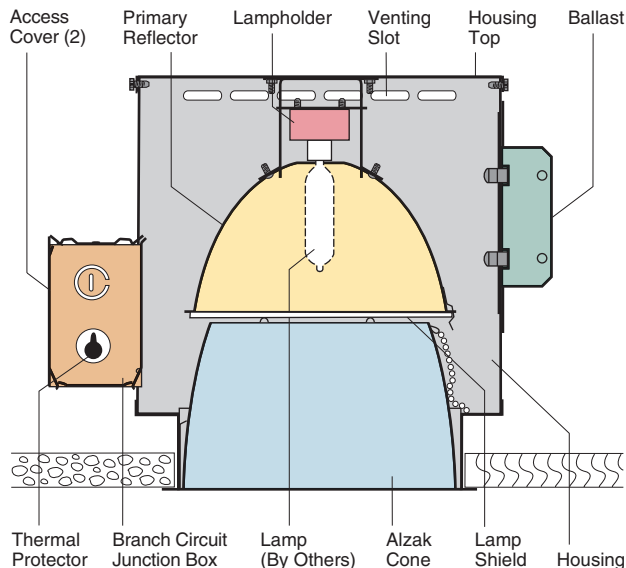


R7306

Downlight
39-70-150W T-6 Metal Halide
7 1/4" Conoid Aperture



Optics and Applications

The optical system uses an ellipsoidal primary reflector and a parabolic shielding cone. Both reflectors are designed to maximize the advantages of T-6 metal halide lamps. The pattern is uniform with high efficiency and medium distribution. Use for general transient or task application.

Design Features

A steel housing protects the optical system and lamp shield. Maximum ceiling thickness 2". Top or bottom service.

Finish

A specular clear Alzak cone is standard. Optional colors and Softglow® finishes are available. Housing and structural parts are painted optical matte black to suppress stray light leaks.

Ballast

Electronic metal halide ballasts provide more constant lumen and wattage output. They feature thermal protection with auto reset, fast restrike, quiet operation and automatic shutdown at end of life. Supplied standard for 39 or 70W. Specify EBH5 for 150W model.

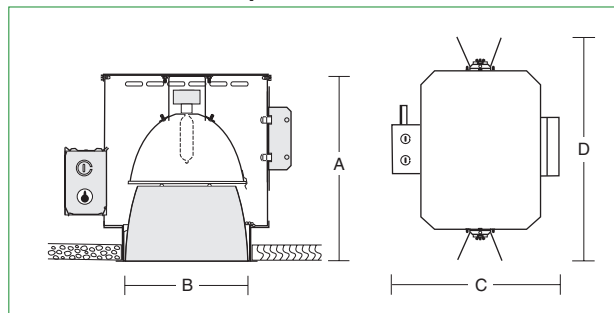
General

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

- R2 26" support rails. WT White trim flange.
 - R5 52" support rails. WHT White complete trim.
 - F Ballast fuse. TLI Emergency 60W lamp.
 - B Specular black cone. T Specular titanium cone.
 - G Specular gold cone. W Specular wheat cone.
 - H Specular mocha cone. Y Specular pewter cone.
 - P Specular graphite cone. Z Specular bronze cone.
 - S Softglow® finishes: add S before color letters. e.g. SW for Softglow® wheat cone, SC for Softglow® clear cone.
 - V347 347 volt ballast, contact factory.
 - EBH5 Electronic ballast, 150W, specify volts.
 - 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.

Dimensions and Lamps



Number	A Depth	B Aperture	C Width	D Length	Lamps*
R7306	11 1/4" 286mm	7 1/4" 184mm	14" 356mm	18 3/4" 476mm	39-70-150W T-6 Metal halide clear

*To specify add watts and volts for proper ballast, e.g. R7306-39277.

Brightness

Number	Lamps	85°	75°	65°	55°	45°
R7306	39W T-6 MH Clear	3	12	21	1192	18212
	70W T-6 MH Clear	4	19	32	1473	36152
	150W T-6 MH Clear	13	47	90	3057	79414

Data in footlamberts. Photometer readings, Maximum Brightness Method.

Matching Units

Directional downlight Page R14
 Wall washer Page R35

R13 R7306

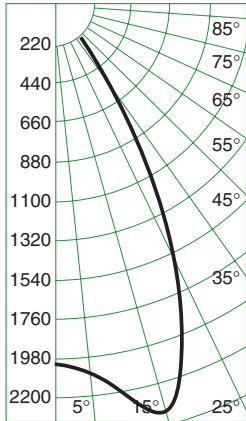
Performance Datachart

Single Unit Initial Footcandles, 30" Work Plane						Ceiling to Floor		Multiple Units Initial Footcandles, 30" Work Plane				
R7306 39W T-6 MH Read Top Data								Ceiling 80% Walls 50% Floor 20%				
R7306 70W T-6 MH Read Bottom Data								Spacing is Maximum Over Work Plane				
Nadir	10°		20°		30°							
FC	FC	Diam	FC	Diam	FC	Diam			Spacing	RCR 1	RCR 3	RCR 8
36	39	3'	31	5'	12	9'	10'		7'	42	37	27
72	75	3'	63	5'	26	9'			8'	80	70	51
22	24	3'	19	7'	7	11'	12'		9'	26	23	17
45	47	3'	39	7'	16	11'			10'	50	43	32
15	16	4'	13	8'	5	13'	14'		11'	18	16	11
30	32	4'	27	8'	11	13'			12'	34	30	22
11	12	5'	10	10'	4	16'	16'		13'	13	11	8
22	23	5'	19	10'	8	16'			14'	25	21	16
7	7	6'	6	13'	2	20'	20'		17'	8	7	5
13	14	6'	11	13'	5	20'			18'	15	13	9

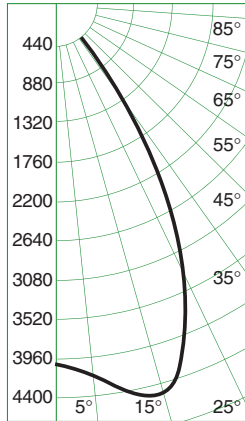
Single Unit Initial Footcandles, 30" Work Plane						Ceiling to Floor		Multiple Units Initial Footcandles, 30" Work Plane				
R7306 150W T-6 MH								Ceiling 80% Walls 50% Floor 20%				
								Spacing is Maximum Over Work Plane				
Nadir	10°		20°		30°							
FC	FC	Diam	FC	Diam	FC	Diam			Spacing	RCR 1	RCR 3	RCR 8
105	104	3'	81	7'	34	11'	12'		9'	122	106	78
61	60	4'	47	9'	20	14'	15'		12'	70	61	45
39	39	5'	30	11'	13	18'	18'		15'	46	40	29
31	31	6'	24	13'	10	20'	20'		17'	36	31	23
19	18	8'	14	16'	6	26'	25'		22'	22	19	14

See note 1.

Candlepower Distribution



R7306 39W T-6 MH
Eff. 65% S/M .99



R7306 70W T-6 MH
Eff. 69% S/M 1.0

Candelas

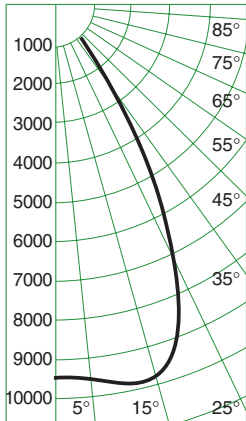
	39W	70W
o	3200*	6200*
0	2022	4031
5	2088	4131
10	2284	4402
15	2352	4568
20	2109	4237
25	1571	3364
30	1035	2291
35	551	1201
40	283	622
45	157	336
50	74	152
55	11	24
60	0	0
65	0	0
70	0	0
75	0	0
80	0	0
85	0	0
90	0	0

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	.79	.77	.75	.73	.75	.72	.72	.70	.70	.68	.65
1											
2	.75	.71	.69	.66	.70	.66	.68	.64	.66	.63	.60
3	.71	.67	.63	.61	.66	.60	.64	.59	.62	.58	.56
4	.68	.62	.59	.56	.62	.56	.60	.55	.59	.54	.53
5	.64	.59	.55	.52	.58	.51	.57	.51	.56	.51	.49
6	.61	.55	.51	.48	.54	.48	.53	.48	.52	.47	.46
7	.58	.52	.48	.45	.51	.45	.50	.44	.50	.44	.43
8	.55	.49	.45	.42	.48	.42	.48	.42	.47	.42	.40
9	.53	.46	.42	.39	.46	.39	.45	.39	.45	.39	.38
10	.50	.44	.40	.37	.43	.37	.43	.37	.42	.37	.36

R7306 39W T-6 MH x .97
R7306 70W T-6 MH x 1.0



R7306 150W T-6 MH
Eff. 68% S/M .96

Notes

- Datachart degree headings show one side of nadir. Diameter data includes both sides. Therefore the 10° column shows a 20° pattern diameter at the work plane. Footcandle values are at the diameter edge.
- Specular colored cone multipliers: Gold x .96, Wheat x .96, Pewter x .92, Mocha x .90, Graphite x .89, Titanium x .89, Bronze x .86, Black x .68.
- Softglow® cone multipliers: Clear x .95, Gold x .92, Wheat x .91, Pewter x .88, Mocha x .86, Graphite x .85, Titanium x .84, Bronze x .77, Black x .64.

	150W
o	13500*
0	9456
5	9608
10	9803
15	9771
20	8806
25	6911
30	4742
35	2577
40	1371
45	739
50	334
55	52
60	18
65	0
70	0
75	0
80	0
85	0
90	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	.77	.75	.73	.72	.74	.71	.71	.69	.68	.67	.63
1											
2	.73	.70	.67	.65	.69	.64	.67	.63	.65	.62	.59
3	.70	.65	.62	.59	.64	.59	.63	.58	.61	.57	.55
4	.66	.61	.58	.55	.60	.54	.59	.54	.58	.53	.52
5	.63	.57	.54	.51	.57	.51	.56	.50	.54	.50	.48
6	.60	.54	.50	.47	.53	.47	.52	.47	.51	.46	.45
7	.57	.51	.47	.44	.50	.44	.50	.44	.49	.43	.42
8	.54	.48	.44	.41	.48	.41	.47	.41	.46	.41	.40
9	.52	.45	.41	.39	.45	.39	.44	.39	.44	.38	.37
10	.49	.43	.39	.36	.43	.36	.42	.36	.42	.36	.35

R7306 150W T-6 MH