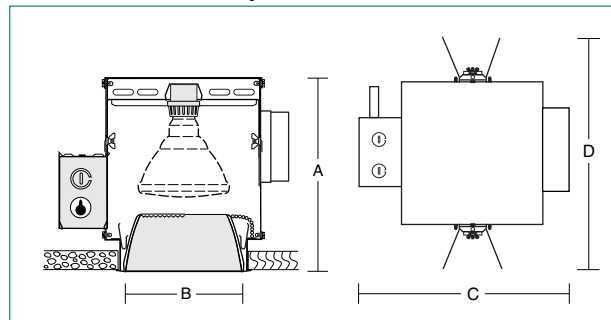


Dimensions and Lamps



Number	A Depth	B Aperture	C Width	D Length	Lamps*
H8602	10" 254mm	6" sq. 153mm	12½" 318mm	14" 356mm	39W PAR-30L MH 70W PAR-38 MH
H8602-100	11" 279mm	6" sq. 153mm	16¾" 426mm	16½" 419mm	100W PAR-38 MH**

*To specify add watts and volts for proper ballast, e.g. H8602-70277.

**For 150W contact factory. Remote ballast.

Matching Square Units

Downlights
Directionals
Wall washers

Pages H7, H8, H10, H11
Pages H5, H6, H9
Pages H37, H38, H39
H40, H41, H42

H8602

H25a

Downlight
PAR-30L, PAR-38 Metal Halide Lamps
6" Square Parabolic Trim

Optics and Applications

PAR lamps offer a selection of beam spreads with controlled patterns. Vertical socket adjustment is provided for lamp depth variation. Parabolic trim contours control glare. Use anywhere for general purpose lighting.

Design Features

Square parabolic trim sections control brightness while spill light is redirected to the workspace. Aperture appearance from normal viewing angles appears as a soft luminous glow. Maximum ceiling thickness 1½". Top or bottom service.

Ballast

The electronic metal halide ballast provides more constant lumen and wattage output. Features thermal protection with auto reset, quiet operation and automatic shut-down at end of life. Draws less energy than a magnetic ballast.

Finish

Housing and structural parts are painted matte black. The aperture trim is Softglow® clear. Special finishes, textures and colors are available. See Accessories.

Trim Textures

Kurt Versen has a selection of textured square trims. All textured surfaces are available in anodic special colors.

General

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

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. | WHT | White complete trim. |
| FC | Four cell cross baffle. | HL | Hexcell louver.** |
| V347 | 347 volt ballast, contact the factory. | LL | Linear lens.** |
| FR | Frosting on lens. | LP | Large prism lens.** |
| EC | Emergency circuit with mini-can socket and leads.* | MP | Microprism lens.** |

EBH5 Electronic ballast, 150W. Contact factory.

AOE1 Electronic ballast Auto-On restrike system 120V.*

AOE2 Electronic ballast Auto-On restrike system 277V.*

FLT6 Full lens trim. Specify lens type, e.g. H8602-FLT6LL.

FF30-2 Accessory holder for PAR-30. Holds two accessories.

FF38-1 Accessory holder for PAR-38. Holds one accessory.

FF38-2 Accessory holder for PAR-38. Holds two accessories.

*Use open rated 60W max. auxiliary incandescent lamp.

**Requires Accessory holder.

See Squares brochure for more accessories data.



Kurt Versen Company

Point Source Lighting
Westwood, New Jersey 07675

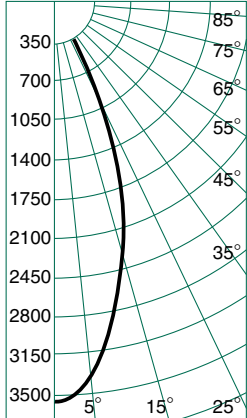
H25a H8602

Performance Datachart

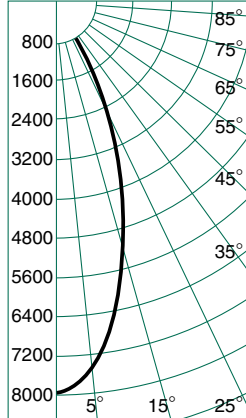
Single Unit Initial Footcandles, 30" Work Plane						Ceiling to Floor		Multiple Units Initial Footcandles, 30" Work Plane							
H8602 39W PAR-30 FL 25° MH Read Top Data								Ceiling 80% Walls 50% Floor 20%							
H8602 70W PAR-30 FL 25° MH Read Bottom Data								Spacing is Maximum Over Work Plane							
Nadir		10°		20°		30°		Spacing		RCR 1		RCR 3		RCR 8	
FC	FC	Diam	FC	Diam	FC	Diam									
40	30	3'	16	7'	4	11'	12'		6'	57	51	40			
88	68	3'	35	7'	10	11'			6'	123	110	87			
27	21	4'	11	8'	3	13'	14'		7'	39	35	27			
60	46	4'	24	8'	7	13'			7'	84	75	59			
20	15	5'	8	10'	2	16'	16'		8'	28	25	20			
44	34	5'	17	10'	5	16'			8'	61	54	43			
15	11	5'	6	11'	2	18'	18'		9'	21	19	15			
33	25	5'	13	11'	4	18'			9'	46	41	33			
12	9	6'	5	13'	1	20'	20'		11'	17	15	12			
26	20	6'	10	13'	3	20'			11'	36	32	26			

Single Unit Initial Footcandles, 30" Work Plane						Ceiling to Floor		Multiple Units Initial Footcandles, 30" Work Plane							
H8602 100W PAR-38WFL 40° MH Read Top Data								Ceiling 80% Walls 50% Floor 20%							
H8602 100W PAR-38FL 25° MH Read Bottom Data								Spacing is Maximum Over Work Plane							
Nadir		10°		20°		30°		Spacing		RCR 1		RCR 3		RCR 8	
FC	FC	Diam	FC	Diam	FC	Diam									
91	84	3'	52	7'	10	11'	12'		7'	98	87	69			
175	145	3'	55	7'	8	11'			5'	218	197	162			
62	58	4'	35	8'	7	13'	14'		9'	67	60	47			
119	99	4'	38	8'	5	13'			7'	149	135	111			
34	32	5'	19	11'	4	18'	18'		12'	37	33	26			
66	54	5'	21	11'	3	18'			9'	82	74	61			
27	25	6'	15	13'	3	20'	20'		13'	29	26	20			
51	43	6'	16	13'	2	20'			10'	64	58	48			
16	15	8'	9	16'	2	26'	25'		17'	18	16	12			
31	26	8'	10	16'	1	26'			13'	39	35	29			

Candlepower Distribution



H8602 39W PAR-30L 25° MH
Eff. 75% S/M .60



H8602 70W PAR-38 25° MH
Eff. 76% S/M .61

Candelas

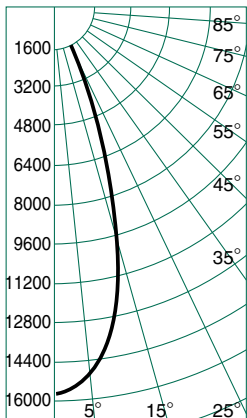
°	39W	70W
	2200*	4850*
0	3591	7981
5	3368	7484
10	2877	6394
15	2275	5056
20	1715	3835
25	1098	2441
30	611	1358
35	249	554
40	97	217
45	32	72
50	11	32
55	5	17
60	0	0
65	0	0
70	0	0
75	0	0
80	0	0
85	0	0
90	0	0

° Vertical Angles
* Initial Lamp Lumens

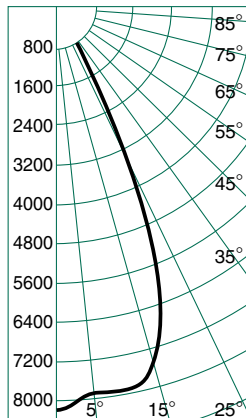
Coefficients of Utilization

Ceiling	80%				70%				50%				30%				0			
	70	50	30	10	50	10	50	10	50	10	50	10	50	10	50	10	50	10	50	
Wall %	Zonal Cavity Method - Floor Reflectance 20%																			
RCR																				
1	.87	.85	.84	.82	.84	.81	.81	.78	.78	.76	.73	.76	.78	.76	.72	.69	.76	.78	.76	.73
2	.84	.80	.78	.76	.79	.75	.77	.73	.75	.72	.69	.76	.78	.76	.72	.69	.76	.78	.76	.73
3	.80	.76	.73	.70	.75	.70	.73	.69	.71	.68	.66	.76	.78	.76	.72	.69	.76	.78	.76	.73
4	.77	.72	.69	.66	.71	.66	.70	.65	.68	.64	.62	.76	.78	.76	.72	.69	.76	.78	.76	.73
5	.74	.69	.65	.62	.68	.62	.67	.61	.66	.61	.59	.76	.78	.76	.72	.69	.76	.78	.76	.73
6	.71	.65	.62	.59	.65	.59	.64	.58	.63	.58	.57	.76	.78	.76	.72	.69	.76	.78	.76	.73
7	.68	.62	.59	.56	.62	.56	.61	.55	.60	.55	.54	.76	.78	.76	.72	.69	.76	.78	.76	.73
8	.66	.60	.56	.53	.59	.53	.59	.53	.58	.53	.52	.76	.78	.76	.72	.69	.76	.78	.76	.73
9	.63	.57	.53	.51	.57	.51	.56	.51	.56	.50	.49	.76	.78	.76	.72	.69	.76	.78	.76	.73
10	.61	.55	.51	.49	.55	.49	.54	.48	.53	.48	.47	.76	.78	.76	.72	.69	.76	.78	.76	.73

H8602 39W PAR-30L 25° MH Philips
H8602 70W PAR-38 25° MH Philips
H8602 100W PAR-38 25° MH Philips x 1.13



H8602 100W PAR-38 25° MH
Eff. 84% S/M .57



H8602 100W PAR-38 40° MH
Eff. 72% S/M .77

°	100W	100W
	6800*	6500*
0	15764	8203
5	15006	7949
10	13655	7984
15	9751	7560
20	6004	5634
25	2600	3038
30	1070	1409
35	367	476
40	162	188
45	61	68
50	34	33
55	0	19
60	0	14
65	0	0
70	0	0
75	0	0
80	0	0
85	0	0
90	0	0

° Vertical Angles
* Initial Lamp Lumens

Ceiling	80%				70%				50%				30%				0			
	70	50	30	10	50	10	50	10	50	10	50	10	50	10	50	10	50	10	50	
Wall %	Zonal Cavity Method - Floor Reflectance 20%																			
RCR																				
1	.82	.81	.79	.78	.79	.76	.76	.74	.74	.72	.69	.76	.78	.76	.72	.69	.76	.78	.76	.73
2	.79	.76	.74	.72	.75	.71	.73	.69	.70	.68	.65	.76	.78	.76	.72	.69	.76	.78	.76	.73
3	.76	.72	.69	.67	.71	.66	.69	.65	.68	.64	.62	.76	.78	.76	.72	.69	.76	.78	.76	.73
4	.73	.68	.65	.63	.68	.62	.66	.62	.65	.61	.59	.76	.78	.76	.72	.69	.76	.78	.76	.73
5	.70	.65	.62	.59	.64	.59	.63	.58	.62	.58	.56	.76	.78	.76	.72	.69	.76	.78	.76	.73
6	.67	.62	.59	.56	.62	.56	.61	.55	.60	.55	.54	.76	.78	.76	.72	.69	.76	.78	.76	.73
7	.65	.59	.56	.53	.59	.53	.58	.53	.57	.53	.51	.76	.78	.76	.72	.69	.76	.78	.76	.73
8	.62	.57	.53	.51	.56	.51	.56	.50	.55	.50	.49	.76	.78	.76	.72	.69	.76	.78	.76	.73
9	.60	.54	.51	.48	.54	.48	.53	.48	.53	.48	.47	.76	.78	.76	.72	.69	.76	.78	.76	.73
10	.58	.52	.49	.46	.52	.46	.51	.46	.51	.46	.45	.76	.78	.76	.72	.69	.76	.78	.76	.73

H8602 100W PAR-38 40° MH Osram