



LUMINAIRE TESTING LABORATORY, INC.

IES
SUSTAINING
MEMBER

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

LTL NUMBER: 01621

DATE: 5-20-1994

PREPARED FOR: MERCURY LIGHTING PROD.

CATALOG NUMBER: 35E-232-OCT-LSPW-ELB-120V/

35E-232-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 MOTOROLA M2-IN-T8-120.

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

MOUNTING: RECESS

LUMEN TO CANDELA RATIO USED = 9.17

TOTAL INPUT WATTS = 59.1 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	1445	1445	1445	1445	1445
5	1446	1445	1447	1451	1450
15	1380	1399	1430	1451	1448
25	1250	1294	1356	1439	1461
35	1070	1154	1314	1470	1521
45	813	972	1141	1248	1272
55	39	133	231	86	21
65	1	1	1	1	1
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	1170	20.2	38.9
0- 40	1989	34.3	66.1
0- 60	3005	51.8	99.9
0- 90	3007	51.8	100.0
90-180	0	0.0	0.0
0-180	3007	51.8	100.0

TOTAL LUMINAIRE EFFICIENCY: 51.8%

TOTAL REFLECTANCE OF PAINT: 90.4%

CIE TYPE: DIRECT

PLANE: 0-DEG 90-DEG

SPACING CRITERIA: 1.2 1.6

SHIELDING ANGLES: 43 43

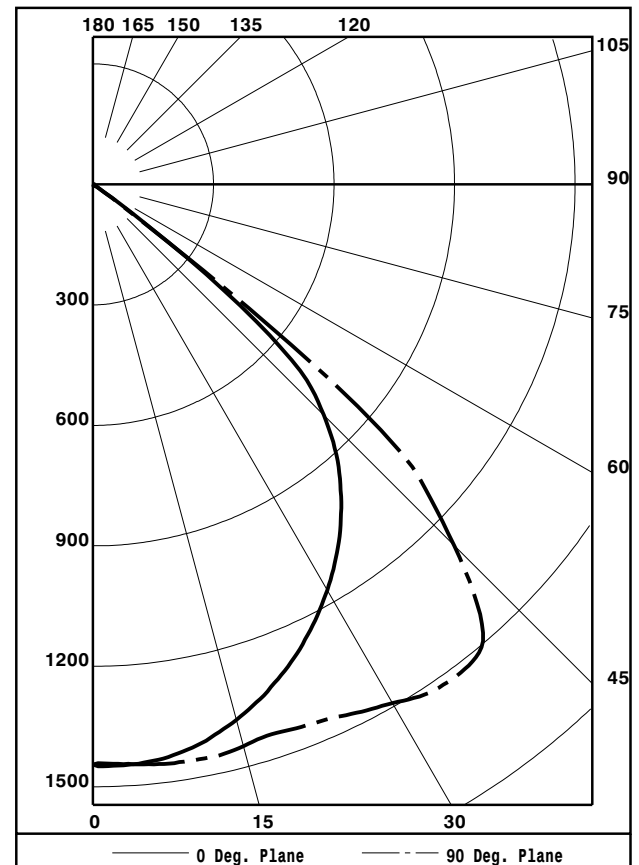
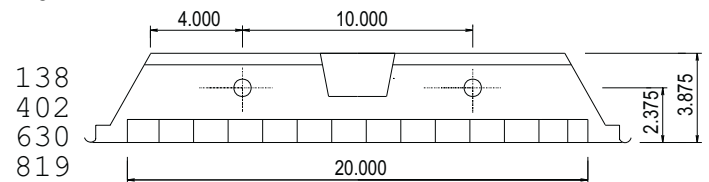
LUMINOUS LENGTH: 44.250 20.000

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	2531.	2531.	2531.
45	2014.	2826.	3150.
55	119.	705.	64.
65	4.	4.	4.
75	0.	0.	0.
85	0.	0.	0.

FLUX

#01621



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	62	62	62	62	60	60	60	60	58	58	58	55	55	55	53	53	53	52
1	58	57	55	54	57	56	54	53	53	52	51	52	51	50	50	49	48	47
2	55	52	50	48	54	51	49	47	50	48	46	48	46	45	46	45	44	43
3	52	48	45	42	50	47	44	42	46	43	41	44	42	41	43	41	40	39
4	48	44	40	38	47	43	40	37	42	39	37	41	38	37	40	38	36	35
5	45	40	36	33	44	39	36	33	38	35	33	37	35	33	36	34	32	31
6	42	36	33	30	41	36	32	30	35	32	30	34	31	29	33	31	29	28
7	39	33	29	26	38	32	29	26	32	29	26	31	28	26	30	28	26	25
8	36	30	26	23	35	29	26	23	29	25	23	28	25	23	27	25	23	22
9	33	26	23	20	32	26	22	20	26	22	20	25	22	20	25	22	20	19
10	30	24	20	18	30	24	20	18	23	20	18	23	20	17	22	19	17	17

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	1445	1445	1445	1445	1445
5	1446	1445	1447	1451	1450
10	1424	1432	1448	1456	1455
15	1380	1399	1430	1451	1448
20	1321	1353	1394	1432	1444
25	1250	1294	1356	1439	1461
30	1167	1226	1336	1454	1491
35	1070	1154	1314	1470	1521
40	956	1078	1275	1434	1505
45	813	972	1141	1248	1272
50	532	666	804	790	861
55	39	133	231	86	21
60	1	2	12	1	1
65	1	1	1	1	1
70	1	1	1	1	1
75	0	0	0	0	0
80	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

ZONAL LUMEN SUMMARY

0- 5	35.
5- 10	104.
10- 15	170.
15- 20	232.
20- 25	288.
25- 30	341.
30- 35	390.
35- 40	429.
40- 45	443.
45- 50	386.
50- 55	175.
55- 60	11.
60- 65	1.
65- 70	1.
70- 75	0.
75- 80	0.
80- 85	0.
85- 90	0.

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	93	97	93	89	90	97	89	84
20	30	93	97	93	89	91	97	90	84
20	40	93	97	93	89	91	97	90	85
20	60	93	97	94	90	91	97	90	85
30	20	93	97	93	90	91	97	90	87
30	30	93	97	94	91	91	97	90	87
30	40	93	97	94	91	91	97	91	87
30	60	93	97	94	91	91	97	91	88
30	80	94	97	94	91	92	97	91	88
40	20	93	97	93	91	91	97	90	87
40	30	93	97	94	91	91	97	91	87
40	40	93	97	94	91	91	97	91	88
40	60	94	97	94	91	92	97	91	88
40	80	94	97	94	91	92	97	91	88
40	100	94	97	94	91	92	97	91	88
60	30	93	97	94	91	91	97	91	88
60	40	94	97	94	91	92	97	91	88
60	60	94	97	94	91	92	97	91	88
60	80	94	97	94	91	92	97	91	88
60	100	94	97	94	91	92	97	91	88
100	40	94	97	94	91	92	97	91	88
100	60	94	97	94	91	92	97	91	88
100	80	94	97	94	92	92	97	91	88
100	100	94	97	94	92	92	97	91	88