



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 05109

DATE: 4-12-2000

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: 8HF2X13E8614SCL/SCL

LUMINAIRE: FORMED STEEL HOUSING, SPUN SEMI-SPECULAR ALUMINUM REFLECTOR, CLEAR GLASS PRISMATIC LENS ABOVE SPUN SEMI-SPECULAR ALUMINUM LOWER REFLECTOR.

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 = 27.5 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

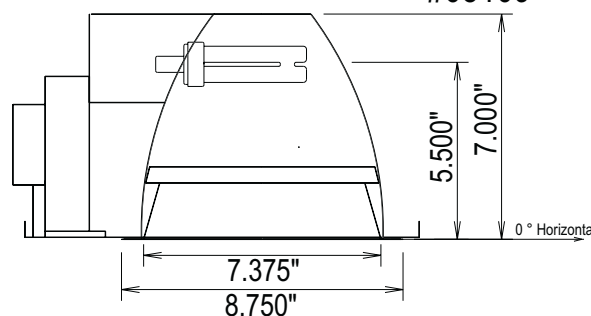
#05109

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	557	557	557	557	557
5	543	542	544	545	546
15	473	478	489	494	494
25	394	404	427	443	449
35	272	279	298	319	327
45	143	143	151	164	165
55	78	79	80	86	88
65	31	32	33	33	36
75	7	7	7	7	7
85	0	0	0	0	0
90	0	0	0	0	0

FLUX

51
137
194
186
120
74
33
7
0



ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	383	21.3	47.7
0- 40	569	31.6	70.8
0- 60	762	42.3	94.9
0- 90	803	44.6	100.0
90-180	0	0.0	0.0
0-180	803	44.6	100.0

TOTAL LUMINAIRE EFFICIENCY: 44.6%

CIE TYPE: DIRECT

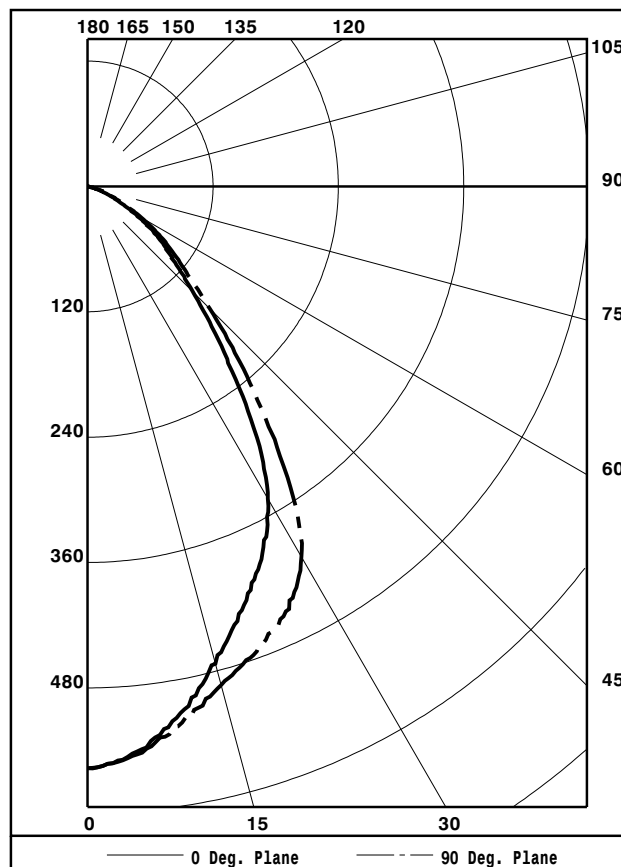
PLANE: 0-DEG 90-DEG

SPACING CRITERIA: 1.0 1.1

LUMINOUS DIAMETER: 7.375

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	20209.	20209.	20209.
45	7337.	7748.	8466.
55	4934.	5060.	5566.
65	2661.	2833.	3091.
75	981.	981.	981.
85	0.	0.	0.



TESTED BY HERSCHEL SCHRECK
CHECKED BY MIKE GRATHER

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



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 05109

DATE: 4-12-2000

PREPARED FOR: VANTAGE LUMINAIRES

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	53	53	53	53	52	52	52	52	50	50	50	47	47	47	45	45	45	45
1	50	49	47	46	49	48	47	46	46	45	44	44	44	43	43	42	42	41
2	47	45	42	41	46	44	42	40	42	41	39	41	40	39	40	39	38	37
3	44	41	38	36	43	40	38	36	39	37	35	38	36	35	37	35	34	33
4	41	37	34	32	40	37	34	32	36	33	32	35	33	31	34	32	31	30
5	39	34	31	29	38	34	31	29	33	30	28	32	30	28	31	29	28	27
6	36	31	28	26	35	31	28	26	30	28	26	30	27	25	29	27	25	25
7	34	29	26	23	33	29	25	23	28	25	23	27	25	23	27	25	23	22
8	31	26	23	21	31	26	23	21	26	23	21	25	23	21	25	22	21	20
9	29	24	21	19	29	24	21	19	23	21	19	23	20	19	22	20	18	18
10	27	22	19	17	27	22	19	17	21	19	17	21	19	17	21	18	17	16

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	557	557	557	557	557
5	543	542	544	545	546
10	512	513	518	521	521
15	473	478	489	494	494
20	432	440	458	470	473
25	394	404	427	443	449
30	345	356	380	402	409
35	272	279	298	319	327
40	199	199	209	227	237
45	143	143	151	164	165
50	106	107	113	122	118
55	78	79	80	86	88
60	54	53	54	56	59
65	31	32	33	33	36
70	16	17	18	19	18
75	7	7	7	7	7
80	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

ZONAL LUMEN SUMMARY

0- 5	13.
5- 10	38.
10- 15	60.
15- 20	78.
20- 25	92.
25- 30	102.
30- 35	101.
35- 40	85.
40- 45	67.
45- 50	53.
50- 55	43.
55- 60	31.
60- 65	20.
65- 70	13.
70- 75	7.
75- 80	0.
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.