	121	252
60	57	94
65	24	27
70	15	16
75	11	11
80	0	0

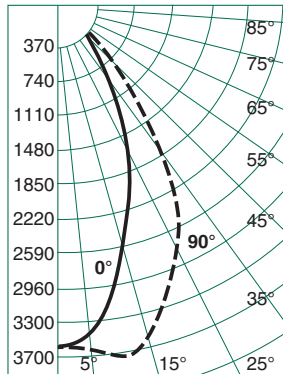
o Vertical Angles
* Initial Lamp Lumens



H8477 39W T4.5 G8.5 CL Syl Eff. 64%
S/M 0° .87 S/M 90° 1.17

	0°	90°
o	3400*	3400*
0	1525	1525
5	1521	1558
10	1467	1625
15	1330	1621
20	1121	1508
25	938	1355
30	766	1207
35	551	943
40	366	662
45	240	490
50	143	303
55	74	149
60	32	50
65	14	16
70	10	10
75	7	7
80	0	0

o Vertical Angles
* Initial Lamp Lumens



H8477 70W T4.5 G8.5 CL GE Eff. 63%
S/M 0° .69 S/M 90° 1.03

	0°	90°
o	6200*	6200*
0	3611	3611
5	3520	3651
10	3149	3734
15	2596	3603
20	2028	3179
25	1597	2775
30	1223	2369
35	833	1770
40	505	1241
45	307	849
50	177	508
55	94	276
60	45	99
65	22	28
70	15	17
75	11	12
80	0	0

o Vertical Angles
* Initial Lamp Lumens

Notes

1. All data with standard trim, Softglow® clear.
2. 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 above the floor. Footcandle values are at the diameter edge.
3. Datachart spacing is rounded off to the nearest foot.