



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 05107

DATE: 4-12-2000

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: 8HF2X13E8600SCL

LUMINAIRE: FORMED STEEL HOUSING, SPUN SEMI-SPECULAR ALUMINUM
REFLECTOR, OPEN BOTTOM.

LAMPS: TWO PHILIPS PL-C 13W/27/4P RATED AT 900 LUMENS EACH.

BALLAST: ONE ENERGY SAVINGS ES-2-CFQ-13-120-C

MOUNTING: RECESSED

TOTAL INPUT WATTS = 28.9 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	418	418	418	418	418	418	418	418	418	
5	437	453	488	517	530	516	499	487	477	48
15	454	519	595	636	627	653	630	574	533	166
25	437	542	583	572	540	539	500	478	391	242
35	416	476	531	531	537	521	468	392	307	300
45	338	382	444	476	475	460	431	395	351	330
55	133	139	154	165	166	156	152	160	155	143
65	6	6	6	6	6	7	6	6	6	6
75	3	3	3	3	3	3	3	3	2	4
85	0	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0	0

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	456	25.3	36.8
0- 40	755	42.0	61.0
0- 60	1227	68.2	99.2
0- 90	1237	68.7	100.0
90-180	0	0.0	0.0
0-180	1237	68.7	100.0

TOTAL LUMINAIRE EFFICIENCY: 68.7%

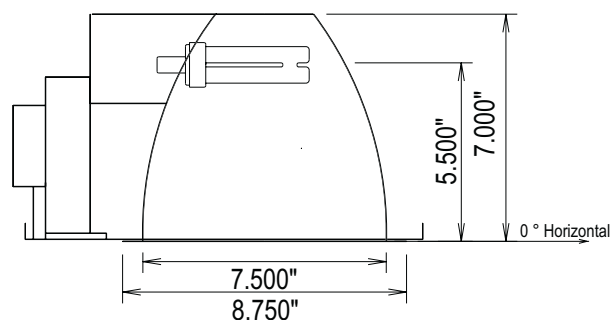
CIE TYPE: DIRECT

LUMINOUS DIAMETER: 7.500

#05107

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	14664.	14664.	14664.
45	16769.	22029.	23567.
55	8135.	9419.	10153.
65	498.	498.	498.
75	407.	407.	407.
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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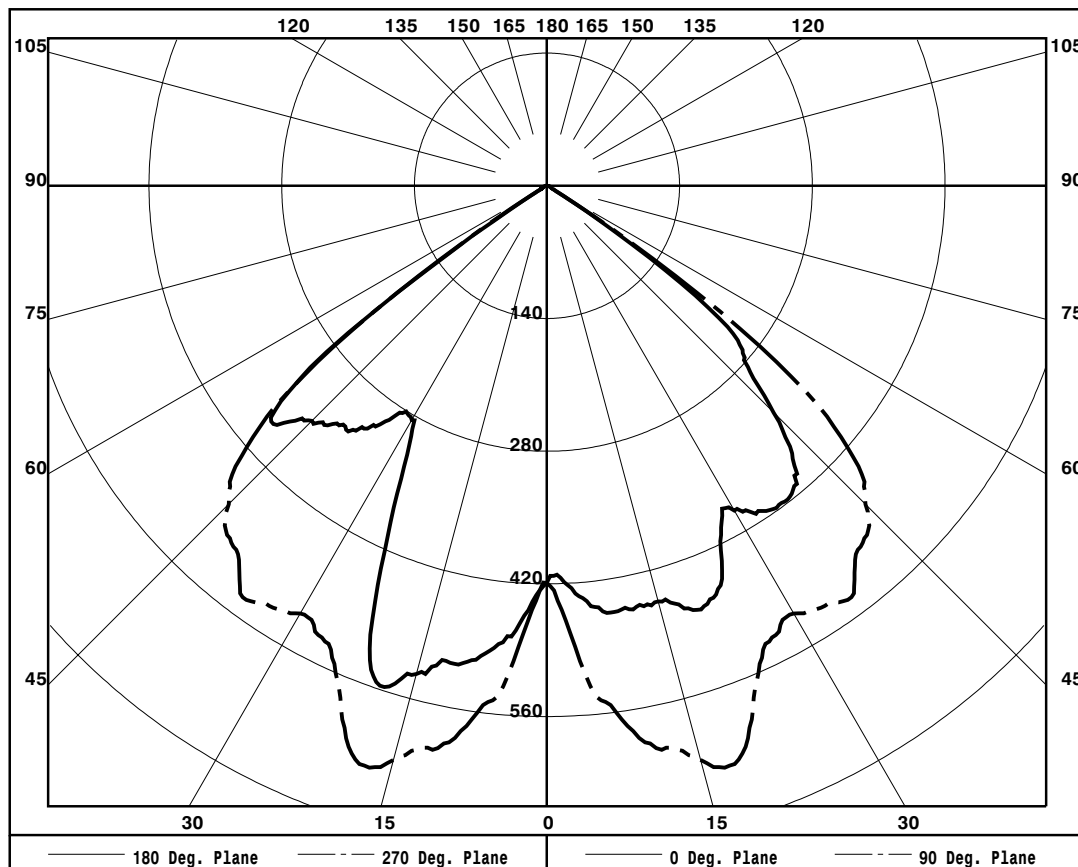
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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0
0	418	418	418	418	418	418	418	418	418
5	437	453	488	517	530	516	499	487	477
10	454	488	539	582	596	599	568	527	511
15	454	519	595	636	627	653	630	574	533
20	476	540	602	609	620	607	583	562	543
25	437	542	583	572	540	539	500	478	391
30	396	522	566	546	521	534	480	417	285
35	416	476	531	531	537	521	468	392	307
40	410	461	500	513	507	496	467	418	331
45	338	382	444	476	475	460	431	395	351
50	269	297	339	374	396	397	369	375	381
55	133	139	154	165	166	156	152	160	155
60	8	8	9	9	8	8	7	8	7
65	6	6	6	6	6	7	6	6	6
70	5	4	5	5	5	5	5	5	5
75	3	3	3	3	3	3	3	3	2
80	1	1	1	1	1	1	1	1	1
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	11.
5- 10	37.
10- 15	67.
15- 20	99.
20- 25	114.
25- 30	128.
30- 35	142.
35- 40	158.
40- 45	168.
45- 50	161.
50- 55	124.
55- 60	19.
60- 65	3.
65- 70	3.
70- 75	3.
75- 80	1.
80- 85	0.
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	82	82	82	82	80	80	80	80	76	76	76	73	73	73	70	70	70	69
1	77	75	73	71	76	74	72	70	71	69	68	68	67	66	66	65	64	63
2	73	69	65	63	71	67	64	62	65	63	60	63	61	59	61	59	58	57
3	68	62	58	55	66	61	58	55	60	56	54	58	55	53	56	54	52	51
4	63	57	52	49	62	56	52	48	54	51	48	53	50	47	52	49	46	45
5	59	51	46	43	57	51	46	43	49	45	42	48	45	42	47	44	41	40
6	54	47	42	38	53	46	41	38	45	41	37	44	40	37	43	40	37	36
7	50	42	37	33	49	42	37	33	41	36	33	40	36	33	39	35	32	31
8	46	38	32	29	45	37	32	29	36	32	29	36	31	28	35	31	28	27
9	42	34	28	25	41	33	28	25	33	28	25	32	28	25	31	27	25	23
10	39	31	25	22	38	30	25	22	30	25	22	29	25	22	28	24	22	20

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.