



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 05578

DATE: 02-02-2001

PREPARED FOR: MERCURY LIGHTING PRODUCTS COMPANY INC.

CATALOG NUMBER: ZB-22-240-BIAX-ELB-120V

LUMINAIRE: FORMED STEEL HOUSING, FORMED WHITE ENAMEL STEEL REFLECTORS,
FORMED PERFORATED WHITE ENAMEL STEEL SHIELD WITH TRANSLUCENT
WHITE ACRYLIC INSERT BELOW LAMPS.

LAMPS: TWO PHILIPS PL-L40W/41/RS RATED AT 3150 LUMENS EACH.

BALLAST: ONE HOWARD INDUSTRIES E2/40IS-TT-120

MOUNTING: RECESSED

TOTAL INPUT WATTS = 68.2 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

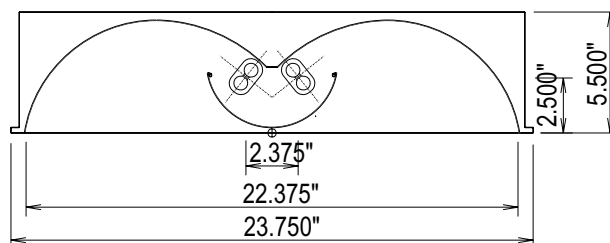
#05578

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	1253	1253	1253	1253	1253
5	1240	1246	1252	1254	1254
15	1185	1195	1213	1227	1231
25	1084	1101	1136	1170	1185
35	942	972	1031	1085	1111
45	767	810	894	970	1005
55	573	629	732	822	863
65	376	432	538	610	636
75	200	231	269	285	302
85	44	51	58	60	60
90	0	0	0	0	0

FLUX

119
343
524
644
687
649
514
278
65



ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	986	15.6	25.8
0- 40	1630	25.9	42.6
0- 60	2966	47.1	77.6
0- 90	3823	60.7	100.0
90-180	0	0.0	0.0
0-180	3823	60.7	100.0

TOTAL LUMINAIRE EFFICIENCY: 60.7%

TOTAL REFLECTANCE OF PAINT: 90.0%

CIE TYPE: DIRECT

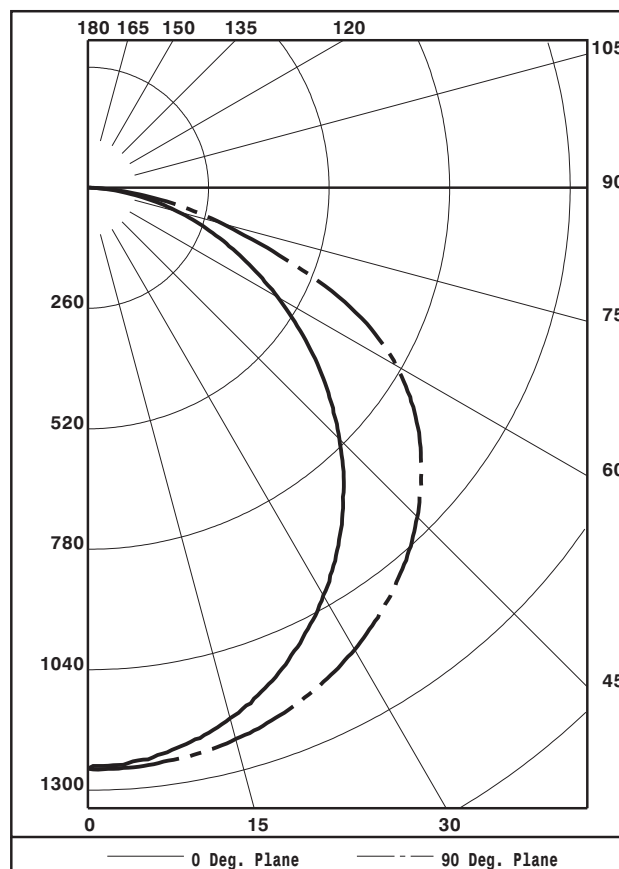
PLANE: 0-DEG 90-DEG

SPACING CRITERIA: 1.2 1.4

LUMINOUS LENGTH: 23.000 22.375

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	3774.	3774.	3774.
45	3267.	3808.	4280.
55	3009.	3844.	4531.
65	2679.	3834.	4532.
75	2327.	3130.	3514.
85	1520.	2004.	2073.



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	72	72	72	72	71	71	71	71	67	67	67	65	65	65	62	62	62	61
1	66	64	61	59	65	62	60	58	60	58	56	57	56	54	55	54	53	52
2	61	56	52	48	59	55	51	48	52	49	47	51	48	46	49	47	45	43
3	55	49	44	41	54	48	44	40	46	43	40	45	42	39	43	41	38	37
4	51	44	38	34	49	43	38	34	41	37	34	40	36	33	39	35	33	31
5	46	38	33	29	45	38	33	29	36	32	28	35	31	28	34	31	28	27
6	42	34	29	25	41	34	29	25	33	28	25	32	27	24	31	27	24	23
7	39	31	25	22	38	30	25	21	29	25	21	28	24	21	28	24	21	20
8	36	27	22	19	35	27	22	18	26	22	18	25	21	18	25	21	18	17
9	33	25	19	16	32	24	19	16	23	19	16	23	19	16	22	18	16	14
10	31	22	17	14	30	22	17	14	21	17	14	21	17	14	20	16	14	13

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	1253	1253	1253	1253	1253
5	1240	1246	1252	1254	1254
10	1219	1226	1237	1244	1247
15	1185	1195	1213	1227	1231
20	1140	1153	1180	1202	1211
25	1084	1101	1136	1170	1185
30	1015	1040	1088	1132	1151
35	942	972	1031	1085	1111
40	858	894	967	1031	1061
45	767	810	894	970	1005
50	673	723	819	900	941
55	573	629	732	822	863
60	472	531	639	728	767
65	376	432	538	610	636
70	286	333	419	449	456
75	200	231	269	285	302
80	119	130	147	166	172
85	44	51	58	60	60
90	0	0	0	0	0

ZONAL LUMEN SUMMARY

0- 5	30.
5- 10	89.
10- 15	145.
15- 20	197.
20- 25	243.
25- 30	281.
30- 35	312.
35- 40	333.
40- 45	344.
45- 50	344.
50- 55	335.
55- 60	314.
60- 65	281.
65- 70	233.
70- 75	170.
75- 80	107.
80- 85	53.
85- 90	12.

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 3150.

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	52	59	72	83	45	51	64	78
20	30	48	52	59	70	40	43	48	60
20	40	47	49	54	61	39	40	43	49
20	60	46	48	50	55	38	39	39	44
30	20	52	58	68	79	48	52	62	76
30	30	47	50	56	66	42	44	47	58
30	40	46	47	50	56	40	40	42	47
30	60	45	46	47	51	39	39	38	42
30	80	45	46	46	49	39	39	37	40
40	20	54	58	66	77	51	55	63	75
40	30	49	51	54	63	44	46	48	57
40	40	47	48	49	54	42	42	42	47
40	60	46	46	46	49	40	40	39	41
40	80	46	46	44	47	40	40	37	39
40	100	47	47	45	46	41	41	37	38
60	30	50	52	54	62	47	49	50	58
60	40	48	49	49	53	44	44	43	47
60	60	47	47	45	48	42	42	39	41
60	80	46	46	44	46	42	41	38	39
60	100	47	46	44	45	42	41	37	38
100	40	52	52	51	55	49	49	47	51
100	60	50	50	47	49	47	46	43	44
100	80	50	49	45	47	46	45	41	41
100	100	50	48	45	46	46	44	40	39