



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 06654

DATE: 05-15-2002

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: 5VF213E1-05000SCL

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

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

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

MOUNTING: RECESSED

TOTAL INPUT WATTS = 27.9 AT 120.0 VOLTS

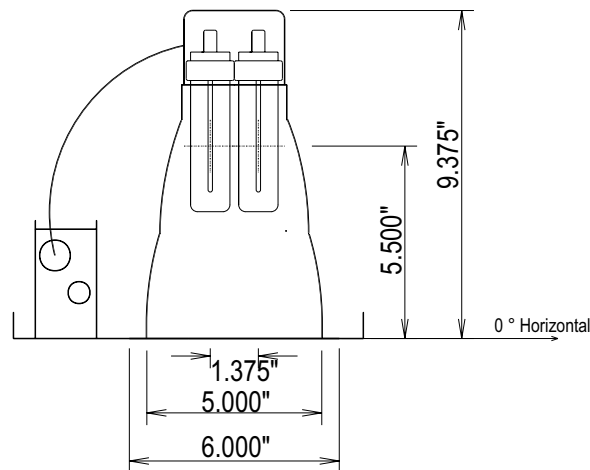
#06654

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	239	239	239	239	239
5	292	289	278	259	249
15	343	335	305	277	270
25	358	349	345	329	324
35	327	328	318	305	304
45	254	252	249	245	233
55	125	123	129	130	128
65	15	17	20	23	24
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

FLUX

26
87
157
198
189
114
23
0
0
0



ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	271	15.0	34.0
0- 40	469	26.0	58.9
0- 60	772	42.9	97.0
0- 90	795	44.2	100.0
90-180	0	0.0	0.0
0-180	795	44.2	100.0

TOTAL LUMINAIRE EFFICIENCY: 44.2%

CIE TYPE: DIRECT

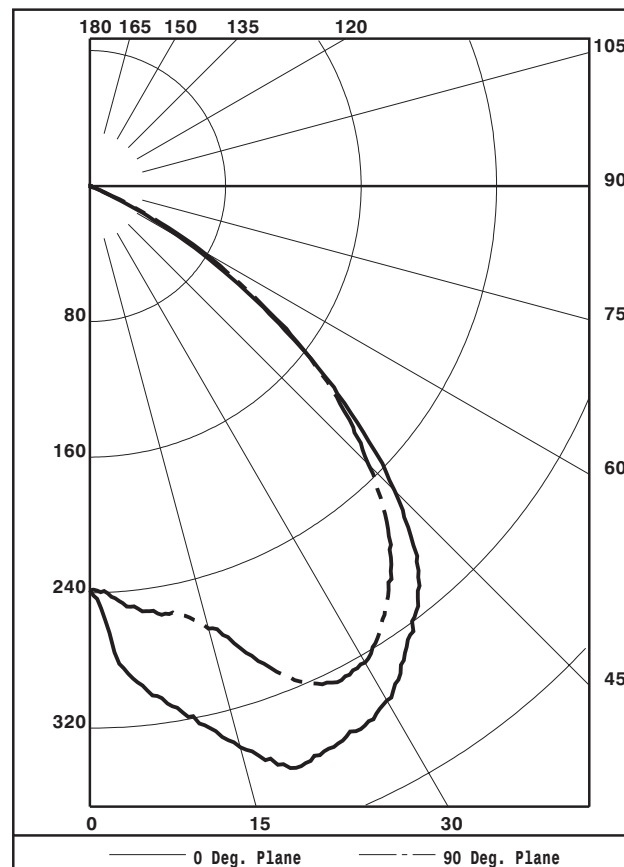
PLANE: 0-DEG 90-DEG

SPACING CRITERIA: 1.8 1.7

LUMINOUS DIAMETER: 5.000

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	18865.	18865.	18865.
45	28354.	27796.	26010.
55	17202.	17753.	17615.
65	2802.	3736.	4483.
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	50	30	10	0
0	53	53	53	53	51	51	51	51	49	49	49	47	47	47	45	45	45	44			
1	49	48	47	45	48	47	46	45	45	44	43	43	43	42	42	41	41	40			
2	46	44	41	40	45	43	41	39	41	40	38	40	39	37	39	38	37	36			
3	43	40	37	35	42	39	36	34	38	35	34	37	35	33	35	34	33	32			
4	40	36	33	30	39	35	32	30	34	32	30	33	31	29	32	30	29	28			
5	37	32	29	26	36	32	29	26	31	28	26	30	28	26	29	27	25	25			
6	34	29	26	23	33	29	25	23	28	25	23	27	25	23	27	24	23	22			
7	31	26	23	20	31	26	22	20	25	22	20	24	22	20	24	22	20	19			
8	29	23	20	17	28	23	20	17	22	19	17	22	19	17	21	19	17	16			
9	26	21	17	15	26	21	17	15	20	17	15	20	17	15	19	17	15	14			
10	24	19	15	13	24	19	15	13	18	15	13	18	15	13	17	15	13	12			

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	239	239	239	239	239
5	292	289	278	259	249
10	315	310	290	267	256
15	343	335	305	277	270
20	364	354	331	312	300
25	358	349	345	329	324
30	351	345	335	329	325
35	327	328	318	305	304
40	301	295	286	279	276
45	254	252	249	245	233
50	190	190	196	192	186
55	125	123	129	130	128
60	65	66	69	74	75
65	15	17	20	23	24
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	6.
5- 10		20.
10- 15		35.
15- 20		52.
20- 25		71.
25- 30		86.
30- 35		97.
35- 40		101.
40- 45		100.
45- 50		89.
50- 55		70.
55- 60		45.
60- 65		21.
65- 70		2.
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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LTL TEST #06654

CIRCLE-OF-LIGHT

Ft below	FC nadir	Dia @ 50%
6.0	6.6	10.5
8.0	3.7	14.0
10.0	2.4	17.5
12.0	1.7	21.0
14.0	1.2	24.5
16.0	0.9	27.9

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



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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	46	40	28	28	44	38	27	29
20	30	47	40	35	27	44	38	34	26
20	40	47	40	36	33	44	38	34	31
20	60	47	40	36	33	44	38	34	31
30	20	46	45	32	29	44	44	31	29
30	30	47	45	37	28	44	44	35	27
30	40	47	45	37	32	44	44	35	31
30	60	47	46	37	32	44	44	35	31
30	80	47	46	37	32	44	44	36	31
40	20	46	45	35	31	44	44	34	32
40	30	47	45	39	31	44	44	38	30
40	40	47	45	39	34	44	44	38	33
40	60	47	46	39	34	44	44	38	33
40	80	47	46	39	34	44	44	38	33
40	100	47	46	39	34	45	44	38	33
60	30	47	46	39	34	44	44	38	33
60	40	47	46	39	36	44	44	38	35
60	60	47	46	39	36	44	44	38	36
60	80	47	46	39	36	45	44	38	36
60	100	47	46	39	36	45	44	38	36
100	40	47	45	39	36	44	44	38	36
100	60	47	46	39	36	45	44	38	36
100	80	47	46	39	36	45	44	38	36
100	100	47	46	39	37	45	44	38	36

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.