



LUMINAIRE TESTING LABORATORY, INC.



SUSTAINING
MEMBER

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

LTL NUMBER: 05640

DATE: 03-14-2001

PREPARED FOR: VANTAGE LUMINAIRES

CATALOG NUMBER: 7MHO-70-07000SCL

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

LAMP: ONE COATED 70 WATT ED17 METAL HALIDE RATED AT 5000 LUMENS.

#05640

MOUNTING: RECESSED

DEG	CANDELA	LUMENS
0	2592	
5	2602	249
15	2445	682
25	1936	875
35	1232	746
45	412	317
55	18	27
65	2	2
75	0	0
85	0	0
90	0	

ZONAL ZONE	LUMEN LUMENS	SUMMARY %LAMP	%FIXT
0- 30	1806	36.1	62.3
0- 40	2552	51.0	88.1
0- 60	2895	57.9	99.9
0- 90	2898	58.0	100.0
90-180	0	0.0	0.0
0-180	2898	58.0	100.0

TOTAL LUMINAIRE EFFICIENCY: 58.0%

CIE TYPE: DIRECT

LUMINAIRE SPACING CRITERION = 1.0

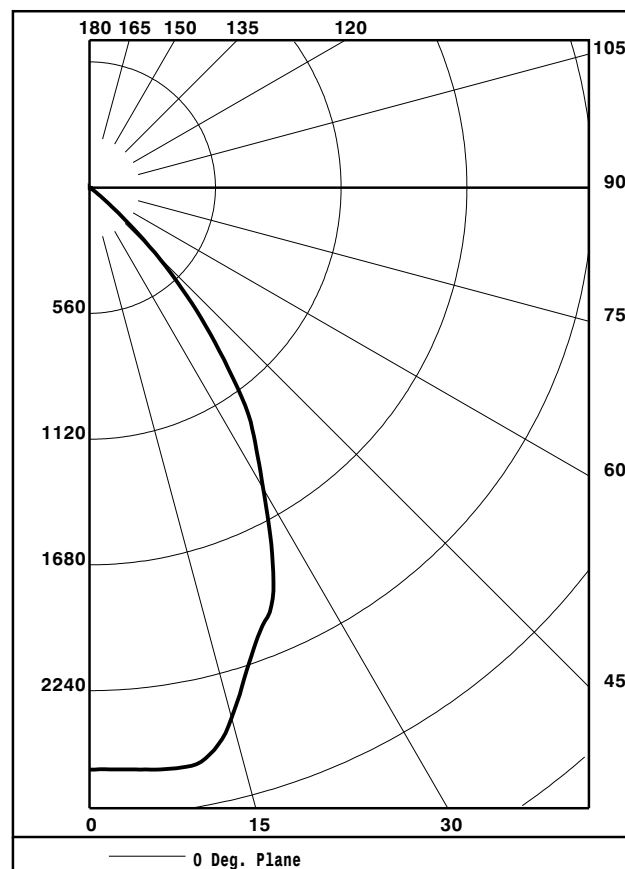
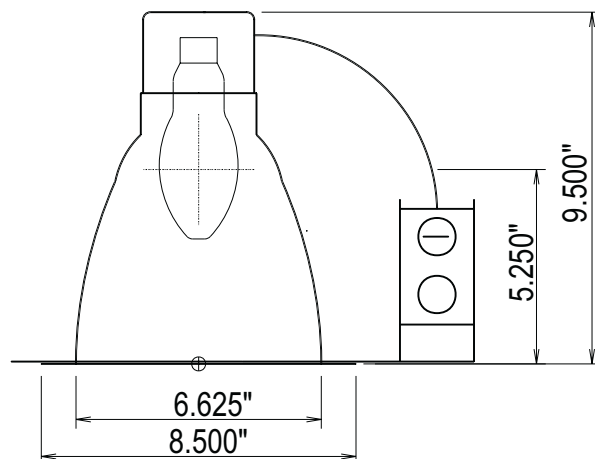
LUMINOUS DIAMETER: 6.625

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE AVERAGE

IN DEG

0	116539.
45	26197.
55	1411.
65	213.
75	0.
85	0.



TESTED BY HERSCHEL SCHRECK
CHECKED BY MIKE GRATHER

THIS REPORT BASED ON LM-46 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	69	69	69	69	67	67	67	67	64	64	64	62	62	62	59	59	59	58
1	66	65	63	62	65	63	62	61	61	60	59	59	58	57	57	56	56	55
2	63	61	59	57	62	60	58	56	58	56	55	56	55	54	55	54	53	52
3	60	57	55	52	59	56	54	52	55	53	51	54	52	50	52	51	50	49
4	58	54	51	49	57	53	51	48	52	50	48	51	49	47	50	48	47	46
5	55	51	47	45	54	50	47	45	49	47	45	48	46	44	47	45	44	43
6	52	48	45	42	52	47	44	42	46	44	42	46	43	42	45	43	41	40
7	50	45	41	39	49	44	41	39	44	41	39	43	40	39	42	40	38	38
8	47	42	39	36	47	42	39	36	41	38	36	40	38	36	40	38	36	35
9	45	39	36	34	44	39	36	34	38	36	34	38	35	33	37	35	33	33
10	42	37	34	31	42	37	33	31	36	33	31	36	33	31	35	33	31	30

CANDELA DISTRIBUTION

	0.0
0	2592
5	2602
10	2614
15	2445
20	2161
25	1936
30	1545
35	1232
40	804
45	412
50	113
55	18
60	5
65	2
70	0
75	0
80	0
85	0
90	0

ZONAL LUMEN SUMMARY

0- 5	62.
5- 10	187.
10- 15	304.
15- 20	378.
20- 25	434.
25- 30	441.
30- 35	407.
35- 40	338.
40- 45	224.
45- 50	93.
50- 55	23.
55- 60	4.
60- 65	2.
65- 70	1.
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) 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. 2) THIS TEST WAS CONDUCTED IN A CONTROLLED LABORATORY ENVIRONMENT, FIELD PERFORMANCE MAY DIFFER.



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VISUAL COMFORT PROBABILITY TABLE

RATED LUMENS PER LAMP 5000.

100. FC. REFLECTANCES 80/50/20									
ROOM		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	92	78	75	43	92	78	75	43
20	30	92	78	75	51	92	78	75	51
20	40	92	78	75	52	92	78	75	52
20	60	93	78	76	52	93	78	76	52
30	20	92	78	75	51	92	78	75	51
30	30	93	78	76	59	93	78	76	59
30	40	93	78	76	60	93	78	76	60
30	60	93	78	76	60	93	78	76	60
30	80	93	79	76	60	93	79	76	60
40	20	92	78	75	51	92	78	75	51
40	30	93	78	76	60	93	78	76	60
40	40	93	78	76	60	93	78	76	60
40	60	93	79	76	60	93	79	76	60
40	80	93	79	76	60	93	79	76	60
40	100	93	79	76	60	93	79	76	60
60	30	93	78	76	60	93	78	76	60
60	40	93	79	76	60	93	79	76	60
60	60	93	79	76	60	93	79	76	60
60	80	93	76	77	61	93	76	77	61
60	100	93	76	77	61	93	76	77	61
100	40	93	79	76	60	93	79	76	60
100	60	93	76	77	61	93	76	77	61
100	80	93	76	77	61	93	76	77	61
100	100	93	76	77	61	93	76	77	61



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LTL TEST #05640

CIRCLE-OF-LIGHT

Ft below	FC nadir	Dia @ 50%
6.0	72.0	6.0
8.0	40.5	8.0
10.0	25.9	10.0
12.0	18.0	12.0
14.0	13.2	14.0
16.0	10.1	16.0

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