



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

905 Harrison Street · Allentown, PA 18103 · (610) 770-1044 · Fax (610) 770-8912 · ltl1@thebridgeworks.com

LTL NUMBER: 05310

DATE: 08-04-2000

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: A7VF213E-07000SCL

LUMINAIRE: FORMED STEEL HOUSING, SPUN SEMI-SPECULAR ALUMINUM REFLECTOR, NO ENCLOSURE.

#05310

LAMPS: TWO OSRAM D/E 13W/35K RATED AT 900 LUMENS EACH.

BALLAST: ONE ADVANCE ICF-2S13-H1-LD

MOUNTING: RECESSED

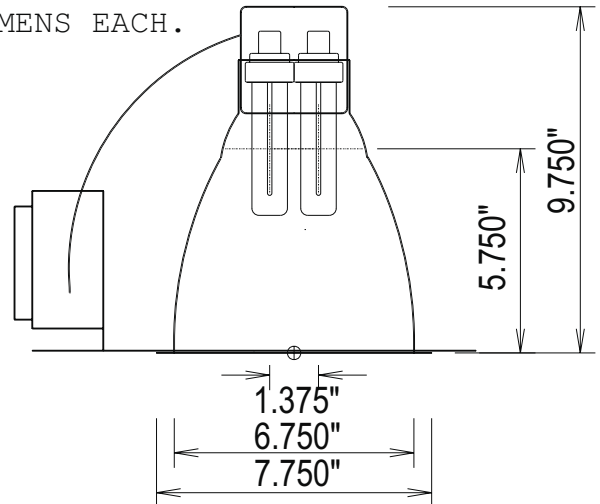
TOTAL INPUT WATTS = 26.8 AT 120.0 VOLTS

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	569	569	569	569	569
5	668	666	633	590	568
15	691	690	645	616	601
25	571	604	655	677	674
35	454	470	467	455	443
45	186	171	163	156	143
55	8	8	8	7	5
65	0	0	0	0	0
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

FLUX

61
184
291
282
127
12
0
0
0
0



ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	537	29.8	56.0
0- 40	819	45.5	85.4
0- 60	958	53.2	100.0
0- 90	958	53.2	100.0
90-180	0	0.0	0.0
0-180	958	53.2	100.0

TOTAL LUMINAIRE EFFICIENCY: 53.2%

CIE TYPE: DIRECT

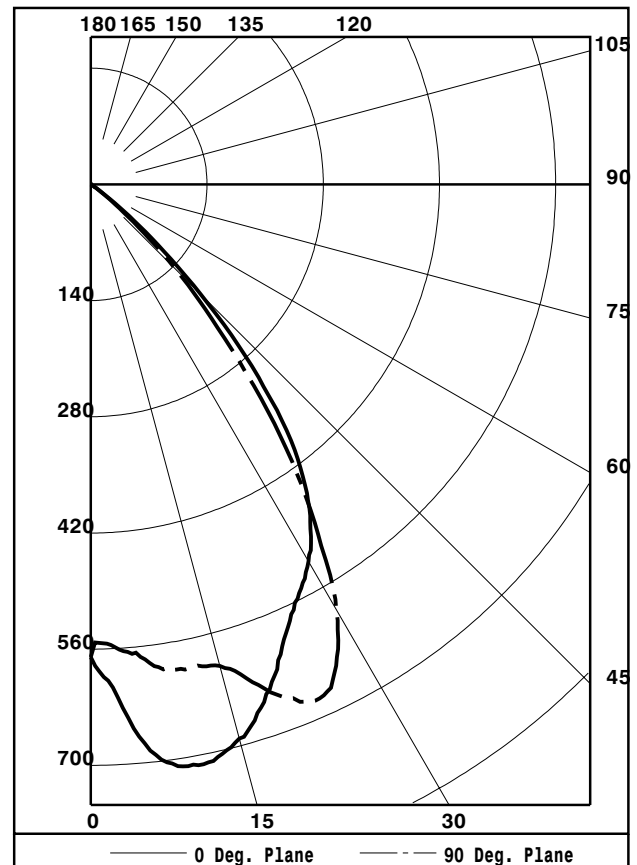
PLANE: 0-DEG 90-DEG

SPACING CRITERIA: 1.3 1.3

LUMINOUS DIAMETER: 6.750

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	24644.	24644.	24644.
45	11393.	9984.	8759.
55	604.	604.	378.
65	0.	0.	0.
75	0.	0.	0.
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 · ltl1@thebridgeworks.com

LTL NUMBER: 05310

DATE: 08-04-2000

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	50	30	10	0
0	63	63	63	63	62	62	62	62	59	59	59	57	57	57	54	54	54	54	54	54	53
1	60	59	57	56	59	58	56	55	56	55	54	54	53	52	52	51	51	51	51	51	50
2	57	55	52	51	56	54	52	50	52	50	49	50	49	48	49	48	47	47	47	47	46
3	54	51	48	46	53	50	47	45	49	46	45	47	45	44	46	45	43	43	43	43	42
4	51	47	44	42	50	46	43	41	45	43	41	44	42	40	43	41	40	40	40	40	39
5	48	43	40	38	47	43	40	38	42	39	37	41	39	37	40	38	37	37	37	37	36
6	46	41	37	35	45	40	37	35	39	36	34	38	36	34	38	36	34	34	34	34	33
7	43	38	34	32	42	37	34	32	36	34	31	36	33	31	35	33	31	31	31	31	30
8	40	34	31	29	39	34	31	29	34	31	28	33	30	28	32	30	28	28	28	28	27
9	37	32	28	26	37	31	28	26	31	28	26	30	27	25	30	27	25	25	25	25	25
10	35	29	26	23	34	29	25	23	28	25	23	28	25	23	27	25	23	23	23	23	22

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	569	569	569	569	569
5	668	666	633	590	568
10	710	709	664	615	594
15	691	690	645	616	601
20	638	641	653	659	654
25	571	604	655	677	674
30	524	555	593	597	591
35	454	470	467	455	443
40	337	320	301	284	278
45	186	171	163	156	143
50	66	57	55	50	45
55	8	8	8	7	5
60	1	1	1	2	1
65	0	0	0	0	0
70	0	0	0	0	0
75	0	0	0	0	0
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	47.
10- 15	78.
15- 20	107.
20- 25	136.
25- 30	155.
30- 35	154.
35- 40	128.
40- 45	86.
45- 50	42.
50- 55	11.
55- 60	2.
60- 65	0.
65- 70	0.
70- 75	0.
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.



LTL TEST #05310

CIRCLE-OF-LIGHT

Ft below	FC nadir	Dia @ 50%
6.0	15.8	8.0
8.0	8.9	10.6
10.0	5.7	13.3
12.0	4.0	16.0
14.0	2.9	18.6
16.0	2.2	21.3

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