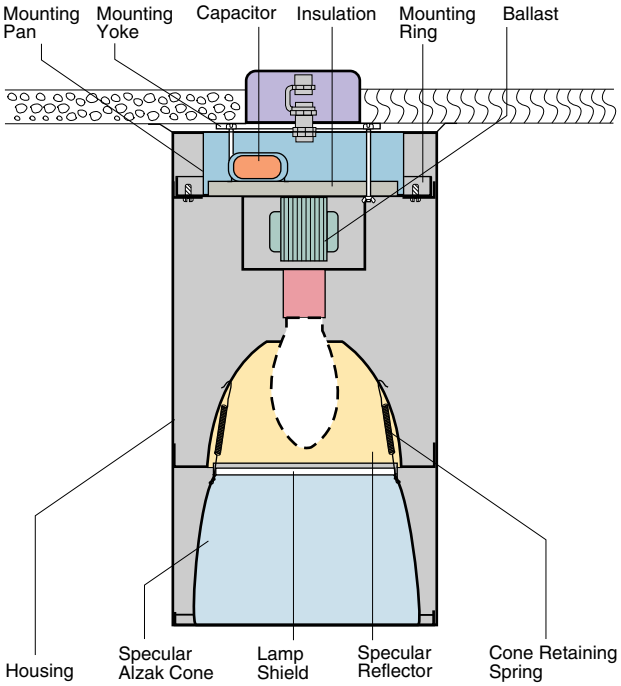
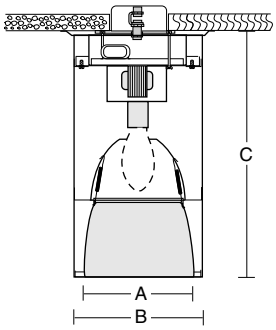


Dimensions and Lamps



Number	A Aperture	B Diameter	C Depth	Lamps
S61-175	11½" 292 mm	13⅝" 346 mm	27¾" 705 mm	175W E-28 or BT-28 Metal Halide Clear
S62-250	11½" 292 mm	13⅝" 346 mm	27¾" 705 mm	250W E-28 or BT-28 Metal Halide Clear
S63-400	11½" 292 mm	16" 406 mm	31" 787 mm	400W E-37 or BT-37 Metal Halide Clear

S61 DISCONTINUED
See S31, Page S1

S62 DISCONTINUED
See S32, Page S2

S63 DISCONTINUED
See S33, Page S2

Narrow Distribution
175-250-400W Metal Halide
Conoid Apertures

Optics and Applications
Primary reflectors produce narrow distribution patterns with clear lamps. Coated lamps have wider distribution. Use in high ceilings as required in atriums, malls, convention centers, transportation terminals etc.

Design Features
The capacitor is protected from lamp and ballast heat. Lamp shields are standard. For directional surface cylinder model contact the factory.

Finish
Specular clear Alzak cones are standard. Optional colors and Softglow® finishes available. Cylinders are satin brushed then sprayed and baked matte white enamel. Interiors are optical matte black.

Ballasts
Magnetic core and coil with capacitor correction to 95% high power factor. HX up to 150W. CWA for 175W. Inrush current is controlled and lamp wattage regulated for line voltage variations up to 10%. Class H 180°C insulation and 90°C capacitors are standard. Replace failed lamps immediately. Ballast is dual voltage 120-277, shipped for 277V. Simple field correction to 120V.

General
Fixtures are wired, ready for installation. Listed with UL and C-UL. Union made IBEW. Luminaire Efficiency Rating (LER) data is in the photometric directory located in Section Z.

Accessories
B Black cone.
G Gold cone.
H Mocha cone.
P Graphite cone.
S Softglow® finishes: add S before color letters. e.g. SW for Softglow® wheat cone, SC for Softglow® clear cone.
T Titanium cone.
W Wheat cone.
Y Pewter cone.
Z Bronze cone.
U Ballast fuse.
M Wall mount.
OP Open construction.
V347 347 volt ballast.
YK Yoke mounting, remote magnetic ballast.
EC Emergency circuit with mini-can socket and leads.*
PSM Pendant mount, 21" length.
ES Extra stem length, specify length.
PUL Pulse start ballast, contact the factory.
AO Instant restrike magnetic Auto-On system. S61, S62 auxiliary lamp 150W T-4. S63 auxiliary 250W T-4.
EX Exterior application.
BA Brushed aluminum finish.
CC Custom color.
HPS High pressure sodium.
*Use open rated 60W max. auxiliary incandescent lamp.

Matching Units
Recessed downlights — Pages R22, R23, R24
Recessed directionals — Pages R25, R26

S3 S61 S62 S63

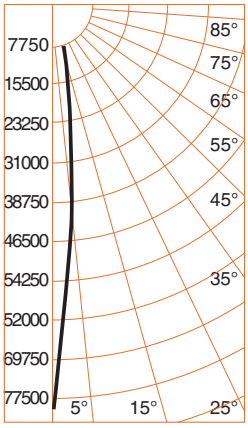
Footcandle Values at Nadir

Distance	20'					30'					40'					50'				
	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
S61 175W E-28 Clear	194	104	3	51	7	86	46	5	23	11	49	26	7	13	14	31	17	9	8	18
S62 250W E-28 Clear	253	154	3	80	7	112	69	5	36	11	63	39	7	20	14	40	25	9	13	18
Distance	40'					50'					60'					70'				
S63 400W E-37 Clear	199	70	7	22	14	127	45	9	14	18	88	31	10	10	21	65	23	12	7	25

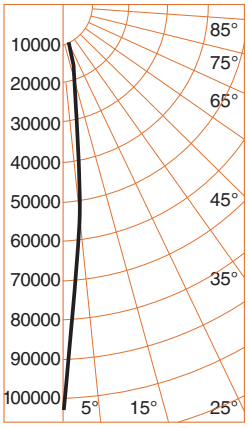
Distance	15'					20'					30'					40'				
	Nadir	10°		15°		Nadir	10°		15°		Nadir	10°		15°		Nadir	10°		15°	
Lamps	FC	FC	Diam	FC	Diam	FC	FC	Diam	FC	Diam	FC	FC	Diam	FC	Diam	FC	FC	Diam	FC	Diam
S61 175W E-28 Coated	69	46	5	35	8	39	26	7	20	11	17	12	11	9	16	10	7	14	5	21
S62 250W E-28 Coated	101	68	5	52	8	57	39	7	29	11	25	17	11	13	16	14	10	14	7	21
Distance	20'					30'					40'					50'				
S63 400W E-37 Coated	84	43	7	29	14	37	19	11	13	16	21	11	14	7	21	13	7	18	5	2

See notes 3 and 4.

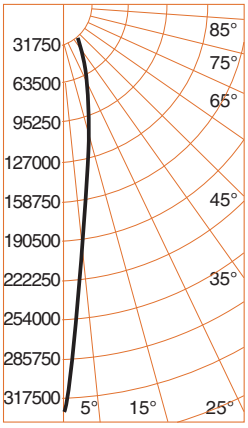
Candlepower Distribution



S61 175W E-28 Clear
Eff. 56% S/M .20



S62 250W E-28 Clear
Eff. 58% S/M .24



S63 400W E-37 Clear
Eff. 41% S/M .1

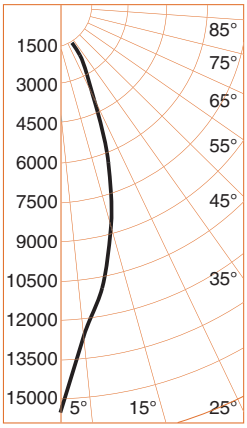
Candelas

o	175W 14000*	250W 20500*	400W 36000*
0	77788	101115	318510
5	41995	62456	113170
10	21474	33708	36710
15	9256	14645	12620
20	3814	5992	4880
25	2383	3848	1930
30	1619	2255	840
35	666	783	570
40	94	120	350
45	37	56	220
50	0	0	130
55	0	0	0
60	0	0	0
65	0	0	0
70	0	0	0
75	0	0	0
80	0	0	0
85	0	0	0
90	0	0	0

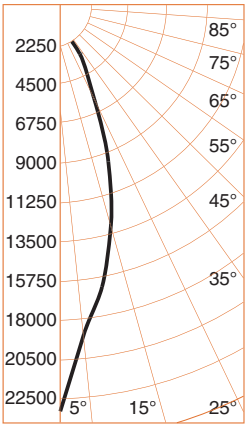
o Vertical Angles
* Initial Lamp Lumens, Clear

Notes

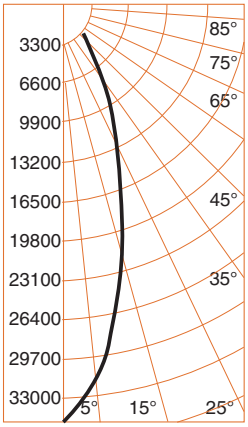
1 Data with clear specular cones.
2 Colored cone multipliers, coated lamps: Wheat x .87, Pewter x .86, Bronze x .78, Black x .68.
3 Colored cone multipliers, clear lamps: Wheat x .96, Pewter x .94, Bronze x .93, Black x .83.
4 Values are determined by the number of degrees from each side of nadir.
5 Kurt Versen believes data computed from the Average Luminance Method are inaccurate for small aperture down-lights. They are theo-retical calculations derived for large surfaces such as troffer lenses. We recommend the stricter standard of Maximum Brightness Method point data from direct photometer readings. They closely approximate what the human eye perceives when evaluating glare. For a complete discus-sion refer to section Z brochure Z1.



S61 175W E-28 Coated
Eff. 46% S/M .54



S62 250W E-28 Coated
Eff. 46% S/M .54



S63 400W E-37 Coated
Eff. 30% S/M .4

o	175W 14000*	250W 20500*	400W 36000*
0	15504	22821	33462
5	12826	18785	28497
10	10910	16135	18101
15	8812	12868	12727
20	6408	9402	9250
25	4115	6010	6408
30	2288	3370	4077
35	1143	1558	2203
40	572	728	1198
45	191	265	618
50	88	128	252
55	37	53	2
60	10	24	0
65	0	10	0
70	0	0	0
75	0	0	0
80	0	0	0
85	0	0	0
90	0	0	0

o Vertical Angles
* Initial Lamp Lumens, Coated

Brightness

Number	Lamps	85°	75°	65°	55°	45°
S61	175W E-28 Clear	55	77	139	1263	40704
S62	250W E-28 Clear	62	94	175	1830	58986
S63	400W E-37 Clear	84	129	226	3129	78977

Number	Lamps	85°	75°	65°	55°	45°
S61	175W E-28 Coated	79	126	205	1065	32971
S62	250W E-28 Coated	111	179	321	1777	53968
S63	400W E-37 Coated	144	233	409	2316	71349

Data in footlamberts. Photometer readings, Maximum Brightness Method. See note 5.