

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD
EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (Pfc = 0.20)

EFFECTIVE CEILING CAVITY REFLECTANCE - PERCENT	WALL REFLECTANCE												
	80	70	50	30	10	50	30	10	50	30	10	0	
0	83.80	79.80	79.77	76.75	74.73	72.71	69.68	68.66	66.64	65.63	62.62	61.59	57
1	74.71	68	67.68	66.66	64.65	63.62	62.61	61.59	57	57	55.53	53.51	49
2	65.61	57	56.59	56.56	54.55	53.53	52.52	51.51	49	49	47.44	46.43	41
3	57.52	48	48.56	47.53	46.51	45.50	44.49	43.48	41	41	39.36	38.35	33
4	50.44	40	40.43	39.42	38.40	37.39	36.38	35.37	33	33	31.19	30.18	25
5	44.37	33	33.32	32.31	31.29	30.28	29.27	28.26	25	25	23.09	22.08	17
6	38.30	27	27.26	26.25	25.23	24.22	23.21	22.20	19	19	17.02	16.01	11
7	34.27	22	22.21	21.20	20.19	19.18	18.17	17.16	15	15	12.84	11.83	7
8	30.23	19	19.18	18.17	17.16	16.15	15.14	14.13	12	12	9.51	8.50	3
9	27.21	17	17.20	16.19	15.18	14.17	13.16	12.15	10	10	7.18	6.17	1
10	25.19	16	16.18	15.17	14.16	13.15	12.14	11.13	9	9	5.84	4.83	0

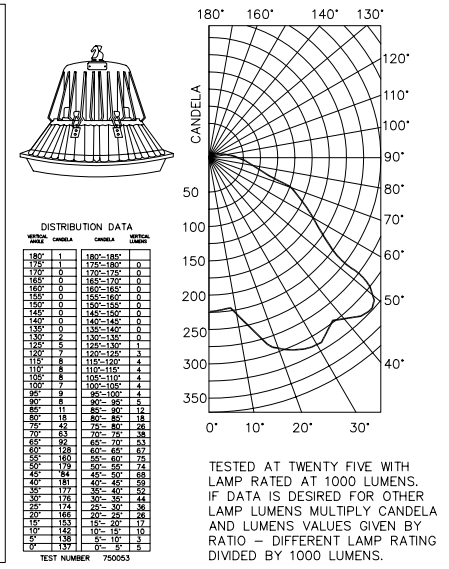
MAXIMUM RECOMMENDED SPACING:
1.8 TIMES HEIGHT ABOVE WORKING PLANE

CANDELA AND LUMEN ARE SHOWN FOR 1000 LUMENS AT THE SOURCE. EXPECTED PERFORMANCE VALUES FOR ANY OF THESE ITEMS MAY BE DETERMINED BY MULTIPLYING GIVEN VALUES BY AN APPROPRIATE FACTOR SUCH AS LAMP LUMEN RATING X BALLAST FACTOR X MAINTENANCE FACTOR - 1000 LUMENS.

PER 1000 LAMPS LUMENS

SHIELDING - ANGLE BELOW HORIZONTAL	ARC TUBE LAMP SHIELDED AT	GLASS ENVELOPE ALL ANGLES
180°	0°	0°
150°	30°	30°
120°	60°	60°
90°	90°	90°
60°	120°	120°
30°	150°	150°
0°	180°	180°

SUMMARY DATA		AVERAGE BRIGHTNESS	
ZONE	LUMENS BARE LAMP LUMINAIRE	VERT ANGLE	FT LAMBERTS
0-90°	486 3 4	85°	55
0-60°	533 53 75	75°	81
0-30°	537 71 100	65°	123
0-180°	315 71 100	65°	123
TOTAL EFFICIENCY 71		*SEE COMMENT IN CONNECTION WITH DRAWING BY 892	



HPS-122 150 WATT LOWMOUNT HIGH PRESSURE SODIUM (WEATHER PROOF)

FIXTURE SHALL HAVE DIECAST ALUMINUM BALLAST HOUSING, SPUN ALUMINUM REFLECTOR, ALZAK PROTECTED INSIDE AND OUT. REFLECTOR SHALL BE GASKETED AND SPUN ONTO REFLECTOR FOR MAXIMUM SEAL RELIABILITY. PROVIDE ENCLOSED ACTIVATED CHARCOAL FILTER.

REFLECTOR SHALL BE UV STABILIZED INJECTION MOLDED ACRYLIC PLASTIC.

PROVIDE LUMINAIRE WITH GASKETS AT ALL POINTS WHERE WATER AND DUST ENTRY IS PROBABLE, ALL EXTERNAL HARDWARE TO BE STAINLESS STEEL.

THE BALLAST SHALL START, AND OPERATE THE LAMP IN AMBIENT TEMPERATURES DOWN TO 20 DEGREES F. THE FIXTURE SHALL OPERATE WITH INPUT VOLTAGE VARIATIONS OF PLUS OR MINUS 10% FROM NOMINAL. AT RATED LINE VOLTAGE THE BALLAST SHALL HAVE A MINIMUM POWER FACTOR OF 95%.

THE COEFFICIENT OF UTILIZATION SHALL BE NOT LESS THAN .57 BASED ON A CEILING REFLECTANCE OF 50%, WALL REFLECTANCE OF 30%, FLOOR REFLECTANCE OF 20%, AND A ROOM CAVITY RATIO OF 2. EACH UNIT SHALL BE COMPLETELY WIRED AND EQUIPPED WITH ALL AUXILIARIES.

PROVIDE A BACKUP 250 WATT SINGLE ENDED BAYONET TYPE QUARTZ LAMP. LAMP WILL REMAIN ON UNTIL HID LAMP REACHES 60% OF FULL LIGHT OUTPUT.

PROVIDE G.E. MODEL LOW MOUNT 400 OR APPROVED EQUAL.

- LAMP (1) 400 WATT CLEAR HIGH PRESSURE SODIUM
- BALLAST HPS-122 REGULATOR, VOLTAGE AS SHOWN ON DRAWINGS