



# LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING  
MEMBER

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

LTL NUMBER: 06655

DATE: 06-27-2002

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: 5VF213E1-05050SCL/BL

LUMINAIRE: FORMED STEEL HOUSING, SPUN SPECULAR ALUMINUM REFLECTOR WITH  
SPUN BLACK ENAMEL ALUMINUM BAFFLE, NO ENCLOSURE.

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

#06655

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

MOUNTING: RECESSED

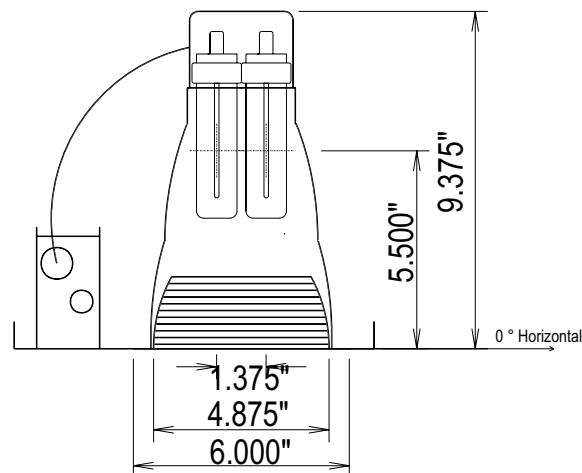
TOTAL INPUT WATTS = 28.1 AT 120.0 VOLTS

## CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	130	130	130	130	130
5	144	144	139	133	132
15	202	204	186	161	152
25	236	229	197	167	160
35	190	185	165	151	145
45	101	100	105	105	102
55	6	6	8	8	7
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

14
52
91
104
77
11
0
0
0
0



## ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	156	8.7	44.8
0- 40	260	14.5	74.7
0- 60	348	19.4	100.0
0- 90	348	19.4	100.0
90-180	0	0.0	0.0
0-180	348	19.4	100.0

TOTAL LUMINAIRE EFFICIENCY:

19.4%

CIE TYPE: DIRECT

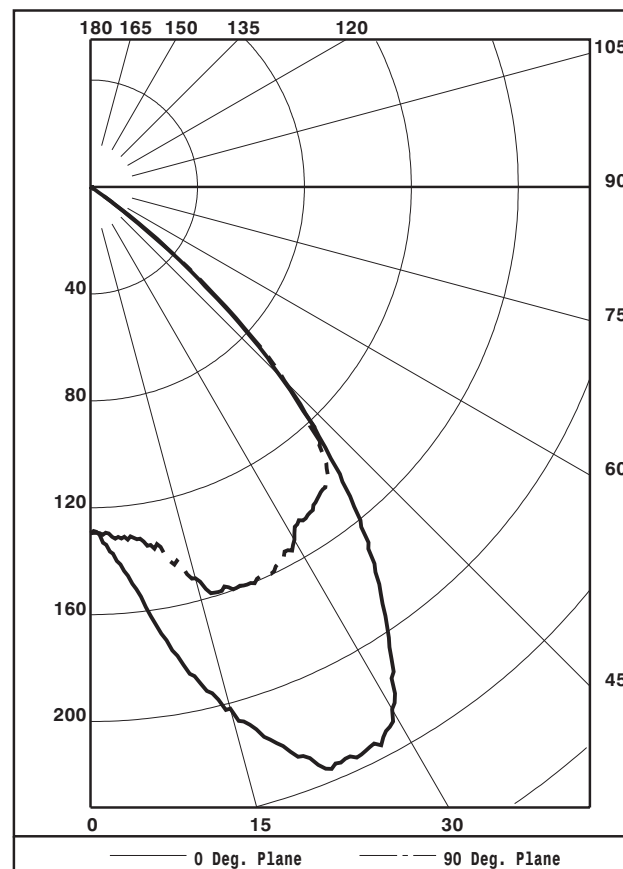
PLANE: 0-DEG 90-DEG

SPACING CRITERIA: 1.7 1.6

LUMINOUS DIAMETER: 4.875

## LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	10795.	10795.	10795.
45	11860.	12330.	11978.
55	869.	1158.	1013.
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.



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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	23	23	23	23	23	23	23	23	22	22	22	21	21	21	20	20	20	19
1	22	21	21	20	21	21	20	20	20	20	19	19	19	19	19	18	18	18
2	21	20	19	18	20	19	19	18	19	18	17	18	18	17	18	17	17	16
3	19	18	17	16	19	18	17	16	17	16	16	17	16	16	16	16	15	15
4	18	17	15	14	18	16	15	14	16	15	14	16	15	14	15	14	14	14
5	17	15	14	13	17	15	14	13	15	14	13	14	13	13	14	13	13	12
6	16	14	13	12	16	14	13	12	14	12	12	13	12	12	13	12	11	11
7	15	13	11	10	15	13	11	10	12	11	10	12	11	10	12	11	10	10
8	14	12	10	9	14	11	10	9	11	10	9	11	10	9	11	10	9	9
9	13	10	9	8	12	10	9	8	10	9	8	10	9	8	10	9	8	8
10	12	9	8	7	12	9	8	7	9	8	7	9	8	7	9	8	7	7

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	130	130	130	130	130
5	144	144	139	133	132
10	176	172	158	144	137
15	202	204	186	161	152
20	227	224	199	171	160
25	236	229	197	167	160
30	226	219	182	157	152
35	190	185	165	151	145
40	151	145	140	138	137
45	101	100	105	105	102
50	49	46	54	52	52
55	6	6	8	8	7
60	0	0	0	0	0
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	3.
5- 10	10.
10- 15	20.
15- 20	32.
20- 25	42.
25- 30	49.
30- 35	52.
35- 40	52.
40- 45	46.
45- 50	31.
50- 55	11.
55- 60	0.
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.



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VISUAL COMFORT PROBABILITY TABLE

RATED LUMENS PER LAMP 900.

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	83	81	80	59	81	79	79	58
20	30	84	81	81	60	81	80	79	58
20	40	84	81	81	60	81	80	79	59
20	60	84	82	81	60	81	80	79	59
30	20	84	81	80	63	81	80	79	62
30	30	84	81	81	63	81	80	79	62
30	40	84	82	81	63	81	80	79	62
30	60	84	82	81	63	82	80	80	62
30	80	84	82	81	63	82	80	80	62
40	20	84	81	81	63	81	80	79	62
40	30	84	82	81	63	81	80	79	62
40	40	84	82	81	63	82	80	80	62
40	60	84	82	81	63	82	80	80	62
40	80	85	82	81	63	82	80	80	62
40	100	85	82	81	63	82	80	80	62
60	30	84	82	81	63	82	80	80	62
60	40	84	82	81	63	82	80	80	62
60	60	85	82	81	63	82	80	80	62
60	80	85	82	81	64	82	81	80	63
60	100	85	82	82	64	82	81	80	63
100	40	85	82	81	63	82	80	80	62
100	60	85	82	82	64	82	80	80	63
100	80	85	82	82	64	82	81	80	63
100	100	85	82	82	64	82	81	80	63

THIS TABLE WAS CALCULATED ACCORDING TO IESNA LM-42-72. THE VCP CALCULATION PROCEDURE IS MOST ACCURATE FOR LUMINAIRES THAT EXHIBIT THE FOLLOWING CHARACTERISTICS. 1). LUMINAIRE IS RELATIVELY CONSISTANT IN LUMINANCE 2). LUMINAIRE HAS WELL-DEFINED LUMINOUS EDGES AND 3). LUMINAIRE UTILIZES FLUORESCENT LAMPS. CAUTION SHOULD BE USED WHEN APPLYING VCP VALUES BASED ON LUMINAIRES THAT DO NOT CONFORM TO THE ABOVE CONDITIONS.



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LTL TEST #06655

CIRCLE-OF-LIGHT

Ft below	FC nadir	Dia @ 50%
6.0	3.6	10.0
8.0	2.0	13.3
10.0	1.3	16.7
12.0	0.9	20.0
14.0	0.7	23.3
16.0	0.5	26.7

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