

R7410

Directional
70-150W PAR-30, PAR-38 Metal Halide
5⁷/₈" Conoid Aperture

Optics and Applications

For PAR lamps with beam spreads from 10° to 65°. Use in open bottom fixtures without a lamp shield as an HID directional to highlight display objects, plantings, architectural elements, mannequins, paintings, sculpture etc.

Design Features

The lamp-reflector assembly rotates 360° and tilts 45°. It locks in any selected position. The mechanism features quick movement for gross aiming, then precise fine adjustments are made by an insulated threaded turnbuckle. The lamp is always oriented to the center of the cone regardless of tilt or rotation. Maximum ceiling thickness 7⁷/₈". Aim or relamp from above or below.

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.

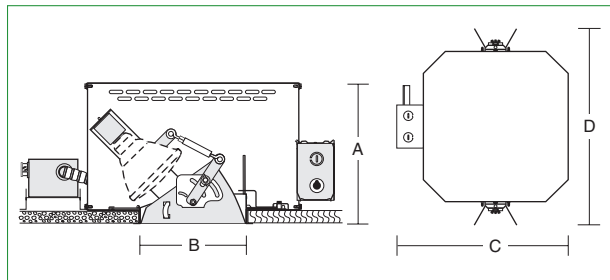
Ballast

Standard ballast is encased and potted magnetic. Type HX, HPF, 120V or 277V taps. Shipped for 277V, field conversion to 120V. Thermally protected with auto reset. Temperature -20°F to 105°F. Comes mounted on a plate with 4' of flex. End of life protection not available, replace failed lamps immediately. Service through the aperture requires 14¹/₂" plenum depth for the ballast to swing up for removal. Optional 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. Service through the aperture.

Accessories

- R2 26" support rails.
- R5 52" support rails.
- B Specular black cone.
- G Specular gold cone.
- H Specular mocha cone.
- P Specular graphite cone.
- T Specular titanium cone.
- W Specular wheat cone.
- Y Specular pewter 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.
- EBH 70-100W electronic ballast, specify watts and volts.
- EBH5 150W electronic ballast, specify volts.
- V347 347 volt ballast, contact factory.
- EC Emergency circuit with mini-can socket and leads.*
- AO Magnetic ballast restrike Auto-On system.*
- AOE1 Electronic ballast Auto-On restrike system 120V.*
- AOE2 Electronic ballast Auto-On restrike system 277V.*
- FF30-2 Holder for PAR-30 lamps. Accepts two accessories.
- FF38-1 Holder for PAR-38 lamps. One accessory, 10° to 45° tilt.
- FF38-2 Holder for PAR-38 lamps. Two accessories, 10° to 45° tilt. Requires shallower CDC cut down cone.
- CDC Cut down cone.
- WT White trim flange.
- WHT White complete trim.
- F Ballast fuse.
- HL Hexcell louver.†
- LL Linear spread lens.†
- LP Large prism lens.†
- MP Microprism lens.†
- FR Frosting on lenses.†
- UV UV filter.†
- STC Straight top cone.

Dimensions and Lamps



Number	A Depth	B Aperture	C Width	D Length	Lamps
R7410*	10 ¹ / ₄ " 260mm	5 ⁷ / ₈ " 149mm	15 ¹ / ₂ " 394mm	18 ¹ / ₄ " 464mm	39-70W PAR-30L 70-150W PAR-38

*To specify add watts and volts for proper ballast, e.g. R7410-70277.

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 do not apply to fixtures using reflector type lamps.

Matching Units

- Vertical lamp downlights Pages R3, R4, R5
- Horizontal lamp downlights Pages R6, C9, P1, P52
- Other directionals Pages C22, C23, K3, K6
- Wall washers Pages R32, E4, E5, E6, E8, P31, P61, P62, P63

†Requires accessory holder.

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



Kurt Versen Company Point Source Lighting
 Westwood, New Jersey 07675

R7 R7410

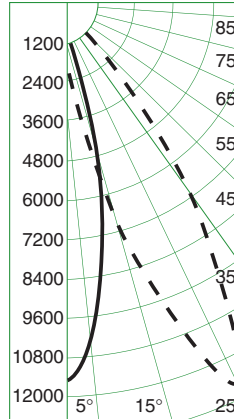
Footcandle Values at Nadir

Distance	10'			15'			20'			25'										
	Nadir	10°	20°	Nadir	10°	20°	Nadir	10°	20°	Nadir	10°	20°								
Lamps Flood	FC	FC	Diam	FC	FC	Diam	FC	FC	Diam	FC	FC	Diam								
R7410 70W PAR-38 FL	54	48	4'	20	7'	24	21	5'	9	11'	13	12	7'	5	15'	9	8	9'	3	18'
R7410 100W PAR-38 FL	93	83	4'	34	7'	41	37	5'	15	11'	23	21	7'	8	15'	15	13	9'	5	18'
R7410 100W PAR-38 VWFL	47	40	4'	28	7'	21	18	5'	12	11'	12	10	7'	7	15'	7	6	9'	4	18'
R7410 150W PAR-38 FL	141	126	4'	51	7'	63	56	5'	23	11'	35	31	7'	13	15'	23	20	9'	8	18'

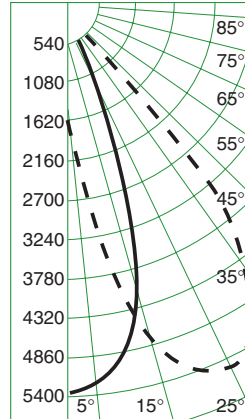
Distance	10'			15'			20'			25'										
	Nadir	5°	10°	Nadir	5°	10°	Nadir	5°	10°	Nadir	5°	10°								
Lamps Spot	FC	FC	Diam	FC	FC	Diam	FC	FC	Diam	FC	FC	Diam								
R7410 70W PAR-38 SP	116	101	2'	71	4'	51	45	3'	32	5'	29	25	3'	18	7'	18	16	4'	11	9'
R7410 150W PAR-38 SP	306	266	2'	188	4'	136	118	3'	83	5'	76	67	3'	47	7'	49	43	4'	30	9'

See note 4.

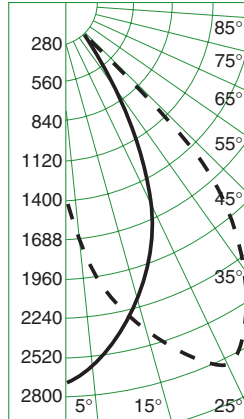
Candlepower Distribution



R7410 70W PAR-38 SP
Eff. 76% S/M .41



R7410 70W PAR-38 FL
Eff. 65% S/M .64



R7410 70W PAR-38 VWFL
Eff. 64% S/M .84

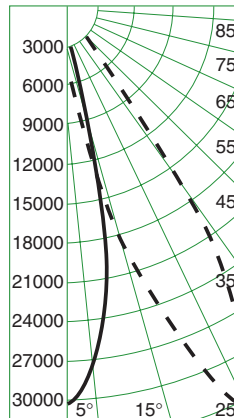
Candelas at Nadir

°	70W SP	70W FL	70W WFL
	3400*	3400*	3400*
0	11550	5394	2719
5	10189	5328	2649
10	7443	5043	2400
15	3640	4097	2166
20	1839	2358	1918
25	998	1044	1612
30	483	438	1184
35	194	150	728
40	63	51	394
45	12	17	130
50	0	3	12
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

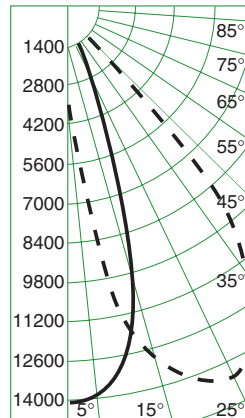
° Vertical Angles
* Initial Lamp Lumens

Notes

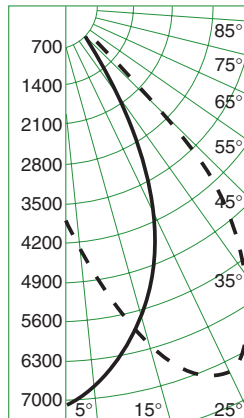
- Data derived with clear specular cones.
- Colored cone multipliers vary with lamp source, beam orientation and degree of angulation. Contact the factory for specific data.
- Candlepower distribution curves: solid lines show horizontal distribution at nadir, dotted lines show horizontal distribution at 25° lamp tilt.
- Degree headings are measured from one side of nadir. Diameter data includes both sides. Therefore the 5° column describes a total 10° pattern diameter above the floor. Footcandle values are at the diameter edge. Values are determined with lamp tilt at 0°. Angulation changes all data.
- Brightness data from the Average Luminance Method are inaccurate for small aperture downlights. They are theoretical calculations derived for large surfaces such as troffers. For a complete discussion refer to section Z brochure Z1.



R7410 150W PAR-38 SP
Eff. 78% S/M .41



R7410 150W PAR-38 FL
Eff. 67% S/M .64



R7410 150W PAR-38 VWFL
Eff. 65% S/M .85

°	150W SP	150W FL	VWFL
	8800*	8800*	8800*
0	30538	14110	7095
5	26942	13917	6937
10	19650	13186	6281
15	9635	10713	5725
20	4838	6150	5034
25	2629	2735	4235
30	1285	1173	3092
35	522	428	1889
40	174	163	1037
45	34	60	358
50	9	17	36
55	0	3	18
60	0	0	7
65	0	0	0
70	0	0	0
75	0	0	0
80	0	0	0
85	0	0	0
90	0	0	0

° Vertical Angles
* Initial Lamp Lumens

Brightness

Number	Lamps	85°	75°	65°	55°	45°
R7410	70W PAR-38 VWFL	45	118	206	541	7772
	100W PAR-38 VWFL	76	193	358	889	13263
	150W PAR-38 VWFL	101	280	542	1294	19235

Number	Lamps	85°	75°	65°	55°	45°
R7410	70W PAR-38 FL MH	34	73	119	303	2647
	100W PAR-38 FL MH	57	116	193	491	4337
	150W PAR-38 FL MH	83	169	280	702	6274

Data in footlamberts. Photometer readings, Maximum Brightness Method.
See note 5. Data collected with lamps tilted 25°.