



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 06081

DATE: 08-13-2001

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: 8HF2X42E1-08600SCL/A

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

LAMPS: TWO SYLVANIA CF42DT/E/IN/841 RATED AT 3200 LUMENS EACH.

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

MOUNTING: RECESSED

TOTAL INPUT WATTS = 95.4 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	1143	1143	1143	1143	1143	1143	1143	1143	1143	
5	1141	1167	1203	1230	1240	1225	1193	1158	1142	116
15	1150	1295	1385	1396	1366	1413	1405	1332	1220	381
25	1085	1233	1326	1327	1252	1321	1348	1276	1161	588
35	872	1095	1223	1329	1291	1257	1208	1109	939	741
45	863	938	1058	1193	1216	1167	1066	974	925	824
55	743	737	805	880	911	883	825	728	711	714
65	327	277	256	232	192	161	136	114	87	232
75	10	8	10	12	11	10	10	9	5	10
85	7	5	5	5	5	5	6	5	4	4
90	0	0	0	0	0	0	0	0	0	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	1085	17.0	30.1
0- 40	1826	28.5	50.6
0- 60	3364	52.6	93.2
0- 90	3610	56.4	100.0
90-180	0	0.0	0.0
0-180	3610	56.4	100.0

TOTAL LUMINAIRE EFFICIENCY: 56.4%

CIE TYPE: DIRECT

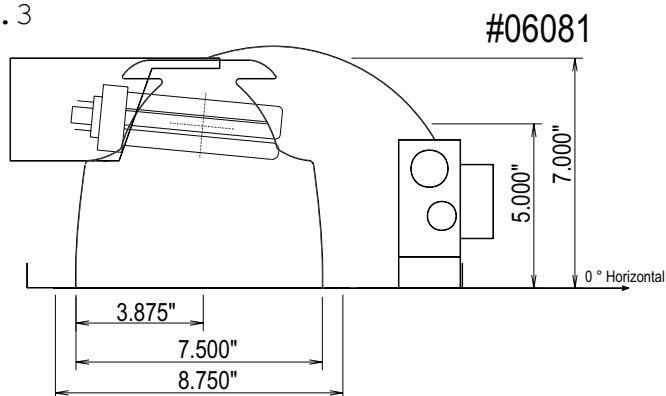
PLANE: 0-DEG 90-DEG 180-DEG

SPACING CRITERIA: 1.2 1.7 1.3

LUMINOUS DIAMETER: 7.500

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	40099.	40099.	40099.
45	42817.	52491.	60330.
55	45445.	49237.	55720.
65	27145.	21251.	15938.
75	1355.	1355.	1491.
85	2818.	2013.	2013.



TESTED BY HERSCHEL SCHRECK
CHECKED BY MIKE GRATHER

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



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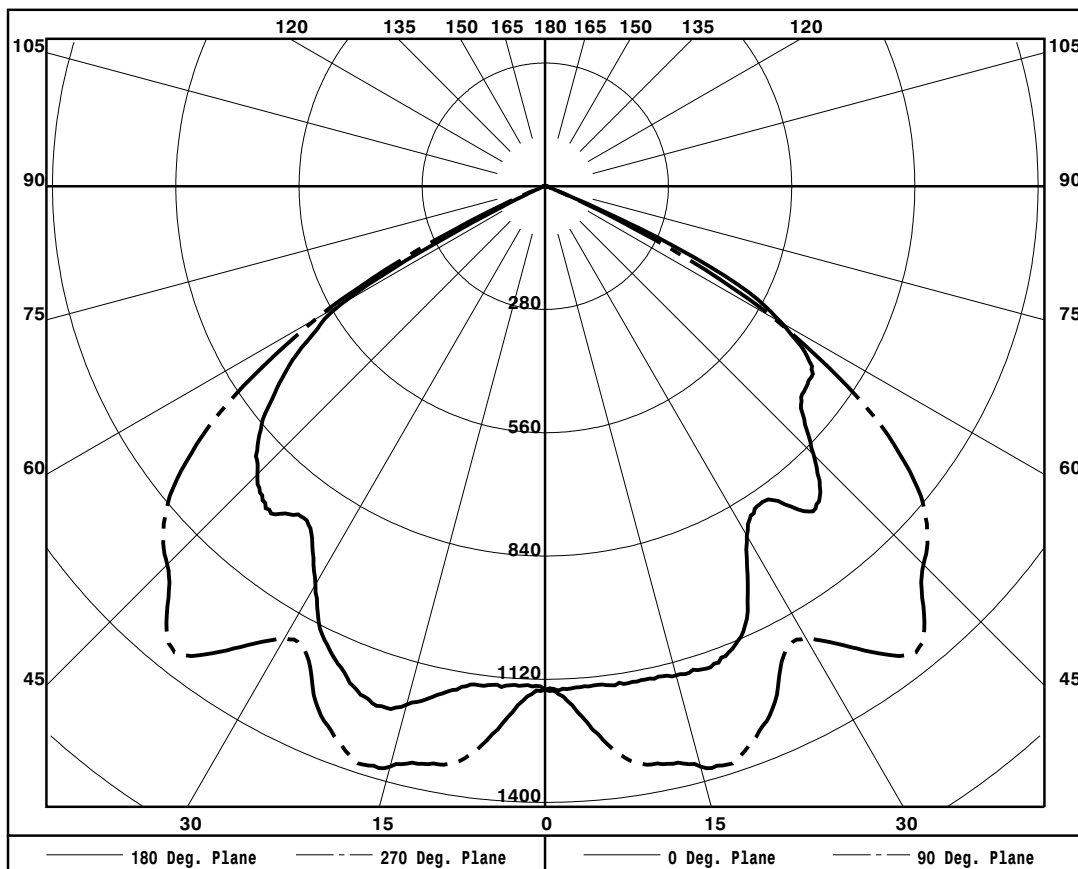
PREPARED FOR: VANTAGE LUMINAIRES

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0
0	1143	1143	1143	1143	1143	1143	1143	1143	1143
5	1141	1167	1203	1230	1240	1225	1193	1158	1142
10	1143	1225	1310	1333	1335	1332	1305	1221	1161
15	1150	1295	1385	1396	1366	1413	1405	1332	1220
20	1152	1304	1390	1392	1353	1405	1444	1387	1229
25	1085	1233	1326	1327	1252	1321	1348	1276	1161
30	917	1166	1274	1287	1185	1221	1251	1178	1045
35	872	1095	1223	1329	1291	1257	1208	1109	939
40	955	1062	1160	1299	1336	1272	1165	1066	970
45	863	938	1058	1193	1216	1167	1066	974	925
50	760	803	935	1061	1120	1087	994	879	842
55	743	737	805	880	911	883	825	728	711
60	620	609	615	604	601	595	565	530	538
65	327	277	256	232	192	161	136	114	87
70	23	24	23	22	22	22	20	18	12
75	10	8	10	12	11	10	10	9	5
80	8	4	4	5	5	7	7	8	5
85	7	5	5	5	5	5	6	5	4
90	0	0	0	0	0	0	0	0	0

ZONAL LUMEN SUMMARY

0- 5	28.
5- 10	89.
10- 15	155.
15- 20	225.
20- 25	278.
25- 30	310.
30- 35	348.
35- 40	393.
40- 45	413.
45- 50	410.
50- 55	388.
55- 60	326.
60- 65	200.
65- 70	32.
70- 75	7.
75- 80	3.
80- 85	3.
85- 90	1.





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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	67	67	67	67	66	66	66	66	63	63	63	60	60	60	58	58	58	56
1	63	61	59	57	61	60	58	56	57	56	55	55	54	53	53	52	51	50
2	58	55	52	49	57	54	51	49	52	50	48	50	48	47	48	47	46	44
3	54	49	45	42	53	48	45	42	47	44	41	45	43	41	44	42	40	39
4	50	44	40	37	49	43	39	36	42	39	36	41	38	35	40	37	35	34
5	46	39	35	31	45	39	34	31	37	34	31	36	33	31	35	33	30	29
6	42	35	30	27	41	35	30	27	34	30	27	33	29	27	32	29	26	25
7	39	31	27	23	38	31	26	23	30	26	23	29	26	23	29	25	23	22
8	35	28	23	20	34	28	23	20	27	23	20	26	22	20	25	22	20	19
9	32	25	20	17	32	25	20	17	24	20	17	23	20	17	23	19	17	16
10	30	22	18	15	29	22	18	15	22	18	15	21	17	15	21	17	15	14

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 3200.

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	17	11	8	16	17	11	7	11
20	30	22	15	10	8	22	14	9	7
20	40	25	18	14	11	25	17	13	10
20	60	28	20	17	13	28	20	16	12
30	20	24	16	9	14	24	15	8	11
30	30	29	20	11	8	29	19	11	8
30	40	32	23	15	11	32	23	14	10
30	60	34	26	18	13	35	26	18	13
30	80	36	28	21	16	37	28	20	15
40	20	30	20	12	14	30	20	11	12
40	30	35	25	15	9	35	24	14	9
40	40	38	29	19	12	38	28	18	11
40	60	39	31	22	15	40	31	22	14
40	80	41	33	25	17	42	33	25	17
40	100	43	35	28	19	44	35	27	19
60	30	38	28	18	11	39	28	18	11
60	40	41	32	23	14	42	32	22	14
60	60	42	35	26	17	43	34	26	17
60	80	44	36	29	20	45	36	28	20
60	100	46	38	31	23	47	38	31	22
100	40	47	38	27	20	47	37	27	19
100	60	47	40	31	23	48	40	31	22
100	80	49	42	34	26	50	41	33	25
100	100	50	43	36	29	51	43	35	28



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LTL TEST #06081

CIRCLE-OF-LIGHT

Ft below	FC nadir	Dia @ 50%
6.0	31.8	9.2
8.0	17.9	12.3
10.0	11.4	15.4
12.0	7.9	18.5
14.0	5.8	21.6
16.0	4.5	24.7

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