

LTL NUMBER: 01630

DATE: 5-25-1994

PREPARED FOR: MERCURY LIGHTING PROD.

CATALOG NUMBER: MIE6-259-OCT-ELB-120V/MIE6-259-OCT-P-ELB-120V-20GA

LUMINAIRE: FORMED STEEL HOUSING, WHITE ENAMEL REFLECTOR, OPEN BOTTOM.

PRORATED FROM LTL TEST #01622

LAMPS: TWO GE F96T8/CW/WM RATED AT 3450 LUMENS EACH.

MOUNTING: SURFACE

LUMEN TO CANDELA RATIO USED = 9.17

TOTAL INPUT WATTS = 60.0 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

CANDELA DISTRIBUTION						FLUX
	0.0	22.5	45.0	67.5	90.0	
0	1735	1735	1735	1735	1735	
5	1724	1731	1738	1733	1737	165
15	1664	1682	1708	1727	1740	483
25	1550	1586	1652	1691	1713	758
35	1386	1450	1549	1641	1681	968
45	1173	1271	1432	1572	1624	1097
55	923	1054	1288	1457	1520	1124
65	641	841	1105	1199	1190	996
75	340	592	625	553	532	582
85	75	148	75	45	42	109
90	11	37	15	4	1	
95	1	19	7	1	0	8
105	0	4	2	0	0	1
115	0	0	0	0	0	0
125	0	0	0	0	0	0
135	0	0	0	0	0	0
145	0	0	0	0	0	0
155	0	0	0	0	0	0
165	0	0	0	0	0	0
175	0	0	0	0	0	0
180	0	0	0	0	0	

ZONAL LUMEN	SUMMARY		
ZONE	LUMENS	%LAMP	%FIXT
0- 30	1406	20.4	22.3
0- 40	2374	34.4	37.7
0- 60	4595	66.6	73.0
0- 90	6282	91.0	99.8
90-120	10	0.1	0.2
90-130	10	0.1	0.2
90-150	10	0.1	0.2
90-180	10	0.1	0.2
0-180	6292	91.2	100.0

TOTAL LUMINAIRE EFFICIENCY: 91.2%

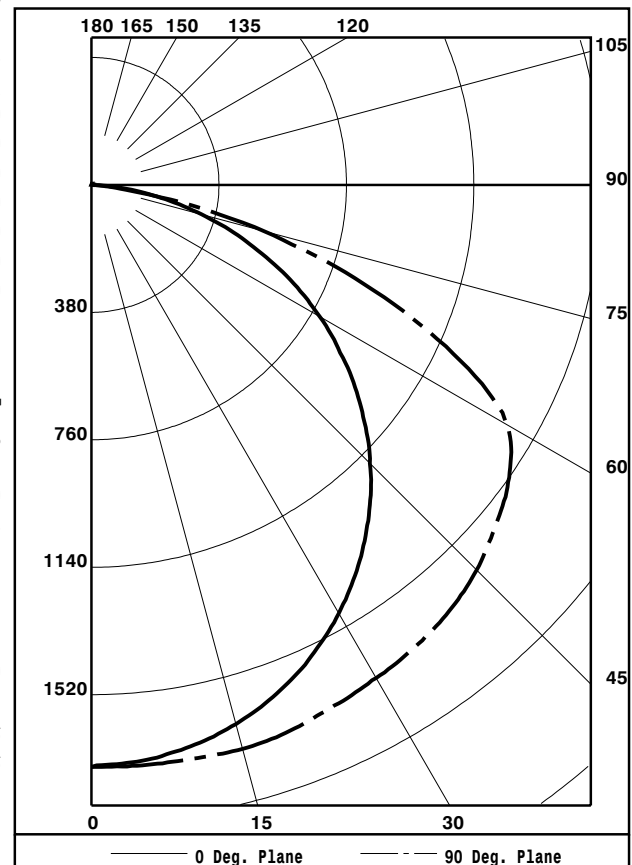
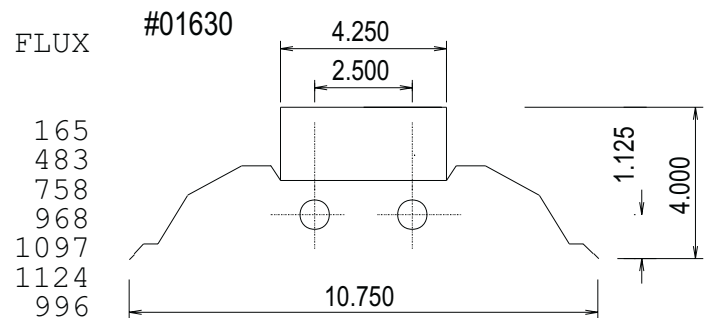
TOTAL REFLECTANCE OF PAINT: 91.0%

CIE TYPE: DIRECT

CIE TYPE:	DIRECT
PLANE:	0-DEG 90-DEG

SPACING CRITERIA:	1.3	1.5
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SPACING CRITERIA:	1.5	1.5
SHIELDING ANGLES:	0	2



TESTED BY JOHN HAYES

CHECKED BY JAY LANGTHORN

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



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

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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	109	109	109	109	106	106	106	106	101	101	101	97	97	97	93	93	93	91
1	99	95	91	87	97	93	89	86	89	86	83	85	83	81	82	80	78	76
2	90	82	76	71	87	80	75	70	77	72	68	74	70	66	71	68	65	63
3	82	72	64	58	79	70	63	58	68	62	57	65	60	56	63	58	55	53
4	74	63	55	49	72	62	54	48	60	53	48	58	52	47	55	50	46	44
5	67	55	47	40	65	54	46	40	52	45	40	50	44	39	49	43	39	37
6	62	49	40	34	60	48	40	34	46	39	34	45	38	33	43	38	33	31
7	57	44	35	29	55	43	35	29	42	34	29	40	34	29	39	33	29	27
8	52	39	31	25	51	38	31	25	37	30	25	36	29	25	35	29	25	23
9	48	35	27	22	46	34	27	21	33	26	21	32	26	21	31	25	21	19
10	44	32	24	19	43	31	24	19	30	23	19	29	23	19	28	23	18	17

PLANE: 0-DEG 90-DEG
LUMINOUS LENGTH: 96.000 10.750

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE	AVERAGE	AVERAGE	AVERAGE
IN DEG	0-DEG	45-DEG	90-DEG
0	2606.	2606.	2606.
45	2491.	3041.	3449.
55	2417.	3372.	3980.
65	2278.	3927.	4229.
75	1973.	3627.	3087.
85	1292.	1292.	724.



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	0.0	22.5	45.0	67.5	90.0
0	1735	1735	1735	1735	1735
5	1724	1731	1738	1733	1737
10	1700	1712	1724	1730	1737
15	1664	1682	1708	1727	1740
20	1614	1638	1686	1717	1731
25	1550	1586	1652	1691	1713
30	1475	1523	1606	1667	1698
35	1386	1450	1549	1641	1681
40	1287	1368	1492	1611	1658
45	1173	1271	1432	1572	1624
50	1054	1165	1367	1517	1575
55	923	1054	1288	1457	1520
60	786	947	1202	1378	1429
65	641	841	1105	1199	1190
70	490	723	926	890	865
75	340	592	625	553	532
80	199	388	319	238	206
85	75	148	75	45	42
90	11	37	15	4	1
95	1	19	7	1	0
100	1	11	5	1	0
105	0	4	2	0	0
110	0	1	1	0	0
115	0	0	0	0	0
120	0	0	0	0	0
125	0	0	0	0	0
130	0	0	0	0	0
135	0	0	0	0	0
140	0	0	0	0	0
145	0	0	0	0	0
150	0	0	0	0	0
155	0	0	0	0	0
160	0	0	0	0	0
165	0	0	0	0	0
170	0	0	0	0	0
175	0	0	0	0	0
180	0	0	0	0	0

ZONAL LUMEN SUMMARY

0- 5	41.
5- 10	124.
10- 15	203.
15- 20	279.
20- 25	348.
25- 30	410.
30- 35	463.
35- 40	506.
40- 45	538.
45- 50	558.
50- 55	565.
55- 60	559.
60- 65	533.
65- 70	464.
70- 75	356.
75- 80	226.
80- 85	90.
85- 90	19.
90- 95	5.
95-100	3.
100-105	1.
105-110	0.
110-115	0.
115-120	0.
120-125	0.
125-130	0.
130-135	0.
135-140	0.
140-145	0.
145-150	0.
150-155	0.
155-160	0.
160-165	0.
165-170	0.
170-175	0.
175-180	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 3450.

100. FC. REFLECTANCES 80/50/20

ROOM 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	50	60	75	87	44	51	66	82
20	30	44	51	61	74	41	44	49	62
20	40	43	47	54	63	43	42	44	50
20	60	42	46	50	57	45	44	42	45
30	20	50	57	70	83	46	52	64	79
30	30	43	48	56	68	43	44	48	60
30	40	41	44	49	58	44	42	42	48
30	60	40	42	45	51	46	44	41	43
30	80	41	43	44	49	48	46	42	43
40	20	52	58	68	80	48	54	64	78
40	30	45	48	54	65	45	46	48	59
40	40	42	44	47	55	46	44	43	47
40	60	41	42	43	48	47	45	41	42
40	80	41	42	41	46	49	47	42	42
40	100	42	42	41	45	51	49	44	43
60	30	48	50	54	63	47	47	49	59
60	40	45	45	47	53	47	45	43	48
60	60	43	42	42	46	49	46	41	42
60	80	42	42	40	43	50	48	42	42
60	100	43	42	40	42	52	50	44	43
100	40	51	50	50	54	51	49	46	50
100	60	48	47	44	47	52	50	44	44
100	80	47	46	42	44	54	51	45	43
100	100	47	45	41	42	55	52	46	44