LTL 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: 05081 DATE: 3-17-2000
PREPARED FOR: VANTAGE LUMINAIRES
CATALOG NUMBER: 7HF218E12007614SCL/WHT
LUMINAIRE: FORMED STEEL HOUSING, SPUN SEMI-SPECULAR ALUMINUM REFLECTOR, CLEAR GLASS PRISMATIC LENS ABOVE SPUN SEMI-SPECULAR ALUMINUM LOWER REFLECTOR.
LAMPS: TWO SYLVANIA CF18DD/E/835 RATED AT 1250 LUMENS EACH.
BALLAST: ONE ADVANCE ICF-2S18-H1-LD
MOUNTING: RECESSED
TOTAL INPUT WATTS = 31.0 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	FLUX
0	573	573	573	573	573	
5	572	573	567	570	576	54
15	542	543	545	556	565	155
25	462	463	467	473	478	213
35	284	284	287	294	299	181
45	138	142	144	147	151	113
55	68	72	71	69	74	65
65	38	36	37	38	37	38
75	15	14	14	15	14	15
85	0	0	0	0	0	0
90	0	0	0	0	0	

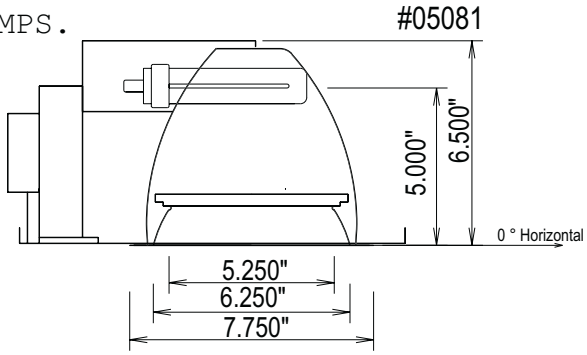
ZONAL LUMEN SUMMARY

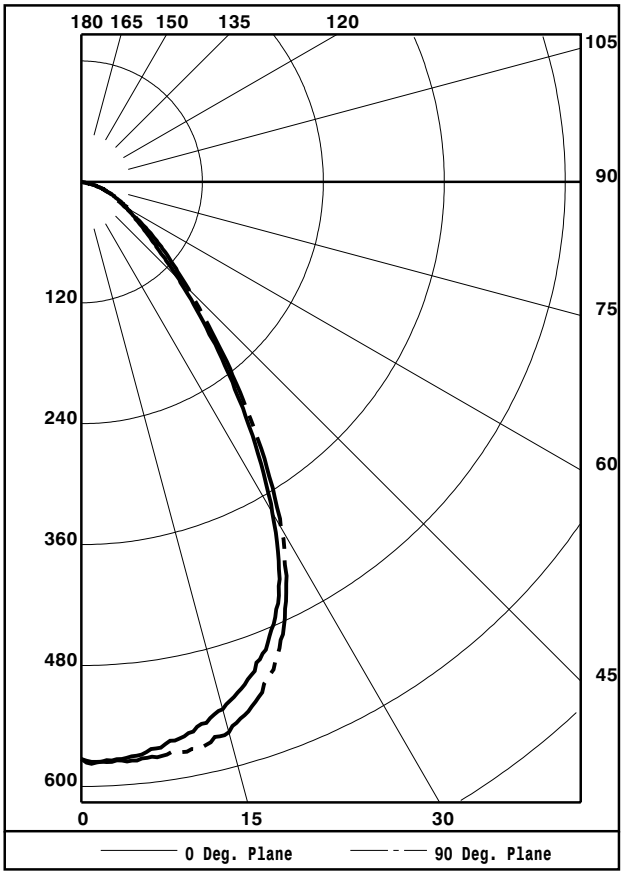
ZONE	LUMENS	%LAMP	%FIXT
0- 30	423	16.9	50.6
0- 40	604	24.1	72.4
0- 60	781	31.3	93.6
0- 90	834	33.4	100.0
90-180	0	0.0	0.0
0-180	834	33.4	100.0

TOTAL LUMINAIRE EFFICIENCY: 33.4%
CIE TYPE: DIRECT
PLANE: 0-DEG 90-DEG
SPACING CRITERIA: 1.1 1.1
LUMINOUS DIAMETER: 6.250

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	28947.	28947.	28947.
45	9859.	10288.	10788.
55	5989.	6253.	6518.
65	4542.	4423.	4423.
75	2928.	2733.	2733.
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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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	40	40	40	40	39	39	39	39	37	37	37	35	35	35	34	34	34	33
1	38	36	36	35	37	36	35	34	34	34	33	33	33	32	32	32	31	30
2	35	33	32	30	34	33	31	30	32	30	29	31	30	29	30	29	28	28
3	33	31	29	27	32	30	28	27	29	28	26	28	27	26	28	27	26	25
4	31	28	26	24	30	28	26	24	27	25	24	26	25	23	26	24	23	23
5	29	26	23	22	28	25	23	22	25	23	21	24	22	21	24	22	21	20
6	27	24	21	20	27	23	21	20	23	21	19	22	21	19	22	20	19	19
7	25	22	19	18	25	22	19	18	21	19	18	21	19	18	20	19	17	17
8	24	20	18	16	23	20	18	16	19	17	16	19	17	16	19	17	16	15
9	22	18	16	14	22	18	16	14	18	16	14	17	16	14	17	15	14	14
10	21	17	15	13	20	17	15	13	16	14	13	16	14	13	16	14	13	12

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	573	573	573	573	573
5	572	573	567	570	576
10	561	562	561	569	575
15	542	543	545	556	565
20	508	513	515	526	530
25	462	463	467	473	478
30	379	382	385	393	396
35	284	284	287	294	299
40	198	200	202	209	211
45	138	142	144	147	151
50	92	103	102	103	108
55	68	72	71	69	74
60	52	49	51	51	49
65	38	36	37	38	37
70	25	25	24	25	26
75	15	14	14	15	14
80	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

ZONAL LUMEN SUMMARY

0- 5	14.
5- 10	41.
10- 15	66.
15- 20	88.
20- 25	104.
25- 30	109.
30- 35	99.
35- 40	82.
40- 45	63.
45- 50	49.
50- 55	37.
55- 60	28.
60- 65	22.
65- 70	17.
70- 75	11.
75- 80	4.
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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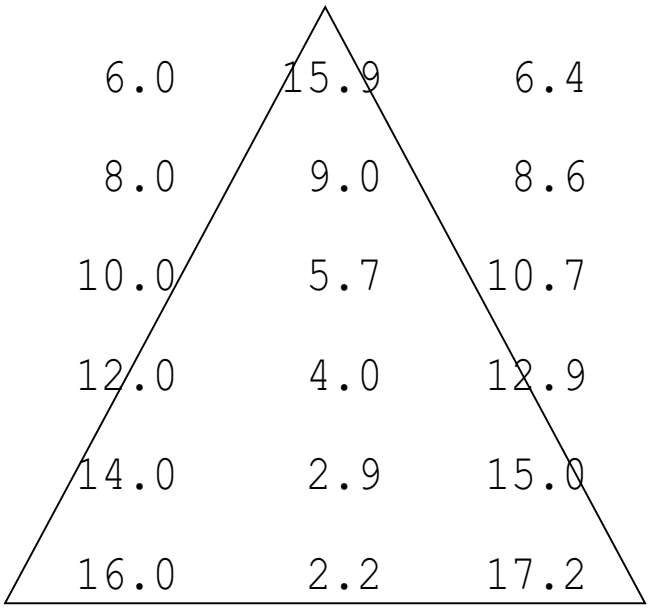
LTL TEST #05081

CIRCLE-OF-LIGHT

Ft below	FC nadir	Dia @ 50%
6.0	15.9	6.4
8.0	9.0	8.6
10.0	5.7	10.7
12.0	4.0	12.9
14.0	2.9	15.0
16.0	2.2	17.2



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