



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 06083

DATE: 08-14-2001

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: 8HF2X42E1-08616SCL/SCL/A

LUMINAIRE: FORMED STEEL HOUSING, SPUN SEMI-SPECULAR ALUMINUM REFLECTOR
WITH HAMMERTONE SECTION ABOVE LAMPS, CLEAR FRESNEL GLASS
LENS ABOVE SPUN SEMI-SPECULAR ALUMINUM LOWER REFLECTOR.

LAMPS: TWO SYLVANIA CF42DT/E/IN/841 RATED AT 3200 LUMENS EACH.

BALLAST: ONE ADVANCE ICF-2S42-M2-LD

MOUNTING: RECESSED

TOTAL INPUT WATTS = 95.7 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

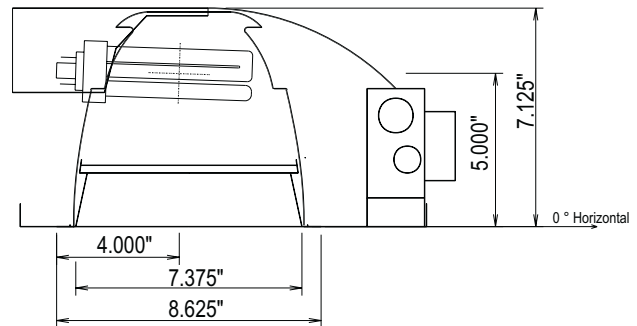
#06083

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	2085	2085	2085	2085	2085
5	2067	2117	2184	2218	2225
15	1828	1925	1943	1918	1902
25	1319	1375	1476	1523	1528
35	743	860	952	982	967
45	326	443	560	655	675
55	216	247	326	391	400
65	92	102	123	140	145
75	18	18	20	22	25
85	0	0	0	0	0
90	0	0	0	0	0

FLUX

206
537
662
570
419
283
122
21
1



ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	1404	21.9	49.8
0- 40	1973	30.8	70.0
0- 60	2675	41.8	94.9
0- 90	2818	44.0	100.0
90-180	0	0.0	0.0
0-180	2818	44.0	100.0

TOTAL LUMINAIRE EFFICIENCY: 44.0%

CIE TYPE: DIRECT

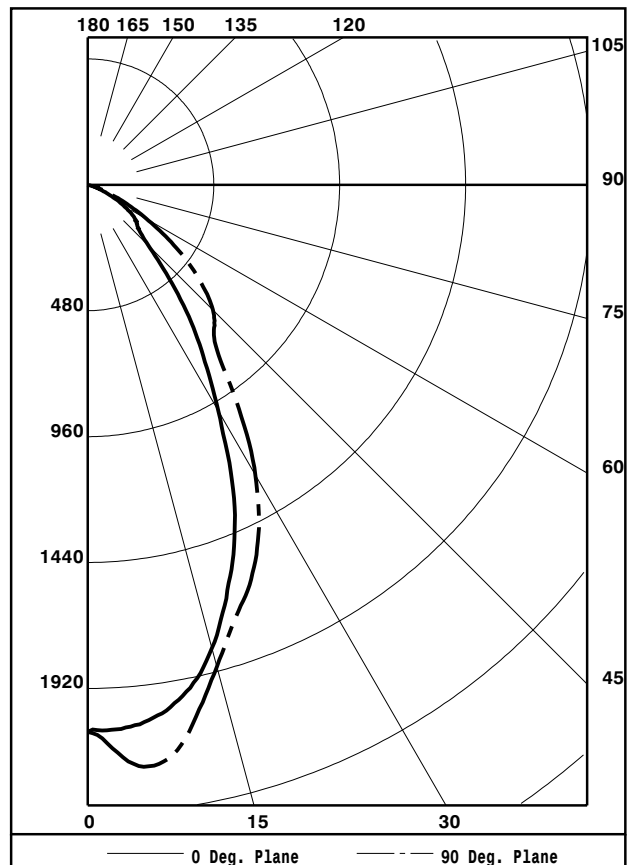
PLANE: 0-DEG 90-DEG

SPACING CRITERIA: 0.9 1.0

LUMINOUS DIAMETER: 7.375

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	75647.	75647.	75647.
45	16727.	28734.	34634.
55	13663.	20621.	25302.
65	7898.	10559.	12448.
75	2523.	2804.	3505.
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: 06083

DATE: 08-14-2001

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	52	52	52	52	51	51	51	51	49	49	49	47	47	47	45	45	45	44	44	44	44
1	50	48	47	46	49	47	46	45	45	45	44	44	43	42	42	42	41	40	40	40	40
2	47	44	42	40	46	43	42	40	42	40	39	41	39	38	39	38	37	37	37	37	37
3	44	41	38	36	43	40	38	36	39	37	35	38	36	35	37	35	34	33	33	33	33
4	41	37	34	32	40	37	34	32	36	33	31	35	33	31	34	32	31	30	30	30	30
5	38	34	31	29	37	33	31	29	33	30	28	32	30	28	31	29	28	27	27	27	27
6	36	31	28	26	35	31	28	26	30	28	26	30	27	25	29	27	25	25	25	25	25
7	34	29	26	23	33	28	26	23	28	25	23	27	25	23	27	25	23	22	22	22	22
8	31	26	23	21	31	26	23	21	26	23	21	25	23	21	25	22	21	20	20	20	20
9	29	24	21	19	29	24	21	19	23	21	19	23	21	19	23	20	19	18	18	18	18
10	27	22	19	17	27	22	19	17	22	19	17	21	19	17	21	19	17	16	16	16	16

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	2085	2085	2085	2085	2085
5	2067	2117	2184	2218	2225
10	1994	2104	2155	2156	2142
15	1828	1925	1943	1918	1902
20	1588	1671	1710	1717	1706
25	1319	1375	1476	1523	1528
30	995	1071	1196	1274	1278
35	743	860	952	982	967
40	518	639	733	758	748
45	326	443	560	655	675
50	247	326	431	533	548
55	216	247	326	391	400
60	157	172	215	250	258
65	92	102	123	140	145
70	48	51	59	63	65
75	18	18	20	22	25
80	1	2	2	2	3
85	0	0	0	0	0
90	0	0	0	0	0

ZONAL LUMEN SUMMARY

0- 5	51.
5- 10	155.
10- 15	241.
15- 20	296.
20- 25	331.
25- 30	331.
30- 35	306.
35- 40	263.
40- 45	225.
45- 50	193.
50- 55	162.
55- 60	121.
60- 65	79.
65- 70	42.
70- 75	19.
75- 80	2.
80- 85	1.
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.



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 06083

DATE: 08-14-2001

PREPARED FOR: VANTAGE LUMINAIRES

VISUAL COMFORT PROBABILITY TABLE

RATED LUMENS PER LAMP 3200.

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	36	30	32	38	28	23	21	24
20	30	42	32	30	30	33	24	19	19
20	40	46	37	32	29	38	28	22	19
20	60	46	41	36	32	42	32	25	21
30	20	41	34	31	34	34	27	23	25
30	30	46	35	29	28	40	29	21	20
30	40	51	40	31	27	44	33	23	19
30	60	51	44	36	30	47	37	27	22
30	80	51	44	40	34	47	37	31	25
40	20	46	38	34	34	40	32	27	27
40	30	52	40	31	28	45	34	25	22
40	40	56	44	34	27	50	38	27	21
40	60	56	48	38	30	52	42	31	23
40	80	56	48	42	34	52	42	34	27
40	100	56	48	42	37	52	42	34	30
60	30	54	45	34	30	47	37	28	24
60	40	58	49	36	29	51	42	30	24
60	60	58	53	41	32	53	46	34	26
60	80	58	53	45	35	53	46	38	29
60	100	58	53	45	39	53	46	39	32
100	40	58	50	41	35	51	42	34	30
100	60	58	53	46	38	53	46	39	32
100	80	58	53	50	41	53	46	42	36
100	100	57	53	50	44	53	46	43	39



LUMINAIRE TESTING LABORATORY, INC.

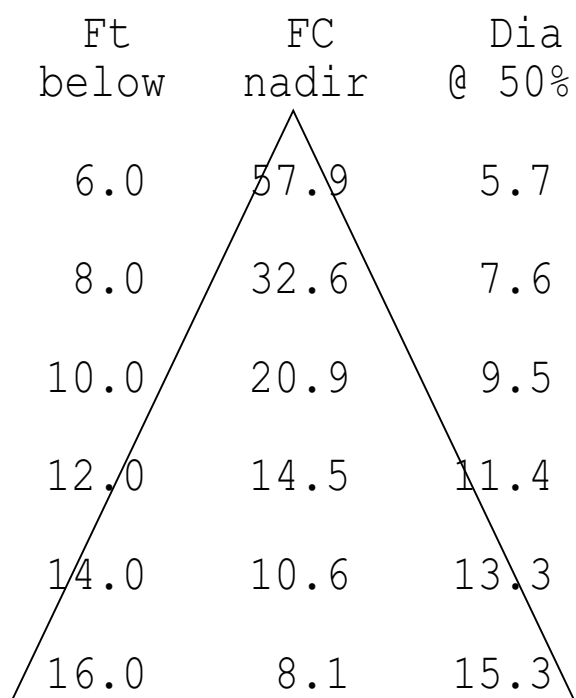


SUSTAINING
MEMBER

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

LTL TEST #06083

CIRCLE-OF-LIGHT



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