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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: ITL85159

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ISSUE DATE: 09/07/15

PREPARED FOR: FINELITE, INC.

CATALOG NUMBER: S17-LED-ACF-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 45-DEGREES BELOW THE HORIZON.

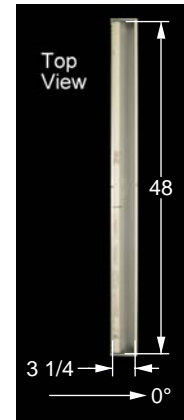
INPUT ELECTRICAL: 277.0 VOLTS, 37.6 WATTS, 0.143 AMPS
MOUNTING: WALL

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	195	195	195	195	195	
5	193	192	194	202	206	19
15	209	195	186	218	237	58
25	236	201	167	217	228	94
35	268	207	141	192	194	121
45	297	211	109	162	185	140
55	314	210	75	144	189	153
65	314	200	47	130	180	154
75	297	180	23	109	158	143
85	265	151	5	86	131	120
90	246	135	0	68	108	
95	234	132	25	58	91	107
105	257	220	110	95	111	164
115	411	384	226	177	167	267
125	648	564	354	279	259	367
135	810	694	483	387	361	412
145	858	761	593	489	461	390
155	846	793	678	582	550	317
165	829	803	734	666	640	207
175	793	784	760	737	728	72
180	764	764	764	764	764	

ZONAL LUMEN SUMMARY

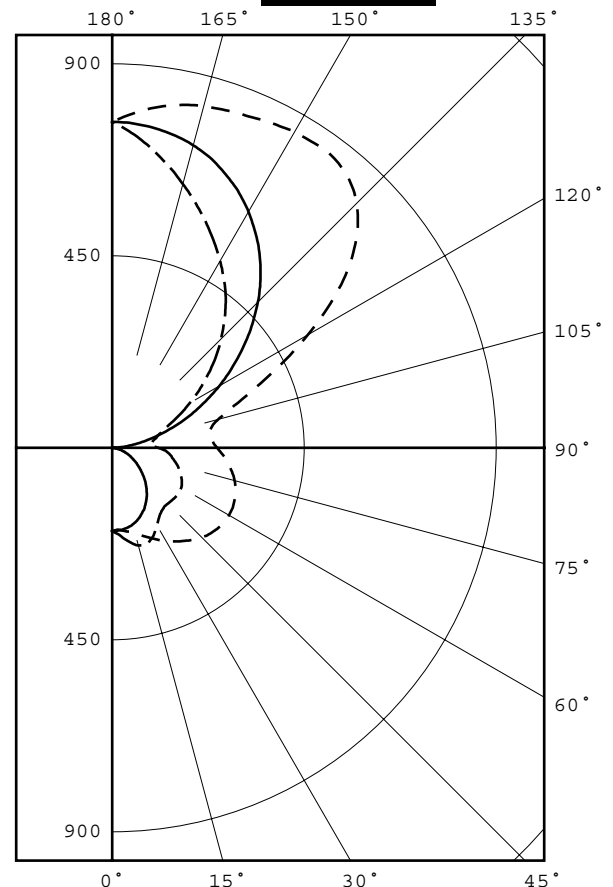
ZONE	LUMENS	%FIXT
0- 30	171	5.2
0- 40	292	8.8
0- 60	585	17.7
0- 90	1002	30.3
90-120	538	16.3
90-130	906	27.4
90-150	1708	51.7
90-180	2304	69.7
0-180	3306	100.0

EFFICACY (277V) = 87.9 lm/W

EFFICACY (120V) = 89.6 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 ITL85159-THD.

CIE TYPE - SEMI-INDIRECT



LEGEND:

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

Checked M KLOPF

Approved R BEATTIE
Lighting Engineer

THIS REPORT IS BASED ON PUBLISHED INDUSTRY PROCEDURES. FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE.



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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	195	195	195	195	195	195	195	195	195
5.0	193	192	192	193	194	198	202	205	206
10.0	199	197	193	189	191	199	210	219	223
15.0	209	205	195	185	186	199	218	232	237
20.0	221	215	198	180	178	195	221	235	239
25.0	236	226	201	174	167	189	217	227	228
30.0	252	238	204	166	155	179	207	211	210
35.0	268	251	207	158	141	167	192	194	194
40.0	283	262	210	149	125	152	176	182	186
45.0	297	272	211	140	109	137	162	178	185
50.0	307	279	211	129	91	121	152	176	187
55.0	314	283	210	118	75	106	144	176	189
60.0	316	284	206	107	60	93	137	173	187
65.0	314	281	200	96	47	81	130	167	180
70.0	308	273	191	85	34	71	120	157	170
75.0	297	263	180	73	23	61	109	145	158
80.0	282	249	166	61	12	52	97	132	144
85.0	265	233	151	49	5	42	86	119	131
90.0	246	215	135	39	0	31	68	97	108
95.0	234	205	132	58	25	34	58	81	91
100.0	233	210	160	104	62	56	73	91	98
105.0	257	246	220	162	110	95	95	106	111
110.0	317	314	297	228	166	143	132	131	132
115.0	411	411	384	300	226	195	177	169	167
120.0	529	524	476	374	290	249	227	215	210
125.0	648	630	564	447	354	303	279	265	259
130.0	744	719	638	513	420	359	333	315	310
135.0	810	781	694	573	483	416	387	367	361
140.0	846	816	733	625	541	471	439	418	412
145.0	858	831	761	669	593	523	489	468	461
150.0	855	834	780	705	639	572	536	513	506
155.0	846	831	793	734	678	618	582	559	550
160.0	837	828	801	754	710	658	626	602	595
165.0	829	821	803	768	734	694	666	647	640
170.0	815	810	797	774	750	724	704	690	685
175.0	793	791	784	773	760	748	737	730	728
180.0	764	764	764	764	764	764	764	764	764



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	5
5- 10	14
10- 15	24
15- 20	34
20- 25	43
25- 30	51
30- 35	58
35- 40	63
40- 45	68
45- 50	72
50- 55	75
55- 60	77
60- 65	78
65- 70	77
70- 75	74
75- 80	69
80- 85	63
85- 90	57
90- 95	51
95-100	56
100-105	71
105-110	93
110-115	119
115-120	148
120-125	174
125-130	194
130-135	205
135-140	207
140-145	202
145-150	189
150-155	170
155-160	147
160-165	119
165-170	88
170-175	54
175-180	18

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	19
0- 20	77
0- 30	171
0- 40	292
0- 50	432
0- 60	585
0- 70	739
0- 80	882
0- 90	1002
0-100	1109
0-110	1273
0-120	1540
0-130	1908
0-140	2320
0-150	2710
0-160	3027
0-170	3234
0-180	3306



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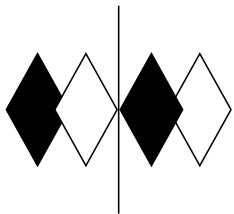
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	38	38	38	30
1	92	87	82	78	82	78	74	70	61	58	56	45	43	42	31	30	29	22
2	83	75	68	62	74	67	61	56	52	48	45	39	36	33	26	24	23	17
3	75	65	57	51	67	58	51	46	45	41	37	33	30	27	22	20	18	14
4	68	57	49	42	61	51	44	38	40	35	31	29	26	23	20	17	15	11
5	62	50	42	36	55	45	38	33	35	30	26	26	22	19	18	15	13	9
6	57	45	37	31	51	40	33	28	32	26	22	23	20	17	16	13	11	8
7	53	40	32	27	47	36	29	24	28	23	19	21	17	15	14	12	10	7
8	49	36	29	23	43	33	26	21	26	21	17	19	15	13	13	11	9	6
9	45	33	25	20	40	30	23	19	23	18	15	18	14	11	12	10	8	5
10	42	30	23	18	38	27	21	16	21	17	13	16	13	10	11	9	7	5

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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