



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 01632

DATE: 5-20-1994

PREPARED FOR: MERCURY LIGHTING PROD.

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

LUMINAIRE: FORMED STEEL HOUSING, WHITE ENAMEL REFLECTOR,
1" HIGH 1.5" x 1.5" PLASTIC PARABOLIC SPECULAR LOUVER.

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

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

MOUNTING: RECESS

LUMEN TO CANDELA RATIO USED = 9.17

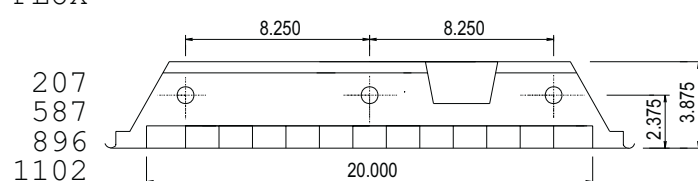
TOTAL INPUT WATTS = 85.8 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	2188	2188	2188	2188	2188
5	2176	2189	2182	2177	2174
15	2077	2087	2073	2073	2071
25	1884	1885	1923	2002	2022
35	1615	1638	1773	1880	1911
45	1243	1327	1461	1568	1650
55	63	202	341	292	110
65	2	3	3	2	2
75	1	1	1	1	1
85	1	1	1	1	1
90	0	0	0	0	0

FLUX #01632



ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	1691	19.4	40.3
0- 40	2793	32.1	66.6
0- 60	4187	48.1	99.9
0- 90	4192	48.2	100.0
90-180	0	0.0	0.0
0-180	4192	48.2	100.0

TOTAL LUMINAIRE EFFICIENCY: 48.2%

TOTAL REFLECTANCE OF PAINT: 89.4%

CIE TYPE: DIRECT

PLANE: 0-DEG 90-DEG

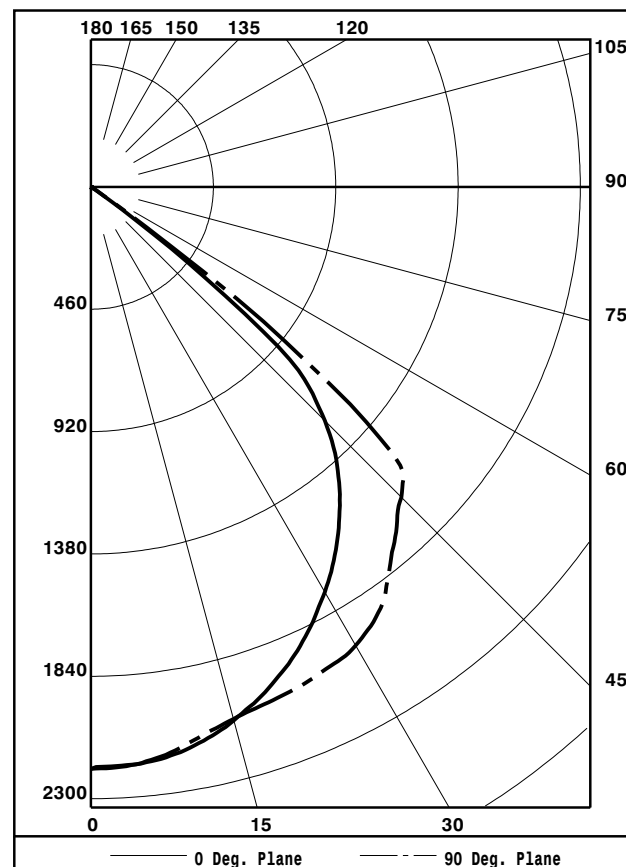
SPACING CRITERIA: 1.2 1.4

SHIELDING ANGLES: 43 43

LUMINOUS LENGTH: 44.250 20.000

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	3832.	3832.	3832.
45	3079.	3618.	4087.
55	192.	1041.	336.
65	8.	12.	8.
75	7.	7.	7.
85	20.	20.	20.



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	0
0	57	57	57	57	56	56	56	56	54	54	54	51	51	51	49	49	49	48
1	54	53	51	50	53	52	50	49	50	49	48	48	47	46	46	46	45	44
2	51	48	46	44	50	48	46	44	46	44	43	45	43	42	43	42	41	40
3	48	44	42	39	47	44	41	39	42	40	38	41	39	38	40	39	37	36
4	45	41	37	35	44	40	37	35	39	36	34	38	36	34	37	35	34	33
5	42	37	34	31	41	36	33	31	36	33	31	35	32	30	34	32	30	29
6	39	34	30	28	38	33	30	28	33	30	28	32	29	27	31	29	27	26
7	36	31	27	25	35	30	27	25	30	27	24	29	26	24	28	26	24	23
8	33	28	24	22	33	27	24	22	27	24	21	26	23	21	26	23	21	20
9	31	25	21	19	30	25	21	19	24	21	19	24	21	19	23	20	19	18
10	28	23	19	17	28	22	19	17	22	19	17	21	19	17	21	18	16	16

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	2188	2188	2188	2188	2188
5	2176	2189	2182	2177	2174
10	2141	2155	2145	2133	2123
15	2077	2087	2073	2073	2071
20	1990	1997	1992	2036	2045
25	1884	1885	1923	2002	2022
30	1758	1762	1853	1959	1991
35	1615	1638	1773	1880	1911
40	1452	1507	1666	1745	1768
45	1243	1327	1461	1568	1650
50	845	904	1010	1163	1272
55	63	202	341	292	110
60	2	4	24	3	2
65	2	3	3	2	2
70	1	2	2	2	1
75	1	1	1	1	1
80	0	0	0	0	0
85	1	1	1	1	1
90	0	0	0	0	0

ZONAL LUMEN SUMMARY

0- 5	52.
5- 10	155.
10- 15	250.
15- 20	337.
20- 25	415.
25- 30	481.
30- 35	535.
35- 40	568.
40- 45	576.
45- 50	525.
50- 55	272.
55- 60	22.
60- 65	1.
65- 70	1.
70- 75	1.
75- 80	0.
80- 85	1.
85- 90	1.

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. REFLECTANCES 80/50/20		LUMINAIRE 0 DEG PLANE				LUMINAIRE 90 DEG PLANE			
ROOM		8.5	10.0	13.0	16.0	8.5	10.0	13.0	16.0
W	L								
20	20	91	96	92	84	87	94	90	80
20	30	91	96	93	85	87	94	90	80
20	40	91	96	93	85	87	94	90	80
20	60	91	96	93	85	88	95	90	81
30	20	91	96	93	86	87	94	90	83
30	30	91	96	93	87	88	95	90	83
30	40	91	96	93	87	88	95	90	83
30	60	92	96	93	87	88	95	91	84
30	80	92	96	93	87	88	95	91	84
40	20	91	96	93	87	87	94	90	83
40	30	91	96	93	87	88	95	90	83
40	40	92	96	93	87	88	95	91	84
40	60	92	96	93	87	88	95	91	84
40	80	92	96	93	87	88	95	91	84
40	100	92	96	93	87	88	95	91	84
60	30	92	96	93	87	88	95	91	84
60	40	92	96	93	87	88	95	91	84
60	60	92	96	93	87	88	95	91	84
60	80	92	97	94	87	88	95	91	84
60	100	92	97	94	88	88	95	91	84
100	40	92	96	93	87	88	95	91	84
100	60	92	97	94	88	88	95	91	84
100	80	92	97	94	88	89	95	91	84
100	100	92	97	94	88	89	95	91	84