



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

905 Harrison Street · Allentown, PA 18103 · (610) 770-1044 · Fax (610) 770-8912 · www.LuminaireTesting.com

LTL NUMBER: 01618

DATE: 5-20-1994

PREPARED FOR: MERCURY LIGHTING PROD.

CATALOG NUMBER: 35E-332-OCT-9A-ELB-120V /
35E-332-OCT-9A-ELB-120V-20GA

LUMINAIRE: FORMED STEEL HOUSING, WHITE ENAMEL REFLECTOR,
CLEAR PRISMATIC ACRYLIC LENS.

BALLAST: ONE EBT SSB2-120-3/32IS LH.

LAMPS: THREE GE F32T8-SP41 RATED 2900 LUMENS EACH.

MOUNTING: RECESS

LUMEN TO CANDELA RATIO USED = 9.17

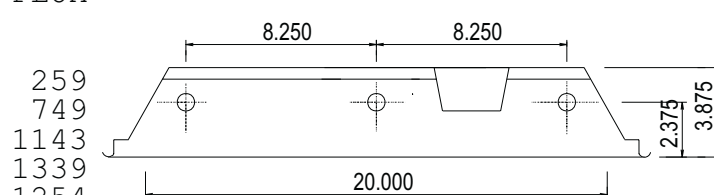
TOTAL INPUT WATTS = 85.4 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	2727	2727	2727	2727	2727
5	2710	2725	2720	2723	2722
15	2614	2638	2651	2671	2678
25	2403	2442	2487	2527	2538
35	2047	2088	2151	2205	2223
45	1535	1573	1626	1680	1711
55	975	997	1055	1107	1136
65	550	528	519	573	599
75	345	271	250	275	331
85	121	107	94	99	112
90	19	17	16	19	22

FLUX #01618



ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	2152	24.7	32.3
0- 40	3491	40.1	52.5
0- 60	5689	65.4	85.5
0- 90	6653	76.5	100.0
90-180	0	0.0	0.0
0-180	6653	76.5	100.0

TOTAL LUMINAIRE EFFICIENCY: 76.5%

TOTAL REFLECTANCE OF PAINT: 89.4%

CIE TYPE: DIRECT

PLANE: 0-DEG 90-DEG

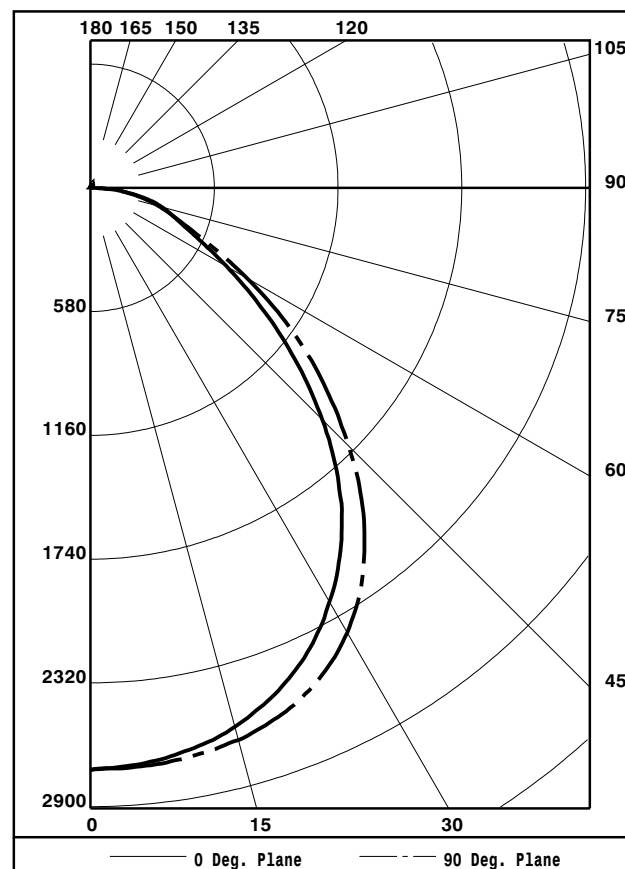
SPACING CRITERIA: 1.2 1.3

SHIELDING ANGLES: 90 90

LUMINOUS LENGTH: 45.500 21.500

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	4321.	4321.	4321.
45	3439.	3643.	3834.
55	2693.	2914.	3138.
65	2062.	1946.	2246.
75	2112.	1530.	2026.
85	2200.	1709.	2036.



TESTED BY JOHN HAYES

CHECKED BY JAY LANGTHORN

THIS REPORT BASED ON LM-41 AND OTHER PERTINENT IES PROCEDURES.



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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD
EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0	91	91	91	91	89	89	89	89	85	85	85	81	81	81	78	78	78	76	76	76	76
1	84	81	78	76	82	80	77	75	76	74	72	73	72	70	71	69	68	67	67	67	67
2	78	73	68	64	76	71	67	64	69	65	62	66	63	61	64	61	59	58	58	58	58
3	72	65	60	55	70	64	59	55	62	57	54	60	56	53	58	55	52	51	51	51	51
4	67	58	52	48	65	57	52	48	56	51	47	54	50	46	52	49	46	44	44	44	44
5	61	52	46	41	60	51	45	41	50	45	41	48	44	40	47	43	40	38	38	38	38
6	57	47	41	36	55	46	40	36	45	40	36	44	39	35	43	38	35	34	34	34	34
7	52	43	36	32	51	42	36	32	41	35	31	40	35	31	39	34	31	30	30	30	30
8	48	38	32	28	47	38	32	28	37	31	27	36	31	27	35	30	27	26	26	26	26
9	44	34	28	24	43	34	28	24	33	28	24	32	27	24	31	27	24	22	22	22	22
10	41	31	25	21	40	31	25	21	30	25	21	29	25	21	29	24	21	20	20	20	20

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	2727	2727	2727	2727	2727
5	2710	2725	2720	2723	2722
10	2673	2691	2692	2706	2707
15	2614	2638	2651	2671	2678
20	2526	2557	2584	2615	2624
25	2403	2442	2487	2527	2538
30	2239	2288	2349	2394	2406
35	2047	2088	2151	2205	2223
40	1810	1843	1900	1958	1990
45	1535	1573	1626	1680	1711
50	1251	1286	1344	1397	1425
55	975	997	1055	1107	1136
60	737	742	771	826	845
65	550	528	519	573	599
70	428	371	337	390	437
75	345	271	250	275	331
80	241	190	180	189	227
85	121	107	94	99	112
90	19	17	16	19	22

ZONAL LUMEN SUMMARY

0- 5	65.
5- 10	194.
10- 15	318.
15- 20	432.
20- 25	532.
25- 30	611.
30- 35	662.
35- 40	677.
40- 45	654.
45- 50	600.
50- 55	521.
55- 60	423.
60- 65	321.
65- 70	230.
70- 75	172.
75- 80	129.
80- 85	82.
85- 90	30.

THIS TEST WAS CONDUCTED USING RELATIVE PHOTOMETRY TECHNIQUES ACCORDING TO STANDARD IESNA PROCEDURES. THE USER MUST THEREFORE USE CAUTION IN THE FOLLOWING SITUATIONS: 1) THIS TEST WAS PERFORMED USING A SPECIFIC BALLAST/LAMP COMBINATION. EXTRAPOLATION OF THESE DATA FOR OTHER BALLAST/LAMP COMBINATIONS MAY PRODUCE ERRONEOUS RESULTS. 2) ACCORDING TO IESNA PROCEDURES, THE BALLAST(S) AND LAMP(S) ARE PRESUMED TO PRODUCE 100% OF RATED OUTPUT. AN APPROPRIATE BALLAST FACTOR MUST BE APPLIED TO THE LUMEN OUTPUT RATINGS AND LUMINOUS INTENSITY VALUES GIVEN. 3) THIS TEST WAS CONDUCTED IN A CONTROLLED LABORATORY ENVIRONMENT WHERE THE AMBIENT TEMPERATURE WAS HELD AT 25°C ±1°C. FIELD PERFORMANCE MAY DIFFER PARTICULARLY IN REGARDS TO CHANGE IN LUMINOUS OUTPUT AS A RESULT OF DIFFERENCE IN AMBIENT TEMPERATURE AND METHOD OF MOUNTING THE LUMINAIRE.



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VISUAL COMFORT PROBABILITY TABLE

RATED LUMENS PER LAMP 2900.

100. FC. ROOM		REFLECTANCES 80/50/20 LUMINAIRES 0 DEG PLANE				LUMINAIRES 90 DEG PLANE			
W	L	8.5	10.0	13.0	16.0	8.5	10.0	13.0	16.0
20	20	66	70	76	83	65	68	74	81
20	30	59	62	68	74	58	61	65	71
20	40	55	57	62	67	55	57	61	65
20	60	51	54	57	62	51	54	56	60
30	20	67	71	75	81	66	69	74	80
30	30	60	63	67	72	59	62	65	70
30	40	55	58	61	65	55	57	60	63
30	60	51	53	55	59	51	54	55	58
30	80	49	51	52	56	50	52	52	55
40	20	69	72	76	81	68	71	75	80
40	30	61	64	68	71	61	64	66	70
40	40	56	59	62	65	56	59	61	63
40	60	51	54	56	59	52	54	55	58
40	80	49	51	52	55	50	52	52	55
40	100	48	50	50	52	49	51	51	53
60	30	62	66	68	72	62	65	67	71
60	40	57	60	62	65	57	60	61	64
60	60	52	55	56	59	53	55	56	58
60	80	49	52	52	55	51	52	52	55
60	100	48	50	49	52	49	51	50	52
100	40	60	62	64	67	60	62	64	66
100	60	55	57	58	61	56	57	58	60
100	80	52	54	53	56	53	54	54	56
100	100	50	51	51	53	51	52	52	53