



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 06078

DATE: 08-13-2001

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: 8HF2X32E1-08600SCL/A

LUMINAIRE: FORMED STEEL HOUSING, SPUN SEMI-SPECULAR ALUMINUM REFLECTOR
WITH HAMMERTONE SECTION ABOVE LAMPS, NO ENCLOSURE.

LAMPS: TWO SYLVANIA CF32DT/E/IN/830 RATED AT 2400 LUMENS EACH.

BALLAST: ONE ADVANCE ICF-2S42-M2-LD

MOUNTING: RECESSED

TOTAL INPUT WATTS = 67.9 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	112.5	135.0	157.5	180.0	FLUX
0	1036	1036	1036	1036	1036	1036	1036	1036	1036	
5	1066	1075	1100	1110	1108	1089	1062	1032	1026	105
15	1143	1247	1315	1304	1238	1236	1197	1124	1063	344
25	1119	1249	1327	1309	1173	1159	1104	1026	952	540
35	917	1089	1219	1287	1234	1127	989	774	630	666
45	851	903	1036	1140	1153	1018	838	692	612	723
55	567	543	566	646	693	684	623	596	578	543
65	29	27	29	34	35	36	39	41	39	68
75	6	7	8	9	8	7	7	7	6	8
85	0	0	0	0	0	0	0	0	0	1
90	0	0	0	0	0	0	0	0	0	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	989	20.6	33.0
0- 40	1655	34.5	55.2
0- 60	2921	60.8	97.5
0- 90	2997	62.4	100.0
90-180	0	0.0	0.0
0-180	2997	62.4	100.0

TOTAL LUMINAIRE EFFICIENCY: 62.4%

CIE TYPE: DIRECT

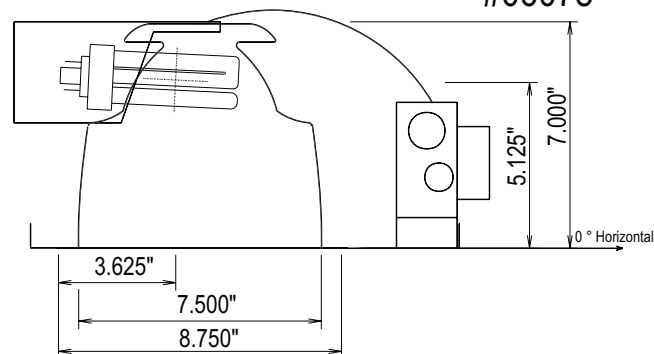
PLANE: 0-DEG 90-DEG 180-DEG

SPACING CRITERIA: 1.4 1.8 1.1

LUMINOUS DIAMETER: 7.500

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	36345.	36345.	36345.
45	42221.	51400.	57205.
55	34680.	34619.	42387.
65	2407.	2407.	2905.
75	813.	1084.	1084.
85	0.	0.	0.



TESTED BY HERSCHEL SCHRECK
CHECKED BY MIKE GRATHER

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



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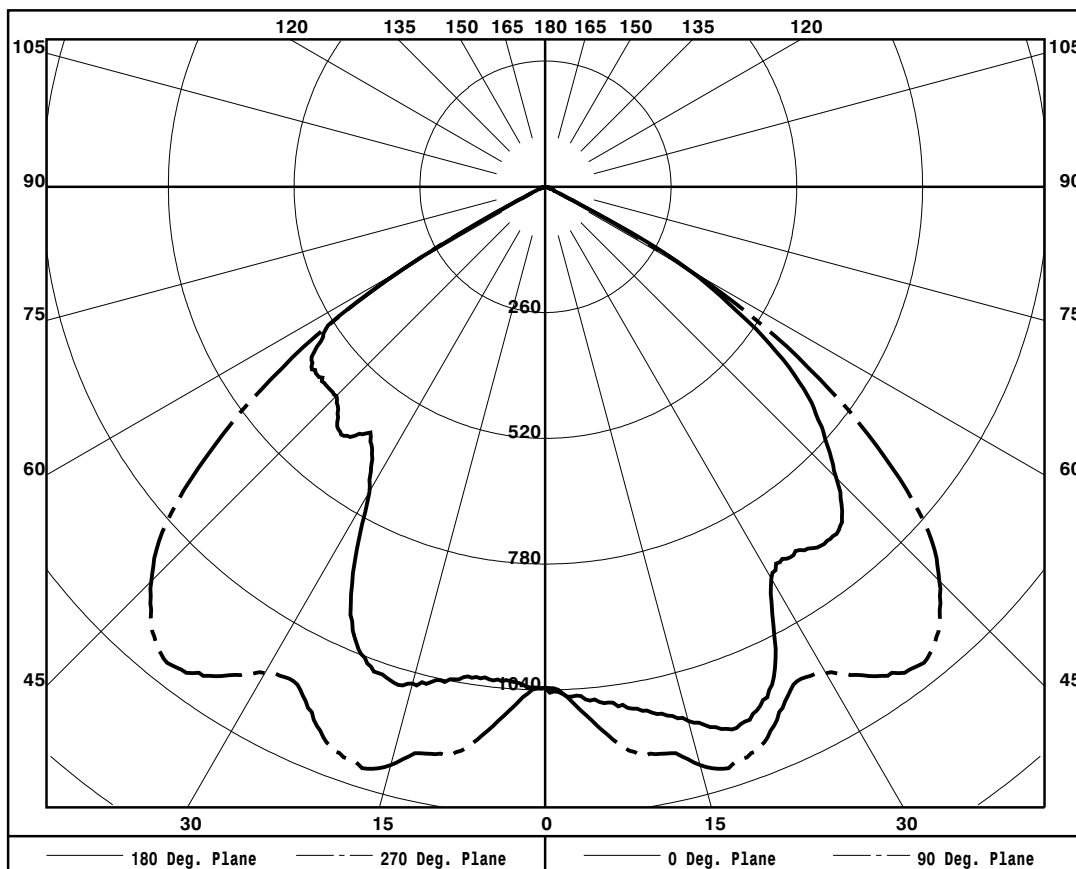
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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0
0	1036	1036	1036	1036	1036	1036	1036	1036	1036
5	1066	1075	1100	1110	1108	1089	1062	1032	1026
10	1096	1149	1208	1213	1193	1170	1132	1073	1034
15	1143	1247	1315	1304	1238	1236	1197	1124	1063
20	1182	1294	1348	1335	1246	1220	1186	1133	1056
25	1119	1249	1327	1309	1173	1159	1104	1026	952
30	935	1178	1291	1268	1161	1116	1047	858	729
35	917	1089	1219	1287	1234	1127	989	774	630
40	937	1022	1136	1264	1247	1092	918	764	661
45	851	903	1036	1140	1153	1018	838	692	612
50	730	744	829	909	976	901	766	654	612
55	567	543	566	646	693	684	623	596	578
60	339	298	301	317	341	359	363	379	339
65	29	27	29	34	35	36	39	41	39
70	8	8	11	11	10	12	12	12	8
75	6	7	8	9	8	7	7	7	6
80	3	3	5	5	4	4	4	5	3
85	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0

ZONAL LUMEN SUMMARY

0- 5	25.
5- 10	80.
10- 15	140.
15- 20	204.
20- 25	254.
25- 30	286.
30- 35	317.
35- 40	350.
40- 45	366.
45- 50	357.
50- 55	312.
55- 60	231.
60- 65	58.
65- 70	10.
70- 75	4.
75- 80	4.
80- 85	1.
85- 90	0.





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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	74	74	74	74	73	73	73	73	69	69	69	66	66	66	64	64	64	62
1	70	68	66	64	68	66	65	63	64	62	61	61	60	59	59	58	57	56
2	65	61	58	56	64	60	57	55	58	56	54	56	54	53	55	53	51	50
3	61	56	52	48	59	55	51	48	53	50	47	51	49	46	50	48	46	45
4	56	50	46	42	55	49	45	42	48	44	41	47	43	41	45	43	40	39
5	52	45	40	37	51	44	40	37	43	39	36	42	39	36	41	38	35	34
6	48	40	36	32	47	40	35	32	39	35	32	38	34	31	37	34	31	30
7	44	36	31	28	43	36	31	28	35	31	28	34	30	27	33	30	27	26
8	40	32	27	24	39	32	27	24	31	27	24	30	26	24	30	26	23	22
9	37	29	24	21	36	28	24	21	28	23	20	27	23	20	26	23	20	19
10	34	26	21	18	33	26	21	18	25	21	18	25	21	18	24	20	18	17

NOTE: THE ZONAL CAVITY CALCULATION TECHNIQUE IS ACCURATE WHEN LUMINAIRES WITH SYMMETRIC CANDELA DISTRIBUTIONS ARE EMPLOYED AND WHEN THE LUMINAIRES ARE LOCATED SYMMETRICALLY THROUGHOUT THE ROOM. THIS UNIT HAS SPECIAL CHARACTERISTICS AND THEREFORE THESE COEFFICIENTS SHOULD BE USED WITH CAUTION.

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 2400.

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	42	25	14	16	39	21	12	12
20	30	46	30	20	15	43	26	17	13
20	40	50	34	25	20	48	30	21	16
20	60	54	37	29	23	52	34	25	20
30	20	50	33	18	16	47	29	15	13
30	30	53	37	24	17	51	34	21	14
30	40	57	41	29	21	54	37	26	18
30	60	60	45	33	25	57	41	29	22
30	80	60	45	36	28	57	41	33	25
40	20	55	39	23	18	53	33	20	16
40	30	58	43	29	19	56	38	26	17
40	40	62	46	34	24	59	42	31	21
40	60	64	49	38	27	61	46	35	25
40	80	64	49	42	31	61	46	38	28
40	100	64	49	43	34	61	46	38	31
60	30	61	45	34	23	59	42	30	21
60	40	64	49	39	28	62	45	35	25
60	60	66	53	42	31	63	49	39	29
60	80	66	53	46	35	63	49	42	32
60	100	66	53	47	38	63	49	43	35
100	40	64	51	45	33	62	45	41	30
100	60	66	54	48	37	63	49	44	34
100	80	65	54	51	40	63	49	47	38
100	100	65	54	52	43	63	49	48	41



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LTL TEST #06078

CIRCLE-OF-LIGHT

Ft below	FC nadir	Dia @ 50%
6.0	28.8	9.1
8.0	16.2	12.1
10.0	10.4	15.1
12.0	7.2	18.2
14.0	5.3	21.2
16.0	4.0	24.2

NOTE: 'Dia' spans the edge-points that are half of nadir FC