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THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

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INDEPENDENT TESTING LABORATORIES, INC.
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REPORT NUMBER: ITL85158

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ISSUE DATE: 09/04/15

PREPARED FOR: FINELITE, INC.

CATALOG NUMBER: S17-LED-VCF-SF-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 METAL FORWARD HOUSING PIECE, 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 DOWN, LOWER LENS FROSTED BOTH SIDES.

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, 37.6 WATTS, 0.144 AMPS

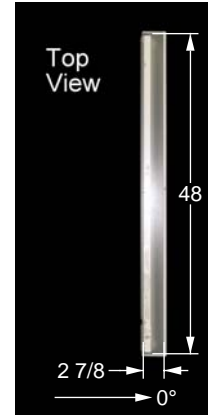
MOUNTING: WALL

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	687	687	687	687	687	
5	706	700	684	668	663	65
15	708	696	656	618	607	185
25	637	639	597	552	545	273
35	495	524	509	473	473	310
45	323	379	400	388	396	293
55	175	235	287	299	314	238
65	73	117	183	212	231	165
75	12	35	96	133	156	93
85	0	0	26	97	150	55
90	0	0	0	100	154	
95	0	0	18	110	163	59
105	0	2	79	181	227	100
115	8	36	163	264	313	159
125	55	156	258	337	392	221
135	196	361	350	391	444	274
145	478	550	425	419	466	290
155	660	631	478	432	458	241
165	660	617	510	453	450	151
175	572	556	522	495	487	50
180	524	524	524	524	524	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	522	16.2
0- 40	832	25.8
0- 60	1364	42.3
0- 90	1677	52.0
90-120	318	9.9
90-130	539	16.7
90-150	1103	34.2
90-180	1545	48.0
0-180	3222	100.0

EFFICACY (277V) = 85.7 lm/W

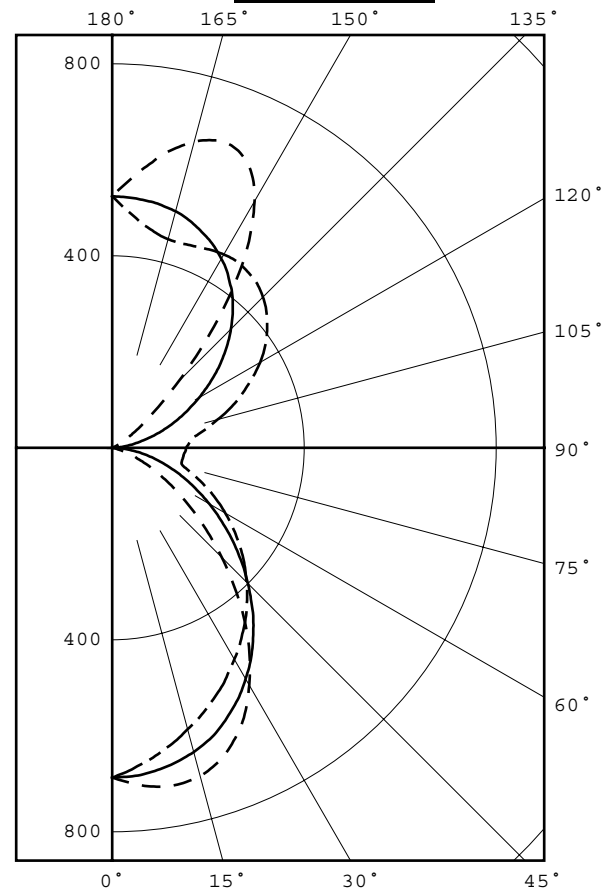
EFFICACY (120V) = 87.6 lm/W **

** THE EFFICACY AT 120 VOLTS IS BASED ON THE LUMENS FROM THIS REPORT AND THE WATTAGE MEASURED AT 120 VOLTS FROM ITL REPORT NUMBER ITL85158-THD.

CIE TYPE - GENERAL DIFFUSE

PLANE : 0-DEG 90-DEG 180-DEG

SPACING CRITERIA : 1.22 1.21 1.11



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	687	687	687	687	687	687	687	687	687
5.0	706	705	700	693	684	675	668	664	663
10.0	715	713	704	689	673	656	645	638	637
15.0	708	707	696	676	656	630	618	610	607
20.0	682	683	674	652	632	600	586	579	577
25.0	637	640	639	618	597	563	552	546	545
30.0	571	579	587	575	556	522	513	510	509
35.0	495	504	524	523	509	479	473	472	473
40.0	409	422	453	464	457	432	431	434	436
45.0	323	340	379	400	400	383	388	393	396
50.0	244	263	305	335	343	335	344	352	356
55.0	175	193	235	273	287	286	299	310	314
60.0	118	133	172	213	234	239	255	267	272
65.0	73	84	117	158	183	194	212	225	231
70.0	37	46	71	109	137	152	171	185	191
75.0	12	17	35	67	96	112	133	148	156
80.0	0	0	6	31	59	79	101	134	148
85.0	0	0	0	2	26	48	97	135	150
90.0	0	0	0	0	0	47	100	139	154
95.0	0	0	0	1	18	63	110	148	163
100.0	0	0	1	4	45	95	144	176	189
105.0	0	0	2	27	79	131	181	217	227
110.0	1	2	12	72	120	167	222	260	272
115.0	8	13	36	130	163	204	264	303	313
120.0	26	35	83	197	209	240	302	345	356
125.0	55	71	156	268	258	275	337	380	392
130.0	106	135	251	341	305	307	367	409	421
135.0	196	240	361	409	350	337	391	431	444
140.0	330	376	466	467	391	362	408	447	459
145.0	478	509	550	511	425	385	419	454	466
150.0	593	608	605	541	455	407	426	455	465
155.0	660	659	631	558	478	428	432	449	458
160.0	678	669	633	564	496	448	440	446	451
165.0	660	650	617	562	510	469	453	448	450
170.0	622	612	589	554	518	488	471	462	462
175.0	572	569	556	540	522	507	495	487	487
180.0	524	524	524	524	524	524	524	524	524



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	16
5- 10	49
10- 15	79
15- 20	106
20- 25	128
25- 30	144
30- 35	154
35- 40	156
40- 45	152
45- 50	142
50- 55	128
55- 60	111
60- 65	92
65- 70	73
70- 75	55
75- 80	39
80- 85	29
85- 90	26
90- 95	26
95-100	33
100-105	44
105-110	57
110-115	71
115-120	87
120-125	103
125-130	118
130-135	132
135-140	142
140-145	147
145-150	143
150-155	130
155-160	111
160-165	88
165-170	63
170-175	38
175-180	13

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	65
0- 20	250
0- 30	522
0- 40	832
0- 50	1126
0- 60	1364
0- 70	1529
0- 80	1622
0- 90	1677
0-100	1736
0-110	1836
0-120	1995
0-130	2216
0-140	2489
0-150	2779
0-160	3020
0-170	3171
0-180	3222



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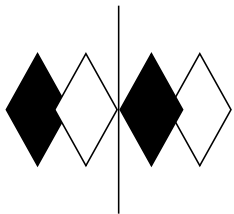
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	84	84	84	71	71	71	58	58	58	52
1	98	94	90	86	91	87	83	80	74	71	69	62	60	59	51	50	49	44
2	90	82	76	71	83	76	71	66	65	61	58	55	52	49	45	43	41	37
3	82	72	65	59	75	67	61	56	58	53	49	49	45	42	40	38	36	32
4	75	64	56	50	69	60	53	47	51	46	42	43	39	36	36	33	31	27
5	69	57	49	43	64	53	46	41	46	40	36	39	35	32	33	30	27	24
6	64	52	43	38	59	48	41	36	42	36	32	35	31	28	30	26	24	21
7	59	47	39	33	54	44	36	31	38	32	28	32	28	25	27	24	21	19
8	55	42	35	29	51	40	33	28	35	29	25	30	25	22	25	22	19	17
9	51	39	31	26	47	36	30	25	32	26	22	27	23	20	23	20	17	15
10	48	36	28	24	44	33	27	22	29	24	20	25	21	18	22	18	16	14

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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