



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 06992

DATE: 10-04-2002

PREPARED FOR: MERCURY LIGHTING PRODUCTS COMPANY INC.

CATALOG NUMBER: 34E-232-OCT-U6-9A-ELB-120V

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

LAMPS: TWO PHILIPS FB32T8/TL735/6 RATED AT 2750 LUMENS EACH.

BALLAST: ONE ADVANCE REL-2P32-SC

MOUNTING: RECESSED

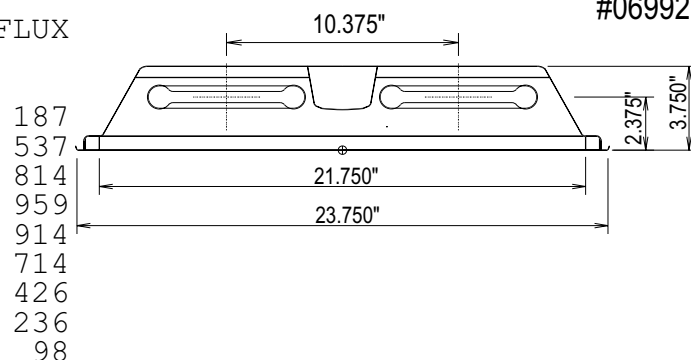
TOTAL INPUT WATTS = 57.0 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	1968	1968	1968	1968	1968
5	1955	1959	1961	1964	1967
15	1869	1884	1903	1921	1931
25	1700	1720	1767	1812	1831
35	1446	1475	1532	1598	1629
45	1107	1123	1176	1246	1282
55	729	749	799	844	887
65	416	415	390	435	493
75	260	232	178	216	245
85	106	100	85	89	96
90	7	8	11	12	12

FLUX



#06992

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	1538	28.0	31.5
0- 40	2496	45.4	51.1
0- 60	4124	75.0	84.4
0- 90	4884	88.8	100.0
90-180	0	0.0	0.0
0-180	4884	88.8	100.0

TOTAL LUMINAIRE EFFICIENCY: 88.8%

TOTAL REFLECTANCE OF PAINT: 89.8%

CIE TYPE: DIRECT

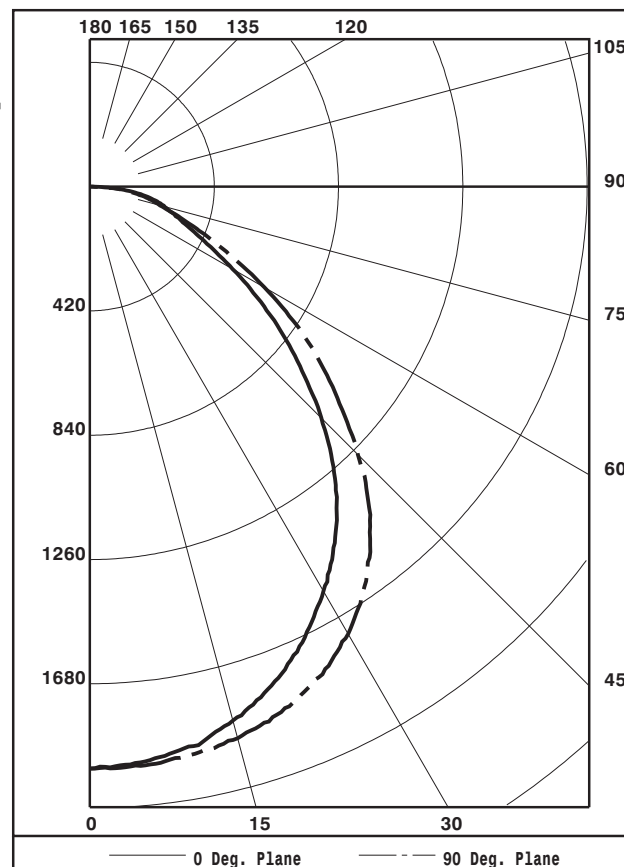
PLANE: 0-DEG 90-DEG

SPACING CRITERIA: 1.2 1.3

LUMINOUS LENGTH: 21.625 21.750

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	6485.	6485.	6485.
45	5159.	5480.	5974.
55	4188.	4590.	5096.
65	3244.	3041.	3844.
75	3310.	2266.	3119.
85	4008.	3214.	3630.



TESTED BY HERSCHEL SCHRECK
CHECKED BY MIKE GRATHER

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	106	106	106	106	103	103	103	103	99	99	99		94	94	94		91	91	91		89
1	98	94	91	88	95	92	89	86	88	86	84		85	83	81		82	80	79		77
2	90	84	78	74	88	82	77	73	79	75	71		76	73	70		74	71	68		67
3	83	75	69	63	81	74	68	63	71	66	62		69	64	61		67	63	60		58
4	77	67	60	55	75	66	60	54	64	58	54		62	57	53		60	56	52		51
5	71	60	53	47	69	59	52	47	57	51	46		56	50	46		54	49	45		44
6	65	54	47	41	64	53	46	41	52	45	41		50	45	40		49	44	40		38
7	60	49	41	36	59	48	41	36	47	40	36		46	40	36		44	39	35		34
8	56	44	37	32	54	43	36	31	42	36	31		41	35	31		40	35	31		29
9	51	39	32	27	50	39	32	27	38	32	27		37	31	27		36	31	27		25
10	48	36	29	24	46	35	29	24	35	28	24		34	28	24		33	28	24		22

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	1968	1968	1968	1968	1968
5	1955	1959	1961	1964	1967
10	1923	1927	1939	1947	1952
15	1869	1884	1903	1921	1931
20	1796	1813	1845	1876	1891
25	1700	1720	1767	1812	1831
30	1579	1607	1664	1719	1746
35	1446	1475	1532	1598	1629
40	1289	1310	1363	1433	1473
45	1107	1123	1176	1246	1282
50	915	933	992	1050	1082
55	729	749	799	844	887
60	557	565	587	624	681
65	416	415	390	435	493
70	323	310	248	301	348
75	260	232	178	216	245
80	198	169	147	153	180
85	106	100	85	89	96
90	7	8	11	12	12

ZONAL LUMEN SUMMARY

0- 5	47.
5- 10	140.
10- 15	228.
15- 20	309.
20- 25	379.
25- 30	435.
30- 35	472.
35- 40	487.
40- 45	474.
45- 50	439.
50- 55	391.
55- 60	323.
60- 65	246.
65- 70	181.
70- 75	133.
75- 80	103.
80- 85	71.
85- 90	26.

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 2750.

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	54	59	66	75	53	56	63	72
20	30	45	50	56	64	46	49	53	60
20	40	40	44	50	56	42	44	48	52
20	60	36	40	44	49	38	41	43	48
30	20	56	60	65	73	55	58	63	70
30	30	46	51	55	61	47	50	53	58
30	40	41	44	48	53	42	45	48	51
30	60	36	39	42	47	38	41	42	46
30	80	34	37	38	43	36	39	40	43
40	20	58	62	66	72	57	60	64	70
40	30	48	52	56	61	49	52	54	59
40	40	42	46	49	53	43	46	49	51
40	60	37	40	42	46	39	42	43	46
40	80	34	37	38	42	37	39	40	42
40	100	33	35	36	39	36	38	38	40
60	30	49	54	57	61	50	53	56	60
60	40	43	47	50	53	44	47	49	52
60	60	38	41	42	46	39	42	43	46
60	80	35	37	38	42	37	39	40	42
60	100	34	35	35	38	36	37	38	40
100	40	46	50	52	56	47	50	52	55
100	60	41	43	45	49	42	44	45	49
100	80	37	39	40	43	39	41	41	44
100	100	36	37	37	40	37	39	39	41

THIS TABLE WAS CALCULATED ACCORDING TO IESNA LM-42-72. THE VCP CALCULATION PROCEDURE IS MOST ACCURATE FOR LUMINAIRES THAT EXHIBIT THE FOLLOWING CHARACTERISTICS. 1). LUMINAIRE IS RELATIVELY CONSISTANT IN LUMINANCE 2). LUMINAIRE HAS WELL-DEFINED LUMINOUS EDGES AND 3). LUMINAIRE UTILIZES FLUORESCENT LAMPS. CAUTION SHOULD BE USED WHEN APPLYING VCP VALUES BASED ON LUMINAIRES THAT DO NOT CONFORM TO THE ABOVE CONDITIONS.