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INDEPENDENT TESTING LABORATORIES, INC.
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REPORT NUMBER: ITL85157

ISSUE DATE: 09/04/15

PREPARED FOR: FINELITE, INC.

CATALOG NUMBER: S17-LED-VCF-PF-4ft-V-8-35

LUMINAIRE: EXTRUDED SEMI-DIFFUSE METAL REAR HOUSING, WHITE PAINTED FLAT METAL END CAPS EACH WITH SPECULAR FLAT METAL INTERIOR PIECE, FORMED WHITE PAINTED PERFORATED METAL FORWARD HOUSING PIECE WITH TRANSLUCENT WHITE FROSTED PLASTIC OVERLAY, FORMED WHITE PAINTED METAL REFLECTOR/CIRCUIT BOARD MOUNT, 4 WHITE CIRCUIT BOARDS EACH WITH 40 LEDS, FROSTED HOLOGRAPHIC FLAT PLASTIC UPPER AND LOWER LENSES, UPPER LENS FROSTED SIDE UP, LOWER LENS FROSTED BOTH SIDES. OVERLAY FROSTED SIDE OUT.

LAMPS: ONE HUNDRED SIXTY WHITE LIGHT EMITTING DIODES (LEDs), 80 UPPER LEDS AIMED 22-DEGREES ABOVE THE HORIZON, 80 LOWER LEDS AIMED 40-DEGREES BELOW THE HORIZON.

INPUT ELECTRICAL: 277.0 VOLTS, 37.9 WATTS, 0.144 AMPS

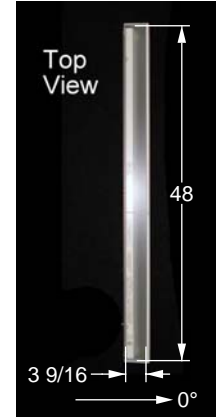
MOUNTING: WALL

LED DRIVER: OSRAM OT50W/PRG1400C/UNV/DIM/L, DRIVER HAS MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST, CLIENT STATES DRIVER PROGRAMMED FOR 700mA OUTPUT.

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (277VAC, 60Hz) TO THE DRIVER.

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 35.0 FEET



CANDELA DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0	FLUX
0	663	663	663	663	663	63
5	690	681	660	641	634	180
15	717	692	633	586	571	269
25	686	658	576	517	502	313
35	590	571	489	437	432	309
45	461	451	383	356	361	268
55	352	331	275	275	286	211
65	284	233	175	196	210	155
75	253	165	91	122	150	124
85	257	141	26	92	144	126
90	258	141	0	91	144	156
95	257	141	18	97	147	196
105	243	135	73	159	201	239
115	223	154	149	230	274	275
125	236	243	238	296	341	279
135	330	389	330	347	390	232
145	516	537	410	382	414	147
155	650	611	466	407	418	49
165	644	600	499	438	428	
175	561	545	512	485	474	
180	515	515	515	515	515	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	512	14.3
0- 40	825	23.0
0- 60	1402	39.0
0- 90	1892	52.7
90-120	477	13.3
90-130	717	20.0
90-150	1271	35.4
90-180	1698	47.3
0-180	3590	100.0

EFFICACY (277V) = 94.7 lm/W

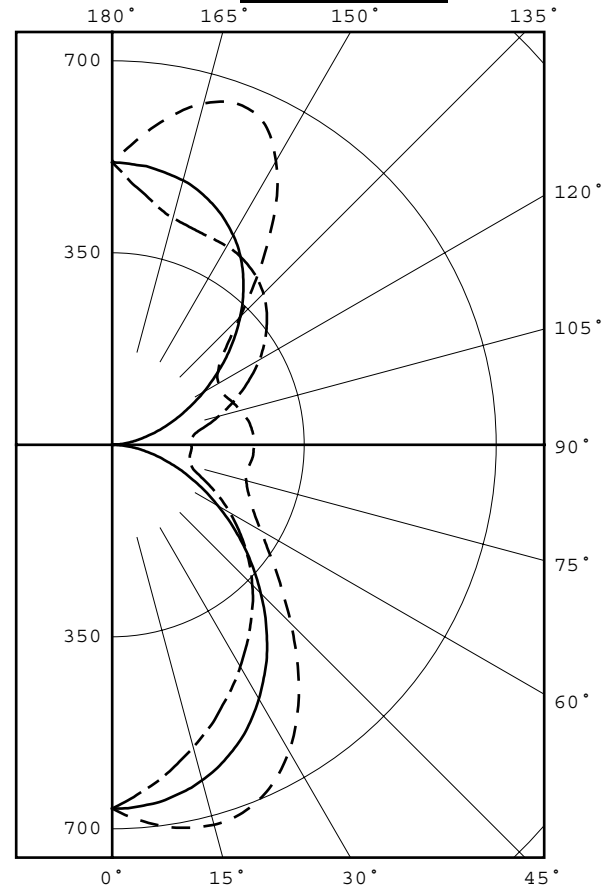
EFFICACY (120V) = 96.5 lm/W **

** THE EFFICACY AT 120 VOLTS IS BASED ON THE LUMENS FROM THIS REPORT AND THE WATTAGE MEASURED AT 120 VOLTS FROM ITL REPORT NUMBER ITL85157-THD.

CIE TYPE - GENERAL DIFFUSE

PLANE : 0-DEG 90-DEG 180-DEG

SPACING CRITERIA : 1.38 1.20 1.06



LEGEND:

0-deg -----
90-deg =====
180-deg -----

Checked M KLOPF

Approved R BEATTIE
Lighting Engineer



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CANDELA DISTRIBUTION

LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0
0.0	663	663	663	663	663	663	663	663	663
5.0	690	687	681	671	660	649	641	636	634
10.0	709	705	691	671	650	629	615	605	604
15.0	717	712	692	661	633	601	586	574	571
20.0	710	705	681	642	608	570	553	542	538
25.0	686	682	658	613	576	534	517	507	502
30.0	645	640	620	575	535	493	478	471	467
35.0	590	587	571	528	489	449	437	434	432
40.0	526	524	514	475	437	405	397	397	396
45.0	461	461	451	418	383	358	356	359	361
50.0	402	400	389	357	329	312	315	320	324
55.0	352	348	331	298	275	268	275	282	286
60.0	313	303	279	242	223	224	235	243	248
65.0	284	269	233	190	175	182	196	206	210
70.0	265	243	195	144	131	143	158	169	173
75.0	253	226	165	104	91	107	122	140	150
80.0	250	217	144	70	56	73	99	131	144
85.0	257	222	141	43	26	48	92	129	144
90.0	258	223	141	41	0	42	91	130	144
95.0	257	222	141	41	18	55	97	133	147
100.0	252	218	138	44	43	84	125	155	165
105.0	243	211	135	64	73	116	159	192	201
110.0	232	203	138	101	109	149	195	228	238
115.0	223	200	154	146	149	181	230	264	274
120.0	224	207	189	200	193	215	265	299	310
125.0	236	231	243	259	238	248	296	331	341
130.0	268	278	311	322	285	280	324	358	368
135.0	330	351	389	383	330	311	347	380	390
140.0	419	439	468	440	372	339	367	396	405
145.0	516	530	537	486	410	365	382	406	414
150.0	597	601	585	518	441	390	395	412	418
155.0	650	643	611	539	466	414	407	415	418
160.0	662	652	614	548	485	436	421	421	421
165.0	644	633	600	548	499	457	438	430	428
170.0	607	598	575	542	507	478	459	450	446
175.0	561	557	545	530	512	497	485	478	474
180.0	515	515	515	515	515	515	515	515	515



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	16
5- 10	47
10- 15	77
15- 20	103
20- 25	126
25- 30	143
30- 35	154
35- 40	159
40- 45	158
45- 50	151
50- 55	141
55- 60	128
60- 65	113
65- 70	98
70- 75	83
75- 80	71
80- 85	64
85- 90	61
90- 95	61
95-100	65
100-105	73
105-110	83
110-115	93
115-120	103
120-125	114
125-130	125
130-135	134
135-140	141
140-145	142
145-150	137
150-155	125
155-160	107
160-165	85
165-170	61
170-175	37
175-180	12

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	63
0- 20	243
0- 30	512
0- 40	825
0- 50	1133
0- 60	1402
0- 70	1613
0- 80	1767
0- 90	1892
0-100	2017
0-110	2173
0-120	2369
0-130	2608
0-140	2883
0-150	3162
0-160	3394
0-170	3541
0-180	3590



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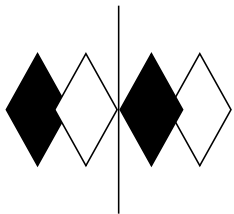
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53
1	97	92	88	84	90	86	82	78	73	70	67	61	59	57	50	49	47	42
2	88	80	74	68	81	74	69	64	63	59	55	53	50	47	44	41	39	35
3	80	71	63	57	74	65	59	53	56	51	46	47	43	40	39	36	33	29
4	74	62	54	48	68	58	51	45	50	44	39	42	37	34	34	31	29	25
5	68	56	47	41	62	52	44	39	44	38	34	37	33	29	31	28	25	22
6	62	50	42	36	57	46	39	34	40	34	30	34	29	26	28	25	22	19
7	58	45	37	31	53	42	35	29	36	30	26	31	26	23	26	22	20	17
8	53	41	33	28	49	38	31	26	33	27	23	28	24	20	24	20	17	15
9	50	37	30	25	46	35	28	23	30	25	21	26	21	18	22	18	16	14
10	47	34	27	22	43	32	25	21	28	22	19	24	20	17	20	17	14	12

ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS TEST SAMPLE.

NOTE: THE ZONAL CAVITY CALCULATION TECHNIQUE IS ACCURATE WHEN LUMINAIRES WITH SYMMETRIC CANDELA DISTRIBUTIONS ARE EMPLOYED AND WHEN THE LUMINAIRES ARE LOCATED SYMMETRICALLY THROUGHOUT THE ROOM. THIS UNIT HAS SPECIAL CHARACTERISTICS AND THEREFORE THESE COEFFICIENTS SHOULD BE USED WITH CAUTION.



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